

# ArchitectureRoadmap.md

Version: 1.5.0 Date: 2025-12-23

## Phase 1: Foundation & Refactoring (Completed)

- ☒ **Component Modernization:** Refactored core utility scripts.
- ☒ **Logging Standardization:** Implemented unified logging across all modules.

## Phase 2: Workflow & Guidance Hardening (Completed)

- ☒ **Protocol Definition:** Codified "Disconnected State Machine" in `AIAgentWorkflow.md`.
- ☒ **User Manual:** Created `AIAgentUsersGuide.md` with "Air Gap" instructions.
- ☒ **Input Standardization:** Defined "The Trinity" (Source + Plan + Workflow).

## Phase 3: Text Report Standardization (Active/Next)

- ☐ **Library Migration:** Migrate `text_rate_sheet.py` to use `prettytable` (Protocol 5.4).
- ☐ **Library Migration:** Migrate `text_summary.py` to use `prettytable`.
- ☐ **Visual Compliance:** Enforce "Two-Line Title" and "Left-Anchor" standards.
- ☐ **Ad-hoc Report Cleanup:** Audit and update legacy text reports in `contest_tools/reports/`.

## Phase 4: Advanced Analytics (Planned)

- ☐ **Rate Analysis:** Implement sliding window rate calculations.
- ☐ **Zone Analysis:** Create zone-to-zone propagation reports.