

A graph with 8 vertices and 12 edges. The vertices are colored: 3 red, 3 blue, and 2 green. The graph consists of a central square with a vertical edge, and several triangles attached to its sides.

| DOCUMENT ID            | REPORTS | FRESHNESS  | STATUS    |
|------------------------|---------|------------|-----------|
| MYTHOS-RES-ADOPT-00351 | 31      | 2026-09-17 | CANDIDATE |

# Evidence, Maturity, and Adoption Stay Separate

## EVIDENCE

Grade the source basis independently from novelty or product maturity.

## FRESHNESS

Track scheduled review and event-driven expiration independently.

## CONFLICTS

Preserve disagreement between authority, research, implementation, and observed behavior.

## REPRODUCIBILITY

Material claims require exact versions, representative conditions, retained artifacts, and repeatable acceptance.

## ADOPTION

Use bounded postures: adopt, conditional, pilot, monitor, research-only, or controlled migration.

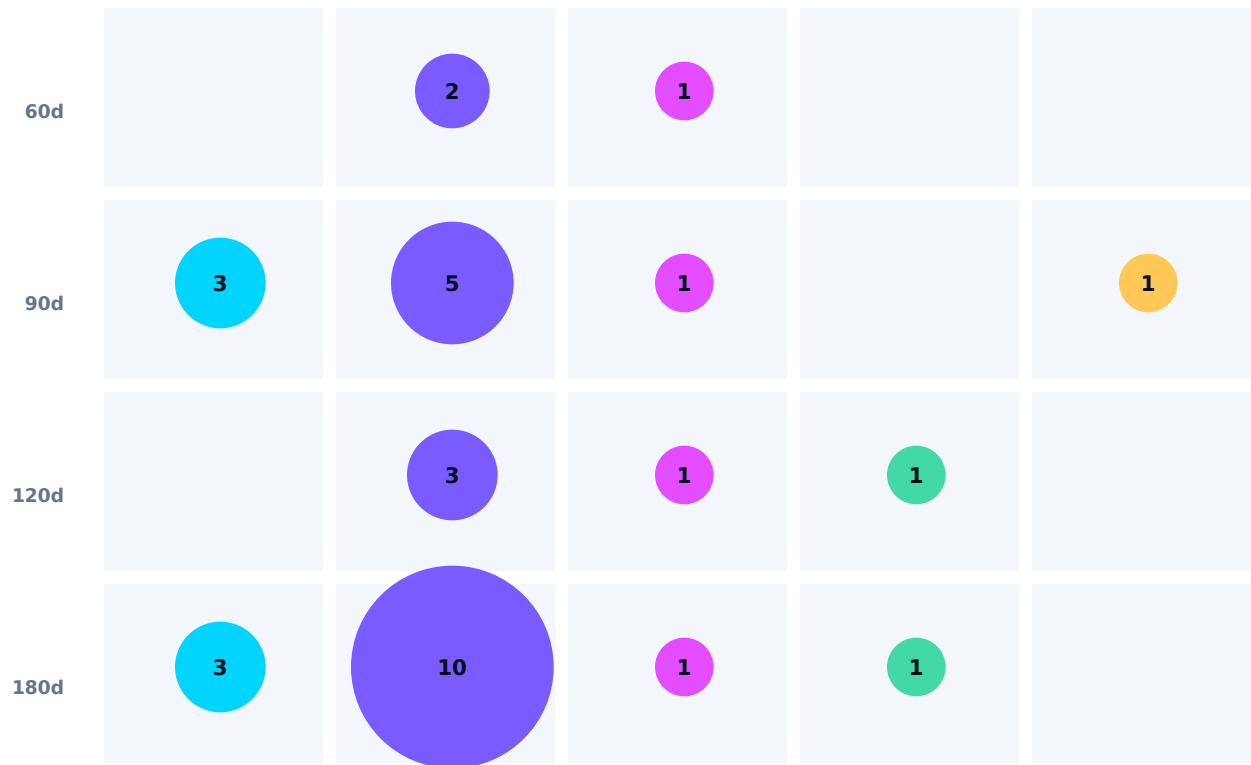
## LIMITS

No research report confers production authority, certification, procurement approval, or legal conclusion.

