

# AUTHORITY SOVEREIGN

The Intelligence Layer for Global Trade Corridors

## 01. INFRASTRUCTURE OVERVIEW

The **Authority Sovereign Protocol (SSP)** is a multi-modal agentic architecture designed to stabilize emerging trade corridors—specifically the **UAE-Nigeria corridor**. Unlike legacy logistics platforms, SSP integrates real-time maritime telemetry with financial "circuit breakers" to protect capital flow against geopolitical and operational volatility.

## 02. TECHNICAL ARCHITECTURE

The system utilizes a **FOSS4G stack** integrated via **n8n agentic orchestration**. The core engine ingests data from three primary streams:

- **Maritime Telemetry:** S-AIS feeds monitoring vessel deviation and port latency.
- **Narrative Intelligence:** GDELT-mapped sentiment analysis of regional policy shifts.
- **Economic Signals:** Real-time FX fluctuations and liquidity markers.

### 03. THE RIGS INDEX LOGIC

At the heart of the protocol is the **Regional Integrity & Governance Score (RIGS)**. This real-time metric determines the activation of liquidity circuit breakers.

$$RIGS = (T_v \times w_1) + (L_p \times w_2) - (\Delta S_n \times w_3)$$

Where  $T_v$  is vessel telemetry,  $L_p$  is port latency, and  $\Delta S_n$  represents narrative sentiment volatility.

### 04. STRATEGIC UTILITY

For stakeholders in the UAE-Nigeria corridor (CEPA), the SSP provides:

- **Automated Risk Hedging:** Instant alerts when supply chain anomalies exceed pre-set thresholds.
- **Liquidity Protection:** "Circuit breakers" that pause high-risk transfers during periods of extreme narrative volatility.
- **Compliance Telemetry:** Verifiable logs of trade integrity for regulatory audits.