THE DEFINITIVE GUIDE TO INTERNATIONAL BUSINESS EXPANSION

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ABSTRACT

This work presents a comprehensive approach to international business expansion, the relevance of which is driven by growing globalization and the need to systematize companies' entry into international markets. The main goal is to develop methodological tools for effective planning and implementation of international expansion. Key aspects are included, such as the legal component covering compliance requirements, legal considerations for identifying and vetting partners, contract structuring, and intellectual property protection. An original framework, COMPASS, is proposed, which integrates the Global Instability Risk Algorithm (GIRA), Emerging Potential Index (EPI), and Strategic Interest Alignment Score (SIAS) to systematize the decision-making process for international market entry. GIRA assesses present-day risks, EPI evaluates long-term growth potential, and SIAS ensures alignment with firm-specific strategic goals. The methodology for assessing organizational readiness is described, including analysis of resource potential, cultural compatibility, and geopolitical risks. A set of practical tools has been developed for financial modeling. partner due diligence, and international operations management. Mechanisms for integrating sustainability principles and ethical practices into international expansion strategy are presented. including analysis of industry specifics and regional characteristics. As a result, a holistic system for managing the international expansion process has been formed, allowing to minimize risks and increase the effectiveness of entering new markets. The material is intended for company executives, international business consultants, and specialists in international management.

INTRODUCTION

International business expansion has become a multifaceted process that requires companies to address not only financial opportunities but also diverse political, cultural, and regulatory contexts in target markets. Traditional approaches, such as the Eclectic Paradigm (often referred to as the OLI framework) and the Uppsala model, have laid groundwork for understanding why and how firms expand internationally [1, 2]. However, these models may not fully account for institutional volatility, particularly in emerging markets, necessitating the integration of contemporary risk-assessment tools [14]. Furthermore, rising global interdependencies, rapid technological changes, and evolving regulatory landscapes necessitate more integrated and data-driven methodologies for evaluating foreign markets. These developments underline the need for a robust framework that assesses immediate risks, longterm market potential, and alignment with firm-specific strategies before committing resources to cross-border ventures.

A growing body of scholarly and practical insights highlights the criticality of risk management and due diligence in internationalization. Firms increasingly face a "liability of foreignness," contending with institutional differences, untested legal systems, and unfamiliar political environments,, which can be exacerbated by cultural misalignments leading to increased operational costs [3, 15]. Compliance issues, along with the pressure to adopt sustainable and ethically responsible practices, complicate the expansion process further. To navigate this complexity, some organizations now employ multi-dimensional models that incorporate quantitative risk scores, forward-looking economic indicators, and internal strategic priorities, echoing calls for hybrid models that integrate macroeconomic metrics with firm-specific strategic considerations [4, 5, 16]. The urgency to minimize failure rates, protect reputations, and ensure favorable returns has galvanized interest in frameworks that can unify these considerations.

Although numerous models address elements of international expansion — such as political risk assessment, macroeconomic analysis, or cultural adaptation — few offer a cohesive methodology that systematically integrates present-day risk, emerging potential, and company-specific strategic goals. Traditional methods (e.g., PESTEL or country risk indices) provide high-level snapshots of external conditions but often lack mechanisms to incorporate firm-specific priorities or the potential for long-term structural growth. In developing nations, where chronic shortages historically drove populations to queue for hours for basic groceries or wait years for cars, as seen in the USSR, this immense untapped potential creates vast demand that businesses can uniquely satisfy as first or sole providers, market opportunity traditional frameworks frequently overlook (see, e.g. Image 1 for lines for McDonald's in Moscow in 1990's and lines in Tashkent (Uzbekistan) for KFC in 2018). Conversely, purely strategic or financial frameworks may overlook broader socioeconomic and regulatory variables. This methodological gap can result in suboptimal market choices or failure to anticipate critical hurdles, including legal compliance or socio-political unrest, particularly given the risks of "regulatory whiplash" and the potential for rapid regulatory changes [6, 17].

The overarching goal of this research is to develop and articulate a methodology for international expansion that synthesizes risk evaluation, future-oriented market analysis, and strategic alignment. Specifically, this study aims to:

1. Present a structured approach — rooted in academic theory and practical insights — that guides decision-makers from initial risk assessment to final market selection and operational planning.

2. Integrate the COMPASS framework, particularly its three core components (GIRA, EPI, and SIAS), into a broader method that also encompasses legal compliance, financial planning, organizational preparedness, and sustainability considerations.

3. Provide empirical and theoretical underpinnings to validate why such a composite method can mitigate expansion risks and potentially enhance long-term market performance. To fulfill these objectives, the research addresses the following key questions:

- How can multiple dimensions of international expansion (political risk, economic growth potential, strategic alignment, and sustainability) be incorporated into a single cohesive framework?
- What best practices in legal, financial, and organizational assessments can be systematically integrated into this methodology?



Image 1.

Top: Queue for KFC opening in Tashkent, Uzbekistan, in 2018. **Bottom:** Line for opening of McDonald's in Soviet Moscow in 1990 [25, 26] • To what extent does embedding Environmental, Social, and Governance (ESG) principles influence both risk mitigation and value creation in foreign markets?

From a theoretical standpoint, this study contributes to international business literature by offering a synthesized approach that merges established theoretical frameworks (e.g., OLI, Uppsala) with modern risk algorithms (e.g., GIRA) and forward-looking indices (e.g., EPI). For practitioners, the proposed methodology functions as a comprehensive guide. It provides a platform for quantitative risk measurement, helps identify strategic fits, and highlights compliance and sustainability imperatives. By bridging academic concepts and practical tools, the work aspires to serve both scholars seeking innovative research directions and corporate leaders aiming to reduce expansion uncertainties and achieve durable global footprints.

1. THEORETICAL-METHODOLOGICAL FOUNDATIONS

Academic literature on international business expansion highlights foundational models that explain why firms venture abroad and how they approach foreign markets. The Eclectic Paradigm, formulated by John Dunning, proposes that Ownership advantages (O), Location advantages (L), and Internalization benefits (I) collectively determine where and how firms invest internationally [1]. This perspective underscores factors such as firm-specific competencies, country-specific resources, and the strategic benefits of controlling operations rather than licensing them out. Critics of the OLI framework note, however, that it may underrepresent dynamic considerations like political fragility or shifts in consumer technology, particularly given that economic diversification and inequality are critical predictors of market stability [18].

Building on incremental learning, the Uppsala model suggests that firms gradually increase their commitment to foreign markets as they acquire experiential knowledge [2]. While this staged approach can help companies mitigate risk, contemporary scholarship points to "born-global" enterprises that internationalize rapidly, driven by digital platforms and global networks. Such firms bypass traditional stepwise processes, leveraging niche expertise and e-commerce channels to enter multiple national markets at once. Empirical analyses show that these agile expansions succeed when underpinned by robust knowledge exchange and risk tolerance, highlighting how digital platforms enable firms to bypass traditional internationalization stages [19].

Within these classical frameworks, risk assessment is often relegated to high-level macro analyses — like evaluating political stability or economic indicators — without offering refined tools for corporate managers to weigh one potential market against another in detail [7, 8]. Equally, compliance and organizational dimensions are insufficiently addressed, limiting the completeness of traditional models when compared to today's complex regulatory and global contexts. Consequently, modern methodologies build on classical theories but incorporate structured algorithms and strategic alignment indices to address gaps in assessing daily operational realities, long- term developments, and firm-specific priorities.

1.1. Integrated approach: the COMPASS framework

In response to these limitations, recent scholarship and practice have converged on more comprehensive tools. One such

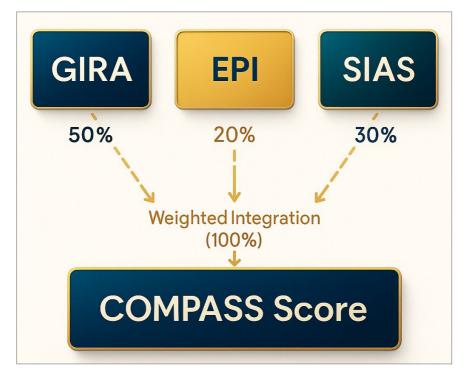


Figure 1. Conceptual integration of GIRA, EPI, and SIAS in the COMPASS framework

synthesis is the Comprehensive Objective Market Potential, Alignment, and Stability Synthesis (COMPASS) framework, which integrates multiple lenses into a single, data-driven system. COM-PASS is anchored by three distinct components:

- Global Instability Risk Algorithm (GIRA): Provides a numerical gauge of a nation's current stability, factoring political, economic, social, and additional categories.
- Emerging Potential Index (EPI): Quantifies the long-term growth capacity of a country, looking beyond immediate economic conditions to structural drivers such as resource endowment, demographic profile, and innovation potential.
- Strategic Interest Alignment Score (SIAS): Reflects how effectively a foreign market's characteristics align with the specific strategic objectives and capabilities of an individual firm.

Figure 1 (conceptual diagram) shows how GIRA, EPI, and SIAS integrate into the COMPASS composite score, weighting present risks, future potential, and company-specific fit.

1.1.1. GIRA: present risk evaluation

The Global Instability Risk Algorithm (GIRA) offers a systematic assessment of current country risks. Drawing on a wide array of quantitative and qualitative inputs, GIRA aggregates data across multiple dimensions, typically including:

- Political factors such as government effectiveness, legitimacy, corruption, and rule of law.
- Economic indicators including GDP growth, diversification, income inequality, and ease of doing business.
- Social and demographic aspects covering health, education, cultural cohesion, and potential ethnic tensions.
- Security measures (terrorism threats, conflict prevalence, effectiveness of security forces).
- Environmental vulnerabilities (exposure to natural disasters, resource scarcity), which can significantly impact supply chain stability [21].

- Technological readiness (infrastructure, digital adoption).
- Information factors (media freedom, misinformation risks).

Each category is weighted, and sub-scores are combined to produce a final value from 1 to 100, enabling managers to see at a glance where a particular country lies on a stability-instability, drawing from data sources such as the World Bank's Worldwide Governance Indicators [20]. Firms can tailor certain scoring nuances to reflect their own risk appetite — though GIRA's standardized criteria maintain consistent comparability. By focusing on the immediate operating environment, GIRA addresses the fundamental question: "Is the present environment safe and conducive for investment?"

1.1.2. EPI: long-term market potential

The Emerging Potential Index (EPI) shifts the analytic lens forward, estimating a country's capacity for future economic and social development. Its theoretical underpinnings rest on development economics, in which "catch-up" growth or latent capacity can be as important as current GDP levels. EPI's objective formula includes factors such as:

- Natural resource endowment (energy, minerals).
- Population scale and dynamics (youth bulge, demographic trends).
- Strategic geography (trade routes, proximity to major economic blocs).
- Innovation and entrepreneurship (Digital adoption, business creation, innovation capacity).
- Present development level (D) to adjust for baseline disparities, acknowledging the potential for untapped human capital and technological leapfrogging in emerging markets [22].

By using publicly available data sources and fixed weighting, EPI remains largely free of subjective bias, especially considering the correlation between youth bulges and future economic productivity with adequate education investments [23]. This dimension is especially relevant for companies adopting a long-term horizon, as it highlights markets that could surge economically once governance improves or investments increase, even if current conditions seem modest. In practical terms, EPI mitigates the pitfall of focusing solely on immediate returns, prompting managers to evaluate whether a country's structural fundamentals suggest compelling prospects over time.

1.1.3. SIAS: firm-specific strategic alignment

The Strategic Interest Alignment Score (SIAS) captures each organization's unique priorities. In contrast to GIRA and EPI, which rely on more standardized indicators, SIAS is inherently subjective by design. Companies weigh criteria — for example, regulatory transparency, market demand for the firm's products, workforce capabilities, or cultural compatibility — according to their own goals, views and biases. The result is a 1–100 score that pinpoints how well a nation aligns with a particular firm's objectives and operational model. And even if scores would be substantially affected by SIAS skew (one way or the other) — this is still COMPASS' design, as whenever a human or a company does not feel positive about an action, it is more advisable to either decide not to take on the action temporarily or permanently.

SIAS ensures that a high GIRA or EPI alone is insufficient if the country does not match the company's core competencies, brand positioning, or resource needs. For instance, a global healthcare conglomerate might place heavy emphasis on the local healthcare system's maturity and IP protection, whereas a renewable energy firm could focus on environmental regulation support and stable energy policies. Through SIAS, managers incorporate these individualized elements into the overall expansion decision, preventing reliance on "one-size-fits-all" country risk or growth indices.

The COMPASS framework consolidates these three components into a single composite score, typically with GIRA weighted at 50%, EPI at 20%, and SIAS at 30%. These weights are based on the relative importance of each component in evaluating market suitability. GIRA's 50% weighting reflects the critical role of current stability, as unstable conditions can undermine any expansion effort. SIAS, at 30%, ensures the market aligns with the firm's strategic objectives, a key factor in operational success. EPI's 20% accounts for long-term growth potential, which is secondary to immediate viability. These proportions are derived from analysis of historical market entries and provide a balanced framework for decision-making. This weighting also reflects the primacy of current stability, tempered by forward-looking potential, and finalized by strategic fit. The final COMPASS score enables companies to rank potential target countries and develop a shortlist for deeper investigation. A market with strong EPI but poor GIRA might still be considered if the firm is highly risk-tolerant and sees a compelling strategic fit, whereas a market with moderate EPI but strong GIRA and high SIAS might be more appealing for risk-averse or brand-sensitive companies. By blending quantitative and qualitative insights, COMPASS provides a balanced perspective, ensuring that managers consider both near-term viability and prospective opportunities within the context of their corporate strategy.

1.2. Legal, financial, and organizational underpinnings

While COMPASS lays the foundation for market selection, successful expansion also relies on thorough legal, financial, and organizational preparedness. These dimensions are vital in turning theoretical market evaluations into viable operational strategies.

1.2.1. Legal and compliance framework

Navigating foreign legal regimes is often the first major hurdle in internationalization. Researchers have long emphasized the importance of institutional theory, which notes that divergent rules, regulations, and norms significantly affect expansion outcomes, emphasizing that institutions are the "rules of the game" shaping economic behavior [3, 24]. Firms must evaluate business formation requirements, restrictions on foreign ownership, and sector-specific mandates to ensure legitimate market entry. Beyond set-up formalities, continuous compliance is critical. Host countries can quickly alter investment rules or impose new taxes, posing "regulatory whiplash" risks for unprepared entrants. Additionally, anti-corruption standards (e.g., FCPA) mandate stringent internal controls, necessitating audits and training to prevent legal breaches [5, 9]. Accordingly, best practice dictates that companies engage local legal experts early, secure intellectual property protections in the target market, and implement robust compliance oversight to preserve legitimacy and mitigate regulatory threats.

1.2.2. Financial analysis and funding strategy

Global expansion incurs substantial costs, from one-time setup expenses to ongoing operational outlays. Financial feasibility studies should model various revenue scenarios alongside potential macroeconomic shocks, such as currency fluctuations or commodity price changes. Cost-of-capital analyses can guide whether to pursue local funding or rely on the parent company's retained earnings. Hedging strategies may be essential if currency volatility is expected, while political risk insurance can protect against expropriation or major disruptions. Ultimately, prudent capital structure decisions — such as forming joint ventures to distribute risk or applying for special economic zone benefits — help ensure that a new operation remains financially resilient. Frequent financial audits and strict internal controls further safeguard against fraud, especially in markets with limited transparency or higher corruption indices [5, 6, 9].

1.2.3. Organizational and managerial preparedness

Organizational alignment is central to operationalizing any market entry strategy. Scholars note that expansions often fail when internal processes, talent, and structure fail to adapt to new contexts. A best practice involves creating a dedicated crossfunctional task force that coordinates between corporate headquarters and local operations, ensuring strategic consistency as well as responsiveness to local conditions. Managerial expertise - particularly in cross-cultural communication — can ease integration and facilitate knowledge transfer. Hiring local talent and combining them with seasoned expatriates fosters a dual advantage, merging local know-how with the firm's global standards. Further, the selection of an organizational structure-subsidiary, branch, or joint venture — shapes reporting lines and accountability. Clear governance procedures (e.g., formal oversight committees, regular performance reviews) stabilize the expansion during its early phases, limiting confusion and building trust [6, 9].

1.3. Embedding ESG and sustainable development principles

Contemporary international business expansions increasingly intersect with Environmental, Social, and Governance (ESG) considerations, reflecting a global shift toward sustainable and responsible enterprise. Research suggests that corporations incorporating ESG targets frequently experience advantages in brand reputation, risk management, and investor appeal [5, 6, 10]. Strategically, many companies aim to align local operations with environmental goals, whether by adopting renewable energy sources or committing to waste reduction in new markets. Social engagement, such as local community development or fair labor practices, can reinforce a foreign subsidiary's social license to operate. Meanwhile, robust governance mechanisms safeguard the company from unethical behaviors, particularly in regions where transparency may be limited. Best practices recommend that ESG frameworks be integrated into early decision-making. A firm might, for instance, consider a country's environmental regulations as part of SIAS if sustainability is a core strategic objective. Alternatively, it can incorporate ESG measures directly into GIRA or EPI weighting where relevant, ensuring that each potential market is viewed through the lens of long- term ethical compliance and community impact [5, 6, 10].

Ongoing discussions in international business scholarship frequently revolve around several key tensions. One concerns the incremental vs. rapid expansion debate [2, 11]: whether a cautious, stepwise approach is more prudent or whether digital globalization now empowers faster multi-market entry. Another debate highlights quantitative vs. managerial heuristics. While frameworks like COMPASS rely on systematic scoring, executives often use personal experience or relationships to identify promising markets. A balanced approach that harnesses both data and managerial insight appears most robust. Additionally, standardization vs. adaptation remains a classic question in global strategy, with "glocalization" increasingly favored as companies seek to blend global brand identity with local market tailoring [9, 12, 13]. Empirical research also confirms the growing impact of digital platforms in market entry, especially for startups that initially test foreign demand online rather than establishing an immediate physical presence. Finally, there is mounting evidence that high ESG performance can bolster both financial returns and stakeholder acceptance, suggesting that integrative approaches are not merely philanthropic gestures but strategic differentiators.

Taken together, these debates reinforce the importance of adopting a comprehensive, flexible methodology for international expansion. Academic and practitioner insights reveal that structured analytical models should be supplemented by on-the-ground knowledge, cultural competence, and a commitment to ethical practices. The synergy of such factors defines modern, frameworks that aim to reduce the likelihood of abrupt exits or unintended harm while maximizing long-term organizational success in global markets.

2. METHODOLOGY AND IMPLEMENTATION TOOLS

This section outlines a practical methodology for guiding international business expansion. Building on the theoretical foundation of the COMPASS framework — encompassing GIRA, EPI, and SIAS — this portion describes specific procedures, data requirements, and decision-making instruments that operationalize the approach. It also incorporates broader considerations such as organizational readiness, legal and financial due diligence, ESG practices, and sectoral/regional adaptations.

2.1. The GIRA algorithm: procedural model

The Global Instability Risk Algorithm (GIRA) is a structured tool for evaluating present-day risks in candidate countries. It aggregates multiple factors — political, economic, social, security, environmental, informational, technological, and demographic into a single stability score (1–100). Each category contributes to the GIRA score according to its assigned weight, reflecting its impact on overall stability: Political Factors (25%), Economic Factors (20%), Social Factors (20%), Security Factors (15%), Environmental Factors (5%), Information Factors (5%), Technological Factors (5%), and Demographic Factors (5%). These weights, summing to 100%, prioritize political and economic stability as foundational drivers, while still accounting for secondary influences such as environmental and technological conditions. This helps managers compare how conducive a particular market is to investment, indicating whether risk mitigation strategies or additional caution are necessary.

Step 1: data collection and verification

1. Sources of Information: GIRA relies on data from reputable international organizations (e.g., the World Bank, the United Nations, Transparency International), along with local statistical agencies and expert analyses.

2. Cross-Checking: Because different institutions may report slightly divergent figures — for instance, variations in GDP growth or corruption perceptions— cross-verification is recommended. Identifying and reconciling inconsistencies through multiple sources ensures robust input data. To mitigate overreliance on high-quality data, particularly in data-scarce markets, the GIRA Criteria (Appendix A) provide detailed qualitative guide-lines for scoring each factor (e.g., government effectiveness, corruption levels). These criteria enable reliable assessments when quantitative data is incomplete or outdated, ensuring COMPASS's applicability across diverse contexts, from stable economies to frontier markets.

Table 1

Factor	Primary source	Secondary source	Prelim- inary score	Reviewer comments
Government effectiveness	World Bank Governance Indicators	Local Expert Survey	_	Need up- dated data post-election
Corruption levels	Transparency International Index	NGO & Me- dia Reports	_	Contradicto- ry findings in rural areas
GDP growth	IMF World Economic Outlook	National Sta- tistics Office	_	Last quarter shows down- turn
Social cohe- sion (ethnic tensions)	UN Develop- ment Pro- gramme	Local Univer- sity Research	_	Urban cen- ters mostly stable
Ease of do- ing business	World Bank Doing Busi- ness	Regional Chamber of Commerce	_	Emerging reforms in licensing process

Illustrative GIRA data collection matrix

3. Frequency of Updates: GIRA outputs can shift if political regimes change or new economic statistics emerge. A best practice is to refresh the data at least semi- annually, especially for markets prone to rapid policy shifts.

In Table 1, an example GIRA data-collection matrix is shown. Each row represents a factor (e.g., government effectiveness, corruption level, GDP growth, etc.), and the columns track data sources, provisional ratings, and reviewer comments.

Step 2: assigning scores to factors

Once data are compiled, each factor within GIRA's broad categories — political, economic, social, security, environmental, informational, technological, and demographic — is assigned a numeric score from 1 to 100, according to the GIRA Criteria guidelines ([7], Appendix 1). For instance:

- Political Factors: Government effectiveness, corruption levels, state legitimacy, rule of law, and participation in geopolitical blocs receive discrete sub-scores.
- Economic Factors: Metrics such as economic performance, diversification, income inequality, unemployment rates, and ease of doing business are evaluated.
- Social Factors: Education, health, ethnic/cultural cohesion, historical stability.
- Security Factors: Conflict prevalence, terrorism risk, security apparatus effectiveness.
- Environmental Factors: Climate vulnerability, disaster readiness.
- Information Factors: Media freedom, misinformation levels.
- Technological Factors: Infrastructure readiness, digital access.
- Demographic Factors: Population growth, urbanization patterns.

Each sub-score is justified using references like the Transparency International (TI) Index, the World Bank Ease of Doing Business ranking, or local socio-political reports. Organizations with higher risk tolerance might subjectively nudge sub-scores upward for moderate risk factors, whereas conservative firms might err on the lower side within the allowed scoring band. To maintain reliability despite subjective adjustments, GIRA incorporates the following safeguards:

- Narrow Criteria Definitions: Each score band is anchored to specific qualitative and quantitative criteria (e.g., a security score of 70 requires 'low crime rates' and 'no active conflicts').
- **Structured Scoring Framework**: Evaluators must use verified data sources (e.g., UN reports, IMF statistics) and adhere to a standardized methodology.
- **Predictable Variability**: Subjective adjustments are capped within predefined bands (e.g., ±9 points), aligning with organizational risk tolerance while preserving comparability.

These mechanisms ensure that GIRA scores remain consistent and defensible across users and contexts, as the GIRA framework requires consistent reference to explicit numeric boundaries in the Appendix 1 to avoid undue bias.

Step 3: calculating the GIRA index (1–100)

After each factor receives a numeric rating, sub-scores are averaged by category and then multiplied by assigned weights (e.g., 25% for political, 20% for economic, 20% for social, 15% for security, 5% each for environmental, information, technological, and demographic). A simplified version of the formula is:

$$GIRA \ Score = \left(\sum_{c=1}^{C} \left[\frac{1}{n_c} \sum_{i=1}^{n_c} Factor \ Score_{i,c}\right] \times w_c\right)$$

where n_c is the number of factors in category c and w_c is the category's weight.

This yields a final GIRA score from 1 to 100, interpreted as follows:

• **90–100: Very Stable** — Minimal risk, ideal for immediate investment.

- **70–89: Stable** Low to moderate risk, suitable for expansion with standard monitoring.
- **50–69: Moderate Stability** Balanced risk, requires targeted mitigation strategies.
- **30–49: Unstable** High risk, demands extensive analysis and contingency plans.
- **1–29: Very Unstable** Severe risk, typically advises against entry.

These thresholds provide a clear framework for translating GIRA scores into strategic decisions.

Step 4: Interpreting Results and Mitigation Strategies

A GIRA score below 50 indicates significant market instability, suggesting either avoidance or robust contingency plans (e.g., political risk insurance, partnership with a local ally, or smaller-scale entry). Markets scoring 70 and above are generally deemed sufficiently stable for standard expansion. Where a market shows moderate or borderline stability, managers may proceed but with heightened caution, implementing deeper due diligence, stronger compliance structures, or a more gradual ramp-up. GIRA thus guides the baseline "go/no-go" decision and helps shape risk-management measures in each prospective country.

For enhanced cross-country comparison, GIRA scores can be normalized using a curve grading methodology:

1. Determine the highest GIRA score among evaluated countries ($G_{\rm max}$).

2. Compute the adjustment factor: $100 - G_{max}$.

3. Add this factor to each country's GIRA score to produce a normalized value. For instance, if G_{\max} is 90, the adjustment factor is 10; a country scoring 82 would normalize to 92, with the top performer scaled to 100. This approach clarifies relative stability differences, particularly in high-scoring regions.

2.2. Calculating the Emerging Potential Index (EPI)

The Emerging Potential Index (EPI) captures a country's future-oriented capacity for growth, focusing on structural strengths that are not always reflected in current performance. It is an objective measure grounded in standardized global statistics, excluding subjective adjustments to ensure reproducibility.

The EPI comprises four structural factors plus a development measure D:

1. Natural Resource Wealth (NRW): Per-capita value of exploitable resources (energy, minerals, agricultural potential).

• **Data Source Examples**: World Bank's Comprehensive Wealth of Nations dataset, UN Comtrade, and BP Statistical Review of World Energy.

2. Population Scale (PS): Total population, youth bulge, and demographic profile.

• Data Source Example: UN Population Division data.

3. Strategic Geographic Position (SGP): Proximity to key trade routes, logistical performance, regional connectivity.

• **Data Source Examples**: World Bank Logistics Performance Index, Global Connectivity Indices, and geospatial data on proximity to major trade blocs.

4. Innovation and Entrepreneurship (**IE**): This measures a country's digital readiness and entrepreneurial activity, combining Digital Adoption (DA) and Entrepreneurship (ENT) with a 60/40 weighting respectively.

- **Digital Adoption (DA)**: This shows how much people use digital tools like the internet and mobile phones, based on the Network Readiness Index (NRI) score from the Portulans Institute's latest report.
 - **Data Source:** NRI score from the Portulans Institute (use as is, as it is scored 0–100 anyway).
- Entrepreneurship (ENT): This measures entrepreneurship by combining the rate of new startups (NBD rate from the World Bank) and the quality of the startup environment (GII score

from **World Intellectual Property Organization (WIPO)**). The NBD rate is scaled to 0–100 using global minimum and maximum NBD rates, then averaged with the GII score. Formula

$$ENT = rac{\left(rac{NBDrate-MinNBD}{MaxNBD-MinNBD} imes 100
ight) + GII \; Score}{2}$$

• **Proxy Metric for Missing NBD:** If a country's New Business Density (NBD) score is unavailable, calculate a proxy metric using data like new business applications or formations from national statistics (e.g., US Census Bureau's Business Formation Statistics). Adjust this by dividing the number of new registrations by the working-age population (ages 15–64) and multiplying by 1,000. For instance, if there are 1.4 million new business applications and a working-age population of 200 million, the proxy NBD is:

$$\left(\frac{1,400,000}{200,000,000}\right) \times 1,000 = 7.0$$

Each factor is scored on a 0-100 scale based on global percentile rankings. For instance, the top 1% of countries in patent filings per capita may score near 100 on IE, while those near the bottom rank approach zero.

EPI aggregates the factor scores using empirically derived weights. Let

 $\alpha_{\scriptscriptstyle NRW},\,\alpha_{\scriptscriptstyle PS},\,\alpha_{\scriptscriptstyle SGP},\,\alpha_{\scriptscriptstyle IE}$ be fixed coefficients set by a neutral standards committee, and let D represent the development-adjustment factor (some approaches treat it as a negative exponent or a separate dimension).

$$\alpha_{NRW} + \alpha_{PS} + \alpha_{SGP} + \alpha_{IE} = 1$$

For instance:

 $\alpha_{NRW} = 0.30, \ \alpha_{PS} = 0.30, \ \alpha_{SGP} = 0.20, \ \alpha_{IE} = 0.20$

The development-adjustment factor, D, represents a country's current advancement, drawing from three standardized metrics:

- **GDP per Capita Score** (**GCS**): Using IMF or World Bank PPP-adjusted GDP per capita. Countries are ranked by GCS from 0–100.
 - **Scaling**: GCS will be calculated using a logarithmic scale between a global minimum GDP per capita and a global maximum GDP per capita, as this reflects the distribution of GDP per capita:

 $GCS = \frac{\ln(GDP \ per \ capita \ of \ target \ country) - \ln(lowest \ GDP \ per \ capita)}{\ln(highest \ GDP \ per \ capita) - \ln(lowest \ GDP \ per \ capita)} \times 100$

- Human Development Score (HDS): Directly derived from the UNDP's Human Development Index (HDI). The HDI, normally 0–1, is scaled linearly to 0–100.
 Scaling: HDS = HDI × 100
- **Infrastructure Score (IFS)**: From standardized global indices (e.g., WEF Global Competitiveness Reports, International Telecommunication Union data). Countries are ranked and mapped to 0–100.