# Adoption Is a Portfolio, Not a Single Answer



# Strength Does Not Cancel Staleness



Rows are scheduled review cadence; columns are evidence grade. Short-cycle high-grade research can still expire quickly when standards, software, model behavior, or threat conditions are moving.

# Complete RES Series

|         |                                                                       |           |
|---------|-----------------------------------------------------------------------|-----------|
| RES-001 | Desired vs. Observed Network State (Drift Dynamics)                   | A- / 180d |
| RES-002 | Agent Memory Poisoning (Vectors and Mitigations)                      | B+ / 90d  |
| RES-003 | Credential Brokering for Agents (Zero-Knowledge Secrets)              | A- / 180d |
| RES-004 | CISA KEV + EPSS + CVSS (Exploitability Prioritization Models)         | A / 90d   |
| RES-005 | Network Digital Twin Limitations (Batfish/Containerlabs constraints)  | A- / 180d |
| RES-006 | Browser-Local WebLLM (Architecture, Constraints, and WebGPU bindings) | A- / 90d  |
| RES-007 | Durable Multi-Agent Execution (Temporal/Restate patterns)             | A- / 90d  |
| RES-008 | Post-Quantum Network Migration (Hybrid TLS realities)                 | A / 90d   |
| RES-009 | Evidence Bundles (Cryptographic Provenance for Agent Actions)         | A- / 180d |
| RES-010 | OpenTelemetry for Agents (Semantic mapping for cognitive traces)      | A- / 60d  |
| RES-011 | Developing an Attack: OWASP Top 10 (Granular Methodology)             | A / 180d  |

# Complete RES Series / Continued

|         |                                                                       |           |
|---------|-----------------------------------------------------------------------|-----------|
| RES-012 | AI Model Routing & Task Placement (Local vs. Hosted heuristics)       | B+ / 60d  |
| RES-013 | Mixture of Experts (MoE) Routing Dynamics                             | A- / 180d |
| RES-014 | State Space Models (SSMs/Mamba) & Infinite Context                    | A- / 120d |
| RES-015 | Liquid Neural Networks (LNNs)                                         | A- / 180d |
| RES-016 | Neuro-Symbolic AI Integration                                         | B+ / 180d |
| RES-017 | Neuromorphic Silicon Deep Dive (Loihi 2 & SpiNNaker)                  | B / 180d  |
| RES-018 | NPU Integration & Local Inference Acceleration                        | A- / 90d  |
| RES-020 | Silicon Photonics & Chip-to-Chip Optical Interconnects                | A- / 180d |
| RES-021 | Edge Quantum Simulators                                               | A- / 180d |
| RES-022 | Fully Homomorphic Encryption (FHE) Acceleration                       | A- / 180d |
| RES-023 | Trusted Execution Environments (TEEs: TDX/SEV-SNP) Remote Attestation | A- / 90d  |

# Complete RES Series / Continued

|         |                                                                       |           |
|---------|-----------------------------------------------------------------------|-----------|
| RES-024 | Zero-Knowledge Proofs (ZKPs) for Verifiable Agent Compute             | B / 120d  |
| RES-025 | Decentralized Physical Infrastructure Networks (DePIN) Compute Models | B- / 90d  |
| RES-026 | Segment Routing (SRv6) Programmable Path Engineering                  | A / 180d  |
| RES-027 | AI-Driven Radio Access Networks (RAN) & vRAN Orchestration            | B+ / 120d |
| RES-028 | 5G/6G Network Slicing & QoS Enforcement                               | A- / 90d  |
| RES-029 | TLA+ Formal Verification for Distributed State Machines               | A / 180d  |
| RES-030 | Semantic UI Protocols & Typed Payload Rendering                       | A- / 60d  |
| RES-031 | Spatial Computing (WebXR) & Immersive Data Visualization              | A- / 120d |
| RES-032 | Local-First SQLite Event Sourcing & CRDT Sync                         | A- / 120d |
| RES-033 | Photonic Quantum Networking & Entanglement Distribution               | A- / 180d |
| RES-034 | NIST FIPS 203/204/205 PQC Integration & Migration Mechanics           | A / 90d   |