HazardWise Override Engine v1 - Design Blueprint

Includes Formula Stack HW-01 to HW-08

Core Design Overview

The HazardWise Override Engine v1 is a deterministic forecasting and override system governed by AGDI Protocol 9.9. It processes multi-domain hazard inputs to trigger Tier 1 warnings when probabilistic systems fail. This build includes a full integration of override logic, entropy formulas, and response audit metrics across fire, weather, and infrastructure risks.

Modules and Functions

- Surge Monitor: Detects ignition clusters and heat signatures
- Entropy Score Engine: Executes HW-01 to HW-08 with dynamic inputs
- Override Trigger Layer: Compares entropy scores to thresholds for alerting
- Drift Detection: Identifies deviation from probabilistic alerts
- Scroll Logger: Automatically creates scroll records for Tier 1+ events
- Response Lag Tracker: Audits delay in public alerts (via HW-07)
- Signal Gap Engine: Measures misinformation drift (via HW-08)
- Forecast Integrator: Optional forward-mode prediction using DIA inputs

Included Formula Stack

- HW-01
- HW-02
- HW-03
- HW-04
- HW-05
- HW-06
- HW-07
- HW-08

Deployment Mode

This engine can run in real-time mode or post-event audit mode. It is compatible with AGDI 9.9 deterministic scroll infrastructure and can feed into the Console ZIP or StormWise modules. This document is sealed as

the official v1 architecture under authorship chain of MSW.