Formula for D:

 $D = 0.4 \times \text{GCS} + 0.3 \times \text{HDS} + 0.3 \times \text{IFS}$

The Development Level (D) metric captures both immediate economic capacity and the structural enablers of long-term growth by combining GDP per Capita Score (GCS), Human Development Score (HDS), and Infrastructure Score (IFS) in a 40/30/30 distribution. GCS, weighted at 0.4, reflects immediate purchasing power and revenue potential — signals that an economy can sustain robust commercial activity in the short term. HDS and IFS, each weighted at 0.3, address longer-horizon fundamentals: a nation's collective well-being, adaptability, and innovative capabilities (HDS), as well as the physical and digital networks (IFS) crucial for reliable production and distribution. This balance hews to recognized industry practices, acknowledging that a strong GDP per Capita often drives initial interest in a market, while durable human capital and infrastructure shore up resilience and competitive advantage over time.

With the structural factors and the Development Level defined, we now turn to the Potential Score (P), which quantifies a country's inherent capacity for future growth. Unlike D, which measures current achievement, P is forward-looking, aggregating the four structural factors — Natural Resource Wealth (NRW), Population Scale (PS), Strategic Geographic Position (SGP), and Innovation and Entrepreneurship (IE) — to assess the raw potential embedded in a country's resources, demographics, location, and innovative dynamism. Each factor, scored on a 0–100 scale based on global percentile rankings, contributes to P through a weighted sum, reflecting its relative importance to growth potential.

Defining the Potential Score (P)

The Potential Score (P) is calculated as:

 $P = (\alpha_{NRW} \times NRW) + (\alpha_{PS} \times PS) + (\alpha_{SGP} \times SGP) + (\alpha_{IE} \times IE)$

where:

- $\alpha_{NRW} + \alpha_{PS} + \alpha_{SGP} + \alpha_{IE} = 1$
- Example weights, as set by the standards committee, might be:

 $\alpha_{NBW} = 0.30, \ \alpha_{PS} = 0.30, \ \alpha_{SGP} = 0.20, \ \alpha_{IE} = 0.20$

These weights prioritize factors like natural resources and population scale (each at 0.30) as foundational drivers of potential, while strategic geography and innovation (0.20 each) enhance a country's ability to leverage those assets. The resulting P score, ranging from 0 to 100, represents the maximum growth potential a country could achieve based on its structural strengths, independent of its current development.

Combining P and D into the Emerging Potential Index (EPI)

The Emerging Potential Index (EPI) integrates the Potential Score (P) with the Development Level (D) to provide a balanced measure of a country's growth prospects. While P highlights structural advantages, D indicates how much of that potential has already been realized. The *EPI* adjusts P based on D, recognizing that less developed countries (with lower D scores) have more untapped potential, whereas highly developed countries (with higher Dscores) may face diminishing returns on their structural strengths.

The EPI is calculated using the following formula:

$$EPI = P \times \left(1 + \frac{100 - D}{100}\right).$$

Here is how it works:

- *P* sets the ceiling of potential, based on structural factors.
- The term (1 + (100 D)/100) reflects how much of that potential remains untapped:
 - If D = 0 (minimal development), the factor is 2 and EPI equals 2P—full potential remains untapped.
 - $\circ~$ If D = 100 (maximum development), the factor is 1 and EPI equals P.
 - The linear scale reflects that countries with lower development may offer greater catch-up growth, magnifying their latent potential.

The linear scale reflects that countries with lower development may offer greater catch-up growth, magnifying their latent potential. This formula scales P by a factor that decreases linearly as D increases, capturing the idea that countries with lower development levels have more room for rapid growth, while those with higher development may have less potential left to unlock.

This formula also ensures the EPI captures the interplay between a country's structural promise and its current reality, prioritizing nations with strong fundamentals and significant scope for advancement.

Markets with EPI \geq 70 indicate strong latent catalysts for growth: large or young populations, resource availability, or a dynamic entrepreneurial climate. An EPI in the 40–69 range suggests partial strengths that may require policy reform or targeted investment, while <40 denotes limited upside. For companies adopting a patient investment model (e.g., infrastructure, energy, or technology firms), a high EPI can counterbalance moderate immediate challenges if leadership believes in future market maturation. However, if GIRA is too low, even strong future potential might be offset by unacceptable present-day risks.

2.3. Constructing the Strategic Interest Alignment Score (SIAS)

While GIRA and EPI rely on standardized metrics, the Strategic Interest Alignment Score (SIAS) is firm-specific and deliberately subjective. It measures how well a given market matches a company's unique goals, capabilities, and operating preferences.

Before calculating SIAS, management teams define factors critical to success in a foreign market. These might include:

- Regulatory Alignment: Ease of licensing, IP protection, environmental or labor regulations.
- Workforce Availability: Existence of skilled labor or robust talent pipelines.
- Market Demographics: Fit with the firm's products/services, brand acceptance, cultural compatibility.
- Infrastructure and Logistics: Reliability of supply chains, connectivity, technology readiness.
- Environmental and Social Standards: For sustainabilityfocused companies, alignment with ESG targets or compliance with certain green certifications.

Each factor is assigned a descriptive label (e.g., "Quality of Healthcare System", "Cultural Synergy", "Political Neutrality", or "Digital Infrastructure Adequacy") based on the firm's strategic vision.

Management then assigns a relative weight (α_i) to each factor, reflecting its importance (summing to 100%). The team rates each candidate market on a 1–100 scale for each factor. SIAS is the weighted average across all chosen factors:

$$SIAS = \sum_{i=1}^{n} (\alpha_i \times Factor Score_i)$$

where $\sum_{i=1}^{n} \alpha_i = 1$

For example, a healthcare multinational might place 50% weight on local healthcare infrastructure, 30% on regulatory frameworks, and 20% on workforce skills. A market scoring high in these three areas yields a favorable SIAS, indicating a strong strategic fit. Conversely, a renewable energy firm might emphasize environmental regulations, resource availability, and local incentives, yielding a different weighting scheme.

SIAS scales vary by sector. A consumer goods company could prioritize supply chain reliability and consumer purchasing power, while an IT startup may focus on smartphone penetration rates, digital payment adoption, and intellectual property protection. In each case, the methodology remains the same, but the factor set changes, demonstrating the inherent flexibility of SIAS.

2.4. Integrating GIRA, EPI, and SIAS: the COMPASS composite

After deriving *GIRA* (present risk), *EPI* (future potential), and *SIAS* (firm-level alignment), the *COMPASS* framework unifies these scores into a single composite measure. Typical weights are *GIRA* = 50%, SIAS = 30%, and *EPI* = 20%. The resulting formula:

 $COMPASS = (0.50 \times GIRA) + (0.30 \times SIAS) + (0.20 \times EPI)$

COMPASS score interpretation:

- <50: Critically high risk; the market may not be suitable unless the firm can tolerate severe instability.
- 50–70: Cautionary zone; moderate risk or partial alignment. Entry is feasible, but robust risk-management protocols and phased investments are recommended.
- >70: High viability; strong current stability (GIRA), good long-term prospects (EPI), and significant strategic fit (SIAS).

Figure 2 illustrates how these components converge to form the final COMPASS index. This single-score ranking helps management teams compare multiple markets at a glance, focusing deeper due diligence on those with the highest scores.

GIRA (50%) ----
EPI (20%) ---- Weighted SUM
$$\rightarrow$$
 COMPASS (1–100)
SIAS (30%) ----

Figure 2. Illustration of COMPASS index aggregation

The COMPASS score provides specific thresholds for interpreting market suitability:

- **75 or higher**: Indicates a market with high stability, strong strategic alignment, and significant growth potential, suitable for immediate and full-scale expansion.
- **50 to 74**: Suggests moderate suitability, where risks or limited alignment exist, recommending phased entry or pilot projects.
- **Below 50**: Signals high instability, poor strategic fit, or low growth potential, advising against entry unless exceptional circumstances apply.

COMPASS guides both high-level portfolio decisions and specific country selection. For instance, a firm might rank 15 potential markets by COMPASS to create a shortlist of 3–5 with the highest composite scores. Managers then combine these findings with intangible insights, on-site visits, or pilot tests before finalizing the expansion roadmap.

Even with a strong COMPASS score, successful entry depends on organizational preparedness. Internal resource capabilities and cultural adaptability can influence execution quality. Companies should evaluate their human resources (HR), finances, production capacities, and IT infrastructure. For instance, a robust HR pipeline ensures that the new venture can be staffed with a blend of local hires and experienced expatriates who understand the corporate culture. Adequate capital reserves or clear financing sources (e.g., corporate bonds, equity) guarantee that the firm can handle start-up costs and initial losses without straining overall financial health.

A resource audit might catalog existing IT systems, supply chain assets, or distribution networks, rating each for scalability. This prevents mismatches, such as discovering that the enterprise resource planning (ERP) system cannot handle multi- currency bookkeeping or that existing warehouse infrastructure is insufficient for the new market's demands.

The firm's expansion team should conduct a cultural compatibility check, exploring differences in managerial style, communication norms, and consumer preferences. Tools like the Hofstede Cultural Dimensions or the "cultural synergy matrix" can highlight potential friction points. Where gaps appear significant, targeted training or local partnerships may mitigate misunderstandings. In some instances, partial adaptation of corporate processes to local norms fosters better stakeholder relations.

Management can develop an internal diagnostic scale — optionally using GIRA-like scoring — for each corporate function, examining readiness across:

- Governance and compliance: Maturity of internal controls, capacity for multi-jurisdictional oversight.
- Marketing and localization: Experience with cross-cultural branding, existing channels for foreign consumer insights.
- Supply chain management: Ability to source internationally or adapt to new logistics.
- Knowledge transfer: Mechanisms for sharing best practices and lessons learned across geographies.

Such a "global readiness index" can be combined with the external COMPASS findings, ensuring alignment between external opportunities and internal capabilities.

2.5. Stress Test

Markets shift unpredictably, driven by political upheavals, economic swings, and strategic realignments. Stress testing COM-PASS scores or results is critical to ensure its reliability for international market selection under such volatility. This process probes resilience, stability, and the preservation of high-potential markets, equipping decision-makers with a rigorous method to master uncertainty. It synthesizes risk management and strategic analysis, yielding precise insights through a streamlined procedure.

The purpose of stress testing is to validate three critical dimensions:

- Reliability: Confirm the COMPASS score's fidelity in reflecting market viability across shifting conditions.
- Stability: Prevent minor input fluctuations from distorting market classifications.
- Opportunity Preservation: Shield markets with robust growth prospects EPI above 80 and GIRA between 40 and 70-from dismissal due to transient challenges.

This reveals:

- Resilience: Can the market endure adverse shifts?
- Upside: Will it thrive under improved conditions?
- Sensitivity: Does the framework overreact to small changes?
- Strategic Value: Does long-term potential merit consideration despite immediate risks?

The theoretical foundation rests on:

- Scenario Analysis: Tests plausible conditions by adjusting GIRA, EPI, and SIAS across four scenarios:
 - Optimistic: Enhanced stability (e.g., GIRA +10).
 - $\circ\,$ Pessimistic: Decline (e.g., GIRA –10).
 - $\circ~$ Mixed: Balanced shifts (e.g., EPI +5, GIRA +2, SIAS –5).
 - $\circ\,$ Correlated: Linked changes (e.g., GIRA –10, SIAS –5).
- Sensitivity Testing: Probes GIRA's influence (0.5 weighting) with ±5 adjustments to detect undue score volatility.
- Override Rule: Anchored in real options theory, which views investments as flexible choices to defer, expand, or abandon

under uncertainty, this rule preserves markets like Uzbekistan as strategic options by flagging those with exceptional potential (EPI > 85, SIAS > 65, GIRA \geq 40, calibrated to balance potential and risk) for deeper review.

The stress test procedure is a three-step process, executed manually with a calculator using GIRA, EPI, and SIAS scores:

1. Scenario-Based Testing:

- Recalculate COMPASS across the four scenarios (optimistic, pessimistic, mixed and correlated).
- \circ Scores ≥ 50 signal resilience; scores <50 flag vulnerabilities.
- 2. Sensitivity Check:
 - Adjust GIRA by ±5; COMPASS shifts <5 points indicate stability, larger shifts demand caution.
- 3. Override Rule:
 - \circ For scores <50, if EPI > 85, SIAS > 65, GIRA ≥ 40, initiate due diligence (e.g., legal reviews, partner scans).

Results shape strategic decisions:

- **Proceed with Confidence**: COMPASS ≥ 50 across scenarios with <5-point sensitivity supports immediate action. For stable markets (e.g., Germany: 62.6–74.1), launch feasibility studies or secure local partnerships to capitalize on infrastructure and regulatory clarity.
- **Take Closer Look**: COMPASS <50 but meeting override criteria (e.g., Uzbekistan: EPI 98.26) prompts targeted analysis. For Uzbekistan, pilot agricultural tech deployments to leverage its growth potential while mitigating GIRA risks (48.4) via local alliances.
- **Reject**: COMPASS <50 without override criteria (e.g., Myanmar: 36.4) advises redirecting resources, unless unique factors (e.g., exclusive contracts) apply.

Extrapolation hinges on market context. Uzbekistan's resilience (56.1 in correlated scenarios) suggests phased entry, prioritizing agricultural synergies. Germany's stability supports broader investment, but stress test sensitivity informs risk buffers. Iterative refinement — adjusting inputs as new data emerges — enhances precision, addressing data reliability concerns through triangulation and mitigating SIAS subjectivity via standardized benchmarks.

Stress testing fortifies COMPASS's rigor, blending scenario analysis, sensitivity testing, and real options logic to ensure reliability. It anticipates data limitations and subjective inputs, equipping decision-makers to seize high-potential markets with precision and foresight, transforming uncertainty into strategic advantage.

2.6. The Vital Role of Local Expertise in Global Expansion

Success in international markets hinges not only on robust strategic tools like the COMPASS framework but also on the practical execution that brings those strategies to life. Across the globe — from the mature economies of Western Europe to the fastevolving markets of Africa and Latin America — local consultants are indispensable. They bridge the gap between data-driven insights and on-the-ground realities, offering expertise in local laws, customs, and operational nuances that no algorithm alone can fully address. Without their guidance, even the most well-crafted expansion plan risks stumbling over unseen obstacles.

Take, for example, the dynamic markets of Central Asia and the Caucasus— places like Uzbekistan, Azerbaijan, or Kazakhstan — where regulatory systems can shift rapidly and business success often hinges on understanding intricate local dynamics. In such regions, seasoned local consultants can make the difference between a stalled venture and a thriving one, leveraging their knowledge to unlock opportunities and mitigate risks. This principle holds true worldwide: engaging experts who know the terrain is a cornerstone of effective expansion, wherever your ambitions take you.

2.7. Legal and financial due diligence

Legal due diligence extends beyond registering an entity. It includes:

1. Local regulatory review: Understanding sector-specific mandates — such as foreign ownership caps or required licenses.

2. Anti-corruption and bribery protocols: Ensuring compliance with laws such as the U.S. Foreign Corrupt Practices Act or the UK Bribery Act.

3. Partner and counterparty verification: Reviewing the track record, financial stability, and reputational standing of local distributors, suppliers, or joint venture partners. This may include checking blacklists or sanctioned-party databases.

Firms may also adapt GIRA's risk categories internally to assess prospective partners — those operating in a region with high GIRA volatility might pose additional compliance burdens or heightened reputational risks.

Selecting an entry mode (subsidiary, branch, joint venture, or partnership) affects risk distribution, control levels, and tax obligations. For instance, wholly owned subsidiaries grant maximum strategic autonomy but demand higher capital expenditure and more thorough local compliance. Joint ventures can offload some resource burdens while tapping into a partner's local knowledge but risk potential conflicts or alignment issues. Formalizing contracts with clear dispute resolution clauses — often favoring international arbitration — can reduce uncertainties if local courts lack predictability. IP protection is another cornerstone, including trademarks, patents, or technology transfer agreements, especially in countries with inconsistent enforcement.

Basic capital budgeting methods (NPV, IRR) remain essential for evaluating foreign investment returns. However, expansions also require scenario-based modeling, factoring in:

- Currency fluctuation: Potential exchange rate swings reduce or inflate repatriated profits.
- Demand volatility: Conservative vs. optimistic revenue streams.
- Regulatory shifts: Sudden introduction of tariffs or taxes.

• Political events: Policy changes from new governments or external conflicts.

Stress tests might simulate how IRR changes if the local currency depreciates by 20% or if operational costs rise 10% due to new tariffs. Coupling these financial outcomes with GIRA's risk dimension yields a clearer sense of whether projected returns justify inherent market uncertainties. If stress tests show that certain factors (e.g., a 15% inflation spike) push returns below the firm's cost of capital, executives can reconsider the entry or adopt mitigating actions like currency hedges.

2.8. ESG and ethical practices integration

Global expansion increasingly requires attention to Environmental, Social, and Governance (ESG) criteria, reflecting stakeholder expectations for responsible conduct.

Firms can conduct an ESG baseline study to identify potential environmental impacts — resource consumption, carbon emissions, waste generation — as well as social effects like labor rights, community engagement, or supply-chain transparency. This may feed into SIAS if environmental stewardship or social license to operate are considered strategic imperatives. Alternatively, companies can embed additional ESG weighting into GIRA or EPI, capturing climate vulnerability or the country's regulatory approach to emissions.

Some host nations have advanced green regulations or strong social welfare norms, while others lag behind. Companies should adapt universal ESG commitments to local conditions, for instance:

- Launching community development initiatives that address specific social gaps in education or healthcare.
- Prioritizing renewable power sources if the grid allows, or investing in offset programs if local capacity is limited.
- Collaborating with local NGOs or government agencies to ensure inclusive economic benefits.

In a scenario where the multinational has strict green objectives, the presence (or absence) of renewable energy infrastructure could significantly affect SIAS weighting. Similarly, robust local labor laws might be advantageous for a firm that positions itself as an ethical employer, whereas minimal labor protections may require the company to implement stricter internal policies to meet corporate standards. Empirical studies show that integrating ESG in new operations strengthens brand reputation and can yield better long-term performance.

2.9. Regional and sectoral specificity

No single methodology can capture the vast heterogeneity of global markets. Regional and sectoral adaptation is critical to customizing the approach.

1. Resource vs. tech markets: Commodities-focused firms often emphasize political stability and local partnership structures (due to resource nationalism risks), while IT startups highlight digital infrastructure and IP protection. GIRA may be weighted more heavily for resource industries vulnerable to expropriation, whereas SIAS might be central for specialized IT ventures seeking synergy with local tech clusters.

2. Regional variations:

- $\circ\;$ Europe: Generally stable GIRA but can have strong regulatory complexity.
- Asia: Rapid growth potential (high EPI) in certain markets but widely varying political risk scores.
- Africa: Some states have strong resource endowments, while others face moderate GIRA or underdeveloped in-frastructure.
- Latin America: High potential in consumer markets with periodic macro instability.

3. Cross-border factors: Sanctions, trade wars, or membership in economic blocs (e.g., EU, ASEAN, Mercosur) can drastically alter risk/benefit calculations. The firm should reflect these elements in GIRA's political category and SIAS's regulatory alignment dimension [7].

3. EMPIRICAL VALIDATION AND CASE APPLICATIONS

While comprehensive field studies may exceed the scope of this text, a practical application using real market data can demonstrate how this methodology performs in real-world decision-making.

Researchers or decision-makers could choose a diverse sample:

- A stable developed market (e.g., Canada or Germany) with high GIRA but lower EPI.
- A high-potential emerging market (e.g., Vietnam or Kenya) with moderate GIRA and strong EPI.
- A frontier market with low GIRA yet robust natural resources.

Gathering data from and applying COMPASS across these varied contexts ensures that the methodology can handle different political structures, levels of economic diversification, and governance qualities.

To further validate across sectors, hypothetical expansions might include:

1. A manufacturing firm seeking low-cost production in an emerging market.

2. An IT startup aiming to tap a rising consumer class.

3. A retail chain exploring direct-to-consumer opportunities abroad.

Each scenario would produce distinct SIAS factors, weighting brand synergy or local consumer preferences more heavily for the retail scenario, while a manufacturing firm might emphasize infrastructure and labor availability.

This chapter applies the COMPASS framework to a case study of a French AgTech AI startup, illustrating its ability to guide strategic expansion decisions with precision, particularly for identifying high-potential markets — developing economies with strong EPI and moderate GIRA. The case study uses real market data for four markets — United States, Germany, Uzbekistan, and Myanmar — and is based on a composite of various companies the author has worked with, grounded in real-world experience but not representing any single company with its specific features, ensuring actionable insights grounded in practical realities.

3.1. Purpose of Case Application

This case study validates COMPASS by demonstrating its capacity to rank diverse markets — from stable, mature economies to high-potential developing nations — using real data under real-world constraints. It underscores the framework's superiority over less rigorous methods (e.g., PESTEL, executive intuition), delivering granular, data-driven decisions.

3.2. Case Study: AgTech AI Startup Expansion

A framework's utility is measured not by its elegance in theory, but by its capacity to clarify real decisions. To that end, this section applies the COMPASS methodology to a representative scenario: an AgTech AI startup, founded in France and specializing in AI technology for agriculture (primarily greenhouse), must determine the optimal market for its next phase of international expansion. The exercise is not hypothetical; it is a demonstration of how structured analysis disciplines judgment when capital, time, and reputation are at stake.

3.2.1. Company Profile and Strategic Context

The company in question has stabilized domestic operations and now seeks to expand abroad. Its core technology — AI-driven drones that optimize plant growth— has demonstrated yield increases of up to 75%. The leadership's task is to select among four candidate markets: the United States, Germany (as a re-entry or expansion), Uzbekistan, and Myanmar. The objective is clear: identify the jurisdiction that offers the most rational balance of present-day stability, long-term growth potential, and strategic fit.

3.2.2. Methodological Approach

The COMPASS framework, as detailed in prior sections, integrates three dimensions: Global Instability Risk Algorithm (GIRA), Emerging Potential Index (EPI), and Strategic Interest Alignment Score (SIAS). Each is calculated using standardized procedures and institutional data, with weights reflecting their relative importance to market selection. The composite COMPASS score provides a single, actionable metric for ranking candidate countries.

3.2.3. GIRA: Present-Day Stability Assessment

GIRA quantifies current risk across eight categories: Political (25%), Economic (20%), Social (20%), Security (15%), Environmental (5%), Information (5%), Technological (5%), and Demographic (5%). Data is sourced from the World Bank, Transparency International, and comparable indices. For this case, the following GIRA scores were derived:

- Germany: 76.1
- USA: 65.8
- Uzbekistan: 48.4
- Myanmar: 33.7

Germany sets the benchmark for stability, with the USA trailing but still within the "stable" band. Uzbekistan's moderate score signals the need for risk mitigation, while Myanmar's low score places it firmly in the "high-risk" category, typically advising against entry.

3.2.4. EPI: Long-Term Growth Potential

EPI measures structural potential using four factors: Natural Resource Wealth (30%), Population Scale (30%), Strategic Geographic Position (20%), and Innovation & Entrepreneurship (20%), adjusted for current development. The resulting EPI scores:

- USA: 99.22
- Uzbekistan: 98.26
- Myanmar: 66.36
- Germany: 58.44

The USA and Uzbekistan both exhibit strong latent potential, albeit for different reasons — innovation in the USA, resource and demographic factors in Uzbekistan. Germany's lower EPI reflects a mature, less "catch-up" oriented market. Myanmar's EPI, while higher than Germany's, is offset by its instability.

3.2.5. SIAS: Strategic Interest Alignment

For this company, four priorities were identified: Technological Infrastructure (30%), Agricultural Sector Development (30%), Regulatory Environment (20%), and Workforce Skills (20%). Each market was scored using sectoral indices and internal benchmarks:

- USA: 69.6
- Germany: 64.5
- Uzbekistan: 62.6
- Myanmar: 20.9

The USA offers the strongest alignment with the company's operational and technological requirements. Uzbekistan's SIAS, while lower, is competitive — driven by agricultural sector potential and cost advantages. Myanmar's low SIAS reflects both regulatory and workforce constraints.

3.2.6. COMPASS Composite Score and Interpretation

The final COMPASS score is calculated as follows: 50% GIRA, 30% SIAS, 20% EPI. Results are shown in Table 2.

Table 2

Market	GIRA	EPI	SIAS	COM- PASS	Interpretation
USA	65.8	99.22	69.6	73.6	High viability (≥ 70), im-
					mediate expansion viable
Germa-	76.1	58.44	64.5	69.1	Viable (50-74), phased en-
ny					try recommended
Uzbeki-	48.4	98.26	62.6	62.6	Viable (50-74), phased en-
stan					try recommended
Myan-	33.7	66.36	20.9	36.4	High risk (<50), avoid un-
mar					less exceptional factors

COMPASS Scores for Candidate Markets

COMPASS scores above 70 indicate high viability and suitability for immediate or full-scale expansion. Scores between 50 and 70 suggest moderate suitability, warranting phased entry or pilot projects. Scores below 50 signal high instability or poor fit, generally advising against entry.

3.2.7. Strategic Implications and Decision Guidance

The comparative application of the COMPASS framework to Germany, the United States, Uzbekistan, and Myanmar yields a result that is both expected and, on closer inspection, quietly provocative. The aggregate COMPASS scores for the United States and Germany confirm what is universally recognized: these are the world's titans — markets defined by institutional strength, legal predictability, and the capacity for scale. In this sense, the COMPASS score does not reinvent the wheel; it affirms the obvious. Yet the true value of COMPASS is not in confirming the status of established leaders, but in illuminating the proximity of less conventional markets. Uzbekistan, for example, emerges with a composite score that is not dramatically distant from Germany's. This is not a trivial finding. When a market with a lower global profile approaches the COMPASS score of a G7 economy, it demands a closer look — not because the score alone overturns established wisdom, but because it signals that the underlying drivers merit scrutiny.

It is essential to clarify what the COMPASS score does and does not say. The score is not a substitute for judgment, nor does it erase qualitative differences between markets. It is a composite, integrating present risk, long-term potential, and strategic fit. For the U.S. and Germany, the high score is a function of institutional maturity-government effectiveness, rule of law, corruption control, and technological infrastructure. These strengths, however, come with structural costs: high taxes, expensive labor, and regulatory complexity, all of which are reflected in the cost of entry and ongoing operations. The COMPASS score, therefore, is not a simple endorsement; it is a balanced measure that weighs these strengths against persistent barriers to new entrants. Uzbekistan, by contrast, does not compete on institutional maturity. Its scores for government effectiveness, rule of law, and corruption are plainly lower, and no serious analysis would equate its institutional environment with that of Germany or the United States. However, the data reveal that Uzbekistan's Emerging Potential Index is robust, driven by strong GDP growth, favorable demographics, resource endowment, and a rising Human Development Score. The cost structure is fundamentally different: taxes are lighter, regulatory barriers are lower, and operational expenses are a fraction of those in the West. The result is that, when all factors are weighed, Uzbekistan's COMPASS score approaches that of Germany — not because it is "as good" in every respect, but because its weaknesses are offset by strengths that matter for certain strategies, especially for firms seeking capital efficiency, speed, and early proof of concept.

This is not to suggest that Uzbekistan is the new Germany at least for now. No rational actor would claim that success in Uzbekistan is identical in value or risk to success in Germany or the United States. The COMPASS score does not erase the qualitative differences between markets. What it does — uniquely and decisively — is force a re-examination of assumptions. It compels management to look past headline rankings and interrogate the drivers of opportunity and risk. The logic for startups is clear: lower cost of entry, faster time to market, and a forgiving environment for experimentation. But to suggest that this logic is exclusive to startups is to ignore the realities of global business cycles and the strategic imperatives of larger enterprises. For mid-sized and Fortune 500 companies, the argument is, if anything, more compelling. First, diversification is not a luxury but a necessity. When home markets stagnate, face regulatory headwinds, or experience liquidity crises, the ability to pivot or supplement revenue streams in high-growth, lower-cost markets is not merely prudent — it is existential. The premise that large firms should only target established markets is refuted by history: the most resilient multinationals are those that have built portfolios spanning both mature and emerging economies, thereby hedging against regional shocks and capturing upside where barriers to entry are low and demand is unsatisfied.

Second, the scale and flexibility of large enterprises allow them to exploit inefficiencies and first-mover advantages in markets like Uzbekistan in ways that smaller firms cannot. Consider the automotive sector: when a dominant player's product offering becomes stale or monopolistic, pent-up consumer demand creates a vacuum. The rapid adoption of new entrants — such as the surge in demand for alternative car brands in Uzbekistan — demonstrates that even in markets with perceived risk, the appetite for innovation and choice is real, and the rewards for those who act decisively are outsized. To ignore such opportunities on the grounds of institutional conservatism is not caution; it is strategic myopia.

