IGRIS Intelligence Flow Schema

Signals → Indicators → Drivers → Outcomes · ARAC International · Quanta Analytica

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Data Acquisition **Signal Detection** **Indicator Validation** **Driver Analysis** **Outcome Forecast** **Strategic Integration**

1. Data Acquisition Layer

Sources: RSS, ReliefWeb, UN, ACLED, OSINT, CISA, partner feeds, NGO SitReps, social media analysis, LLM agents

2. Signal Detection Layer

Identify discrete observable changes

Keyword and entity clustering, severity weighting, temporal mapping, geo normalization
Output: Signals = raw observations of change

3. Indicator Validation Layer

Validate which signals repeat or aggregate into patterns

Temporal clustering, cross domain correlation, confidence scoring, baseline comparison
Output: Indicators = verified trends confirming change

4. Driver Analysis Layer

Determine root causes and systemic forces

Frameworks: PESTELS, Positive Peace, INSSA, ISO 31000, CARVER, SATs (ACH, What if, red team)
Output: Drivers = fundamental variables creating the indicators

5. Outcome Forecast Layer

Model plausible futures and operational risk outcomes

Monte Carlo simulation, scenario building, sensitivity analysis, resilience feedbacks
Output: Outcomes = actionable foresight

6. Strategic Integration and Response

Convert intelligence into decision guidance

ISO 31000 response planning, INSSA risk treatment, GSOC alerting, strategic communications

Integrated Frameworks

CARVER
Criticality, Accessibility, Recuperability, Vulnerability, Effect, Recognizability

PESTELS
Political, Economic, Social, Technological, Environmental, Legal, Security

Positive Peace
Systems resilience pillars

ISO 31000
Risk management standard

INSSA
NGO security competencies

Structured Analytic Techniques
ACH, What if, red team, Indicators and Signposts

About this diagram

This single file HTML uses an inline SVG that scales to any viewport and prints cleanly.

- **Signals**: first observations of change
- **Indicators**: pattern verified trends
- **Drivers**: root causes and forces
- **Outcomes**: modeled futures for action

Use the buttons above to download the diagram as PNG or raw SVG for slide decks and briefs.

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