

METHODOLOGY AND APPLICATION OF AI-DRIVEN GEOPOLITICAL RISK ANALYSIS: THE NATIONFILES FRAMEWORK AND THE NACIRO INTELLIGENCE ENGINE

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NationFiles

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Methodology and Application of AI-Driven Geopolitical Risk Analysis: The NationFiles Framework and the Naciro Intelligence Engine

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Publisher note: This manuscript is issued under the publishing responsibility of **Neawolf Media Group** as the operating organisation behind the **NationFiles** web platform and its machine-readable **Knowledge** artefacts. It is written for a specialist readership in geopolitical analysis, intelligence studies, and computational social science. The tone is descriptive and method-centred; it does not constitute legal, investment, or personal advice.

ABSTRACT

NationFiles is presented as an integrated web and data platform that couples (i) standardised, machine-readable country intelligence artefacts, (ii) a documented stability index with periodic refresh, and (iii) an operational analytics stack—**Naciro**—described in public methodology and assurance documents. The present work synthesises the **official Knowledge Graph (NFKG)** definitions, legal transparency artefacts, and index documentation into a single manuscript suitable for audit, citation, and third-party verification. Emphasis is placed on **traceability** from registered inputs through hygiene and scoring stages to published headline metrics—not on promotional claims. Cross references use stable **HTTPS Knowledge entity pages**; a **DOI** may be assigned to derivative PDFs when deposited in a register such as Zenodo (see **publications corpus**).

1. INTRODUCTION

1.1 Paradigm tension between static indices and operational refresh cadence

Classical composite risk and governance indices typically publish on an editorial or annual cycle. For users of **operational situational awareness**, two limitations follow: (a) headline numbers may lag acute regime shifts in markets or security environments, and (b) the **mapping from raw inputs to published scores** is not always exposed at a granularity sufficient for reproducibility audits.

NationFiles addresses the **cadence-transparency trade-off** by pairing frequently refreshed headline surfaces (for example the **NationFiles Stability Index**, NFSI, documented with a 15-minute update cycle in Knowledge^[^nfsi]) with **first-party** assurance texts: the **Validation & Verification Report (VVR)** and the **Legal Sources Registry**^{[^vvr][^lsr]}. The platform therefore occupies a methodological niche between static handbooks and opaque proprietary scores: **rule-governed refresh** with **declared lineage**^[^core].

1.2 Functional definition of NationFiles

NationFiles is defined in Knowledge as the public-facing website and product surface operated by Neawolf Media Group, with **Naciro** as the system analytics engine and **NFSI** as the core published cross-country stability metric^{[^nationfiles][^naciro][^nfsi]}. Functional scope, as documented, includes country dashboards, the NFSI index, **24-hour / 7-day** outlook components **where the product discloses them**, and machine-readable exports^{^nationfiles}.

The system should not be reduced to a single metaphor: it combines (i) encyclopaedic-style entity documentation in **Knowledge**, (ii) indicator bundles anchored in declared upstream tables (e.g. macro governance composites and PPP-GDP comparators), and (iii) near-real-time signal layers where methodology pages connect them to NFSI and dashboards^{[^ppi][^aggi][^nfsi]}.

2. SYSTEM ARCHITECTURE

2.1 Naciro Intelligence Engine

Naciro is described as an autonomous analytics engine that executes NationFiles' **documented daily global re-evaluation** together with **NFSI-aligned scoring**, plus **product-bounded predictive outlook** where shipped^[^naciro]. The engine ingests **Nationfile JSON** profiles and live feeds via documented connectors, applies published methodology and weighting, and writes NFSI, map layers, and dashboard fields on **NationFiles**^[^naciro].

Comment on causal language: Public documentation stresses **aggregate → normalise → weight (per VVR/methodology) → emit** pipelines rather than narrative causal discovery in the social-science sense^{[^naciro][^vvr]}. Any reference to "causal analysis" in operations should be read as **rule-based, documented transformations** on declared inputs, not as unsupervised causal identification from latent structure.

Footnote discipline: Where product copy uses "predictive layer," Knowledge limits it to **24h / 7d** framing **only on surfaces that ship that feature**^{[^naciro][^dashboard]}.

[Figure: Data path from Legal Sources Registry through hygiene rules to Naciro stages and NFSI headline — Navy #1a365d .]