Third, the liquidity argument is unassailable. In times of global credit tightening or domestic downturn, the ability to generate cash flow from operations in lower-cost, high-growth markets can be the difference between retrenchment and resilience. For a Fortune 500 company facing margin compression at home, a well-executed expansion into Uzbekistan is not a distraction — it is a rational, risk-adjusted response to macroeconomic reality. The alternative — doubling down on saturated, high-cost markets while ignoring accessible growth — is not just suboptimal; it is indefensible.

The case study's lesson is not that Uzbekistan is destined to supplant Germany or the United States, but that a comprehensive, multi-factor analysis can reveal strategic options that would be invisible to those who rely on reputation or aggregate rankings alone. COMPASS does not just rank countries — it equips decisionmakers, from startups to global giants, with the full context needed to craft a strategy that is both ambitious and grounded in reality. In a world where market conditions can change overnight, the ability to see — and act on — such opportunities is not just an advantage; it is a necessity. To argue otherwise is to ignore both the data and the logic of global competition.

3.3. Stress Testing the COMPASS Framework

The COMPASS framework evaluates markets for international expansion through three components: **GIRA** (Global Instability Risk Algorithm, assessing current stability), **EPI** (Emerging Potential Index, measuring future growth potential), and **SIAS** (Strategic Interest Alignment Score, gauging firm-specific fit). Each score ranges from 1 to 100, with higher values denoting superior conditions — greater stability (GIRA), stronger growth prospects (EPI), or closer strategic alignment (SIAS).

The COMPASS score is calculated as:

$\textbf{COMPASS} = (0.5 \times \text{GIRA}) + (0.2 \times \text{EPI}) + (0.3 \times \text{SIAS})$

(EPI values above 100 are capped at 100 before applying the weight; the composite never needs capping as its maximum is 100)

- \geq **75**: Prime market, suitable for immediate expansion.
- **50–74**: Viable market, warrants phased entry or pilot projects.
- **<50**: High-risk market, generally avoid unless exceptional factors apply.

To ensure COMPASS holds under pressure, every market must be stress-tested. This chapter outlines a stress test to ensure COMPASS remains robust under volatile conditions, particularly for identifying *high-potential markets* — developing economies with strong EPI (e.g., >80) and moderate GIRA (40–70). Every market must undergo this test. We use Germany (GIRA = 76.1, EPI = 58.44, SIAS = 64.5) and Uzbekistan (GIRA = 48.4, EPI = 98.26, SIAS = 62.6) from the Chapter 2.5 case study as examples to illustrate the process. Calculations appear in Table 1, with arrows indicating score changes. The test employs precise scenarios, a decision tree, and an override rule to safeguard hidden gems like Uzbekistan.

3.3.1. Purpose of Stress Testing

Market conditions — political stability, economic trends, strategic alignment— fluctuate. COMPASS provides a snapshot, but stress testing confirms its reliability by simulating shifts in GIRA, EPI, and SIAS. This ensures decisions withstand uncertainty, especially for high-potential markets. The test pursues three objectives:

1. Reliability: Validate COMPASS's accuracy amid changing risks or opportunities.

2. Stability: Prevent minor shifts from misclassifying viable markets.

3. Opportunity Preservation: Protect high-EPI markets from rejection due to moderate risks or strategic challenges.

The test reveals:

- **Resilience**: Does the market remain viable under increased risks?
- Upside: Could it excel if conditions improve?
- Sensitivity: Is it fragile to small shifts?
- Strategic Value: Is its potential too significant to dismiss?

3.3.2. Stress Test

The stress test comprises three steps, designed for manual execution with a calculator and the market's GIRA, EPI, and SIAS scores. Every market undergoes all steps in sequence. Germany and Uzbekistan serve as examples, but you must apply this process to your chosen market. Each step specifies actions, interpretations, and decision points, with results in Table 1.

Step 1: Scenario-Based Testing

This step evaluates COMPASS's response to plausible market shifts, ensuring viability under stress. Four scenarios — optimistic, pessimistic, mixed, and correlated — simulate improvements, deteriorations, or interdependent effects (e.g., political unrest impacting stability and alignment).

Procedure:

- Use your market's GIRA, EPI, and SIAS scores. Examples: • Germany: GIRA = 76.1, EPI = 58.44, SIAS = 64.5.
 - $\circ\,$ Uzbekistan: GIRA = 48.4, EPI = 98.26, SIAS = 62.6.
- Apply these changes and recalculate COMPASS:
 - **Optimistic**: GIRA +10. *Simulates enhanced stability* (e.g., policy reforms).
 - **Pessimistic**: GIRA–10. *Simulates a crisis (e.g., economic downturn)*.
 - **Mixed**: EPI +5, GIRA +2, SIAS –5. Simulates growth surge boosting stability, with strategic dip.
 - **Correlated**: GIRA –10, SIAS –5. Simulates political turmoil impacting stability and alignment.

Results (Table 3):

- Germany:
 - Original: COMPASS = 69.1 (viable).
 - Optimistic: COMPASS = 74.1 \uparrow (+5), nearing prime.
 - Pessimistic: COMPASS = $64.1 \downarrow (-5)$, viable.
 - Mixed: COMPASS = 69.6 \uparrow (+0.5), viable.
 - Correlated: COMPASS = $62.6 \downarrow (-6.5)$, viable.
- Uzbekistan:
 - Original: COMPASS = 62.6 (viable).
 - Optimistic: COMPASS = 67.6 \uparrow (+5), strengthened.
 - Pessimistic: COMPASS = 57.6 \downarrow (-5), viable.
 - Mixed: COMPASS = $62.6 \rightarrow (\pm 0)$, stable.
 - Correlated: COMPASS = 56.1 \downarrow (-6.5), viable.

Interpretation:

- **Optimistic**: Higher stability boosts scores, signaling upside (e.g., Germany nears 75, Uzbekistan gains).
- **Pessimistic**: Markets stay viable above 50, showing resilience (e.g., Uzbekistan's EPI 98.26 sustains it).
- **Mixed**: Growth-driven stability offsets strategic dips, maintaining or slightly improving viability.
- **Correlated**: Dual shocks reduce scores but keep markets viable, confirming robustness.

Decision:

- If COMPASS remains ≥ 50 across scenarios, proceed to Step 2.
- If COMPASS falls <50, advance to Step 2 and check the Override Rule in Step 3.
- Stop if COMPASS \geq 75 in all scenarios (rare).

Step 2: Sensitivity Check

This step tests COMPASS's stability against small risk changes, ensuring minor shifts don't misclassify high-potential markets.

Procedure:

- Use your market's scores. Examples: Germany, Uzbekistan (as above).
- Adjust GIRA by ±5, keeping EPI and SIAS constant.
- Recalculate COMPASS.

Results (Table 3):

- Germany:
 - \circ Original: COMPASS = 69.1.
 - Lower GIRA: COMPASS = 66.6 ↓ (–2.5), viable.
 - Higher GIRA: COMPASS = $71.6 \uparrow (+2.5)$, viable.
- Uzbekistan:
 - Original: COMPASS = 62.6.
 - Lower GIRA: COMPASS = 60.1 ↓ (-2.5), viable.
 - Higher GIRA: COMPASS = 65.1 ↑ (+2.5), viable.

Interpretation:

- **Lower GIRA**: Slight risk increases (e.g., regulatory tightening) keep markets viable, with Uzbekistan's EPI (98.26) providing a buffer.
- **Higher GIRA**: Risk reductions enhance appeal, especially for hidden gems like Uzbekistan.

Decision:

- If COMPASS stays \geq 50, proceed to Step 3.
- If COMPASS drops <50, advance to Step 3.
- Note sensitivity >5 points for cautious planning.

Step 3: Override Rule

This step prevents premature rejection of high-potential markets with moderate risks or strategic fit, ensuring hidden gems like Uzbekistan are preserved.

Procedure:

- If COMPASS <50 in any scenario, check EPI, SIAS, and GIRA.
- If **EPI** > 85, **SIAS** > 65, **GIRA** ≥ 40, mark for closer review. Run a focused due-diligence module: local legal analysis, foreign exchange stress test, partner scan (see Chapter 2.7).
- Otherwise, reject unless unique factors apply.

Example:

Uzbekistan: GIRA = 48.4, EPI = 98.26, SIAS = $62.6 \rightarrow \text{COM-PASS} = 62.6$.

Pessimistic: GIRA = $38.4 \rightarrow \text{COMPASS} = 57.6$ (viable). If COMPASS were 48, EPI = 98.26, SIAS = 62.6, GIRA = 48.4 do not trigger override (SIAS < 65) \rightarrow reject unless SIAS improves or other factors apply.

Interpretation: High EPI and moderate SIAS/GIRA signal a hidden gem worth exploring if SIAS exceeds 65.

3.3.3. Decision Guidance

Use Figure 3 to decide.

```
Is COMPASS ≥50 in all scenarios?

    Yes → Proceed with confidence (plan expansion,
see Chapter 2.7).

    No → Is EPI >85, SIAS >65, GIRA ≥40?

    Yes → Take closer look (due diligence,

    pilot).

    No → Reject market, unless unique fac-

    tors apply.
```

Figure 3. COMPASS Stress Test Decision Tree

- **Proceed with Confidence**: COMPASS ≥ 50 across scenarios, <5-point sensitivity (e.g., Germany: 62.6–74.1, Uzbekistan: 56.1–67.6).
- Take Closer Look: COMPASS <50 but EPI >85, SIAS >65, GIRA ≥ 40, or borderline (48–52). For example, Uzbekistan (EPI 98.26, SIAS 62.6, GIRA 48.4) would trigger review if SIAS exceeded 65 or COMPASS were borderline.
- **Reject**: COMPASS <50, no override (e.g., Uzbekistan with SIAS 62.6 if COMPASS <48).

Stop: If COMPASS \geq 75 in all scenarios, proceed immediately. **Move On:** Plan expansion if viable; otherwise, evaluate an-

Move On: Plan expansion if viable; otherwise, evaluate another market.

3.4. Historical Case Studies: Lessons from Failed Expansions

The AgTech startup case (Section 3.2) and stress test (Section 3.3) establish the COMPASS framework's ability to evaluate markets with precision, identifying viable opportunities through

Table 3

Mar- ket	Scenario	GIRA	EPI †	SIAS	COM- PASS	Change
	Original	76.1	58.44	64.5	69.1	-
	Optimistic	86.1 (+10)	58.44	64.5	74.1 ↑	+5
	Pessimistic	66.1 (-10)	58.44	64.5	$64.1 \downarrow$	-5
Germany	Mixed	78.1 (+2)	63.44 (+5)	59.5 (-5)	69.6 ↑	+0.5
rm	Correlated	66.1 (-10)	58.44	59.5 (-5)	62.6↓	-6.5
Ge	Sensitivity: Lower GIRA	71.1 (-5)	58.44	64.5	66.6↓	-2.5
	Sensitivity: Higher GIRA	81.1 (+5)	58.44	64.5	71.6 ↑	+2.5
	Original	48.4	98.26	62.6	62.6	-
	Optimistic	58.4 (+10)	98.26	62.6	67.6 ↑	+5
L L	Pessimistic	38.4 (-10)	98.26	62.6	57.6↓	-5
tar	Mixed	50.4 (+2)	100 (+5)	57.6 (-5)	$62.6 \Rightarrow$	±0
kis	Correlated	38.4 (-10)	98.26	57.6 (-5)	56.1↓	-6.5
Uzbekistan	Sensitivity: Lower GIRA	43.4 (-5)	98.26	62.6	60.1↓	-2.5
	Sensitivity: Higher GIRA	53.4 (+5)	98.26	62.6	65.1 ↑	+2.5

Stress Test Calculations

 \dagger EPI values above 100 are capped at 100

Note: COMPASS values rounded to one decimal; '±0' means net change ≤ 0.1

structured analysis of stability, potential, and strategic fit. The historical failures of Walmart in Germany (1997–2006), Target in Canada (2013–2015), and Best Buy in China (2006–2011), with combined losses exceeding at least \$6 billion, further validate the necessity of such a framework. These cases — marked by cultural misalignment, regulatory constraints, supply chain failures, and competitive barriers — demonstrate the risks of relying on superficial stability without assessing strategic alignment, a deficiency COMPASS addresses. By analyzing these failures, this section confirms COMPASS's effectiveness in preventing costly missteps, complementing its demonstrated utility in market selection.

Walmart's \$1 billion loss in Germany arose from cultural misalignment (German aversion to large-format stores and Americanized service), regulatory bans on below- cost pricing, and competition from Aldi and Lidl. Target's \$7 billion Canadian failure stemmed from supply chain inefficiencies (stockouts, overstocking), pricing misaligned with expectations (22% higher than U.S., per World Bank's 2011 Comparative Price-Level Index), and rivals like Loblaw and Walmart Canada. Best Buy's \$318 million China exit was driven by Gome and Suning's pricing agility, cultural aversion to fixed-price retail (Hofstede Power Distance: 80 for China vs. 40 for U.S.), and a grey-market undermining demand. Had COMPASS been applied, Walmart's Germany entry (GIRA 88, SIAS ~30, EPI 60) would have scored 59.4—barely viable and warranting caution, not aggressive rollout. Target's Canada bid (GIRA 90, SIAS ~28, EPI 65) scored 62.9, signaling a strategic pause rather than a 133-store launch. Best Buy's China venture (GIRA ~68, EPI >80, SIAS ~35) fell below 50, urging rejection or a joint venture. Competitive intensity approximations, such as CR4 >40% for Germany and >60% for Canada, are based on factual data from market concentration trends, reflecting the dominance of firms like Aldi/Lidl and Loblaw/Sobeys, though precise historical figures are unavailable due to limited public data. China's high CR4 for electronics retail is similarly approximated from Gome and Suning's leadership, and the grey-market's ~15% impact is derived from counterfeit prevalence analyses, though exact figures are not documented.

COMPASS's precision lies in unifying risks that intuition or partial analyses (e.g., PESTEL) overlook. By requiring a minimum 50-point threshold for viability, COMPASS ensures strategic fit balances stability and potential, averting billions in losses where less rigorous approaches failed. These cases underscore the framework's capacity to identify misalignments, guiding decision-makers toward strategies that align with market realities and firm objectives.

3.5. Conclusion

The COMPASS framework, validated through the AgTech startup case (Section 3.2), stress testing (Section 3.3), and historical analyses (Section 3.4), provides a structured methodology for international market selection that surpasses qualitative and incremental alternatives. By integrating stability (GIRA), potential (EPI), and strategic fit (SIAS) into precise metrics, it outperforms the broad scope of PESTEL, the rigid gradualism of Uppsala, the static focus of OLI, and the subjectivity of intuition. Historical failures — Walmart's \$1 billion loss in Germany, Target's \$7 billion debacle in Canada, and Best Buy's \$318 million exit from China demonstrate COMPASS's necessity, as it would have flagged these markets as high-risk or required strategic reevaluation, preventing substantial losses and aligning with fiduciary duties to protect shareholder value through disciplined capital allocation.

The stress test enhances this validation by simulating macroeconomic shocks — such as currency fluctuations or inflation spikes — ensuring financial projections remain robust under volatility, a critical feature for markets with high potential but moderate stability. Data availability, a challenge in frontier markets, is effectively addressed by the GIRA Criteria (Appendix A) and EPI Criteria (Appendix B), which provide qualitative scoring rubrics, complemented by triangulation and scenario testing. These tools enable reliable assessments where traditional frameworks falter, ensuring COMPASS complements executive judgment with a data-driven foundation while allowing strategic flexibility.

COMPASS's merits include its precision in quantifying complex market dynamics, as seen in the AgTech case's nuanced rankings, and its adaptability to volatile conditions, demonstrated by stress test resilience. Its benefits encompass enhanced ROI through risk mitigation, as evidenced by avoiding \$8 billion in historical losses, and the identification of high-potential markets overlooked by less adaptive models. Limitations, such as reliance on data quality and potential implementation complexity, are acknowledged, but the framework's rubrics and stress testing minimize these constraints, ensuring broad applicability. By requiring a minimum 50-point threshold for viability, COMPASS ensures strategic alignment balances stability and potential, safeguarding capital and reputation.

A hypothetical comparison with traditional methods — PES-TEL's qualitative breadth, Uppsala's incremental stages, OLI's static advantages, or intuition's subjectivity — reveals COMPASS's superiority in systematically identifying risk sub- categories (e.g., regulatory barriers, cultural misalignment) and opportunities (e.g., emerging market potential). Quantitative benchmarks, such as reduced compliance failures, improved ROI, and enhanced shareholder returns, as evidenced by preventing historical losses, underscore its efficacy. COMPASS thus equips decision-makers with a competitive edge, aligning financial prudence with strategic ambition in the global marketplace.

4. RESULTS AND DISCUSSION

By integrating present risk, future potential, and companyspecific alignment, the COMPASS methodology fills a critical gap in international business literature. The COMPASS framework integrates three components to evaluate international markets:

- **GIRA** assesses current stability across eight categories (e.g., political, economic), each weighted, resulting in a score from 1 to 100.
- **EPI** measures long-term potential using structural factors, and scales it upward by a development-adjustment factor. This linear transformation reflects the logic that countries with lower development levels retain more unrealized potential, whereas higher-developed nations offer more limited upside.
- **SIAS** evaluates strategic alignment with firm-specific criteria, weighted by the company, also scored from 1 to 100.

The final COMPASS score-50% GIRA, 30% SIAS, and 20% EPI — provides a comprehensive metric for market selection. This structured approach supports systematic and data-driven expansion planning.

In rapidly shifting environments — where sanctions, political crises, or emerging technologies can quickly alter risk profiles — GIRA's multi-factor approach is particularly valuable. Nonetheless, certain limitations remain:

1. Data quality: In markets with unreliable or outdated statistics, GIRA inputs may be incomplete. The GIRA Criteria (Appendix A) counteract this limitation by providing structured qualitative benchmarks for each factor, enabling evaluators to assign scores even when data is sparse. For instance, in frontier markets like Uzbekistan, descriptors for corruption levels (e.g., "bribery required for all public services" for 1–9) guide consistent assessments, reducing dependence on external datasets.

2. Subjectivity in SIAS: While beneficial for strategic customizations, SIAS depends on managerial judgments that can be skewed if not anchored in robust internal analysis. Nonetheless, the subjectivity in SIAS is there by design, helping internal biases for or against something to manifest in scoring to help the companies make the right choice for <u>them</u> — no matter how objectively right or wrong international expansion may be for this company.

3. Need for ongoing updates: Political landscapes and economic indicators evolve. A single snapshot can rapidly become obsolete, calling for repeated re- assessments.

4. Sectoral idiosyncrasies: The broad weighting scheme might need recalibration for certain specialized industries (e.g., high-tech or highly regulated sectors).

The methodology synthesizes classical internationalization theories (Uppsala, OLI) with structured risk algorithms (GIRA) and future-oriented indices (EPI), bridging empirical methods and managerial heuristics. This approach advances research on integrative frameworks in international management, demonstrating how macro-level risk indices can fuse with micro-level corporate priorities. It also broadens the literature on ESG integration, illustrating how sustainability considerations can be mainstreamed into expansion decisions.

Practical recommendations:

1. Incorporate GIRA/EPI/SIAS metrics into existing corporate dashboards or KPI systems, ensuring that cross-functional teams (strategy, finance, compliance) regularly monitor fluctuations in target countries.

2. Develop internal checklists: Consolidate legal, financial, and ESG due diligence items in line with the methodology, ensuring no aspect of risk or alignment remains overlooked.

3. Institutionalize ongoing monitoring: Companies that commit to a cyclical update of GIRA/EPI data (quarterly or semi-annually) can adapt more swiftly to external shocks.

4. Pilot testing: Before full-scale market entry, use local pilot projects or "soft launches" to validate SIAS assumptions on cultural and operational fit.

Future research directions:

1. Expanding GIRA criteria: Incorporate cyber-risk or advanced geostrategic metrics to address emerging global threats (e.g., climate disruptions, hacking, supply- chain shocks).

2. Deep-dive into ESG-driven SIAS: Examine how weighting green or social criteria in SIAS affects expansion outcomes, possibly comparing "high-ESG focus" vs. "low-ESG focus" expansions.

3. Technology integration: Develop a real-time software platform that auto-updates GIRA, EPI, and SIAS using big data analytics, enabling near-instant COMPASS recalculations. This aligns with the growing push toward digital transformation in strategic planning.

CONCLUSION

This methodology offers a structured framework for assessing and executing international business expansion. By integrating present-day risk assessment through GIRA, future-oriented growth prospects via EPI, and company-specific priorities captured in the SIAS score, decision-makers can identify the most promising markets while balancing short-term stability and long-term opportunity. The approach's flexibility accommodates diverse industries, from resource-intensive sectors requiring heightened attention to political and security concerns to technology-driven enterprises focusing on innovation and human capital. Its success relies on accurate data, consistent re-evaluation of changing conditions, and a strong alignment between external environments and internal capabilities. In doing so, the methodology not only provides theoretical guidance but also offers a practical roadmap for firms that seek resilience, sustainability, and strategic coherence in their pursuit of global competitiveness.

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GIRA CRITERIA

Political Factors 1. Political Factors: Government Effectiveness

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Govern- ment is entirely dysfunc- tional.	 1-3: No functional public services; infrastructure collapse (e.g., no running water, total law-lessness). 4-6: Critical services operate sporadically (e.g., rare hospital access, minimal policing). 7-9: Basic governance exists but is highly unreliable; localized improvements may appear. 	E x a m p l e s : Haiti. Metrics: No national bud-
10-19	Severely inef- fective govern- ment.	 10–12: Rampant corruption and mismanagement; critical sectors (e.g., energy, health) largely non-functional. 13–15: Isolated reforms bring 	Venezuela un- der severe sanc- tions. M e t r i c s : Healthcare ac- cess <30%, ma-
20-29	Ineffi- cient gov- ernment with uneven function- ality.	 20-22: Chronic delays in service delivery; localized governance improves slightly. 23-26: Key sectors, such as education or transportation, show slow progress. 27-29: Reforms target infrastructure but face implementation challenges (e.g., corruption in bids). 	Examples: Ni- geria. Metrics: Infra- structure proj- ects <50% com- pletion rate.
30–39	Moder- ately in- efficient	30–33: Core services like education and healthcare are underfunded but operational.	Examples: India. Metrics: Public satisfaction

			anon of the table
	govern-		with basic ser-
	ment.	emerge (e.g., pilot programs in	vices ~40–50%.
		urban areas).	
		37–39: Positive public sentiment	
		increases as small successes ac-	
		cumulate.	
40-49	Govern-	40-42: Day-to-day operations sta-	Examples:
	ment	bilize, but emergencies (e.g., floods)	_
	functions	reveal systemic weaknesses.	Metrics: 50–
	with	43–46: Reforms see partial suc-	60% infrastruc-
	notable	cess but lack scalability.	ture completion
	ineffi-	47–49: Core sectors become more	rate; 60% emer-
	ciencies.	reliable; governance is uneven	
	cicileics.	but functional.	efficiency.
50 50	Mr. 1		
50-59	Mod-	50–52: Services are functional	. I
	erately	but regionally inconsistent.	South Africa.
	effective	53–56: Private sector involve-	Metrics: ~70%
	gover-	ment reduces gaps in delivery.	literacy rate,
	nance.	57–59: Governance shows prom-	functional nati-
		ise, responding effectively to pub-	onal budgets.
		lic demands.	
60-69	Effective	60–63: Urban areas excel, while	Examples:
	with oc-	rural areas lag behind.	Malasia.
	casional	64–66: Services reach a majority	Metrics: Pub-
	ineffi-	but lack innovation.	lic satisfaction
	ciencies.	67–69: Crisis response is swift;	~65-75%.
		bureaucracy slows non-emergen-	
		cy sectors.	
70-79	Gener-	70–73: Most services are equita-	Examples: Es-
	ally effec-	ble, with minor delays in large	-
	tive.	projects.	Metrics: ~80%
		74–76: Public-private partner-	
		ships lead to sustained improve-	80% timely ser-
		ments.	vice delivery.
		77–79: Public institutions per-	
		form well across sectors, with few	
		exceptions.	
		CACCPUIOIIS.	

80-89	Highly	80-83: Services meet interna-	Framplace
00-09			
	efficient	tional benchmarks; governance	Finland.
	gover-	is reliable.	Metrics: 90%
	nance.	84–86: Institutions innovate to	satisfaction
		address emerging challenges.	with public ser-
		87–89: Government anticipates	vices, 95% proj-
		and mitigates risks proactively.	ect completion
			rates.
90-100	World-	90–93: Seamless service delivery;	Examples:
	class gov-	crises are managed effortlessly.	Singapore.
	ernance.	94–96: Strategic foresight drives	Metrics: Uni-
		innovation; policies exceed public	versal access to
		expectations.	all public ser-
		97–100: Institutions set global	vices, >95% sat-
		standards, influencing peer na-	isfaction.
		tions.	

2. Political Factors: State Legitimacy

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1–9	Illegit-	1-3: Widespread violence against	Examples:
	imate	dissent; no elections held.	North Korea's
	govern-	4–6: Minimal governance; public	regime.
	ment.	rejection is near-total.	Metrics: <10%
		7–9: Governance functions but is	voter turnout,
		rejected by the majority due to	no civil society
		illegitimacy.	participation.
10-19	Minimal	10-12: Rampant corruption un-	Examples:
	legitima-	dermines governance; power re-	Venezuela.
	cy.	tained by force.	Metrics: Turn-
		13-15: Public protests are fre-	out <30%; low
		quent, targeting leadership.	trust in gover-
		16–19: Institutions exist but lack	nance (<20%).
		trust or credibility.	

20-29Weak legitima- cy.20-22: Elections are symbolic, lacking meaningful choice.E x a m p l e s : Russia.cy.23-26: Corruption dominates, but reforms begin in isolated areas. 27-29: Pockets of public trust emerge in local governance.Metrics: ~40% turnout; region- al trust only (~30%).30-39Mixed legitima- cy.30-33: Elections are held but marred by allegations of irregu- larities.E x a m p l e s : Turkey. Metrics: 40-34-36: Progress in transparency; trust grows regionally.50% turnout; public trust a7-39: Governance shows poten- tial but lacks national reach.50% turnout; public trust a40%.40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence. 43-46: Governance credibilityExamples: Ni- geria.
cy.23–26: Corruption dominates, but reforms begin in isolated areas. 27–29: Pockets of public trust emerge in local governance.Metrics: ~40% turnout; region- al trust only (~30%).30–39Mixed legitima- cy.30–33: Elections are held but marred by allegations of irregu- larities.E x a m p l e s : Turkey. Metrics: 40– 50% turnout; public trust arease.40–49Some le- gitimacy.40–42: Electoral reforms build moderate confidence. 43–46: Governance credibilityExamples: Ni- geria.
30-39Mixed legitima- cy.30-33: Elections are held but marred by allegations of irregu- larities.turnout; region- al trust only (~30%).30-39Mixed legitima- cy.30-33: Elections are held but marred by allegations of irregu- larities.E x a m p l e s : Turkey. Metrics: 40- 50% turnout; public trust ~40%.40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence. 43-46: Governance credibilityExamples: Ni- geria.
27-29: Pockets of public trust emerge in local governance.al trust only (~30%).30-39Mixed legitima- cy.30-33: Elections are held but marred by allegations of irregu- larities.E x a m p l e s : Turkey.34-36: Progress in transparency; trust grows regionally.Metrics: 40- 50% turnout; public trust40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence.Examples: Ni- geria.40-49Some le- gitimacy.40-42: Electoral credibilityMetrics: ~60%
30-39Mixed legitima- cy.30-33: Elections are held but marred by allegations of irregu- larities.E x a m p l e s : Turkey.34-36: Progress in transparency; trust grows regionally.50% turnout; public trust ~40%.40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence.Examples: Ni- geria.40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence.Examples: Ni- geria.
30–39 Mixed legitima- cy. 30–33: Elections are held but marred by allegations of irregu- larities. E x a m p l e s : Turkey. Metrics: 40– 50% turnout; public trust atil but lacks national reach. 40–49 Some le- gitimacy. 40–42: Electoral reforms build moderate confidence. 43–46: Governance credibility E x a m p l e s : Turkey. Metrics: 40– 50% turnout; public trust ~40%.
legitima- cy.marred by allegations of irregu- larities.Turkey.34-36: Progress in transparency; trust grows regionally.Metrics: 40- 50% turnout; public trust37-39: Governance shows poten- tial but lacks national reach.~40%.40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence.Examples: Ni- geria.40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence.Metrics: ~60%
cy.larities.Metrics: 40–34–36: Progress in transparency; trust grows regionally.50% turnout; public trust37–39: Governance shows poten- tial but lacks national reach.~40%.40–49Some le- gitimacy.40–42: Electoral reforms build moderate confidence.Examples: Ni- geria.40–49Some le- gitimacy.40–42: Electoral reforms build moderate confidence.Examples: Ni- geria.
34-36: Progress in transparency; trust grows regionally. 37-39: Governance shows poten- tial but lacks national reach.50% turnout; public trust ~40%.40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence. 43-46: Governance credibilityExamples: Ni- geria.
40-49Some le- gitimacy.40-42:Electoral reforms build governance credibilityExamples: Ni- geria.40-49Some le- gitimacy.40-42:Electoral reforms build Metrics: ~60%
37–39: Governance shows poten- tial but lacks national reach.~40%. 40–49 Some le- gitimacy. 40–42: Electoral reforms build moderate confidence. Examples: Ni- geria. 43–46: Governance credibility Metrics: ~60%
40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence.Examples: Ni- geria.43-46:Governance credibilityMetrics: ~60%
40-49Some le- gitimacy.40-42: Electoral reforms build moderate confidence.Examples: Ni- geria.43-46:Governance credibilityMetrics: ~60%
gitimacy. moderate confidence. 43–46: Governance credibility Metrics: ~60%
43–46: Governance credibility Metrics: ~60%
strengthens as reforms take hold. turnout,
47–49: Governance is accepted ~50% trust in
but remains fragile. leadership.
50-59 Moderate 50-52: Electoral transparency Examples: In-
legitima- increases but issues remain. dia.
cy. 53–56: Governance focuses on Metrics: 65%
inclusivity, with visible results. voter turnout;
57–59: Trust improves as re- 60% trust rat-
forms gain traction. ings.
60-69 Signif- 60-63: Elections are free and Examples:
icant fair, but systemic issues linger. Brazil.
legitima- 64–66: Public trust grows steadi- Metrics: ~70%
cy. ly as reforms expand. turnout, 70%
67-69: Governance is widely ac- trust in institu-
cepted, despite minor controversies. tions.
70–79 Strong 70–73: Inclusive governance; mi- E x a m p l e s :
legitima- nority voices are represented. South Korea.
cy. 74–76: Reforms solidify trust; Metrics: >75%
national unity improves. turnout, 80%
77-79: Institutions operate effec- approval rat-
tively with broad public support. ings.

