

# Roadmap (v1.0.0)

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**Creation Date:** 2025-11-26

**Concept DOI:** <https://doi.org/10.5281/zenodo.17743096>

This roadmap defines the strategic evolution of the **Aurora Research Initiative (ARI)** across multiple phases. It establishes how ARI grows from its foundational architecture into a fully mature institution governing reproducible AI-human scientific workflows and tooling.

The roadmap ensures long-term structural integrity and prevents governance drift.

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## 1. Phase I — Foundational Architecture (Current Phase)

**Objective:** Establish ARI as an independent institutional layer.

**Deliverables:** - ARI repository creation

- README.md
- ARI\_ARCHITECTURE.md
- GOVERNANCE\_MODEL.md
- INIT\_LOG.md
- roadmap creation
- initial folder structure

**Criteria for completion:** - Governance baseline stable

- Architecture baseline established
- Provenance chain active
- No major structural inconsistencies remain

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## 2. Phase II — Metadata & Epistemic Foundations

**Objective:** Define the epistemic rules and metadata structures that govern the entire Aurora ecosystem.

**Planned documents:** - epistemics/EPISTEMIC\_DOCTRINE.md

- epistemics/METADATA\_POLICY.md
- epistemics/PROVENANCE\_SPEC.md

**Outcomes:** - audit-first epistemology codified

- metadata structure standardized
- documentation invariants defined
- provenance schema formalized

**Dependencies:**

Requires Phase I to be complete.

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## 3. Phase III — Integration with AWO v4.2+

**Objective:** Ensure the Aurora Workflow Orchestration (AWO) method is fully aligned with ARI governance.

**Deliverables:** - governance compliance criteria for workflows  
- metadata enforcement expectations  
- role separation boundaries for AWO  
- integration guidelines between AWO and ARI provenance

**Goals:** - AWO adopts ARI policies  
- governance and method boundaries clarified  
- non-deterministic governance removed from AWO  
- execution pipeline operates under ARI-defined epistemic rules

**Dependencies:**

Requires metadata & epistemic documents from Phase II.

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4. Phase IV — CRI-CORE Alignment & Onboarding

**Objective:** Transition enforcement and deterministic execution from AWO into CRI-CORE.

**Deliverables:** - governance requirements for deterministic tooling  
- identity-binding rules  
- attestation-independence criteria  
- provenance verification expectations  
- CRI-CORE onboarding guidelines

**Goals:** - clear separation between method (AWO) and engine (CRI)  
- governance constraints formalized for tooling  
- deterministic execution fully delegated to CRI-CORE

**Dependencies:**

Requires AWO integration (Phase III).

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5. Phase V — Governance Maturity & Public Transparency

**Objective:** Formalize ARI as a public-facing, reproducible governance institution.

**Deliverables:** - public governance documentation  
- licensing strategy  
- ARI website section  
- maturity model for governance  
- transparency dashboards  
- versioned public releases

**Outcomes:** - public trust  
- transparent accountability  
- governance reproducibility  
- institution-level clarity

**Dependencies:**

Phases I-IV completed.

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6. Phase VI — Certification & Ecosystem Expansion

**Objective:** Establish ARI as the governing standard for reproducible scientific workflows.

**Key initiatives:** - reproducibility certification model

- multi-agent governance expansion
- collaboration guidelines
- case study expansion
- governance-based validation pathways

**Long-term outcomes:** - institutional credibility

- widespread adoption of ARI-aligned governance
  - AWO and CRI-CORE recognized as reproducible research infrastructure
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## 7. Revision & Governance

All roadmap changes must be logged in `logs/GOV_LOG.md` with:

- version increments

- rationale
- dependencies noted
- backward linkage

No silent changes permitted.

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This roadmap defines the path toward institutional maturity for the Aurora Research Initiative.

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