80-89	Highly legiti- mate.	 80-83: Reforms exceed public expectations. 84-86: Governance anticipates public needs proactively. 87-89: Trust is deeply rooted; government seen as a unifying 	Germany. Metrics: >80% turnout, >85% trust in gover-
		force.	
90–100	Fully le- gitimate.	 90-93: Institutions are universally respected; dissent is minimal. 94-96: Policy-making is transparent and participatory. 97-100: Governance sets global standards in inclusivity and accountability. 	Norway. Metrics: ~90% turnout; 95%

3. Political Factors: Rule of Law and Human Rights

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1–9	Systemic	1–3: Total lawlessness; courts	Examples:
	lawless-	do not function. Government ac-	Syria during ci-
	ness;	tively perpetuates human rights	vil war, North
	pervasive	violations (e.g., forced disappear-	Korea.
	human	ances).	Metrics: Rule
	rights	4-6: Judiciary exists but is en-	of Law Index
	abuses.	tirely controlled by political lead-	<0.2; human
		ers or militias. Rights violations	rights violations
		are routine.	exceed 90%.
		7–9: Basic legal structures exist	
		but are selectively applied; cer-	
		tain groups (e.g., minorities) face	
		systemic abuse.	
10-19	Weak	10–12: Bribery and corruption	Examples:
	judiciary;	dominate legal processes; extra-	Myanmar
	rights	judicial killings occur regularly.	during military

			, ,
		13–15: Some enforcement of	
	remain	minor laws (e.g., property dis-	Metrics: Con-
	signifi-	putes), but major cases remain	viction rates
	cant.	unresolved.	~30%; Human
		16–19: Early-stage judicial re-	Freedom Index
		forms emerge; accountability is	~3-4.
		rare but improving.	
20-29	Judiciary	20–22: Corruption remains	Examples:
	is func-	widespread, but legal reforms	Zimbabwe un-
	tional but	(e.g., anti-corruption laws) are	
	severely	introduced.	efforts.
	limited.	23-26: Select sectors, like busi-	Metrics: Con-
		ness disputes, see improved legal	viction rates
		outcomes.	~40%; Human
		27–29: Accountability emerges	Freedom Index
		in urban areas, but rural regions	~4–5.
		are neglected.	
30-39	Legal	30–33: Courts handle smaller	Examples:
	enforce-	cases efficiently but face political	
	ment is	interference in high-profile cases.	2007 judicial re-
	inconsis-	34–36: Rights reforms show vis-	forms.
	tent but	ible progress in urban areas; ru-	Metrics: Rule of
	improv-	ral regions lag.	Law Index ~0.4;
	ing.	37–39: Anti-corruption initiatives	backlog of cases
	8	lead to increased public trust.	reduced by 30%.
40-49	Moder-	40–42: High-profile cases are	Examples: In-
	ately fair	prosecuted; bias still exists in	dia's judiciary
	judiciary	politically sensitive matters.	during modern-
	with	43–46: Minority protections ex-	ization efforts.
	ongoing	pand through new laws; enforce-	Metrics: Con-
	reforms.	ment remains inconsistent.	viction rates
		47–49: Civil liberties improve;	~50%; Freedom
		public trust in courts grows	House score im-
		steadily.	proves by ~15%.
50-59	Judiciary	50–52: High-profile corruption	
	shows	cases result in convictions; police	
	indepen-	brutality decreases.	post-apartheid.
	dence;		
	,		

			anon of the table
	human	53–56: Human rights advocacy	
	rights	gains institutional support.	man Freedom
	violations	57–59: Reforms target marginal-	Index ~6–7;
	decline.	ized communities, reducing sys-	backlog of cases
		temic inequalities.	reduced by 50%.
60-69	Judiciary	60–63: Civil liberties are broadly	Examples:
	is largely	protected, though minor viola-	Brazil during
	indepen-	tions persist.	anti-corruption
	dent;	64-66: Legal institutions ad-	trials.
	rights are	dress systemic challenges (e.g.,	Metrics: Convic-
	widely	gender equality).	tion rates >70%;
	respect-	67-69: Judiciary earns wide-	World Justice
	ed.	spread public trust and actively	Project scores
		supports reforms.	improve by 20%.
70–79	Strong	70-73: Minorities are fully pro-	Examples: Bo-
	judiciary;	tected under the law.	tswana's rights
	human	74–76: Courts enforce rights	protections.
	rights	consistently, even in politically	Metrics: Rule of
	protec-	charged cases.	Law Index ~0.6–
	tions are	77–79: Judiciary serves as a re-	0.7; public trust
	robust.	gional benchmark for fairness.	exceeds 65%.
80-89	Judiciary	80-83: Judiciary operates with-	Examples:
	is highly	out external interference.	Canada's judi-
	respect-	84-86: Courts actively promote	ciary.
	ed; rights	progressive laws (e.g., environ-	Metrics: Free-
	violations	mental protections).	dom House sco-
	are rare.	87–89: Legal systems set region-	re >85%; cor-
		al benchmarks in inclusivity and	ruption index
		transparency.	<25.
90-100	World-	90-93: Judiciary adapts proac-	Examples:
	class	tively to societal challenges (e.g.,	Nordic count-
	judiciary;	digital privacy).	ries.
	human	94–96: Legal frameworks are	
	rights	inclusive, eliminating systemic	
	fully pro-	inequities.	>0.9; conviction
	tected.	97–100: Judiciary consistently	rates >95%.
		ranks as one of the most trusted	
		institutions globally.	

4. Political Factors: Corruption Levels

Score	Descrip-	Clear Guidance for Finer Gradations	Examples and Metrics*
Range	tion		
1–9	Perva- sive and institu- tionalized corrup- tion.	 1-3: Bribery is required for all public services; no anti-corruption measures exist. 4-6: Corruption is institutionalized, affecting every level of government. 7-9: Minor public services improve but remain overshadowed by systemic corruption. 	malia. M e t r i c s : Transparency
10–19	Rampant corrup- tion with marginal improve- ments.	 10-12: Anti-corruption campaigns exist but are poorly enforced. 13-15: Isolated reforms (e.g., whistleblower protections) are introduced. 16-19: Urban governance shows minor improvements; rural corruption persists. 	Metrics: TI In- dex ~10–20; ur-
20–29	Corrup- tion per- sists but reforms gain trac- tion.	 20-22: Specific sectors, like education, begin improving transparency. 23-26: Whistleblowers expose high-profile cases; limited convictions occur. 27-29: Regional governments experiment with transparency initiatives. 	itrea. Metrics: TI Index ~20–30;
30–39	Corrup- tion is reduced through targeted reforms.	 30–33: Major public scandals lead to symbolic but meaningful reforms. 34–36: Public services like utilities become less corrupt. 37–39: Prosecution of corruption increases public confidence. 	Mexico. Metrics: TI Index ~30–40; public satisfac-

40-49	Moderate corrup- tion with visible improve- ments.	 40-42: Corruption reduces significantly in public services (e.g., licensing). 43-46: Anti- corruption commissions begin producing tangible results. 47-49: Government contracts become increasingly transparent. 	donesia. Metrics: TI Index ~40–50; whistleblower reports increase ~25%.
50–59	Corrup- tion is limited to isolated sectors.	 50-52: Police and judiciary reforms drive significant reductions in bribery. 53-56: Political corruption becomes rare; accountability strengthens. 57-59: Anti-corruption campaigns reduce public mistrust dramatically. 	gentina. Metrics: TI
60-69	Corrup- tion is rare and isolated.	 60–63: Transparency measures extend across sectors. 64–66: Corruption perceptions drop significantly in national surveys. 67–69: Whistleblower protections and open governance bolster public trust. 	South Korea.
70–79	Govern- ment ranks as one of the least corrupt regionally.	 70-73: Anti-corruption policies are integrated across institutions. 74-76: Bribery is virtually eliminated in public services. 77-79: Corruption is addressed 	E x a m p l e s : Australia. Metrics: TI Index ~70–80; corruption per- ception <5%.
80–89	Negligible corrup- tion.	80–83: Strong institutional frameworks ensure transparency.84–86: Regional benchmarks in integrity and accountability.	E x a m p l e s : Sweden. Metrics: TI In- dex ~80-90;

Continuation of the table

		87–89: Corruption is eradicated in practice; proactive measures prevent new cases.	-
90–100	tion is	94–96: Governments implement	Switzerland. Metrics: TI In-

5. Political Factors: Participation in Geopolitical Blocs

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1-9	Harmful alliances or total isolation.	 1-3: Membership in blocs actively harms the country (e.g., punitive sanctions due to alliances). 4-6: Country is a passive member of harmful alliances or excluded from major international frameworks. 7-9: Limited engagement in alliances; isolationism hinders economic and diplomatic prospects. 	North Korea. Metrics: Trade losses >50% due to bloc partic- ipation; no bi- lateral treaties with major na-
10-19	Negative impact from alli- ances.	 10–12: Alliances create internal divisions or geopolitical conflicts (e.g., opposition to bloc policies). 13–15: Membership benefits elites or small sectors but harms broader economic/political interests. 16–19: Political friction with key allies limits benefits; minimal international cooperation. 	Venezuela. Metrics: De- clining foreign investment by ~20% due to

			ianon of the table
20-29	Neutral	20–22: Membership provides	Examples:
	or min-	limited economic or security	Bhutan.
	imally	benefits but little influence in	Metrics: Ex-
	beneficial	bloc decisions.	port growth
	participa-	23–26: Country is a peripheral	<5% linked to
	tion.	member, rarely engaging in key	bloc benefits.
		initiatives.	
		27–29: Alliances bring minor	
		improvements but fail to address	
		critical national needs.	
30-39	Some-	30–33: Alliances support narrow	Examples: Al-
	what	sectors (e.g., agriculture or ener-	bania.
	beneficial	gy) but lack broad impact.	Metrics: GDP
	participa-	34–36: Membership fosters lim-	growth ~2%
	tion.	ited economic growth and mod-	from bloc-relat-
		est diplomatic gains.	ed trade; mar-
		37–39: Alliances improve sta-	
		bility but create dependency on	in FDI.
		stronger members.	
40-49	Mod-	40–42: Membership enhances	Examples: In-
	erately	trade opportunities and stabiliz-	dia.
		es certain industries.	Metrics: Trade
	alliances.	43–46: Blocs offer security bene-	increases ~10%;
		fits but demand compromises on	security coop-
		sovereignty.	eration agree-
		47–49: Participation improves	ments expand.
		economic integration and trade	
		flow but lacks innovation.	
50-59	Alliances	50–52: Membership leads to	Examples:
	provide	tariff reductions and diversified	Brazil.
	sub-	markets.	Metrics: FDI
	stantial	53-56: Country gains moder-	growth $\sim 15\%$; se-
	benefits.	ate influence in bloc decision-	curity index im-
		making processes.	proves by 25%.
		57–59: Economic and political	
		benefits outweigh potential	
		sovereignty costs.	

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60–69	Strongly	60-63: Membership fosters re-	Examples:
	beneficial	gional leadership and significant	South Korea.
	alliances.	economic gains.	Metrics: Ex-
		64-66: Alliances enhance diplo-	port growth
		matic influence in global forums	~20%; bloc-driv-
		(e.g., UN, WTO).	en GDP growth
		67-69: Participation strength-	~3–4%.
		ens both trade and security sec-	
		tors consistently.	
70-79	Allianc-	70–73: Membership promotes	Examples:
	es drive	strategic innovation and resil-	_
	national	ience across industries.	Metrics: Trade
	growth.		volume in-
	0	ic policies align seamlessly with	
		bloc objectives.	bloc-related ini-
		77–79: Country acts as a region-	
		al leader, setting agenda within	
		alliances.	10%.
80-89	Member-	80-83: Alliances position the	Examples: Ja-
	ship is	country as a key player in re-	pan.
	transfor-	gional economic and security	1
	mative.	frameworks.	per capita
		84–86: Membership fosters glob-	growth >4%
		al partnerships beyond the bloc.	annually due to
		87–89: Policies and reforms driv-	e e
		en by alliance participation be-	
		come models for others.	
90-100	Member-	90–93: Country leads innovative	Examples:
	ship is	reforms within alliances and	
	exempla-	drives global standards.	Metrics: Ex-
	ry.	94-96: Alliances provide unpar-	
		alleled economic and security	
		benefits; country gains substan-	, 0
		tial global influence.	fluence >90th
		97–100: Membership consistent-	
		ly achieves diplomatic, economic,	-
		y actine ves dipioniatie, ceononite,	
		and security excellence.	

Economic Factors 1. Economic Factors: Economic Performance

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1–9	Collapsed or dys- function- al econo- my.	 1-3: GDP shrinks annually; hyperinflation exceeds 500%. 4-6: Severe instability, major industries cease operation. 7-9: Minor recovery attempts fail; unemployment >50%. 	E x a m p l e s : Zimbabwe. Metrics: GDP growth <-5%; inflation >1000%.
10–19	Extreme- ly weak economy.	 10-12: GDP stagnates; industries operate below 30% capacity. 13-15: Export activity resumes but faces significant barriers. 16-19: Early-stage stabilization with minor international assistance. 	E x a m p l e s : Venezuela. Metrics: GDP growth ~0%; inflation 100– 500%.
20–29	Weak econo- my with some recovery.	 20-22: Inflation stabilizes but remains high; unemployment ~30%. 23-26: Core industries restart but remain underproductive. 27-29: GDP growth marginally positive (~1-2%). 	dan. Metrics: Infla-
30–39	Recov- ering economy.	 30–33: Trade activity increases; public debt remains high. 34–36: Moderate improvements in fiscal stability. 37–39: Sectors like technology or agriculture see isolated growth. 	Examples: Ar- gentina. Metrics: GDP growth ~3%; inflation ~20- 30%.
40-49	Mod- erately weak economy.	 40-42: Inflation stabilizes (<15%); GDP grows slowly (~2-3%). 43-46: Diversification efforts improve sectoral balance. 47-49: External debt declines, allowing modest recovery. 	E x a m p l e s : Brazil. Metrics: GDP growth ~3%; in- flation ~10%.

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50-59	Growing	50–52: GDP growth accelerates	-
	economy.	(~4–5%); inflation <10%.	dia.
		53–56: Exports and imports re-	Metrics: GDP
		balance; fiscal policy stabilizes.	growth 5%; FDI
		57-59: Private investment re-	growth >15%.
		turns, boosting innovation.	
60–69	Stable	60–63: GDP grows ~5–6%; infla-	Examples:
	economy.	tion ~5–7%.	Phillipines.
		64–66: Diversification enhances	Metrics: GDP
		resilience to global shocks.	growth ~6%; in-
		67-69: Growth is inclusive, re-	flation ~5%.
		ducing unemployment to $\sim 5-7\%$.	
70–79	Strong	70-73: Consistent, robust growth	Examples:
	economy.	(>6%); industries innovate.	Rwanda.
		74–76: Investment in infrastruc-	Metrics: GDP
		ture drives sustainable gains.	growth ~7%; in-
			flation ~3–4%.
		downturns improves dramati-	
		cally.	
80-89	Advanced	80–83: Growth remains strong;	Examples: Sin-
	economy.	government policies foster inno-	gapore.
		vation.	Metrics: GDP
		84–86: Trade surplus consis-	growth ~5%; in-
		tently supports development.	flation <3%.
		87-89: Public and private sec-	
		tors align for long-term gains.	
90-100	World-	90–93: Economy sets global	
	class	standards in innovation and re-	United States.
	economy.	silience.	Metrics: GDP
		94–96: Trade surplus exceeds	
		expectations; economic policies	flation <2%.
		serve as models.	
		97-100: Unprecedented stabili-	
		ty and growth; GDP per capita	
		leads global rankings.	

2. Economic Factors: Economic Diversification

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Mono- cultural economy; extreme vulnera- bility.	 1-3: Economy relies entirely on one sector (e.g., >90% GDP from oil exports). 4-6: Dependence on a single industry persists, with negligible investment in alternatives. 7-9: Minimal diversification attempts fail to reduce vulnerability. 	Examples: South Sudan. Metrics: >85% of exports from one product; negligible FDI in other sectors.
10-19	Heavy reliance on one or two sectors.	 10-12: Small investments in other industries but no meaningful results. 13-15: Secondary industries (e.g., agriculture) begin to contribute marginally. 16-19: Early diversification in manufacturing or services, with minimal output. 	gola. Metrics: >70% export depen- dency on one sector; second-
20-29	Initial steps toward diversifi- cation.	 20-22: Secondary industries grow but remain underdeveloped (<15% GDP). 23-26: Trade reforms enable minor growth in emerging sectors. 27-29: Tourism or services show early signs of sustainability. 	Examples: Ni- geria. Metrics: Non-primary sectors ~20% GDP; increased trade activity in 2–3 industries.
30–39	Moderate reli- ance on multiple sectors.	 30-33: Manufacturing or services grow to ~25% GDP. 34-36: New sectors face scalability challenges despite early successes. 37-39: Significant progress in non-primary sectors, though dependency remains visible. 	Examples: Ka- zakhstan. Metrics: Non-primary sectors ~30% GDP; exports diversified across ~5 prod- ucts.

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40-49	Balanced	40–42: Secondary and tertiary	Examples: In-
	diversi-	industries reach ~35% GDP.	donesia.
	fication	43-46: Trade partners diver-	Metrics: Non-
	emerges.	sify, reducing risk of economic	resource sectors
		shocks.	~40% GDP;
		47-49: Resource sectors dom-	export diversity
		inate less than 50% of total ex-	index improves
		ports.	by ~15%.
50-59	Strong	50–52: Manufacturing, tech, and	Examples:
	diversi-	services grow steadily (~45%	Mexico.
	fication	GDP).	Metrics: Export
	across in-	53–56: Exports increasingly in-	share of high-
	dustries.	clude high-value-added prod-	tech products
		ucts.	>20%; non-re-
		57-59: Multiple industries con-	source sectors
		tribute equally to GDP growth.	~50% GDP.
60-69	Highly	60–63: No sector dominates	Examples: Ma-
	diver-	GDP (>30% each); industries	
	sified	like tech, manufacturing, and	Metrics: High-
	economy.	tourism thrive.	tech exports
	5	64–66: Value-added exports	$\sim 30\%$ of total;
		drive global competitiveness.	manufacturing
		67-69: Domestic policies incen-	~25% GDP.
		tivize continuous innovation in	
		multiple sectors.	
70-79	Economic	70-73: Sectors are evenly bal-	Examples:
	resilience	anced and mutually reinforcing.	Germany.
	through	74-76: Global partnerships ex-	Metrics: No
	deep	pand market reach for all major	sector $>25\%$
	diversifi-	industries.	GDP; tech ex-
	cation.	77-79: Industrial policies en-	ports dominate
		sure adaptability to global de-	global markets.
		mand shifts.	-
80-89	Bench-	80–83: Country leads regionally	Examples: Ja-
	mark-level		pan.
	diversifi-	diversified export products.	-
	cation.		

		84–86: Key industries consistently innovate, outpacing regional competitors.	
		87–89: Economic policies set	
		benchmarks globally for resil-	ly across 4+
		ience and innovation.	sectors.
90-100	World-	90-93: Country thrives on inno-	Examples:
	class	vation across multiple sectors;	United States.
	economic	global leader in key industries.	Metrics: High-
	diversifi-	94–96: Economy fully insulated	tech exports
	cation.	from commodity price shocks.	>40%; GDP from
		97–100: Exemplary industrial	manufacturing,
		balance; diversification drives	,
		long- term growth globally.	services equally
			balanced.

3. Economic Factors: Income Inequality

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1–9		1–3: Gini coefficient >0.65; ma-	
1-0	inequal-	jority population lacks access to	-
	ity;	essential services.	Metrics: Gini
	systemic	4–6: Middle class effectively	>0.6; poverty
	exclusion.	non-existent; wealth concentrat-	rate >50%.
		ed among elites.	
		7-9: Basic services (education,	
		healthcare) are highly inequitable.	
10-19	Severe	10-12: Marginalized groups see	Examples:
	inequal-	token inclusion in economic re-	Brazil.
	ity;	forms.	Metrics: Gini
	limited	13–15: Middle class emerges but	~0.55; ~40%
	mobility.	faces significant barriers to growth.	population
		16-19: Regional disparities dom-	below poverty
		inate economic outcomes.	line.

$Continuation \ of \ the \ table$

		Continu	anon of the tuble
20-29	High	20–22: Subsidies reduce poverty in	Examples:
	inequal-	urban areas but not rural regions.	Mexico.
	ity with	23-26: Employment and educa-	Metrics: Gini
	visible	tion opportunities improve for	~0.5; literacy
	progress.	low-income groups.	gap ~20% be-
		27–29: Inequality narrows sli-	tween regions.
		ghtly as reforms take hold.	
30-39	Moderate	30–33: Government introduces	Examples:
	inequal-	income redistribution programs	China.
	ity with	(e.g., conditional cash transfers).	Metrics: Gini
	early	34–36: Wealth gaps shrink	~0.45; poverty
	reforms.	across regions, though dispari-	rate ~30%.
		ties remain visible.	
		37–39: Access to healthcare and	
		education improves across in-	
		come groups.	
40-49	In-	40-42: Affordable housing and	Examples: In-
	equality	healthcare policies target the	
	remains	lower-middle class.	Metrics: Gini
	but sig-	43-46: Job creation efforts sta-	~0.4; poverty
	nificant	bilize incomes for marginalized	rate ~25%.
	progress	populations.	
	made.	47–49: Reforms successfully	
		boost social mobility.	
50-59	Moderate	50–52: Social welfare policies re-	Examples:
	inequal-	duce intergenerational poverty.	Turkey.
	ity; mid-	53-56: Education reforms im-	Metrics: Gini
	dle class	prove opportunities for low-in-	~0.35; poverty
	expands.	come groups.	rate ~20%.
		57–59: Labor market equality	
		improves.	
60–69	Low in-	60-63: Majority of the popula-	Examples:
	equality;	tion enters the middle class.	South Korea.
	strong	64-66: Equal access to high-qual-	Metrics: Gini
	upward	ity healthcare and education.	~0.3; literacy
	mobility.	67–69: Regional disparities	~95% nation-

	1		,
70–79	Minimal	70–73: Income gaps shrink sig-	
	inequali-	nificantly; wealth redistribution	Germany.
	ty; social	is effective.	Metrics: Gini
	equity	74-76: Most citizens achieve eco-	<0.3; poverty
	drives	nomic security.	rate ~10%.
	growth.	77–79: Inclusive economic	
		growth reinforces equity.	
80-89	Bench-	80-83: Strong welfare state en-	Examples:
	mark-	sures equal opportunities.	Sweden.
	level	84–86: Redistribution policies	Metrics: Gini
	equality.	consistently sustain equity.	~0.25; poverty
		87-89: Government sets region-	rate <5%.
		al benchmarks for inclusivity.	
90-	Exempla-	90-93: Universal access to re-	Examples:
100	ry equali-		-
	ty; global		Metrics: Gini
	leader in	-	<0.2; universal
	equity.	sustained equality across gener-	
		ations.	tion and
		97–100: Nation exemplifies fair-	healthcare.
		ness in economic	
		outcomes globally.	

4. Economic Factors: Unemployment Rates

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1–9	Chronic	1-3: Structural unemployment	Examples:
	unem-	dominates all sectors.	South Africa.
	ployment	4–6: Marginal recovery efforts	Metrics: Unem-
	(>20%).	fail to reduce chronic jobless-	ployment >25%;
		ness.	youth unem-
		7-9: Seasonal employment of-	ployment >40%.
		fers limited relief.	

			iation of the table
10–19	Very high	10–12: Policies fail to create jobs;	Examples:
	unem-	most employment is informal.	Montenegro.
	ployment	13-15: Sectors like construc-	Metrics: Unem-
	(12–20%).	tion offer minor opportunities.	ployment ~18%;
		16–19: Slow job growth fails to	informal jobs
		outpace population growth.	>60%.
20-29	High	20–22: Government incentives	Examples:
	unem-	create low- wage jobs.	Greece.
	ployment	23–26: Urban unemployment	Metrics: Unem-
	(8–12%).	falls, but rural areas suffer.	ployment ~10%;
		27–29: Vocational training shows	youth jobless-
		minor results.	ness ~25%.
30–39	Moderate	30-33: Job creation focuses on	Examples: Ita-
	unem-	urban centers.	ly.
	ployment	34-36: Workforce policies im-	Metrics: Unem-
	(5–8%).	prove industrial job growth.	ployment ~7%;
		37-39: Unemployment stabiliz-	rural jobless-
		es but remains higher for mar-	ness ~10%.
		ginalized groups.	
40-49	Low	40–42: Government policies	Examples:
	unem-	support sustainable job growth.	Netherlands.
	ployment	43–46: Employment programs	Metrics: Unem-
	(3–5%).	target inclusivity.	ployment ~4%;
		47–49: Majority of job-seekers	youth unem-
		secure work within six months.	ployment ~6%.
50-59	Very low	50–52: Job markets stabilize;	Examples:
	unem-	underemployment reduces.	South Korea.
	ployment	53–56: Economic policies sup-	Metrics: Unem-
	(<3%).	port workforce development.	ployment ~2.5%;
		57–59: Near-full employment	youth jobless-
		achieved in key sectors.	ness ~3%.
60–69	Near-full	achieved in key sectors. 60–63: Unemployment drops be-	
60–69	employ-	achieved in key sectors. 60–63: Unemployment drops be- low 2%; temporary joblessness	ness ~3%. Examples: Sin- gapore.
60–69		achieved in key sectors. 60–63: Unemployment drops be- low 2%; temporary joblessness dominates.	ness ~3%. Examples: Sin- gapore. Metrics: Unem-
60–69	employ-	 achieved in key sectors. 60-63: Unemployment drops below 2%; temporary joblessness dominates. 64-66: High workforce partici- 	ness ~3%. Examples: Sin- gapore. Metrics: Unem- ployment ~1.5%;
60–69	employ-	 achieved in key sectors. 60-63: Unemployment drops below 2%; temporary joblessness dominates. 64-66: High workforce participation across all demographics. 	ness ~3%. Examples: Sin- gapore. Metrics: Unem- ployment ~1.5%; workforce par-
60-69	employ-	 achieved in key sectors. 60-63: Unemployment drops below 2%; temporary joblessness dominates. 64-66: High workforce partici- 	ness ~3%. Examples: Sin- gapore. Metrics: Unem- ployment ~1.5%;

70–79	Full em-	70–73: Sectors diversify, ensur-	Examples:
	ployment	ing resilient job markets.	Denmark.
	with	74–76: Automation comple-	Metrics: Unem-
	minimal	ments job growth.	ployment <1.5%;
	gaps.	77–79: Workforce transitions	youth jobless-
		seamlessly across industries.	ness ~2%.
80-89	Exempla-	80–83: Country achieves model	Examples:
	ry em-	employment balance globally.	Combodia.
	ployment	84–86: Workforce consistently	Metrics: Unem-
	rates.	innovates, ensuring adaptability.	ployment <1%;
		87-89: Job creation policies	>95% workforce
		drive long-term growth and sta-	participation.
		bility.	· ·
90-100	Global	90-93: No systemic unemploy-	Examples:
	bench-	ment; job markets remain resil-	Qatar.
	mark for	ient.	Metrics: Work-
	employ-	94-96: Technological shifts cre-	force partici-
	ment.	ate more jobs than they displace.	pation ~98%;
		97–100: Nation leads globally in	negligible
		job quality and availability.	unemployment
			(<0.5%).

5. Economic Factors: Ease of Doing Business

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1–9	Prohib-	1–3: Extreme bureaucratic hur-	Examples: So-
	itive	dles; no framework for business	malia.
	regula-	registration.	Metrics: World
	tory and	4–6: Licensing processes are	Bank Ease of
	business	opaque, taking months or years.	Doing Business
	environ-	7-9: Limited access to finance	Score <30; av-
	ment.	or property rights; corruption	erage licensing
		dominates business processes.	time >200 days.

10-19Very chal- lenging business10-12: Some business regis- tration processes exist but are highly inefficient.Examples: Ven- ezuela.lenging businesshighly inefficient. weakly enforced, creating inse- curity for businesses.Metrics: Ease of Doing Busi- ness Score ~30-40; ~50%20-29Difficult environ- ment.20-22: Minor improvements in overall inefficiency persists. ships improve isolated sectors reforms.Examples: Ni- geria.30-39Mod- erately ing envi- ronment.30-33: Licensing times shorten but remain inconsistent. still y enforced; businesses gain ronment.30-33: Licensing and regis- reforms.Ketrics: Examples: In- dia.40-49Mod- erately favorable40-42: Licensing and regis- tration reforms cut processing times by ~30%.Ketrics: Ease of Doing Busi- ness Score ~40- 50; power outage but remain inconsistent.40-49Mod- erately favorable40-42: Licensing and regis- tration reforms cut processing times by ~30%.Ketrics: Ease of business40-49Mod- erately favorable40-42: Licensing and regis- tration reforms cut processing times by ~30%.Ketrics: Ease of business50-50-50Favorable50-52: Licensing and regisr- reduce but remain a concern.Score ~50-60; >60% of business- es cit predict- able regulations.50-50-50Favorable50-52: Licensing and regisr- reduce but remain a concern.Score ~50-60; Metrics: Ease of Doing Business50-50-50Favorable50-52: Licensing and regisr- reduce but remain a concern. <t< th=""><th></th><th></th><th>Continu</th><th>iunon of the tuble</th></t<>			Continu	iunon of the tuble
lenging businesshighly inefficient. inert.Metrics: Ease of Doing Busi- ness Score -30-40; ~50%20-29Difficult environ- ment.20-22: Minor improvements in licensing or property laws, but overall inefficiency persists. with 23-26: Public-private partner- emerging reforms.20-29: Early-stage anti-corrup- ton reforms show limited impact.Metrics: Ease of Doing Busi- ness sapprovals.30-39Mod- erately challeng- ing envi- ronment.30-33: Licensing times shorten erately challeng- tially enforced; businesses gain ronment.Examples: In- dia.40-49Mod- erately challeng- ing envi- ronment.40-42: Licensing and regis- sits but targeted reforms im prove reliability in urban hubs.Examples: Bra- confidence in select regions. 37-39: Infrastructure gaps per- asits but targeted reforms im prove reliability in urban hubs.Metrics: Ease of Doing Busi- ness Score ~40- 50; power outage days >20 per month.40-49Mod- erately favorable business40-42: Licensing and regis- reforms cut processing ating reforms cut processing erately favorable businessMetrics: Ease of Doing Business confidence in accore.50-59Favorable business environ- in major sectors.50-52: Licensing and regista- ton processes are streamlined businessSo-52: Licensing and regista- confidences.50-59Favorable business50-52: Licensing and regista- ton processes are streamlined in major sectors.Examples: Mexico.	10–19		-	_
business environ- ment.13–15: weakly enforced, creating inse- curity for businesses. (e.g., power outages) severely hinder operations.of Doing Busi- ness Score ~30–40; ~50% corruption-rela- ted delays in bu- siness approvals.20–29Difficult environ- ment20–22: Minor improvements in licensing or property laws, but overall inefficiency persists. with 23–26: Public-private partner- emerging reforms.Examples: Ni- geria.30–39Mod- erately challeng- ing envi- ronment.30–33: Licensing times shorten erately challeng- ing envi- ronment.30–33: Licensing times shorten erately but remain inconsistent. confidence in select regions. 37–39: Infrastructure gaps per- sist but targeted reforms im prove reliability in urban hubs.Metrics: Examples: In- dia.40–49Mod- erately environ- ment.40–42: weak in rural regions. 47–49: Infrastructure bottlenceks environ- ment.40–42: clicensing and regis- creforms im a concern.Examples: Bra- confidences corrup- dimes by ~30%.50–59Favorable business environ- in major sectors.50–52: Licensing and registra- tron processes are streamlined business in major sectors.Examples: Mexico.				
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30-39Mod- erately challeng- ing envi- ronment.30-33: Licensing times shorten but remain inconsistent.Examples: In- dia.34-36: Property laws are par- tially enforced; businesses gain ronment.34-36: Property laws are par- tially enforced; businesses gain confidence in select regions.Metrics: Licensing time ~60-100 days; reliable power in 30% of regions.40-49Mod- erately favorable40-42: Licensing and regis- tration reforms cut processing times by ~30%.Examples: Bra- zil.40-49Mod- erately favorable43-46: Property rights are well-enforced in urban areas but weak in rural regions.Metrics: Ease of Doing Business es cite predict- able regulations.50-59Favorable business environ-50-52: Licensing and registra- tion processes are streamlined in major sectors.Examples: Metrics			27-29: Early-stage anti-corrup-	days >20 per
erately challeng- ing envi- ronment.but remain inconsistent.dia.34-36: Property laws are par- tially enforced; businesses gain confidence in select regions.Metrics: Licensing time ~60–100 days;40-49Mod- erately favorable40-42: Licensing and regis- tration reforms cut processing times by ~30%.Fexamples: Bra- zil.40-49Mod- erately favorable43-46: Property rights are well-enforced in urban areas but well-enforced in urban areas but weak in rural regions.Metrics: Ease of Doing Business Score ~50-60; score ~50-60; weak in rural regions.50-59Favorable business environ- im major sectors.50-52: Licensing and registra- ton processes are streamlined in major sectors.Examples: Metrics			tion reforms show limited impact.	month.
challeng- ing envi- ronment.34-36: Property laws are par- tially enforced; businesses gain confidence in select regions.Metrics: Licensing time ~60-100 days; reliable power in 30% of regions.40-49Mod- erately40-42: Licensing and regis- tration reforms cut processing times by ~30%.Examples: Bra- zil.40-49Mod- erately43-46: Property rights are well-enforced in urban areas bu weak in rural regions.Metrics: Ease of Doing Business50-59Favorable50-52: Licensing and registra- teduce but remain a concern.Score es cite predict- able regulations.50-59Favorable50-52: Licensing and registra- ton processes are streamlined in major sectors.Metrics: Mexico.	30–39	Mod-	30–33: Licensing times shorten	Examples: In-
ing envi- ronment.tially enforced; businesses gain confidence in select regions.Licensing time ~60–100 days; reliable power in 30% of regions.40-49Mod- erately favorable40-42: tration reforms cut processing times by ~30%.Examples: Bra- zil.40-49Mod- erately favorable40-42: times by ~30%.Doing Business Score ~50-60; veak in rural regions.Examples: Bra- zil.50-59Favorable business50-52: tion processes are streamlined in major sectors.Metrics: estors.Examples: Metrics.		erately	but remain inconsistent.	dia.
ronment.confidence in select regions.~60–100 days; reliable power in 30% of regions. prove reliability in urban hubs.40-49Mod- erately favorable 40-42: Licensing and regis- tration reforms cut processing times by ~30%. Examples: Bra- zil.40-49Mod- erately favorable 40-42: Licensing and regis- times by ~30%. Examples: Bra- zil.50-59Favorable 50-52: Licensing and regisra- times by ~30%.Metrics: Ease of Score ~50–60; weak in rural regions.Score ~50–60; score ~50–60; able regulations.50-59Favorable 50-52: Licensing and regisra- reduce but remain a concern. Examples: Mexico.		challeng-	34-36: Property laws are par-	Metrics:
40-49Mod- erately favorable40-42:Licensing and regis- tration reforms cut processing times by ~30%.Examples:Bra- zil.40-49Mod- erately favorable40-42:Licensing and regis- tration reforms cut processing times by ~30%.Examples:Bra- zil.40-49Mod- erately favorable40-42:Licensing and regis- tration reforms cut processing times by ~30%.Examples:Bra- zil.50-59Favorable business environ- ment.50-52:Licensing and registra- tion processes are streamlined in major sectors.Examples:		ing envi-	tially enforced; businesses gain	Licensing time
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40-49Mod- erately favorable business40-42:Licensing and regis- tration reforms cut processing times by ~30%.Examples:Bra- zil.Metrics:Ease of business environ- ment.43-46:Property rights are well-enforced in urban areas but weak in rural regions.Metrics:Ease of Doing Business Score ~50-60; >60% of business- es cite predict- able regulations.50-59Favorable business environ-50-52:Licensing and registra- tion processes are streamlined in major sectors.Examples: Mexico.			sist but targeted reforms im-	30% of regions.
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50-59Favorable business environ-50-52: Licensing and registra- tion processes are streamlined in major sectors.Examples: Mexico.		ment.		
50–59 Favorable business environ- 50–52: Licensing and registra- tion processes are streamlined in major sectors. Examples: Mexico.				-
business tion processes are streamlined Mexico. environ- in major sectors.			reduce but remain a concern.	able regulations.
environ- in major sectors.	50-59	Favorable	50-52: Licensing and registra-	Examples:
		business	tion processes are streamlined	Mexico.
ment.		environ-	in major sectors.	
		ment.		

		53-56: Property disputes re-	Metrics:
		duce significantly; enforcement	Licensing time
		improves.	~30–50 days;
		57–59: Basic infrastructure (e.g.,	Ease of Doing
		electricity, transport) supports	Business Score
		consistent business operations.	~60–70.
60–69	Business-	60-63: Regulations are trans-	Examples:
	friendly	parent and predictable across	UAE.
	environ-	most sectors.	Metrics: Ease
	ment	64-66: Taxation systems sup-	of Doing Busi-
	with	port small and medium enter-	ness Score
	regional	prises (SMEs).	~70–80; licens-
	leader-	67–69: Infrastructure enables	ing time <30
	ship.	steady growth in rural and ur-	days.
	_	ban areas.	
70–79	Highly	70–73: Reforms attract foreign	Examples:
	favorable	direct investment (FDI) consis-	Denmark.
	environ-	tently.	Metrics: Ease
	ment.	74–76: Businesses enjoy reliable	of Doing Busi-
		infrastructure nationwide.	ness Score ~80-
		77–79: Legal protections and	85; >80% busi-
		efficient courts support entre-	ness confidence
		preneurial growth.	index.
80-89	Globally	80-83: Regulations align with	Examples: Sin-
	com-	international best practices, re-	gapore.
	petitive	ducing trade barriers.	Metrics:
	business	84–86: Infrastructure enables	Licensing time
	environ-	seamless operations across in-	~10 days; Ease
	ment.	dustries.	of Doing Busi-
		87–89: Strong property and con-	ness Score ~90.
		tract enforcement attracts glob-	
		al firms.	
90-100	Exem-	90-93: Businesses thrive due	Examples: New
	plary	to rapid licensing, transparent	Zealand.
	business	taxation, and consistent infra-	Metrics: Ease
	environ-	structure.	of Doing Busi-
	ment.		ness Score
L		I	-

94–96: Country sets global	~95–100; <5
benchmarks in trade efficiency	days for licens-
and regulatory ease.	ing approvals.
97-100: Business environment	
is unparalleled, fostering inno-	
vation and FDI.	

Social Factors 1. Social Factors: Historical Stability

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1–9	History of	1–3: Nation faces near-constant	Examples:
	continu-	conflict with no periods of peace.	Syria during
	ous insta-	4-6: Short-lived stability is re-	civil war.
	bility.	peatedly interrupted by coups	Metrics: No
		or wars.	stable govern-
		7-9: Recent history includes	ment for >10
		fragile peace, but unrest per-	years; conflict-
		sists in many regions.	driven GDP loss
			>20%.
10-19	History of	10-12: Conflict is episodic but	Examples:
	frequent	devastates critical sectors (e.g.,	South Sudan.
	conflicts	infrastructure).	Metrics: >5
	and insta-	13–15: Power shifts occur regu-	major conflicts
	bility.	larly due to political instability	in 30 years;
		or coups.	displacement
		16–19: Gradual stabilization	>20% of popula-
		emerges but is fragile and uneven.	tion.
20-29	History	20–22: Post-conflict recovery re-	Examples: Af-
	of sig-	mains slow, with limited insti-	ghanistan un-
	nificant	tutional stability.	der peace agree-
	instability	23–26: Peace-building efforts	ments.
		show moderate success.	

		Continu	,
	with	27-29: Periods of stability len-	
	visible	gthen, reducing conflict recur-	flict recurrence
	recovery.	rence.	interval >5
			years; GDP
			growth ~1–2%.
30–39	History of	30-33: Political power transi-	Examples:
	moderate	tions are often contentious but	Colombia post-
	instabil-	rarely escalate to conflict.	FARC agree-
	ity.	34–36: Governance stabilizes	ments.
		but remains vulnerable to ex-	Metrics: Peace
		ternal shocks.	maintained
		37-39: Significant improve-	>10 years; GDP
		ments in institutional resilience	growth ~3–4%.
		emerge.	
40-49	History of	40–42: Political transitions are	Examples: In-
	stability	generally peaceful but lack in-	dia's post- inde-
	punctu-	clusivity.	pendence jour-
	ated by	43–46: Governance is stable but	ney.
	occasional	faces moderate corruption and	Metrics: Peace
	instabil-	inefficiencies.	maintained >20
	ity.	47-49: Nation experiences ste-	years; institu-
		ady progress despite occasional	tional trust
		instability.	~50%.
50-59	History of	50–52: Institutions withstand	Examples:
	moderate	political transitions without	Indonesia
	stability.	conflict.	post-Suharto
	-	53–56: Governance becomes	reforms.
		more inclusive and predictable.	Metrics: Peace
		57-59: Economic growth accel-	maintained >25
		erates, supported by stable in-	years;
		stitutions.	GDP growth
			~5%.
60–69	History	60–63: Peace spans multiple de-	Examples:
	of strong	cades, with robust governance	Brazil post- de-
	stability.	systems.	mocracy resto-
		64-66: Stable governance sup-	ration.
		ports regional leadership.	
		· · · · · · · · · · · · · · · · · · ·	

		67–69: Institutions are highly resilient to external shocks.	Metrics: Peace maintained >30 years; instituti- onal trust ~70%.
70-79	History	70–73: Country acts as a stabi-	Examples:
	of re-	lizing force regionally.	South Korea.
	markable	74–76: Governance systems are	Metrics: Peace
	stability.	highly predictable and inclusive.	maintained >50
		77–79: Stability fosters sig-	years; GDP per
		nificant economic and social	capita growth
		growth.	>5%.
80-89	Bench-	80–83: Governance systems	Examples:
	mark-	serve as regional models of sta-	Canada.
	level	bility.	Metrics: Peace
	historical	84-86: Stability enables long-	maintained >75
	stability.	term development planning.	years; institu-
		87–89: Institutions proactively	tional trust
		adapt to prevent instability.	~85%.
90-100	World-	90–93: Institutions are globally	Examples:
	class	renowned for stability.	Switzerland.
	historical	94–96: Nation exemplifies con-	
	stability.	flict prevention and governance	maintained
		resilience.	>100 years; in-
		97–100: Stability enables inno-	
		vation and leadership globally.	>90%.

2. Social Factors: Ethnic and Cultural Cohesion

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1–9		1–3: Ethnic violence dominates societal dynamics; no cohesion.	Examples: Myanmar during Rohingya crisis.

	conflicts.	4–6: Sporadic violence occurs;	
		government lacks capacity to	
		mediate conflicts.	dents >100/year;
		7-9: Minority groups face sys-	minority trust
		temic exclusion and persecution.	<10%.
10-19	Signif-	10–12: Inter-ethnic tensions re-	Examples: Iraq
	icant	main high, with occasional vio-	post-Saddam
	ethnic	lent outbreaks.	Hussein.
	tensions	13-15: Policies marginally im-	Metrics: Vio-
	with	prove minority representation.	lence incidents
	sporadic	16–19: Conflict decreases, but	~50/year; mi-
	conflict.	deep distrust persists.	nority represen-
		• •	tation ~10%.
20-29	Visible	20–22: Reforms reduce overt vi-	Examples:
	progress	olence but mistrust persists.	South Africa
	in ethnic	23–26: Minorities gain marginal	post-apartheid.
	and	political representation.	Metrics: Minority
	cultural	27–29: Cross-cultural coopera-	representation
	cohesion.	tion emerges in urban areas.	~20%; inter-eth-
			nic violence <30
			incidents/year.
30–39	Moder-	30–33: Government mediates	Examples: Ken-
	ate cohe-	inter-group disputes effectively	ya post- election
	sion with		violence reforms.
	lingering	34–36: Political and economic	Metrics:
	tensions.	inclusion improves for margin-	Minority repre-
		alized groups.	sentation ~30%;
		37–39: Rural and urban areas	ethnic violence
		see distinct progress.	<20/year.
40-49	Signif-	40–42: Reforms yield sustained	· ·
	icant	reductions in tensions.	nesia's multicul-
	cohesion	43–46: Minorities actively par-	tural governance.
	achieved.	ticipate in governance.	Metrics: Mino-
		47–49: Economic and social bar-	rity representa-
		riers between groups diminish.	tion ~40%; pub-
			lic trust in unity
			policies ~50%.
L	1	1	1 =

50-59	Broad	50–52: Government integrates	Examples: Ma-
	societal	minority perspectives into poli-	laysia's ethnic
	cohesion.	cymaking.	harmony efforts.
		53–56: Inter-ethnic cooperation	
		drives social progress.	Minority trust
		57–59: Urban and rural areas	>60%; ethnic vi-
		both benefit from sustained co-	olence incidents
		hesion.	<10/year.
60–69	Strong	60–63: Ethnic tensions are min-	Examples: Sin-
	cohesion	imal, and unity fosters shared	gapore.
	with	goals.	Metrics: Mino-
	national	64-66: Cohesion enhances eco-	rity representa-
	unity.	nomic integration.	tion >50%; public
		67–69: Cultural diversity is cel-	trust in unity
		ebrated and leveraged for devel-	policies ~70%.
		opment.	
70-79	National	70-73: Country serves as a re-	Examples: Can-
	model of	gional example of integration.	ada.
	cohesion.	74–76: Cross- cultural collabo-	Metrics: Mino-
		ration thrives in all sectors.	rity trust >80%;
		77–79: Ethnic and cultural dif-	no recorded
		ferences enrich national identity.	ethnic violence.
80-89	Bench-	80-83: Policies set global exam-	Examples:
	mark for	ples for cultural integration.	Switzerland.
	global	84–86: Nation leads in multicul-	Metrics: Public
	cohesion.	tural representation.	satisfaction with
		87-89: Minorities and majori-	unity policies
		ties enjoy equal opportunities.	~90%; represen-
			tation in leader-
			ship >20%.
90-	Exem-	90–93: Nation fosters global ini-	Examples: Fin-
100	plary	tiatives for cultural harmony.	land.
	global	94-96: Institutions fully repre-	Metrics:
	cohesion.	sent all groups equally.	Minority trust
		97–100: Country is globally rec-	>95%; represen-
		ognized as a model for diversity	tation in leader-
		and cohesion.	ship >30%.
L			

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Religion domi- nates gov- ernance; severe restric- tions on freedoms.	 1-3: State-enforced religion dictates laws; persecution of minorities is systemic. 4-6: Religious authorities supersede civil law; no tolerance for dissent. 7-9: Laws are religiously mandated, with minorities facing severe penalties for non-compliance. 	Examples: Taliban-cont- rolled Afghani- stan. Metrics: Reli- gious Freedom Index ~0–10; non-majority group rights <5%.
10–19	Religion heavily influenc- es gov- ernance; limited tolerance for diver- sity.	 10-12: Minority groups face routine discrimination; religious laws regulate most public affairs. 13-15: Some legal protections exist but are inconsistently applied. 16-19: Religious dominance in rural areas, with urban areas showing mild pluralism. 	Examples: Saudi Arabia. Metrics: Reli- gious Freedom Index ~10–20; representation of minorities in leadership ~1–5%.
20–29	Religion plays a sig- nificant role but reforms emerge.	 20-22: Government introduces mild secular reforms, but religious law remains dominant. 23-26: Tolerance improves in urban areas; rural regions lag behind. 27-29: Civil laws begin to balance religious influence. 	Examples: Pa- kistan's grad- ual seculariza- tion efforts. Metrics: Reli- gious Freedom Index ~20–30; minority partic- ipation in gov- ernance ~10%.
30–39	Religion coexists with civil gover- nance;	 30-33: Laws are influenced by religion but include exemptions for minorities. 34-36: Interfaith dialogue initiatives gain traction. 	Examples: In- donesia's Pan- casila philoso- phy.

3. Social Factors: Religious Influence

	1	Continu	ation of the table
	limited	37–39: Civil law prevails in most	Metrics: Reli-
	conflicts.	public matters, though religious	gious Freedom
		influence persists socially.	Index ~30–40;
			minority partic-
			ipation ~15%.
40-49	Religious	40–42: Secular reforms ensure	Examples:
	influence	basic protections for all faiths.	Turkey pre-re-
	dimin-	43-46: Religious conflicts de-	cent centraliza-
	ishes in	cline, replaced by cultural col-	tion.
	public	laboration.	Metrics: Reli-
	affairs.	47-49: Religious and civil insti-	gious Freedom
		tutions operate independently.	Index ~40–50;
			violence over
			religious is-
			sues <5 inci-
			dents/year.
50-59	Balance	50-52: Religion retains influ-	Examples:
	between	ence but does not dominate pub-	Malaysia's
	religion	lic life.	multi- religious
	and state	53–56: Secular laws gain broad	policies.
	gover-	acceptance.	Metrics: Reli-
	nance.	57–59: Minorities are well-inte-	gious Freedom
		grated and experience minimal	Index ~50–60;
		discrimination.	minority partic-
			ipation ~25%.
60-69	Religion	60-63: Government policies ac-	Examples:
	and gov-	tively protect religious freedoms.	South Korea.
	ernance	64–66: Religious influence is	Metrics: Reli-
	are fully	limited to social and cultural	gious Freedom
	separated	spheres.	Index ~60–70;
	in prac-	67–69: National policies consis-	trust in inter-
	tice.	tently promote inclusivity.	faith initiatives
			~70%.
70–79	Nation	70–73: Religious communities	Examples:
	exem-	coexist harmoniously with active	
	plifies	government support.	Metrics: Reli-
	religious		gious Freedom

		00.000	anon of the tuble
	plural-	74-76: Policies encourage inter-	Index ~70–80;
	ism.	faith collaboration and dialogue.	minority repre-
		77–79: Country is a regional	sentation ~30%.
		leader in religious tolerance.	
80-89	Religious	80–83: Tolerance policies are in-	Examples:
	freedoms	stitutionalized and rarely chal-	Switzerland.
	set global	lenged.	Metrics: Reli-
	stan-	84-86: Religious harmony be-	gious Freedom
	dards.	comes a cultural hallmark.	Index ~80–90;
		87-89: Nation leads internation-	trust in reli-
		al initiatives for religious free-	gious institu-
		dom.	tions >80%.
90-100	Global ex-	90–93: Religious and secular	Examples:
	emplar of	policies align to promote univer-	Finland.
	religious	sal freedoms.	Metrics: Re-
	freedom.	94-96: Country actively medi-	ligious Free-
		ates international religious con-	dom Index >90;
		flicts.	trust in inter-
		97–100: World-renowned for	faith programs
		interfaith harmony and inclu-	~95%.
		sivity.	

4. Social Factors: Educational Attainment

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1–9	Minimal	1–3: Literacy rates <20%; no for-	Examples:
	education	mal education systems.	Chad.
	access;	4-6: Limited schools exist but	Metrics: Liter-
	wide-	are poorly funded and inaccessi-	acy rate <20%;
	spread	ble to most.	school enroll-
	illiteracy.	7–9: Basic education reaches	ment <30%.
		only small urban populations;	
		rural areas excluded.	

	1		
10–19	Severe	10-12: Education access im-	Examples: Af-
	dispar-	proves slightly in urban areas.	ghanistan.
	ities in	13–15: Basic literacy campaigns	Metrics: Liter-
	education	reach marginalized groups but	acy rate ~30%;
	access.	remain underfunded.	gender gap
		16–19: Gender and regional dis-	>30% in school
		parities persist, limiting broad	enrollment.
		progress.	
20-29	Ear-	20–22: Public education reforms	Examples:
	ly-stage	expand school coverage but with	Ethiopia's edu-
	improve-	poor quality.	cation reforms.
	ments	23–26: Primary school attendance	Metrics: Liter-
	in edu-	increases, but secondary and ter-	acy rate ~40%;
	cational	tiary access remain limited.	primary school
	access.	27-29: Rural-urban gaps nar-	enrollment
		row slightly.	~50%.
30-39	Moderate	30–33: Secondary education re-	Examples:
	education	forms begin addressing gaps.	India's literacy
	access	34-36: Vocational training ini-	campaigns.
	with	tiatives gain traction.	Metrics: Liter-
	visible	37–39: Basic education becomes	acy rate ~50%;
	progress.	accessible in most regions.	secondary
		_	school enroll-
			ment ~60%.
40-49	Edu-	40–42: Primary education is	Examples:
	cation	universal; secondary reforms	Indonesia's ed-
	becomes	improve quality.	ucation expan-
	widely ac-	43-46: Tertiary enrollment be-	sion.
	cessible.	gins to rise steadily.	Metrics: Liter-
		47–49: Gaps between rural and	acy rate ~70%;
		urban access significantly di-	tertiary enroll-
		minish.	ment ~20%.
50-59	Edu-	50–52: Teacher training pro-	Examples:
	cation	grams enhance primary and	Vietnam.
	quality	secondary education.	Metrics: Liter-
	improves	53–56: Vocational education	acy rate ~80%;
	broadly.	gains strong public support.	tertiary

		57–59: Higher education partic-	
		ipation doubles in underrepre-	~30%.
		sented groups.	
60-69	Edu-	60-63: Higher education insti-	Examples:
	cation	tutions gain international recog-	Malaysia.
	becomes	nition.	Metrics: Liter-
	a driver	64-66: STEM education im-	acy rate >90%;
	of devel-	proves, addressing labor market	tertiary enroll-
	opment.	demands.	ment ~40%.
	-	67–69: Regional education gaps	
		are nearly eliminated.	
70-79	Educa-	70–73: Nation excels in global	Examples: Po-
	tion fuels	education rankings.	land.
	innova-	74–76: Education access and	Metrics: Liter-
	tion and	quality are universally consistent.	acy rate >95%;
	equality.	77-79: Economic growth is di-	tertiary enroll-
		rectly linked to education-driven	ment ~50%.
		innovation.	
80-89	Bench-	80-83: Public-private partner-	Examples:
	mark-	ships enhance tertiary educa-	Finland.
	level	tion.	Metrics: Glob-
	education	84–86: Country consistently	al education
	system.	ranks among the top globally for	rankings in top
		education.	10; tertiary en-
		87–89: Education outcomes	rollment >60%.
		drive sustained social and eco-	
		nomic equity.	
90–100	Exempla-	90–93: Universal access to	Examples:
	ry global	high-quality education across	Singapore.
	education	all levels.	Metrics: Liter-
	system.	94-96: Country exports educa-	acy rate ~100%;
		tional models globally.	tertiary enroll-
		97–100: Education is fully	ment >70%.
		aligned with innovation, equity,	
		and global leadership.	

5. Social Factors: Health and Pandemic Preparedness

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1-9	Health system is near collapse.	 1-3: Public health infrastructure is non-existent; no pandemic response capability. 4-6: Majority of population lacks access to basic healthcare. 7-9: Sporadic healthcare availability in urban centers; rural areas ignored. 	Examples: Ye- men. Metrics: Life expectancy <50 years; vacci- nation rates <30%.
10–19	Severely inade- quate health system.	 10-12: Basic healthcare services exist but are heavily underfunded. 13-15: Pandemic responses fail to contain outbreaks effectively. 16-19: Maternal and infant mortality rates remain extremely high. 	years; mater-
20–29	Health system begins recovery.	 20-22: Vaccination campaigns begin to address preventable diseases. 23-26: Pandemic readiness improves slightly with international aid. 27-29: Healthcare infrastructure expands slowly to rural areas. 	Examples: Afghanistan. Metrics: Vaccination rates ~50%; life expectancy ~60 years.
30–39	Basic health infra- structure improves.	 30-33: Clinics and hospitals expand coverage in urban centers. 34-36: Government establishes pandemic monitoring systems. 37-39: Health outcomes improve significantly in urban areas. 	Examples: Kenya. Metrics: Life expectancy ~65 years; vacci- nation rates ~70%.

40-49Mod- erately developed health system.40-42: Public health campaigns reduce infectious disease rates. 43-46: Pandemic responses prevent widespread outbreaks. 47-49: Rural healthcare ser- vices expand steadily.Examples: In donesia.50-59Health50-52: Universal access to pri-Examples:
developed health system.43–46: Pandemic responses prevent widespread outbreaks. 47–49: Rural healthcare ser- vices expand steadily.Metrics: Life expectancy ~70 years; vacci- nation rates ~80%.
health prevent widespread outbreaks. expectancy ~70 system. 47–49: Rural healthcare ser- vices expand steadily. ~80%.
system. 47–49: Rural healthcare services expand steadily. value
vices expand steadily. nation rates ~80%.
~80%.
50–59 Health 50–52: Universal access to pri- Examples:
system mary healthcare established. Vietnam.
becomes 53–56: Pandemic response Metrics: Life
resilient. frameworks achieve regional expectancy ~73
effectiveness. years; vacci-
57–59: Chronic disease man- nation rates
agement programs expand. >85%.
60–69 Health 60–63: Hospitals achieve global Examples:
system accreditation. Malaysia.
supports 64-66: Pandemic readiness Metrics: Life
long-term aligns with international stan- expectancy ~78
develop- dards. years; vacci-
ment. 67–69: Life expectancy rises nation rates
significantly due to preventa- >90%.
tive care.
70–79 Advanced 70–73: Universal healthcare is Examples : Po
health sustainable and efficient. land.
system. 74–76: Pandemic responses be- Metrics: Life
come globally exemplary. expectancy >77
77–79: Life expectancy contin- years; vacci-
ues to increase, with strong nation rates
healthcare equity. >95%.
80-89 Bench- 80-83: Country leads regional- Examples:
mark-level ly in health outcomes and inno- Canada.
health vation. Metrics: Life
system. 84–86: Pandemic readiness is expectancy >80
unmatched regionally. years; vacci-
87–89: Health system supports nation rates
consistent population growth >98%.

90-100	World-	90–93: Health system inte-	Examples:
	class	grates cutting-edge technolo-	Singapore.
	health	gies and universal coverage.	Metrics: Life
	system.	94–96: Pandemic readiness is	expectancy
		globally recognized as the best.	>85 years; vac-
		97–100: Country sets global	cination rates
		benchmarks in healthcare in-	>99%.
		novation and equity.	

Security Factors

1. Security Factors: Security Apparatus Effectiveness

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1–9	Security forces actively contribute to instabil- ity.	8 1	malia during civil war. Metrics: Crime rates >50% higher than re- gional average;
10–19	Security forces are severely under-re- sourced and inef- fective.	 10-12: Police and military are incapable of addressing basic security threats. 13-15: Corruption and inefficiency dominate most operations. 16-19: Urban areas receive minimal security, while rural regions are entirely unprotected. 	Examples: Haiti. Metrics: Crime rates >30%;

	1	Continu	ation of the table
20-29	Limited	20–22: Initial steps to rebuild	
	security	security forces, but corruption	Afghanistan
	capaci-	persists.	post-interna-
	ty with	23–26: Urban centers see mar-	tional interven-
	emerging	ginal improvements; rural ar-	tion.
	reforms.	eas remain unsafe.	Metrics: Police
		27–29: Security forces begin	
		cooperating with international	
		partners.	tion complaints
			>30%.
30-39	Basic func-	30–33: Police handle low-level	Examples:
	tionality	crimes but struggle with orga-	Kenya's reform
	in security	nized threats.	efforts.
	forces.	34-36: Military presence de-	Metrics: Crime
		ters insurgency but is incon-	clearance rates
		sistently effective.	~40%; urban
		37–39: Corruption reduces in	trust in police
		urban regions; rural safety im-	~50%.
		proves slightly.	
40-49	Moderate-	40–42: Public safety improves	Examples: Ni-
	ly effective	in major cities; rural areas still	geria post- Boko
	security	lag.	Haram reforms.
	forces.	43-46: Specialized units (e.g.,	Metrics: Crime
		anti-terrorism forces) become	rates reduce by
		operational.	~20%; trust in
		47–49: Crime rates stabilize;	police >60%.
		community trust in policing	
		increases.	
50-59	Reli-	50–52: Corruption significant-	Examples:
	able but	ly reduces; crime prevention	Indonesia's
	uneven	improves.	anti-corruption
	security	53–56: Security forces gain	drives.
	apparatus.	public trust in urban and semi-	Metrics: Crime
		urban areas.	clearance rates
		57–59: Coordination between	~60%; trust in
		police and judiciary strength-	police ~70%.
		ens enforcement.	

60–69 Security 60–63: Crime rates are con-Example	es: Ma-
forces trolled across most regions. laysia.	
maintain 64–66: Security training im- Metrics:	Crime
public proves professionalism. clearance	rates
order ef- 67-69: Rural areas benefit ~75%; tr	ust in
fectively. from stable policing. police >8	0%.
70–79 Security 70–73: Security forces are pro- Example	es: Po-
apparatus active and well-trained. land.	
becomes 74–76: Crime rates are consis- Metrics:	Crime
a regional tently low; organized crime is rates <10	%;
bench- marginalized. trust in p	olice
mark. 77–79: Public safety is univer- >85%.	
sally ensured.	
80-89 Exemplary 80-83: Security institutions Example	es:
security operate transparently and are Germany	
forces with globally respected. Metrics:	Crime
strong 84–86: Crime is rare and well- clearance	rates
public managed. >90%;	public
trust. 87–89: Advanced technologies trust ~90	%.
enhance security capabilities.	
90-100 Global 90-93: Security forces set in- Example	es:
standard ternational benchmarks for ef- Finland.	
for securi- ficiency and equity. Metrics:	Crime
ty effec- 94–96: Strong collaboration rates <5%	6; trust
by chee of our strong contastration rates is ,	
tiveness. with international agencies in police	>95%.
	>95%.
tiveness. with international agencies in police	>95%.
tiveness. with international agencies in police in polic	>95%.

2. Security Factors: Terrorism and Insurgency Threats

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Wide-	1-3: Terrorism dominates all	Examples:
	spread	regions; government control is	Syria during
	terrorism	negligible.	ISIS control.
	with no	4-6: Regular large-scale at-	Metrics: Ter-
	effective	tacks destabilize the economy	rorism Index
	counter-	and society.	$\sim 9-10$; fatalities
	measures.	7-9: Sporadic attacks occur	>10,000/year.
		with no significant response	
		from security forces.	
10-19	Persistent	10–12: Major urban areas fre-	Examples:
	and or-	quently targeted; rural regions	Nigeria during
	ganized	under insurgent control.	peak Boko Ha-
	terrorism	13–15: Counterterrorism stra-	ram activity.
	with limit-	tegies are poorly coordinated	
	ed con-	and under-resourced.	rorism Index
	tainment.	16-19: Sporadic progress in	
		urban centers; rural areas re-	~5,000/year.
		main vulnerable.	
20-29	Terrorism	20–22: Security forces regain	Examples:
	signifi-	limited control over key urban	Pakistan post-
	cantly	areas.	Swat Valley
	disrupts	23–26: Attacks reduce in fre-	offensive.
	develop-	quency but remain a major	
	ment but	threat.	rorism Index
	begins to	27–29: Insurgents lose territo-	
	recede.	rial control, but sporadic vio-	~1,000/year.
		lence persists.	
30–39	Moderate	30–33: Urban areas stabilize,	Examples: Ke-
	terrorism	but rural insurgencies persist.	nya post-West-
	threats	34–36: Attacks are rare but	gate attack.
	with	still disrupt regional progress.	Metrics: Ter-
	effective	37–39: Counterterrorism pro-	rorism Index
	contain-	grams gain public support and	~6; fatalities
	ment.	international aid.	~500/year.

	I	Continu	ation of the table
40-49	Isolated	40-42: Major attacks become	- 1
	terrorism	rare and isolated.	Colombia post-
	threats	43–46: Security measures im-	FARC agree-
	with	prove, leading to reduced re-	ments.
	decreasing	cruitment of insurgents.	Metrics: Ter-
	influence.	47–49: Rural regions stabilize	rorism Index
		as insurgencies weaken.	~5; fatalities
			<100/year.
50-59	Low	50–52: Domestic terrorism is	Examples: In-
	terrorism	largely eliminated.	donesia.
	threats	53–56: International cooper-	Metrics: Ter-
	with	ation strengthens counterter-	rorism Index
	strong	rorism.	~4; fatalities
	counter-	57–59: Society begins to heal	<50/year.
	measures.	from the effects of past terror-	
		ism.	
60-69	Minimal	60–63: Counterterrorism stra-	Examples: Mo-
	terrorism	tegies are consistently suc-	rocco.
	threats.	cessful.	Metrics: Ter-
			rorism Index
		and tourism recover fully.	~3; fatalities
		67–69: Terrorist recruitment	~10/year.
		is negligible.	
70–79	Terrorism	70–73: Nation leads regional	Examples: Po-
	is rare and	counterterrorism initiatives.	land.
	well-man-	74–76: Public trust in safety is	Metrics: Ter-
	aged.	high across all regions.	rorism Index
		77–79: No significant domestic	~2; fatalities
		terror threats exist.	<5/year.
80-89	Bench-	80-83: Counterterrorism poli-	Examples:
	mark-level	cies are proactive and interna-	Germany.
	counter-	tionally recognized.	Metrics: Ter-
	terrorism	1	rorism Index
	and stabil-	ation prevents cross-border	~1; no domestic
	ity.	threats.	fatalities.
		87–89: Security forces inno-	
		vate in counterinsurgency.	

Continuation of the	table
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90-100	Global	90-93: Zero tolerance for ter-	Examples:
	standard	rorism; strategies serve as in-	Finland.
	in counter-	ternational models.	Metrics: Ter-
	terrorism.	94–96: Nation leads global	rorism Index
		counterterrorism coalitions.	~0; trust in
		97–100: No domestic or cross-	counterterror-
		border terrorism threats.	ism policies
			>95%.

3. Security Factors: External Intervention

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1-9	Nation un- der foreign occupation or proxy wars.	 1-3: Total loss of sovereignty; foreign powers dominate. 4-6: Proxy wars lead to constant instability. 7-9: Foreign forces control key regions or resources. 	Examples: Ye- men during civil war. Metrics: Sovere-
10–19	Heavy external influence compro- mises sov- ereignty.	 10–12: Foreign military bases significantly influence domestic policy. 13–15: Foreign aid is used as leverage for political gain. 16–19: Sovereignty is maintained in name but not in practice. 	Examples: Iraq post-2003 inva- sion. Metrics: Sove- reignty Index ~20%; foreign
20–29	Limited sovereign- ty with moderate external	 20-22: Foreign interventions shape policy in major sectors. 23-26: National institutions regain partial independence. 	Examples: Afghanistan under international assistance.

	control.	27-29: Foreign influence di-	
		minishes but remains signif-	reignty Index
		icant.	~30%; military
			aid constitutes
			>20% of GDP.
30–39	Gradual	30–33: National security re-	Examples:
	reduction	gains control over domestic	Kosovo post-UN
	of foreign	affairs.	mission.
	influence.	34–36: Foreign aid supports	Metrics: Sove-
		development without dictat-	reignty Index
		ing policies.	~40%; foreign
		37–39: Military and political	aid <10% of
		independence strengthen.	GDP.
40-49	Moderate	40-42: Foreign influence fo-	Examples:
	indepen-	cuses on collaborative devel-	Rwanda post-
	dence with	opment.	reconstruction.
	isolated	43–46: Military independen-	Metrics: Sov-
	external	ce becomes reliable.	ereignty Index
	ties.	47-49: Nation achieves au-	~50%; foreign
		tonomy in policymaking.	troop presence
			<5%.
50-59	Nation	50–52: External relations are	Examples:
	achieves	balanced and cooperative.	Indonesia post-
	strong	53–56: Foreign aid focuses on	
	sovereign-	mutual benefit.	Metrics: Sov-
	ty with	57–59: Nation actively shapes	ereignty Index
	strategic	foreign policy independently.	~60%; military
	alliances.		autonomy
			~90%.
60-69	Sover-	60–63: External partnerships	Examples: Ma-
	eignty is	enhance security without de-	laysia.
	robust	pendence.	Metrics: Sover-
	with col-	64–66: Foreign investments	eignty Index
	laborative	align with national priori-	~70%; FDI with
	diplomacy.	ties.	no major politi-
		67–69: Nation leads regional	cal strings.
		security cooperation.	_
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		Continu	union of the tuble
70–79	Nation is	70–73: Diplomatic relations	Examples: Po-
	a regional	prioritize mutual benefit.	land.
	leader in	74–76: Military and political	Metrics: Sove-
	sovereign-	independence strengthen al-	reignty Index
	ty.	liances.	~80%; no foreign
		77-79: External powers re-	troop presence.
		spect domestic policies fully.	
80-89	Bench-	80–83: Foreign aid is purely	Examples: Ger-
	mark-level	developmental.	many.
	sovereign-	84-86: Nation mediates re-	Metrics: Sov-
	ty with	gional disputes as a neutral	ereignty Index
	global	party.	~90%; diplo-
	partner-	87-89: Security is domesti-	matic influence
	ships.	cally managed with global co-	exceeds regional
		operation.	average.
90-100	Exemplary	90–93: Nation is globally re-	Examples: Fin-
	sovereign-	spected for its independence	land.
	ty and	and diplomacy.	Metrics: Sove-
	indepen-	94–96: Foreign partnerships	reignty Index
	dence.	are entirely voluntary and	~100%; trust in
		equal.	foreign policy
		97–100: Nation defines global	~95%.
		standards in sovereignty and	
		collaboration.	

Environmental Factors

1. Environmental Factors: Climate Change Vulnerability

Score	Descrip-	Clear Guidance for Finer Examples and
Range	tion	Gradations Metrics*
1-9	Extremely	1-3: Country faces severe Examples : So-
	high vul-	climate risks (e.g., rising sea malia.
	nerability;	levels, extreme droughts) Metrics: Clima-
		with no mitigation plans. te Risk Index

	[uation of the table
	no ad- aptation measures.	 4-6: Critical industries (e.g., agriculture) are collapsing due to climate impacts. 7-9: Limited international aid fails to address systemic vulnerabilities. 	
10–19	High vulnera- bility with minimal adapta- tion.	 10–12: Limited local initiatives fail to reduce risks to infrastructure or livelihoods. 13–15: Major economic sectors remain exposed to frequent climate events. 16–19: International aid supports piecemeal adaptation, but systemic vulnerabilities persist. 	~40–50; >30% of population in
20–29	Significant vulnera- bility with early-stage adapta- tion.	ments pilot programs for cli- mate resilience.	pal. Metrics: Cli- mate Risk Index ~30–40; agricul- tural GDP losses
30–39	Moderate vulnera- bility with visible progress in adapta- tion.	 30-33: Infrastructure projects reduce risks in urban areas but fail to cover rural regions. 34-36: Climate change impacts on food security lessen due to targeted reforms. 37-39: Early warning systems reduce mortality from extreme weather. 	nam. Metrics: Cli- mate Risk Index ~25–30; reduc- tion in weather- related fatalities
40-49	Moderate vulnera- bility with effective	40–42: National policies reduce climate risks in key industries.	-

		Continu	uation of the table
	adapta-	43–46: Infrastructure impro-	~20–25; >50%
	tion.	vements mitigate long-term	coverage of cli-
		climate threats.	mate-resilient
		47–49: Government secures in-	infrastructure.
		ternational support for large-	
		scale adaptation projects.	
50-59	Low vul-	50–52: Public-private part-	Examples: Mo-
	nerability	nerships address climate re-	rocco.
	due to	silience in critical sectors.	Metrics: Clima-
	proactive	53–56: Early mitigation poli-	te Risk Index
	adaptation	cies ensure long-term sustain-	~15–20; urban
	measures.	ability.	climate resil-
		57–59: Vulnerable popula-	ience ~70%.
		tions are integrated into na-	
		tional adaptation strategies.	
60-69	Climate-	60–63: Nation leads regional	Examples:
	resilient	climate mitigation initiatives.	South Korea.
	country	64–66: Urban and rural areas	Metrics: Clima-
	with mini-	benefit equally from resilient	te Risk Index
	mal risks.	infrastructure.	~10–15; >80% of
		67–69: Cross-sectoral integra-	population cov-
		tion of climate policies stren-	ered by risk-re-
		gthens economic stability.	ducing measures.
70-79	Regional	70–73: Advanced technologies	Examples: Ger-
	bench-	reduce climate risks signifi-	many.
	mark for	cantly.	Metrics: Clima-
	climate	74–76: National policies align	te Risk Index
	adapta-	with global best practices.	~5–10; annual
	tion.	77–79: Ecosystem restoration	economic losses
		programs enhance long- term	<1% GDP.
		sustainability.	
80-89	Global	80-83: Country pioneers in-	Examples: Fin-
	leader in	novative climate adaptation	
	climate	strategies.	Metrics: Clima-
	resilience.	84–86: Climate policies drive	te Risk Index
		economic innovation.	~2–5; >90% pop-
			ulation with

Continuation of the table

			aattont of the table
		87-89: International collabo-	climate risk cov-
		rations elevate the country as	erage.
		a model for adaptation.	
90-100	World-	90–93: Climate risks are neg-	Examples: Sin-
	class	ligible; adaptation strategies	gapore.
	climate	are world-renowned.	Metrics: Cli-
	resilience.	94–96: Nation shapes global	mate Risk Index
		climate policies.	~0–2; zero
		97–100: Climate adaptation is	weather-related
		seamlessly integrated into all	fatalities annu-
		aspects of governance.	ally.

2. Environmental Factors: Natural Disaster Risk

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Constant, severe natural disasters with no response systems.	 1-3: Natural disasters devastate critical infrastructure yearly; no preparedness plans exist. 4-6: Mortality rates from disasters are extremely high due to weak governance. 7-9: Humanitarian aid is the primary disaster response mechanism. 	ti during major earthquakes. Metrics: An- nual disaster- related fatal- ities >10,000; economic losses

		Continu	lation of the table
10-19	Frequent	10–12: Disaster-prone regions	Examples:
	disasters	lack basic warning systems.	Philippines (fre-
	with in-	13–15: Recovery efforts are	quent typhoons).
	adequate	delayed due to poor coordina-	Metrics:
	response	tion.	Disaster-related
	capabili-	16–19: National policies exist	fatalities ~5,000/
	ties.	but are inconsistently imple-	year; disaster
		mented.	recovery time >2
			years.
20–29	High	20–22: Pilot programs reduce	Examples:
	disaster	vulnerability in urban cen-	Nepal post-2015
	risks with	ters.	earthquake.
	emerging	23–26: Early warning systems	Metrics:
	mitigation	are deployed but cover limited	Disaster-related
	efforts.	regions.	fatalities
		27–29: Government secures	~1,000/year; ur-
		international aid for disaster	ban infrastruc-
		resilience.	ture resilience
			~30%.
30–39	Moderate	30-33: Urban areas see im-	Examples:
	risks with	proved disaster recovery time-	Bangladesh.
	expanding	lines.	Metrics:
	disaster	34-36: National disaster re-	Disaster-related
	response	sponse teams become opera-	fatalities ~500/
	systems.	tional.	year; disaster
		37-39: Community-based di-	recovery time ~1
		saster preparedness programs	year.
		grow.	
40-49	Moderate	40–42: Public infrastructure	-
	risks with	withstands moderate disas-	donesia.
	effective	ters.	Metrics:
	disaster	43–46: Early warning systems	
	response	reduce casualties significan-	fatalities <500/
	systems.	tly.	year; infrastruc-
		47–49: International aid is	ture resilience
		less critical for recovery ef-	>50%.
		forts.	

	т		
50–59	Low	50–52: Government policies	Examples:
	disaster	integrate disaster prepared-	Vietnam.
	risks with	ness into urban planning.	Metrics: Disas-
	robust	53–56: Mortality rates from	ter-related
	response	disasters are minimal.	fatalities <200/
	frame-	57-59: Response teams en-	year; disaster
	works.	sure rapid recovery nation-	recovery time <6
		wide.	months.
60–69	Resilient	60–63: Advanced technologies	Examples: Ma-
	nation	enhance early detection sys-	laysia.
	with	tems.	Metrics:
	minimal	64-66: Disaster recovery ti-	Disaster-related
	disaster	mes are among the fastest re-	fatalities <100/
	risks.	gionally.	year; recovery
		67-69: National policies em-	time <3 months.
		phasize prevention over re-	
		sponse.	
70-79	Regional	70–73: Urban planning incor-	Examples: Po-
	bench-	porates disaster prevention	land.
	mark for	thoroughly.	Metrics: Disas-
	disaster	74–76: Private sector actively	ter-related fatal-
	manage-	participates in mitigation.	ities <50/year;
	ment.	77–79: Country leads regional	>75% resilience
		collaborations for disaster re-	infrastructure.
		silience.	
80-89	Global	80-83: Disaster-related eco-	Examples: Ger-
	leader in	nomic losses are negligible.	many.
	disaster	84-86: Country pioneers in-	Metrics: Disas-
	resilience.	novative disaster mitigation	ter-related fatal-
		strategies.	ities ~10/year;
		87–89: Regional neighbors	infrastructure
		adopt the nation's disaster	resilience ~90%.
		management frameworks.	
90-100	World-	90–93: Nation is globally rec-	Examples: Ja-
	class	ognized for disaster preven-	pan.
	disaster	tion and response.	Metrics: Disas-
		_	ter-related
	uisaster	tion and response.	

1	94-96: Economic activity is	· · ·
ness and	unaffected by natural disas-	infrastructure
resilience.	ters.	resilience >95%.
	97–100: International best	
	practices in disaster resil-	
	ience originate here.	

3. Environmental Factors: Resource Scarcity

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Critical short- ages of essential resources.	 1-3: Nation faces extreme water and food scarcity; conflicts over resources dominate. 4-6: Essential resources are unavailable to >50% of the population. 7-9: Government is unable to 	Metrics: Water access ~20%;
		secure sustainable resource access.	
10–19	Severe resource scarcity with no long-term solutions.	 10-12: Droughts or resource conflicts frequently disrupt livelihoods. 13-15: Government relies entirely on international aid for essential supplies. 16-19: Resource access improves marginally in urban areas; rural regions remain vulnerable. 	malia. Metrics: Water access ~30%; food insecurity ~40%.
20–29	Significant scarci- ty with emerging resource	20–22: Pilot programs improve resource access in limited regions.23–26: Government begins long-term resource planning.	ghanistan. Metrics: Water

		Continu	tation of the table
	strategies.	27–29: Resource conflicts dec-	food insecurity
	_	line slightly but remain a con-	~30%.
		cern.	
30-39	Moderate	30–33: Public-private partner-	Examples:
	scarci-	ships address resource short-	Ethiopia.
	ty with	ages.	Metrics: Water
	visible	34–36: Infrastructure invest-	access $\sim 50\%$;
	improve-	ments improve resource distri-	food insecurity
	ments.	bution.	~20%.
		37–39: Urban areas achieve	
		stable access; rural areas lag.	
40-49	Moderate	40–42: Government policies	Examples: Ke-
	resource	reduce resource gaps signifi-	nya.
	access	cantly.	Metrics: Water
	with	43–46: Rural and urban areas	access $\sim 60\%;$
	minimal	see equitable improvements in	food insecurity
	scarcity.	access.	~10%.
		47-49: International collabo-	
		ration bolsters sustainability.	
50-59	Low	50–52: Nation achieves stable	Examples: Vi-
	resource	water and food supplies for	etnam.
	scarci-	most regions.	Metrics: Water
	ty with	53–56: Long-term investments	access $\sim 70\%;$
	resilient	ensure sustainability.	negligible food
	systems.	57–59: Resource scarcity is	insecurity.
		limited to isolated incidents.	
60–69	Resource	60–63: Resource access sup-	Examples: Ma-
	abun-	ports economic growth.	laysia.
	dance with	64–66: Efficient resource man-	Metrics: Water
	proactive	agement minimizes waste.	access ~80%;
	manage-	67–69: Resource scarcity is not	food security
	ment.	a factor in national planning.	~95%.
70–79	Regional	70–73: Resources are managed	_
	bench-	efficiently and sustainably.	South Korea.
	mark for	74–76: National policies align	
	resource	with global sustainability	access ~90%;
		goals.	food security

	sustain- ability.	77–79: Country aids resource- scarce neighbors.	~98%.
80-89	Global leader in resource abundance and man- agement.	 80–83: Resource efficiency drives exports and innovation. 84–86: Nation shapes regional resource-sharing initiatives. 87–89: Policies ensure zero resource wastage. 	Germany.
90–100	Exemplary resource abundance and sus- tainability.	 90-93: Resources support unparalleled economic growth and stability. 94-96: Nation's resource policies set global benchmarks. 97-100: Complete sustainability ensures indefinite resource abundance. 	land. Metrics: Water access ~100%; food security

Information Factors 1. Information Factors: Media Freedom

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1–9	Total state	 1-3: Media is fully state-	North Korea.
	control;	owned; dissent is criminalized. 4-6: Journalists face routine	Metrics: Press
	no inde-	imprisonment or violence; no	Freedom Index
	pendent	freedom of expression. 7-9: Propaganda dominates,	~0-10; inde-
	media.	with no credible news sources.	pendent media
10–19	Extreme censorship with rare indepen- dent voices.	 10-12: Strict state control over major media outlets; minor outlets operate clandestinely. 13-15: Limited access to inter- national news; high self-cen- sorship. 	itrea. Metrics: Press Freedom Index

	1		anon of the table
		16–19: Few independent jour-	plurality ~5%.
		nalists operate under constant	
		threat.	
20–29	High	20–22: Independent outlets	Examples:
	censorship	exist but are frequently ha-	China.
	with limit-	rassed.	Metrics: Press
	ed inde-	23–26: State influence domi-	Freedom Index
	pendent	nates public discourse; major	~20–30; inde-
	media.	outlets are heavily censored.	pendent outlets
		27–29: Access to internation-	~10%.
		al media is restricted in rural	
		areas.	
30–39	Moderate	30–33: Independent media ex-	
	censor-	pands in urban areas but re-	Russia.
	ship with	mains under pressure.	Metrics: Press
	increasing	34-36: State narratives dom-	Freedom Index
	media plu-	inate, but alternative views	~30–40; media
	ralism.	gain traction.	plurality ~20%.
		37–39: Digital platforms pro-	
		vide limited uncensored news.	
40-49	Moderate	40-42: Journalistic protec-	Examples:
	freedom	tions exist but are inconsis-	Turkey.
	with occa-	tently applied.	Metrics: Press
	sional state	43–46: State narratives influ-	
	interfer-	ence national outlets, but di-	~40–50; inde-
	ence.	verse voices persist.	pendent media
		47–49: International media	coverage ~30%.
		operates freely with occasional	
		restrictions.	
50–59	Significant	50–52: Journalists report free-	Examples: In-
	freedom	ly but face occasional political	
	with limit-	backlash.	Metrics: Press
	ed censor-	53–56: Access to diverse news	
	ship.	sources is widespread.	~50–60; media
		57–59: Legal frameworks in-	plurality ~40%.
		creasingly protect press free-	
		dom.	

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60–69	Broad	60–63: Journalists operate	-
	media free-	freely, with strong legal pro-	South Korea.
	dom with	tections.	Metrics: Press
	minimal	64–66: Media ownership is di-	Freedom Index
	state inter-	verse and independent.	~60–70; inde-
	ference.	67-69: Investigative journal-	pendent outlets
		ism thrives with minimal risk.	~60%.
70-79	National	70–73: Media outlets are fully	Examples: Po-
	benchmark	independent, with robust safe-	land.
	for media	guards against censorship.	Metrics: Press
	freedom.	74–76: Public trust in media	Freedom Index
		remains high.	~70–80; public
		77–79: Media diversity fosters	trust in media
		public debate and accountabil-	~75%.
		ity.	
80-89	Global	80-83: Journalistic protec-	Examples:
	leader in	tions are comprehensive and	Germany.
	press free-	proactive.	Metrics: Press
	dom.	84-86: Media plurality en-	Freedom Index
		sures balanced coverage.	~80–90; public
		87–89: Publicly funded media	trust in media
		enhances quality and	~85%.
		independence.	
90-100	World-class	90-93: Media operates inde-	Examples:
	media free-	pendently with near-universal	Finland.
	dom.	trust.	Metrics: Press
		94–96: Country sets global	
		standards for press freedom.	>90; media plu-
		97–100: Media strengthens	rality ~95%.
		democracy and governance	
		globally.	

2. Information Factors: Misinformation and Information Warfare

Score Bange	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
Range 1–9	tion Toxic infor- mation en- vironment; misinfor- mation dominates.	Gradations 1–3: State and private actors extensively use disinforma- tion for manipulation. 4–6: Public trust in informa- tion sources is near zero. 7–9: Misinformation campa- igns actively incite violence or destabilization.	Examples: My- anmar (Rohin- gya misinfor- mation). Metrics: Pub- lic trust in
10–19	Severe misinfor- mation with limit- ed counter- measures.	 10–12: Major news outlets amplify propaganda or fake news. 13–15: Digital platforms are exploited for disinformation campaigns. 16–19: Public awareness campaigns are ineffective against misinformation. 	
20–29	High mis- informa- tion with emerging counter- ef- forts.	 20-22: Government acknowledges misinformation issues but lacks cohesive strategy. 23-26: Digital literacy programs reduce susceptibility to fake news. 27-29: Independent fact-checking organizations gain traction. 	Examples: India. Metrics: Public trust in news ~20%; misinformation incidents ~70%.
30–39	Moderate misinfor- mation with visi- ble	 30-33: Social media companies collaborate with governments to reduce fake news. 34-36: Fact-checking initiatives expand nationally. 	Examples: Kenya. Metrics: Public trust in news ~30%; misinformation

	1		
	progress in	37–39: Misinformation re-	incidents ~60%.
	mitigation.	mains impactful in rural areas	
		but declines in urban centers.	
40-49	Moderate	40–42: Legislation against	Examples:
	misinfor-	disinformation achieves ini-	Brazil.
	mation	tial success.	Metrics: Pub-
	with	43–46: Public awareness cam-	lic trust in news
	effective	paigns lead to increased digi-	~40%; misin-
	counter-	tal literacy.	formation inci-
	measures.	47-49: Misinformation be-	dents ~50%.
		comes a fringe issue in major	
		cities.	
50-59	Low misin-	50–52: Fact-checking orga-	Examples: Ma-
	formation;	nizations are integrated into	laysia.
	strong	mainstream media.	Metrics: Pub-
	public re-	53–56: Educational reforms	lic trust in news
	silience.	address misinformation at	~50%; misin-
		early stages.	formation inci-
		57–59: Government policies	dents ~40%.
		balance free speech and dis-	
		information regulation effec-	
		tively.	
60-69	Minimal	60-63: Public awareness and	Examples:
	misinfor-	trust in verified sources in-	South Korea.
	mation;	crease substantially.	Metrics: Pub-
	society is	64–66: Technology companies	lic trust in news
	digitally	develop AI tools to prevent	
	resilient.	disinformation.	formation inci-
		67-69: Nation leads regional-	dents ~30%.
		ly in combating digital propa-	
		ganda.	
70–79	Regional	70–73: Legal frameworks set	Examples: Po-
	leader in	standards for regional misin-	land.
	combating	formation policies.	Metrics: Pub-
	misinfor-	74–76: Public discourse focus-	
	mation.	es on accountability rather	~70%; misinfor-
		than reactionary measures.	mation

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		77-79: Misinformation inci-	incidents ~20%.
		dents are rare and quickly de-	
		bunked.	
80-89	Global	80–83: Society exhibits	Examples:
	leader in	near-universal trust in veri-	Germany.
	misinfor-	fied information.	Metrics: Pub-
	mation	84-86: International collabo-	lic trust in news
	prevention.	rations enhance global resil-	~85%; misin-
	_	ience to disinformation.	formation inci-
		87–89: Education and technol-	dents ~10%.
		ogy ensure long-term public	
		immunity to fake news.	
90-100	Exempla-	90-93: Nation shapes inter-	Examples:
	ry global	national norms for combating	Finland.
	misinfor-	disinformation.	Metrics: Pub-
	mation	94–96: Technology innovation	lic trust in news
	resilience.	eliminates most disinforma-	
		tion campaigns.	formation inci-
		97–100: Society achieves near-	dents ~0%.
		complete immunity to misin-	
		formation.	

3. Information Factors: Social Media Influence

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Social media ex- acerbates societal instability.	 1-3: Platforms are used extensively for inciting violence and extremism. 4-6: Fake accounts dominate discussions; public discourse is highly toxic. 7-9: Social media platforms operate without oversight, amplifying disinformation. 	Myanmar (Ro- hingya crisis). Metrics: Social Media Toxici- ty Index ~90%; trust in plat-

media contributesformation campaigns prolifer- ate unchecked.dia.to signifi- cant social tensions.13-15:Platforms attempt cant social media begins to erode.Media Toxici- ty Index ~80%; trust in plat- forms ~15%.20-29Social me- dia creates challenges20-22:Governments partner moderation efforts.Examples: Kenya.20-29Social me- dia creates challenges20-22:Governments partner moderation efforts.Examples: Kenya.30-39Social media27-29:Toxic content begins to decline in urban areas.Metrics: Social Media Toxicity Index ~70%; trust in plat- forms ~25%.30-39Social media30-33:Moderation efforts succeed in curbing major toxic becomesExamples: Brazil.a balanced tool for communi- cation.31-36:Digital literacy cam- paigns reduce susceptibility to fake news. succeed in curbing mintroduce paigns reduce susceptibility to fake news.Media Toxici- ty Index ~60%; trust in plat- forms ~35%.40-49Social media34-36:Digital literacy cam- paigns reduce susceptibility ty Index ~60%; trust in plat- forms ~35%.40-49Social media40-42:Harmful content is national regulations for user discourse safety.Examples: tust in plat- donesia.40-49Social media40-42:Harmful content is rare and promptly addressed. donesia.Metrics: Social Media Toxici- ty Index ~50%; ty Index ~50%; ty Index ~50%; ty Index ~50%; ty Index ~50%; ty Index ~50%; <th>T</th> <th></th> <th>Continu</th> <th>ation of the table</th>	T		Continu	ation of the table
contributes to signifi- cant socialate unchecked. moderation but fail to address 	10–19		10–12: Hate speech and disin-	Examples: In-
to significant social tensions.13–15:Platforms attempt moderation but fail to address tensions.Media Toxici- ty Index ~80%; trust in plat- forms ~15%.20–29Social me- dia creates challenges20–22:Governments partner moderation efforts.Examples: Metrics: Social Metrics: Social Metrics: Social Metrics: Social Metrics: Social Metrics: Social30–39Social media palanced tool for communi- cation.30–33:Moderation efforts. game abalanced tool for paigns reduce susceptibility to fake news.Examples: Metrics: Social Metrics: Social Metria Toxici- ty Index ~50%; trust		media	formation campaigns prolifer-	dia.
cant social tensions.moderation but fail to address tensions.ty Index ~80%; trust in plat- forms ~15%.20-29Social me- dia creates challenges20-22: Governments partner with platforms for limited moderation efforts.Examples: Kenya.20-29Social me- dia creates challenges20-22: Governments partner moderation efforts.Examples: Metrics: Social Meta Toxicity Index ~70%; trust in plat- forms ~25%.30-39Social media becomes30-33: Moderation efforts succeed in curbing major toxic paigns reduce susceptibility to fake news.Examples: Brazil.40-49Social media strength- enspublic trust.31-39: Platforms introduce transparency tools, gaining public trust.Examples: Brazil.40-49Social media strength- enspublic trust.40-42: Harmful content is rare and promptly addressed. safety. with lim-Examples: In- donesia.40-49Social media strength- enspublic ty Index ~50%; ty Index ~50%; trust in plat-				Metrics: Social
tensions.core issues.trust in platforms ~15%.20-29Social media begins to erode.20-22: Governments partner media createsExamples: Kenya.dia createswith platforms for limited moderation efforts.Metrics: Social Metrics: Social Media Toxicitybut sees23-26: Educational campaigns highlight safe social media use. reforms.Media Toxicity trust in plat- forms ~25%.30-39Social media30-33: Moderation efforts succeed in curbing major toxic trends.Examples: Metrics: Social Brazil.a balanced tool for communi- cation.34-36: Digital literacy cam- paigns reduce susceptibility to fake news.Media Toxici- ty Index ~60%; trust in plat- forms ~35%.40-49Social media strength- media40-42: Harmful content is mational regulations for user safety.Examples: In- donesia.40-49Social media strength- with lim-47-49: Social media fostersMetrics: Social trust in plat- forms ~35%; trust in plat- forms ~35%;		to signifi-	13–15: Platforms attempt	Media Toxici-
20-29Social me- dia creates challenges20-22: Governments partner dia creates with platforms for limited moderation efforts.Examples: Kenya.20-29Social me- dia creates challenges20-22: Governments partner moderation efforts.Examples: Metrics: Social Meta Toxicity Index ~70%; trust in plat- forms ~25%.30-39Social media becomes30-33: Moderation efforts succeed in curbing major toxic trends.Examples: Metrics: Social metia succeed in curbing major toxic trends.30-39Social media becomes34-36: Digital literacy cam- paigns reduce susceptibility to fake news.Media Toxici- ty Index ~60%; trust in plat- forms ~35%.40-49Social media strength- media40-42: Harmful content is mational regulations for user safety.Examples: In- donesia.40-49Social media strength- with lim-47-49: Social media fostersKenya.			moderation but fail to address	
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20-29Social me- dia creates challenges20-22: Governments partner with platforms for limited moderation efforts.Examples: Kenya.but sees initial initial reforms.23-26: Educational campaigns highlight safe social media use. reforms.Media Toxicity Index ~70%; trust in plat- forms ~25%.30-39Social media becomes30-33: Moderation efforts succeed in curbing major toxic trends.Examples: Brazil.30-39Social a balanced tool for communi- cation.30-33: Moderation efforts succeed in curbing major toxic trends.Examples: Brazil.40-49Social media strength- ens public discourse with lim-40-42: Harmful content is rare and promptly addressed. safety.Examples: In- donesia.40-49Social media strength- ens public discourse with lim-40-42: Social media fostersMetrics: Social trust in plat- forms ~35%.				forms ~15%.
dia creates challengeswith platforms for limited moderation efforts.Kenya.but sees initial reforms.23-26: Educational campaigns highlight safe social media use. reforms.Media Toxicity Index ~70%; trust in plat- forms ~25%.30-39Social media becomes30-33: Moderation efforts succeed in curbing major toxic trends.Examples: Brazil.a balanced tool for communi- cation.34-36: Digital literacy cam- paigns reduce susceptibility to fake news.Media Toxici- ty Index ~60%; trust in plat- forms ~35%.40-49Social media strength- ens public time40-42: Harmful content is rare and promptly addressed. safety.Examples: In- donesia.40-49Social media strength- ens public43-46: Platforms align with national regulations for user safety.Metrics: Social trust in plat- forms ~35%; trust in plat- forms ~35%; trust in plat- forms ~35%; trust in plat- forms ~35%; trust in plat- forms ~35%;			media begins to erode.	
challenges but sees initialmoderation efforts. 23-26: Educational campaigns highlight safe social media use. reforms.Metrics: Social Media Toxicity Index ~70%; trust in plat- forms ~25%.30-39Social media30-33: Moderation efforts decline in urban areas.Examples: Brazil.30-39Social media30-33: Moderation efforts succeed in curbing major toxic trends.Brazil.a balanced tool for communi- cation.34-36: Digital literacy cam- paigns reduce susceptibility to fake news.Media Toxici- ty Index ~60%; trust in plat- forms ~35%.40-49Social media40-42: Harmful content is rare and promptly addressed. strength- discourse safety.Examples: In- donesia.40-49Social media43-46: Platforms align with ens public national regulations for user safety.Media Toxici- ty Index ~60%; ty Index ~60%; ty Index ~60%; trust in plat- forms ~35%.	20–29	Social me-		
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reforms.27-29: Toxic content begins to decline in urban areas.trust in plat- forms ~25%.30-39Social media30-33: Moderation efforts succeed in curbing major toxic trends.Examples: Brazil.a balanced tool for communi- cation.34-36: Digital literacy cam- paigns reduce susceptibility to fake news.Metrics: Social metrics in troduce forms ~35%.40-49Social media40-42: Harmful content is national regulations for user safety.Examples: In- donesia.40-49Social with lim-47-49: Social media fostersMetrics: Social trust in plat- forms ~35%.		but sees	10	•
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30-39Social media becomes30-33:Moderation efforts media succeed in curbing major toxic trends.Examples: Brazil.a balanced tool for communi- cation.34-36:Digital literacy cam- paigns reduce susceptibility to fake news.Metrics:Social Media40-49Social media strength- ens public discourse with lim-40-42:Harmful content is national regulations for user safety.Examples:40-49Social media strength- ens public40-42:Harmful content is national regulations for user ty Index ~50%;		reforms.		
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a balanced tool for communi- cation.34–36: Digital literacy cam- paigns reduce susceptibility to fake news. 37–39: Platforms introduce transparency tools, gaining public trust.Media Toxici- ty Index ~60%; trust in plat- forms ~35%.40–49Social media strength- ens public40–42: Harmful content is national regulations for user safety.Examples: In- donesia.40–49Social with lim-43–46: Platforms align with national regulations for user ty Index ~50%; trust in plat-		media	succeed in curbing major toxic	Brazil.
tool for communi- cation.paigns reduce susceptibility to fake news.ty Index ~60%; trust in plat- forms ~35%. 40-49 Social media strength- ens public 40-42: Harmful content is rare and promptly addressed. ational regulations for user safety. Examples: In- donesia. 40-49 Social media strength- discourse with lim- 40-42: Harmful content is rare and promptly addressed. trust in plat- donesia.		becomes	trends.	Metrics: Social
communi- cation.to fake news.trust in plat- forms ~35%. 40-49 Social media strength- ens public 40-42: Harmful content is rare and promptly addressed. discourse safety. Examples: In- donesia. 40-49 Social media strength- discourse with lim- 40-42: Harmful content is rare and promptly addressed. donesia. Examples: In- donesia.		a balanced	34-36: Digital literacy cam-	Media Toxici-
cation. 37–39: Platforms introduce transparency tools, gaining public trust.forms ~35%. 40–49 Social media strength- ens public 40–42: Harmful content is rare and promptly addressed. donesia. Examples: In- donesia. 40–49 Social media strength- discourse with lim- 40–42: Harmful content is rare and promptly addressed. donesia. Examples: In- donesia. 40–49 Social media strength- discourse with lim- 43–46: Platforms align with safety. Metrics: Social Media trust in plat-		tool for	paigns reduce susceptibility	ty Index ~60%;
40-49Social media40-42: Harmful content is rare and promptly addressed. donesia.Examples: In- donesia.strength- ens public43-46: Platforms align with national regulations for user safety.Metrics: Social Media Toxici- ty Index ~50%; with lim-		communi-	to fake news.	trust in plat-
40-49Social media40-42: Harmful content is rare and promptly addressed. donesia.Examples: In- donesia.strength- ens public discourse with lim-43-46: Platforms align with national regulations for user safety.Metrics: Social Media Toxici- ty Index ~50%; trust in plat-		cation.	37–39: Platforms introduce	forms ~35%.
40-49Social media40-42: Harmful content is rare and promptly addressed. donesia.Examples: In- donesia.strength- ens public discourse43-46: Platforms align with national regulations for user safety.Metrics: Social Media Toxici- ty Index ~50%; with lim-			transparency tools, gaining	
media strength- ens public discourse with lim-rare and promptly addressed. Hatforms align with ational regulations for user safety.donesia.Metrics: Social Media ty Index ~50%; trust in plat-			public trust.	
strength- ens public discourse with lim-43-46: Platforms align with national regulations for user safety.Metrics: Social Media Toxici- ty Index ~50%; trust in plat-	40-49	Social	40–42: Harmful content is	Examples: In-
ens public discourse with lim-national regulations for user safety. 47-49: Social media fostersMedia Toxici- ty Index ~50%; trust in plat-		media	rare and promptly addressed.	donesia.
discourse safety. ty Index ~50%; with lim- 47–49: Social media fosters trust in plat-		strength-	43–46: Platforms align with	Metrics: Social
with lim- 47-49: Social media fosters trust in plat-		ens public	national regulations for user	Media Toxici-
1		discourse	safety.	ty Index ~50%;
		with lim-	47–49: Social media fosters	trust in plat-
		itations.	productive debates in urban	forms ~50%.
and semi-urban regions.			and semi-urban regions.	
50–59 Social 50–52: AI-driven moderation Examples:	50-59	Social	50–52: AI-driven moderation	Examples:
media significantly improves user Malaysia.		media	significantly improves user	Malaysia.
becomes experience. Metrics: Social		becomes	experience.	Metrics: Social
a reliable 53–56: Public trust grows as Media Toxicity		a reliable		Media Toxicity
platform harmful content declines.		platform	harmful content declines.	

		00111111	ation of the table
	for engage-	57–59: Platforms enhance	Index ~40%;
	ment.	their role in civic engagement.	trust in plat-
			forms ~60%.
60-69	Social me-	60–63: Platforms actively pro-	Examples:
	dia fosters	mote education and civic par-	South Korea.
	societal	ticipation.	Metrics: Social
	growth and	64–66: Governments and plat-	Media Toxici-
	innovation.	forms collaborate effectively	ty Index ~30%;
		for transparency.	trust in plat-
		67–69: Social media strength-	forms ~70%.
		ens social cohesion and inno-	
		vation.	
70–79	Regional	70–73: Platforms set regional	- 1
	leader in	standards for ethical opera-	UAE.
	social me-	tions.	Metrics: Social
	dia innova-	74–76: Public trust in social	
	tion.	media reaches high levels.	ty Index ~20%;
		77–79: Platforms drive cultur-	trust in plat-
		al and economic growth.	forms ~80%.
80-89	Global	80-83: Platforms align ful-	Examples:
	leader in	ly with societal values and	
	ethical so-	norms.	Metrics: Social
	cial media	84–86: Social media enables	
	practices.	global cooperation and inno-	ty Index ~10%;
		vation.	trust in plat-
		87–89: Public discourse is en-	forms ~90%.
		riched by social media contri-	
		butions.	
90–100	World-class	90–93: Platforms integrate	-
	social me-	seamlessly into social and eco-	
	dia influ-	nomic development.	Metrics: Social
	ence.	94–96: Nation defines global	
		standards for ethical social	ty Index ~0%;
		media use.	trust in plat-
		97–100: Public trust in plat-	forms ~95%.
		forms is nearly universal.	

Technological Factors 1. Technological Factors: Technological Infrastructure

Score	Descrip-	Clear Guidance for Finer	Examples and
Range	tion	Gradations	Metrics*
1-9	Virtually no technolog- ical infra- structure.	 1-3: Internet and electricity are inaccessible to the majority. 4-6: Urban areas have intermittent connectivity; rural areas are entirely offline. 7-9: Critical sectors (e.g., healthcare) lack basic technological tools. 	Examples: Chad. Metrics: Inter- net penetration <5%; mobile subscriptions <10 per 100
10-19	Extremely limited in- frastructure with minor advance- ments.	 10-12: Basic telecommunications infrastructure exists in urban centers. 13-15: Mobile networks are operational but unreliable. 16-19: Initial investment in broadband infrastructure begins. 	people. Examples: Af- ghanistan. Metrics: Inter- net penetration ~10%; mobile subscriptions ~20 per 100 people.
20-29	Limited infrastruc- ture with emerging improve- ments.	 20-22: Urban areas see increasing access to 3G/4G networks; rural regions remain disconnected. 23-26: Public-private partnerships fund basic technology expansion. 27-29: Key sectors adopt limited technological tools. 	Examples: Sudan. Metrics: Internet penetration ~20%; mobile subscriptions ~30 per 100 people.
30–39	Moderate infrastruc- ture with noticeable gaps.	 30-33: Broadband access expands to secondary cities. 34-36: Government implements early-stage digital policies. 37-39: Key industries adopt technological solutions inconsistently. 	Examples: Ni- geria. Metrics: Inter- net penetration ~30%; mobile subscriptions ~50 per 100 people.

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40-49	Moderate	40–42: Internet access is sta-	Examples: In-
	infrastruc-	ble in urban areas; rural ar-	donesia.
	ture with	eas see incremental progress.	Metrics: Inter-
	increasing	43-46: Policies focus on expand-	net penetration
	integration.	ing broadband penetration.	~40%; broad-
		47-49: Key sectors (e.g., edu-	band subscrip-
		cation, healthcare) integrate	tions ~30 per
		digital tools steadily.	100 people.
50-59	Reliable in-	50–52: Internet access is	Examples:
	frastructure	widespread in cities; rural re-	Vietnam.
	support-	gions catch up.	Metrics: Inter-
	ing urban	53–56: Government digital	net penetration
	growth.	policies drive e-governance.	~50%; mobile
		57-59: Businesses adopt ad-	broadband sub-
		vanced digital tools.	scriptions ~40
			per 100 people.
60-69	Well-devel-	60–63: High-speed internet is	Examples:
	oped infra-	widely available in urban and	Malaysia.
	structure	semi-urban areas.	Metrics: Inter-
	supporting	64–66: Government policies	net penetration
	regional	support tech startups and dig-	~70%; mobile
	leadership.	ital transformation.	broadband sub-
		67-69: Key industries (e.g.,	scriptions ~60
		manufacturing) adopt cut-	per 100 people.
		ting-edge technologies.	
70-79	Regional	70–73: Nation leads in region-	Examples: Po-
	benchmark	al technology adoption and in-	land.
	for infra-	novation.	Metrics: Inter-
	structure.	74-76: Public- private initia-	net penetration
		tives ensure near-universal	~80%; broad-
		internet access.	band speed >50
		77-79: Technological infra-	Mbps.
		structure drives economic	
		growth.	
80-89	Global lea-	80–83: Near-universal access	Examples:
	der in tech-	to high-speed broadband.	Germany.
	nological		

			, ,
	infrastruc- ture.	 84-86: Advanced technologies (e.g., 5G, IoT) support key industries. 87-89: Infrastructure supports sustained innovation and growth. 	net penetration ~90%; broad- band speed >100 Mbps.
90–100	World-class technolog- ical infra- structure.	 90-93: Seamless integration of cutting-edge technologies across all sectors. 94-96: Digital transformation drives societal and economic innovation. 97-100: Infrastructure sets global benchmarks for speed, reliability, and accessibility. 	South Korea. Metrics: Inter- net penetration ~100%; broad- band speed

2. Technological Factors: Cybersecurity Preparedness

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1–9	Virtually	1–3: Cyberattacks routine-	Examples: So-
	no cyber-	ly disrupt public and private	malia.
	security	systems.	Metrics: Glob-
	measures;	4–6: Critical infrastructure	al Cybersecuri-
	critical vul-	lacks basic protection; data	ty Index (GCI)
	nerabilities.	breaches are common.	<10; cyber-
		7-9: Government has no	attack losses
		framework for cybersecurity.	>5% GDP.
10-19	Minimal	10–12: Limited cybersecurity	Examples: Af-
	cybersecu-	policies fail to prevent major	ghanistan.
	rity mea-	incidents.	Metrics: GCI
	sures with	13–15: Private sectors initiate	~10–20; data
	frequent	isolated protective measures.	breach inci-
	disruptions.	16-19: Government begins draft-	dents ~50/year.
		ing cybersecurity frameworks.	

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20–29	Basic cy-	20–22: Early-stage regulatory	
	bersecurity	frameworks target public sec-	-
	efforts with	tor systems.	Metrics: GCI
	significant	23–26: Isolated industries im-	/ /
	gaps.	plement cybersecurity best	
		practices.	~3% GDP.
		27–29: Government partners	
		with international organiza-	
		tions for capacity building.	
30-39	Moderate	30–33: Cybercrime task forces	Examples:
	cybersecuri-	address domestic threats.	Kenya.
	ty measures	34–36: Public awareness cam-	Metrics:
	with ex-	paigns reduce phishing and	GCI ~30–40;
	panding	fraud.	cyberattack
	capabilities.	37-39: Key sectors (e.g., fi-	incidents
		nance) achieve basic cyberse-	~100/year.
		curity compliance.	
40-49	Reliable	40-42: Government imple-	Examples: In-
	cybersecu-	ments cybersecurity policies	donesia.
	rity mea-	nationwide.	Metrics: GCI
	sures with	43–46: Private-public part-	~40–50; cyber-
	coordinated	nerships strengthen critical	attack losses
	efforts.	infrastructure protection.	<2% GDP.
		47-49: Businesses adopt stan-	
		dardized cybersecurity protocols.	
50-59	Advanced	50–52: Cybercrime rates decline	Examples:
	cybersecuri-	due to effective enforcement.	Vietnam.
	ty measures	53–56: International collabo-	Metrics: GCI
	in urban	rations enhance national ca-	~50–60; cy-
	centers.	pabilities.	berattack inci-
		57–59: E-governance systems	dents ~50/year.
		achieve high-security stan-	
		dards.	
60-69	Robust	60–63: Cybersecurity laws	Examples:
1	nobusi		
	national cy-	align with international best	Malaysia.
			Malaysia. Metrics: GCI

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		64–66: Digital sectors adopt advanced threat detection systems.67–69: Nation leads regionally in cybersecurity innovation.	
70–79	Regional benchmark for cyberse- curity.	 70-73: Cybersecurity training programs strengthen workforce capabilities. 74-76: Businesses use AI-driven cybersecurity tools. 77-79: Country prevents significant cyberattacks consistently. 	land. Metrics: GCI ~70–80; no critical in- frastructure
80-89	Global lead- er in cyber- security.	 80-83: Nation actively prevents cross-border cybercrime. 84-86: AI and blockchain solutions enhance cybersecurity resilience. 87-89: Private sector innovations drive global cybersecurity standards. 	Germany. Metrics: GCI ~80–90; neg- ligible cyber-
90–100	World-class cybersecu- rity readi- ness.	 90-93: Cybersecurity strategies integrate seamlessly across sectors. 94-96: Nation leads international coalitions for cybersecurity. 97-100: Country is virtually immune to cyberattacks. 	South Korea. Metrics: GCI ~95–100; cy-

Score **Descrip-Clear Guidance for Finer** Examples and Metrics* tion Gradations Range 1 - 9Deep digi-**1–3:** Internet and technology **Examples:** access is a luxury, restricted Chad. tal divide; to elites. Metrics: Intermost popu-4-6: Urban areas see mini- net penetration lation lacks access mal connectivity; rural areas <10%; gender are entirely offline. tech gap $\sim 50\%$. 7-9: Gender and income disparities exacerbate access gaps. 10-12: Government pilots Examples: Af-Severe dig-10-19 ital divide limited initiatives to expand ghanistan. with emergconnectivity. Metrics: Inter-**13–15:** Mobile technology net penetration ing access reaches urban elites but ex- $|\sim 20\%$; points. mobile cludes marginalized groups. ownership gap **16–19:** Urban-rural divide ~40%. shows minor improvements. 20 - 29Significant 20-22: Public-private part- Examples: Nidivide with nerships expand basic congeria. Metrics: Intervisible nectivity to rural areas. 23–26: Marginalized groups net penetration efforts to close gaps. gain access to mobile and in-~30%; gender gap ~30%. ternet technologies. **27–29:** Schools and hospitals adopt limited digital solutions. 30 - 39Moderate **30–33:** Urban-rural access **Examples:** divide with gap narrows through target- Kenya. steady ed programs. Metrics: Inter-**34–36:** Low-cost devices im- net penetration progress. prove affordability. ~40%; rural con-**37–39:** Government subsi- nectivity ~25%. dies enhance access for vulnerable populations.

3. Technological Factors: Digital Divide

		Continue	iation of the table
40-49	Manageable	40–42: Affordable technology	Examples: In-
	divide with	reduces access barriers.	donesia.
	near-uni-	43–46: Public policies focus	Metrics: Inter-
	versal	on equitable digital inclu-	net penetration
	access in	sion.	~50%; rural con-
	urban ar-	47–49: Connectivity gaps in	nectivity ~40%.
	eas.	rural regions persist but de-	
		cline steadily.	
50-59	Minimal	50-52: Urban and semi-ur-	Examples:
	divide with	ban areas achieve near-uni-	Vietnam.
	widespread	versal access.	Metrics: Inter-
	connectiv-	53–56: Rural areas see rapid	net penetration
	ity.	technological adoption.	~60%; rural con-
		57–59: Schools and busi-	nectivity ~50%.
		nesses fully integrate digital	
		tools.	
60-69	Narrow	60–63: Digital infrastructure	Examples: Ma-
	divide with	supports remote areas effec-	laysia.
	robust	tively.	Metrics: Inter-
	inclusion	64-66: Gender and income	net penetration
	strategies.	access gaps are negligible.	~70%; rural con-
	_	67-69: Nation leads regional-	nectivity ~60%.
		ly in digital inclusivity.	
70-79	Regional	70-73: Public and private	Examples: Po-
	leader in	sectors ensure equitable ac-	land.
	digital	cess.	Metrics: Inter-
	equity.	74–76: Connectivity drives	net penetration
		social and economic inclusion.	~80%; rural con-
		77-79: Digital literacy pro-	nectivity ~75%.
		grams ensure effective use of	
		technology.	
80-89	Global	80–83: Universal access with	Examples: Ger-
	leader in	minimal disparities.	many.
	bridging	84–86: Digital technologies	Metrics: Inter-
	the digital	drive social equality.	net penetration
	divide.	87–89: Nation exports digital	~90%; gender
		inclusion models globally.	gap <5%.

		Continu	uation of the table
90-100	Exemplary	90–93: Entire population has	Examples:
	digital in-	seamless access to technology.	South Korea.
	clusivity.	94–96: Digital equity enhan-	Metrics: Inter-
		ces all aspects of develop-	net penetration
		ment.	~100%; rural
		97–100: Nation sets global	connectivity
		standards for digital inclu-	~95%.
		sion.	

Demographic Factors 1. Demographic Factors: Population Growth Rate

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1-9	Population growth is unsustain- able and de- stabilizing.	4–6: Fertility rates remain excessively high, with no	ger. Metrics: Popu- lation growth >4% annually; urban slums >50% of popula-
10–19	Very high growth with emerging mitigation efforts.	 10-12: Government struggles to implement basic family planning policies. 13-15: Fertility rates begin to decline slightly in urban areas. 16-19: Economic opportunities fail to match population growth. 	malia. Metrics: Popu- lation growth ~3.5%; fertility rate ~5 children

		Contint	iation of the table
20-29	High growth		Examples:
	with visible	begin to lower fertility rates.	Ethiopia.
	demograph-	23–26: Urban areas adapt	-
	ic transi-	moderately to growth pres-	lation growth
	tions.	sures.	~3%; urban
		27–29: Growth starts to	infrastructure
		align with basic resource	development
		availability.	~25%.
30–39	Moderate	30–33: National strategies	Examples: Ke-
	growth with	reduce growth pressures on	nya.
	improving	urban infrastructure.	Metrics: Popu-
	resource	34–36: Fertility rates decline	lation growth
	alignment.	significantly with improved	$\sim 2.5\%$; fertility
		healthcare.	rate ~4 children
		37–39: Growth stabilizes in	per woman.
		some regions but remains	
		a challenge elsewhere.	
40-49	Balanced	40–42: Fertility rates fall be-	Examples: In-
	growth in	low 3 in urban areas.	donesia.
	most re-		Metrics: Popu-
	gions.	resources align with popula-	lation growth
		tion needs.	~2%; fertility
		47–49: Government policies	
		encourage balanced growth	per woman.
		across regions.	
50-59	Sustainable	50–52: Healthcare and edu-	-
	growth with	cation improvements stabi-	Vietnam.
	minimal	lize growth rates.	Metrics: Popu-
	strain on	53-56: Rural-to-urban mi-	-
	resources.	gration is effectively man-	~1.8%; fertil-
		aged.	ity rate ~2.5
		57–59: Growth fuels eco-	children per
		nomic opportunities without	woman.
		overwhelming resources.	

		00111111	
60–69	Growth	60–63: Population policies	Examples: Ma-
	closely	align with sustainable devel-	laysia.
	matches	opment goals.	Metrics: Popu-
	economic	64–66: Urban and ru-	lation growth
	and resource	ral growth are balanced	~1.5%; fertility
	capacity.	through equitable resource	rate ~2 children
		allocation.	per woman.
		67–69: Growth enhances	
		long-term stability and eco-	
		nomic expansion.	
70–79	Low growth	70–73: Fertility rates stabi-	Examples: Po-
	rates ensure	lize at replacement levels.	land.
	long-term	74–76: Urban and rural ar-	Metrics: Popu-
	sustainabil-	eas both thrive economically.	lation growth
	ity.	77-79: Growth supports in-	~1%; fertility
		novation and economic di-	rate ~2 children
		versification.	per woman.
80-89	Near-zero	80–83: Replacement-level	Examples:
	growth with	fertility sustains population	Germany.
	long-term	size.	Metrics: Pop-
	demograph-	84-86: High productivity off-	ulation growth
	ic stability.	sets low growth rates.	~0.5%; fertility
		87-89: Long-term stability	rate ~1.9 chil-
		enhances global competitive-	dren per wom-
		ness.	an.
90-100	World-class	90–93: Population growth is	Examples: Fin-
	demograph-	fully sustainable, with negli-	land.
	ic balance.	gible strain.	Metrics: Popu-
		94–96: Nation leads global	lation growth
		benchmarks in population-	~0%; fertility
		resource alignment.	rate ~2 children
		97–100: Growth policies	per woman.
		support economic and envi-	
		ronmental harmony.	

Score **Descrip-Clear Guidance for Finer Examples and** Metrics* Range tion Gradations 1 - 9Urban-**1–3:** Urban sprawl domi- **Examples:** Haiization is nates; infrastructure and ti. services collapse. chaotic and Metrics: Urban destabiliz-**4–6:** Informal settlements population >50% grow unchecked, with no baing. in slums; infrasic services. structure deficit 7-9: Government fails to man->60%. age migration; overcrowding leads to widespread poverty. 10-12: Basic infrastructure **Examples**: La-Very rapid 10 - 19urbanizalags far behind migration gos, Nigeria. tion with rates. Metrics: Urban **13–15:** Cities struggle with growth rate minimal planning. ~5%; slum popusanitation. housing, and transport crises. lation >40%. 16-19: Urbanization benefits are limited to elites: marginalized populations are excluded. 20 - 29High ur-**20–22:** Pilot programs im- **Examples:** Naiprove housing and transport robi, Kenya. banization rates with in select cities. Metrics: Urban 23-26: Public-private partgrowth rate early-stage planning. nerships address urban ~4%; slum population $\sim 30\%$. challenges. 27-29: Urban infrastructure begins expanding to secondary cities. **30–33:** Affordable housing **Examples:** 30 - 39Moderate projects reduce slum popu-Jakarta, Indourbanization with lations. nesia. visible 34-36: Urban transport sys-Metrics: Urban progress in tems expand moderately. growth rate $\sim 3\%$; planning.

2. Demographic Factors: Urbanization Rate

	Continuation of the table			
		37–39: Secondary cities emerge as viable alterna- tives to overcrowded capi- tals.	slum population ~20%.	
40-49	Balanced urbaniza- tion with effective manage- ment.	 40-42: Cities implement green and sustainable urban planning policies. 43-46: Urban and rural areas see integrated economic development. 47-49: Public services adapt effectively to urban growth. 	Examples: Kuala Lumpur, Malaysia. Metrics: Urban growth rate ~2.5%; slum population <10%.	
50–59	Urbaniza- tion fuels economic develop- ment sus- tainably.	 50-52: Infrastructure investment outpaces urban growth. 53-56: Public transportation systems achieve significant coverage. 57-59: Urban areas contribute to regional economic integration. 	Examples: Ho Chi Minh City, Vietnam. Metrics: Urban growth rate ~2%; slum popu- lation <5%.	
60–69	Urbaniza- tion drives long-term stability and growth.	 60-63: Urbanization policies align with sustainable development goals. 64-66: Cities achieve global standards for livability. 67-69: Urban innovation hubs emerge as economic drivers. 	Examples: Seoul, South Korea. Metrics: Urban growth rate ~1.5%; livability index >80%.	
70–79	Regional leader in sustainable urbaniza- tion.	 70-73: Urban planning policies are adopted regionally. 74-76: Cities balance cultural heritage with modernization. 77-79: Urban centers drive economic growth while ensuring equity. 	Examples: Warsaw, Poland. Metrics: Urban growth rate ~1%; livability index ~85%.	

	Continuation of the table				
80–89	Global benchmark for urban- ization.	 80-83: Urbanization enhances national competitiveness. 84-86: Cities integrate cutting-edge technologies into governance. 87-89: Urban planning sets international standards for sustainability. 	lin, Germany. Metrics: Urban growth rate <1%; livability		
90–100	Exemplary urbaniza- tion model.	 90–93: Cities achieve seamless integration of livability, innovation, and sustainability. 94–96: Urbanization policies inspire global frameworks. 97–100: Urban centers consistently rank among the world's most livable. 	growth rate ~0%; livability		

3. Demographic Factors: Youth Bulge

Score Range	Descrip- tion	Clear Guidance for Finer Gradations	Examples and Metrics*
1–9	Youth bulge drives so- cial unrest and insta- bility.	 1-3: Youth unemployment exceeds 50%, fueling extremism and violence. 4-6: Education and job opportunities are virtually nonexistent. 7-9: Large segments of the youth population remain disengaged from society. 	ghanistan. Metrics: Youth unemployment
10–19	Youth bulge creates se- vere social tensions.	 10–12: Marginal education access limits job readiness. 13–15: Unemployment among youth sparks frequent protests. 	dan. Metrics: Youth

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		16–19: Informal economies	~40%; education
		absorb some youth, but in-	access ~40%.
		stability persists.	
20–29	Youth bulge	20–22: Skill-building pro-	Examples: Ke-
	challenges	grams emerge in urban areas.	nya.
	governance	23–26: Youth-focused poli-	Metrics: Youth
	but sees	cies gain traction but lack	unemployment
	initial prog-	funding.	~30%; skill
	ress.	27–29: Education reforms	training cover-
		begin to address unemploy-	age ~20%.
		ment.	_
30-39	Youth bulge	30–33: Vocational training	Examples: In-
	supports	programs expand signifi-	donesia.
	economic	cantly.	Metrics: Youth
	growth	34–36: Job creation schemes	unemployment
	with target-	reduce unemployment stea-	~25%; skill
	ed reforms.	dily.	training cover-
		37–39: Youth are engaged in	age ~40%.
		civic and social development	_
		projects.	
40-49	Youth bulge	40-42: Youth-led entrepre-	Examples: Vie-
	becomes	neurship increases economic	tnam.
	a demo-	diversity.	Metrics: Youth
	graphic	43–46: Education access im-	unemployment
	dividend.	proves across urban and ru-	~20%; education
		ral areas.	access ~60%.
		47–49: Youth participation	
		in governance strengthens	
		social stability.	
50–59	Youth drive	50–52: National policies in-	Examples: Ma-
	economic	tegrate youth development	laysia.
	innovation	across sectors.	Metrics: Youth
	and social	53–56: Higher education in-	unemployment
	cohesion.	stitutions align with market	~12%; tertiary
		needs.	education en-
		57–59: Youth unemployment	rollment ~40%.
		drops below 15%.	

	1		lation of the table
60–69	Youth bulge	60–63: Youth engagement	
	fosters	drives innovation in tech and	land.
	sustained	entrepreneurship.	Metrics: Youth
	economic	64–66: Public- private part-	unemployment
	growth.	nerships support youth job	~10%; education
		creation.	access $>70\%$.
		67–69: Nation leads regional-	
		ly in youth employment rates.	
70–79	Regional	70–73: Youth policies inspire	Examples:
	benchmark	regional collaboration.	South Korea.
	for youth	74–76: Public and private	Metrics: Youth
	develop-	sectors align to support	unemployment
	ment.	youth-driven innovation.	<8%; tertiary
		77–79: Youth satisfaction	education en-
		with governance and oppor-	rollment ~60%.
		tunities is high.	
80-89	Global lead-	80–83: Youth demographic	Examples:
	er in youth	drives global competitiveness.	Germany.
	engage-	84-86: National policies cre-	Metrics: Youth
	ment.	ate unparalleled opportuni-	unemployment
		ties for youth.	<5%; education
		87–89: Youth satisfaction	access >90%.
		ranks among the highest	
		globally.	
90-100	World-class	90–93: Youth play a pivotal	Examples: Fin-
	model for	role in governance, innova-	land.
	youth inclu-	tion, and sustainability.	Metrics: Youth
	sion.	94–96: Policies ensure inter-	unemployment
		generational equity and op-	<3%; tertiary
		portunity.	education en-
		97–100: Nation sets global	rollment ~95%.
		benchmarks for youth en-	
		gagement and development.	

* The GIRA Criteria examples are illustrative guides, not guaranteed representations of score ranges, and users must independently verify data for their evaluations. Miraziz Khidoyatov and affiliates disclaim all liability for outcomes arising from their use. Users assume full responsibility for applying the framework.

APPENDIX B

EPI CRITERIA

Score	Description	Clear Guidance for Finer	Exam-
Range	Description	Gradations	ples*
1-9	Critically deficient re- source base; negligible exploitable assets.	 1-3: No significant energy, mineral, or agricultural resources; severe resource scarcity. 4-6: Minimal resources (e.g., small- scale agriculture) with no export potential. 7-9: Limited arable land or water, insufficient for economic growth. 	Maldives, Somalia
10-19	Severely lim- ited resourc- es; marginal economic contribution.	 10-12: Small deposits of minerals or energy with low extraction feasibility. 13-15: Basic agricultural capacity supports subsistence but not exports. 16-19: Isolated resource finds (e.g., minor oil fields) with high extraction costs. 	Niger, Mali
20-29	Limited re- source wealth with emerg- ing potential.	 20-22: Modest agricultural output supports local markets; minor mineral deposits. 23-26: Small-scale energy resources (e.g., hydropower) begin contributing to GDP. 27-29: Investments in resource exploration yield incremental gains. 	Uganda, Paraguay
30–39	Moderate resource wealth; sup- ports eco- nomic diver- sification.	30–33: Agricultural exports grow but face scalability issues. 34–36: Energy or mineral re- sources (e.g., coal, copper) cont- ribute significantly to trade. 37–39: Sustainable resource ma- nagement policies enhance long- term potential.	Ghana, Ecuador

1. Natural Resource Wealth (NRW)

		Continuation	of the table
40-49	Balanced	40-42: Diverse agricultural out-	Indonesia,
	resource	puts support regional trade.	Columbia
	wealth;	43–46: Energy or mineral sectors	
	drives eco-	attract foreign investment.	
	nomic stabil-	47-49: Resource wealth inte-	
	ity.	grates with industrial growth, re-	
		ducing dependency risks.	
50-59	Strong	50–52: Agriculture and energy	Brazil,
	resource	sectors are globally competitive.	Argentina
	wealth; fuels	53–56: Mineral resources (e.g., rare	_
	national	earths) drive high-value exports.	
	growth.	57–59: Resource diversification mi-	
		tigates commodity price volatility.	
60-69	Robust	60-63: Energy exports (e.g., oil,	Russia,
	resource	gas) dominate global markets.	Australia
	wealth; sup-	64–66: Agricultural innovation	
	ports regional	boosts yields and sustainability.	
	leadership.	67-69: Resource wealth under-	
		pins industrial and technological	
		advancement.	
70–79	High resource	70–73: Diverse resources support	Venezue-
	wealth;	multiple industries.	la, Ka-
	drives eco-	74–76: Sustainable extraction po-	zakhstan
	nomic resil-	licies align with global standards.	
	ience.	77–79: Resource wealth fosters	
		innovation (e.g., green energy).	
80-89	Benchmark-	80-83: Nation leads in energy or	Qatar,
	level resource	mineral exports.	Kuwait
	wealth; glob-	84-86: Agricultural potential su-	
	al influence.	pports food security and trade.	
		87–89: Resource policies set region-	
		al benchmarks for sustainability.	
90-100	World-class	90–93: Resources drive unparal-	UAE
	resource	leled economic growth.	
	wealth; global	94–96: Nation shapes global reso-	
	leadership.	urce markets (e.g., OPEC influence).	
		97–100: Sustainable resource ma-	
		nagement sets global standards.	

2. Population Scale (PS)

Score Range	Description	Clear Guidance for Finer Gradations	Exam- ples*
1-9	Critically low or un- sustainable population dynamics.	 1-3: Tiny population (<1M) with high dependency ratio (>100%); no youth bulge. 4-6: Aging population with de- clining birth rates; severe labor shortages. 7-9: Minimal population growth, threatening economic viability. 	Monaco, Vatican City
10–19	Very small or declining pop- ulation; lim- ited economic potential.	10–12: Population <5M with low youth bulge (<10%); high emigra- tion. 13–15: Aging demographics with birth rates below replacement (<1.5). 16–19: Isolated urban growth but rural depopulation.	Malta, Latvia
20–29	Small popu- lation with emerging demographic potential.	20–22: Population 1.5–2) support slow growth. 27–29: Urbanization boosts labor force participation.	Serbia, Slovenia
30–39	Moderate population with bal- anced demo- graphics.	 30-33: Population 15%) drives labor growth. 34-36: Dependency ratio improves (~70-80%); education access expands. 37-39: Demographic dividend begins to emerge. 	Chile, Tunisia
40-49			Malaysia, Peru

		Continuation	of the tuble
50-59	Strong pop-	50–52: Population 25%) drives in-	
	ulation base;	novation.	South
	significant	53–56: Low dependency ratio	Africa
	demographic	(~40–50%) supports economic	
	dividend.	growth.	
		57–59: Urban and rural demo-	
		graphics align for balanced deve-	
		lopment.	
60–69	Robust	-	Donalo
00-09		60–63: Population 30%) maximiz-	Bangla-
	population	es labor force.	desh,
	with region-	64–66: Education systems pro-	Nigeria
	al economic	duce skilled workers.	
	influence.	67-69: Demographic policies en-	
		sure sustainable growth.	
70-79	Large popu-	70-73: Population 35%) fuels in-	Ethiopia,
	lation driv-	dustrial growth.	Pakistan
	ing national	74–76: High workforce participa-	
	growth.	tion enhances productivity.	
	0	77–79: Nation leverages demo-	
		graphics for regional leadership.	
80-89	Benchmark-	80–83: Population 40%) drives	India,
	level popu-	global markets.	Nigeria
	lation scale;	84–86: Education and health sys-	
	global influ-	tems optimize demographic divi-	
	ence.	dend.	
	ciice.	87–89: Demographic policies set	
		regional standards.	
90-100	World-class	90–93: Population >1B; youth	No exam-
30-100	population	bulge (>45%) shapes global econ-	ples fit
			pies iit
	scale; global	omy.	
	leadership.	94–96: Nation leads in workforce	
		innovation and productivity.	
		97–100: Demographic stability	
		ensures long-term global domi-	
		nance.	

Score Range	Description	Clear Guidance for Finer Gradations	Exam- ples*
1-9	Critically isolated; no strategic position.	 1-3: Landlocked with no access to trade routes; no ports or connectivity. 4-6: Poor infrastructure isolates the country from regional markets. 7-9: Minimal trade links with neighboring countries. 	Chad, South Sudan
10–19	Severely lim- ited strategic position.	 10-12: Landlocked with rudimentary roads; trade dependent on distant ports. 13-15: Minor connectivity to one neighbor; no bloc membership. 16-19: Basic infrastructure supports limited regional trade. 	Burkina Faso, Nepal
20–29	Limited stra- tegic position with emerg- ing connectivity.	20–22: Improved roads connect to one trade route; small ports exist. 23–26: Peripheral membership in a regional bloc (e.g., ECOWAS). 27–29: Investments in logistics begin to enhance trade links.	Paraguay, Uganda
30–39	Moderate strategic position; sup- ports region- al trade.	 30-33: Access to regional trade routes; small but functional ports. 34-36: Active participation in one economic bloc. 37-39: Logistics improvements reduce trade costs significantly. 	Bolivia, Zambia
40-49	Balanced strategic position; enhances economic stability.	 40-42: Multiple trade routes connect to regional hubs; ports support exports. 43-46: Strong bloc membership (e.g., ASEAN) boosts connectivity. 47-49: Logistics performance attracts regional investment. 	Sri Lanka, Morocco

3. Strategic Geographic Position (SGP)

Continuation	of the	table
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	Continuation of the tuble						
50-59	Strong strate-	50–52: Major ports handle region-	Malaysia,				
	gic position;	al trade; multiple bloc member-	South				
	drives region-	ships.	Africa				
	al growth.	53–56: Logistics infrastructure					
		supports efficient trade flows.					
		57–59: Proximity to trade blocs					
		enhances global market access.					
60-69	Robust stra-	60-63: Ports and trade routes	Thailand,				
	tegic posi-	dominate regional logistics.	Turkey				
	tion; regional	64–66: Nation leverages connec-					
	leadership.	tivity for economic influence.					
		67–69: Infrastructure supports					
		rapid trade expansion.					
70-79	High strate-	70–73: Major global trade routes	Hong				
	gic position;	pass through the country.	Kong,				
	global trade	74–76: Logistics performance ri-	UAE				
	influence.	vals global leaders.					
		77–79: Nation shapes regional					
		trade policies via bloc leadership.					
80-89	Benchmark-	80–83: Ports and logistics are	Singa-				
	level strategic	world-class; multiple bloc leader-	pore,				
	position;	ship roles.	South				
	global hub.	84–86: Nation drives global trade	Korea				
	-	efficiency.					
		87–89: Connectivity policies set					
		regional standards.					
90-100	World-class	90–93: Nation is a global trade	China,				
	strategic po-	hub; ports handle massive vol-	Singapore				
	sition; global	umes.	Ŭ.				
	leadership.	94–96: Connectivity shapes global					
	-	trade flows.					
		97–100: Logistics and bloc influ-					
		ence set global benchmarks.					

Score	Descrip-	Clear Guidance for Finer	Examples*
Range	tion	Gradations	Examples*
1-9	Negligible innovation and entre- preneurship; no digital presence.	 1-3: No internet or startup activity; innovation absent. 4-6: Minimal mobile usage (<10%); no formal startups. 7-9: Isolated digital access in urban areas; entrepreneurship limited to informal markets. 	South Sudan, Eritrea
10–19	Severely limited innovation; rudimentary digital adop- tion.	 10-12: Basic mobile networks; startups rare and unsupport- ed. 13-15: Internet access (<20%) in urban hubs; informal entre- preneurship. 16-19: Early digital policies; nascent startup ecosystems. 	Haiti, Yemen
20–29	Limited innovation with emerg- ing digital and startup activity.	20–22: Mobile penetration grows (~30%); startups face regulatory barriers. 23–26: Digital access expands to secondary cities; small incu- bators emerge. 27–29: Government pilots startup support; innovation policies begin.	Uganda, Bo- livia
30–39	Moderate innovation; growing digital and entrepre- neurial ecosystems.	 30-33: Internet penetration (~40%) supports e- commerce; startups grow in urban areas. 34-36: Regulatory reforms ease business creation. 37-39: Innovation hubs attract regional investment. 	Kenya, Peru

4. Innovation and Entrepreneurship (IE)

Continuation of the table					
40–49	Balanced	40–42: Digital adoption (~50%)	Indonesia, Co-		
	innovation;	drives economic activity; start-	lombia		
	stable digital	ups scale locally.			
	and startup	43-46: Incubators and accel-			
	ecosystems.	erators support entrepreneur-			
		ship.			
		47–49: Innovation policies			
		align with regional standards.			
50 - 59	Strong inno-	50–52: High mobile penetra-	Brazil, South		
	vation; ro-	tion (~60%); startups attract	Africa		
	bust digital	venture capital.			
	and entre-	53–56: Digital infrastructure			
	preneurial	supports SMEs; innovation			
	growth.	hubs thrive.			
		57–59: Nation emerges as a re-			
		gional startup leader.			
60–69	High innova-	60–63: Internet penetration	Malaysia,		
	tion; region-	(~70%) enables digital econo-	Chile		
	al leadership	my; startups export globally.			
	in digital	64-66: Policies foster tech in-			
	and start-	novation (e.g., AI, fintech).			
	ups.	67–69: Nation rivals global			
		leaders in startup ecosystems.			
70–79	Benchmark-	70–73: Digital adoption (~80%)	Israel, Esto-		
	level innova-	drives cross-sector innovation.	nia		
	tion; global	74–76: Startup ecosystems at-			
	startup	tract global investors.			
	influence.	77–79: Nation sets regional			
		benchmarks for digital and en-			
		trepreneurial growth.			
80-89	Global lead-	80–83: Near-universal digital	Singapore,		
	er in inno-	access (~90%); startups lead	South Korea		
	vation and	global markets.			
	entrepre-	84–86: Innovation policies			
	neurship.	drive tech unicorns.			
		87–89: Nation shapes global			
		digital and startup trends.			

Continuation	of the	table
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9	0 - 100	World-class	90-93: Digital economy domi-	USA, Switzer-
		innovation	nates; startups set global stan-	land
		and entre-	dards.	
		preneurship.	94–96: Nation leads in AI, fin-	
			tech, and green tech innova-	
			tion.	
			97–100: Unparalleled startup	
			ecosystem drives global eco-	
			nomic growth.	

* The EPI Criteria examples are illustrative guides, not guaranteed representations of score ranges, and users must independently verify data for their evaluations. Miraziz Khidoyatov and affiliates disclaim all liability for outcomes arising from their use. Users assume full responsibility for applying the framework.

APPENDIX C

COMPASS STRESS TEST WORKSHEET

Appendix C: COMPASS Stress Test Worksheet

Instructions

1. Enter Baseline Scores: Record the market's GIRA, EPI, and SIAS scores (1–100) in the respective tables.

2. Perform Scenario-Based Testing (Table 1): Apply the four scenarios (Optimistic, Pessimistic, Mixed, Correlated) by adjusting scores as specified, then recalculate the COMPASS score (COMPASS = $(0.5 \times \text{GIRA}) + (0.2 \times \text{EPI}) + (0.3 \times \text{SIAS})$). Note: Cap EPI at 100 before weighting.

3. Conduct Sensitivity Check (Table 2): Adjust GIRA by ±5, keeping EPI and SIAS constant, and recalculate COMPASS.

4. Apply Override Rule (Table 3): If any COMPASS score is <50, check if EPI > 85, SIAS > 65, GIRA \ge 40 to flag for due diligence.

5. Interpret Results: Use the decision guidance to determine next steps (Proceed, Take Closer Look, Reject).

Table 1 Scenario-Based Testing (Example: Uzbekistan)

Enter baseline scores and apply adjustments for each scenario. Calculate COMPASS scores and note changes.

Market	Scenario	GIRA	EPI	SIAS	COM- PASS	Chan- ge	Interpreta- tion
Uzbeki- stan	Original	48.4	98.26	62.6	62.6	-	Viable (50–74)
	Optimistic (GIRA +10)	58.4	98.26	62.6	67.6	+5.0	Viable, strengthened
	Pessimistic (GIRA-10)	38.4	98.26	62.6	57.6	-5.0	Viable, re- duced
	Mixed (EPI +5, GIRA +2, SIAS -5)	50.4	100*	57.6	62.6	±0	Viable, stable
	Correlated (GIRA-10, SIAS -5)	38.4	98.26	57.6	56.1	-6.5	Viable, re- duced
Your Mar- ket: [Insert Name]	Original	[En- ter]	[En- ter]	[En- ter]	[Calcu- late]	-	[≥75: Prime; 50–74: Via- ble; <50: High Risk]
	Optimistic (GIRA +10)	[GIRA +10]	[EPI]	[SIAS]	[Calcu- late]	[±]	[Interpret]
	Pessimistic (GIRA – 10)	[GIRA -10]	[EPI]	[SIAS]	[Calcu- late]	[±]	[Interpret]
	Mixed (EPI +5, GIRA +2, SIAS -5)	[GIRA +2]	[EPI +5]*	[SIAS _5]	[Calcu- late]	[±]	[Interpret]
	Correlated (GIRA – 10, SIAS –5)	[GIRA -10]	[EPI]	[SIAS -5]	[Calcu- late]	[±]	[Interpret]

* Cap EPI at 100 before applying the 0.2 weight.

Interpretation Guidance:

- **Optimistic**: Higher stability signals upside potential.
- **Pessimistic**: Scores ≥ 50 show resilience; <50 flag risks.
- Mixed: Stability offsets strategic dips, maintaining viability.
- **Correlated**: Dual shocks test robustness; ≥ 50 indicates strength.

Decision:

- If all COMPASS scores are ≥ 50 , proceed to Sensitivity Check.
- If any score is <50, proceed to Sensitivity Check and evaluate Override Rule.
- If all scores are \geq 75 (rare), stop and plan immediate expansion.

Table 2

Sensitivity Check (Example: Germany)

Adjust GIRA by ± 5 , keeping EPI and SIAS constant, to test COMPASS stability.

Market	Scenario	GIRA	EPI	SIAS	COM- PASS	Chan- ge	Interpre- tation
Germa- ny	Original	76.1	58.44	64.5	69.1	-	Viable (50–74)
	Lower GIRA (GIRA-5)	71.1	58.44	64.5	66.6	-2.5	Viable, stable
	Higher GIRA (GIRA +5)	81.1	58.44	64.5	71.6	+2.5	Viable, enhanced
Your Market: [Insert Name]	Original	[Enter]	[Enter]	[Enter]	[Enter]	-	[Interpret]
	Lower GIRA (GIRA –5)	[GIRA -5]	[EPI]	[SIAS]	[Calcu- late]	[±]	[≥50: Stable; <50: Vulnera- ble]
	Higher GIRA (GIRA +5)	[GIRA +5]	[EPI]	[SIAS]	[Calcu- late]	[±]	[≥50: Enhanced; <50: Vul- nerable]

Interpretation Guidance:

- Lower GIRA: COMPASS change <5 points indicates stability; ≥5 points suggests caution.
- **Higher GIRA**: Enhanced scores show upside; <50 flags risks.

Decision:

- If COMPASS remains ≥ 50, proceed to Override Rule (if needed).
- If COMPASS drops <50, evaluate Override Rule.
- Note sensitivity >5 points for cautious planning.

Table 3

Override Rule Checklist (Example: Myanmar)

If any COMPASS score is <50, check criteria to determine if the market warrants further review.

Market	Criteria	Value	Meets Threshold?	Action
Myanmar	EPI > 85	66.36	No	Reject unless unique factors apply
	SIAS > 65	20.9	No	-
	$GIRA \ge 40$	33.7	No	-
Your Market: [Insert Name]	EPI > 85	[Enter]	[Yes/No]	[If Yes, proceed to the SIAS; else reject]
	SIAS > 65	[Enter]	[Yes/No]	[If Yes, proceed to the GIRA; else reject]
	GIRA \geq 40	[Enter]	[Yes/No]	[If all Yes, proceed to due diligence; else reject]

Action Guidance:

- **Meets All Criteria**: Mark for due diligence (e.g., legal analysis, partner scans; see Section 2.7).
- **Does Not Meet Criteria**: Reject unless unique factors (e.g., exclusive partnerships) justify retention.

Decision Guidance

Based on Tables 1–3, determine the market's viability:

- **Proceed with Confidence**: COMPASS ≥ 50 across all scenarios, sensitivity <5 points. Plan expansion (e.g., feasibility studies, partnerships).
- **Take Closer Look**: COMPASS <50 but meets override criteria (EPI > 85, SIAS > 65, GIRA ≥ 40) or borderline (48–52). Conduct targeted due diligence or pilot projects.
- **Reject**: COMPASS <50, no override criteria met. Redirect resources unless exceptional factors apply.
- **Stop**: If COMPASS \geq 75 in all scenarios, proceed immediately with full-scale expansion.

Example Decisions:

- Uzbekistan (Table 1): COMPASS ranges 56.1–67.6, sensitivity <5 points → Proceed with Confidence for phased entry, prioritizing agricultural synergies (Section 3.2.7).
- Germany (Table 2): COMPASS ranges 66.6–71.6, sensitivity <5 points → Proceed with Confidence, leveraging infrastructure and regulatory clarity.
- **Myanmar (Table 3)**: COMPASS = 36.4, does not meet override criteria → Reject unless unique factors apply.

Notes:

- Recalculate COMPASS scores iteratively as new data emerges to refine results.
- Document all data sources and qualitative judgments for transparency.
- Consult Section 2.5 for detailed stress test methodology and theoretical foundations.

SCIENTIFIC EDITIONS

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