

# Project Maturity Tiers for 2025


---



**Prepared by:**  
 Christian Taylor  
 Head of Open Source Office, Intersect  
 &  
 Terence “Tex” McCutcheon  
 Open Source Program Manager, Intersect

**Date:**  
 June 18, 2024

**Organization:**  
 Open Source Committee  
 Intersect Member Based Organization  
 Cardano Ecosystem

---

**Source Analysis:**  **Project Lifecycle Review Matrix- Final Draft**  
[Project Incubation Lifecycle Framework | Open Source Committee](#)  
[Project Incubation: Acceptance Criteria | Open Source Committee](#)

Review Process	Approval
1st Pass: Open Source Office	 Approved
2nd Pass: Open Source Committee	 Approved
3rd Pass: Individual Projects	

## Executive Summary

This evaluation reviews the maturity of 66 public repositories maintained under our organization. Each repository was assessed across three critical domains: **Documentation**, **Technical Infrastructure**, and **Health & Sustainability**. Evaluations were derived from both internal metrics and live GitHub data, ensuring an objective and up-to-date analysis.

### Key Findings:

- **48.5%** of repositories are classified as **Mature**, representing stable, governed, and actively used codebases.
- **19.7%** are in the **Growth** phase, showing strong potential but requiring investment in governance and contributor onboarding.
- **21.2%** are in **Maintenance**, continuing to serve important roles with limited active development.
- **10.6%** remain in **Incubation**, needing structure, documentation, and clearer project goals.

### Evaluation Process:

Each project was scored on:

- **Documentation** completeness (README, governance, templates)
- **Technical soundness** (CI/CD, testing, linting, security)
- **Project health** (GitHub metrics: stars, forks, contributors, governance presence)

Final maturity ratings aligned closely with official designations from the governance team. Where discrepancies existed, manual review accounted for internal priorities or strategic value not visible in public metrics.

### Outcome:

This assessment provides a clear view of our open source project landscape. It identifies areas for targeted investment, highlights projects ready for promotion, and flags those requiring consolidation or archival. These insights form the basis for prioritizing resourcing and community engagement in our open source strategy.

# 1. Introduction and Purpose

With Cardano's source code made available as open-source software, Intersecct's Open Source Office holds an important responsibility to ensure that proper governance is in place alongside healthy development processes. As the engineering teams we support, contribute to and maintain a growing portfolio of public repositories, it becomes increasingly important to ensure these projects are actively governed, aligned with organizational goals, and supported appropriately based on their lifecycle stage.

This report delivers a structured, cross-functional evaluation of all **66 public repositories** under our GitHub presence. The evaluation was commissioned by the **Open Source Committee** to answer key questions:

- Which projects are stable and production-ready?
- Which are still emerging and need investment in maturity?
- Which are entering a phase of decline, deprecation, or archival?

The assessment aims to provide transparency into the current state of each repository and offer a decision-making framework that supports sustainability, efficiency, and strategic alignment across the open source portfolio. By combining automated technical analysis, documentation audits, and live GitHub metrics with internal knowledge of each project's intent and ecosystem role, this evaluation gives a comprehensive view of our open source landscape.

Beyond reporting, this work is intended to initiate a sustainable rhythm of lifecycle review and project planning. It helps stakeholders across product, engineering, security, and community functions to identify:

- Projects that deserve investment and visibility,
- Initiatives that require corrective action or clearer ownership,
- Legacy components that may be candidates for sunseting or archival.

Ultimately, the purpose of this assessment is to bring structure, fairness, and forward-thinking strategy to the way we manage our public codebases—ensuring our open source efforts remain high-quality, discoverable, secure, and valuable to both internal teams and the broader ecosystem.

## 2. Evaluation Methodology

The evaluation of each repository was conducted using a multi-dimensional framework designed to reflect the operational health, sustainability, and readiness of open source projects. The methodology integrates both **quantitative** indicators (e.g., commit activity, file presence) and **qualitative** signals (e.g., governance maturity, ecosystem role), while incorporating official designations from internal stakeholders.

Repositories were scored independently across three primary dimensions:

---

### 2.1 Documentation Maturity (0–9 Points)

The presence and completeness of essential open source documentation was assessed for each repository. The criteria were derived from widely accepted best practices and community standards.

#### Evaluation Criteria:

- **README.md**: Overview of the project's purpose, installation, and usage.
- **LICENSE**: Indicates the terms of reuse and distribution.
- **CONTRIBUTING.md**: Guidelines for contributing code or reporting issues.
- **SECURITY.md**: Describes security contact processes and disclosure policies.
- **CODE\_OF\_CONDUCT.md**: Defines behavioral expectations for contributors.
- **Issue and Pull Request Templates**: Promotes consistency in contributions and maintenance.
- **Setup & Configuration Instructions**: Enables reproducibility and usability.

Each file or component present earned one point for mandatory files, and 0.5 points for having recommended files, contributing to a maximum score of 7. Projects missing several of these components typically reflect lower accessibility and onboarding friction, which impacts community growth.

## 2.2 Technical Infrastructure Maturity (0–18 Points)

This dimension evaluates the engineering robustness of each repository based on practical software development and DevSecOps practices. The criteria are derived from the internal **Technical Assessment Criteria** used by engineering teams and adapted for consistency across all public repositories.

Each project was scored across multiple sub-areas of infrastructure maturity, with a total possible score of **18 points**. Scores reflect the **presence**, **depth**, and **automation** of technical practices, which collectively determine how scalable and maintainable a project is over time.

---

### Scoring Categories

Category	Key Indicators	Max Points
<b>Automated Tests</b>	Unit, integration, and regression test coverage; enforcement in CI	3
<b>CI/CD Pipelines</b>	Presence of pipelines; test/build/release automation	3
<b>Security Scanning</b>	Use of tools for vulnerability detection (e.g., Dependabot, Trivy)	2
<b>Dependency Updates</b>	Automatic or regular update workflows; package hygiene	2
<b>Linting/Formatting</b>	Code style enforcement; static code analysis	2
<b>Release Management</b>	Use of version tags, changelogs, and GitHub Releases	2

<b>Build &amp; Packaging Tools</b>	Automation of builds (Makefile, Dockerfile, etc.)	2
<b>Infrastructure as Code</b>	Project includes IaC files or deploy artifacts if relevant	1
<b>Platform Integration</b>	Integration with GitHub Actions, third-party CI platforms (e.g., CircleCI)	1

---

### Scoring Approach

- Each repository was manually or programmatically inspected for indicators across these categories.
- Projects with partial implementations (e.g., CI enabled but tests skipped) received **proportional scores**.
- Repositories with visible release tags, security alert configurations, and automated workflows earned higher scores.

This methodology ensures that technical maturity is not only about the presence of tooling but its operational effectiveness and completeness.

## 2.3 Health & Sustainability (0–12 Points)

The health of a repository reflects its long-term viability, activity level, and readiness to sustain community contributions or internal dependency. This portion of the analysis was powered by **live GitHub data**, collected at the time of evaluation.

### Scored Dimensions (0–2 points each):

1. **Community Engagement** – Stars, forks, issue/PR traffic, and evidence of external interest.
2. **Governance & Leadership** – Presence of **CODEOWNERS**, contribution policies, or

governance files.

3. **Succession Planning** – Number and diversity of active maintainers; reliance on a single contributor.
4. **Ecosystem Importance** – Whether the project serves as a dependency or critical integration point.
5. **Activity Trend** – Recency and consistency of commits, PRs, and releases.
6. **Sustainability & Risks** – Visibility into long-term support, organizational sponsorship, and deprecation risk.

Scores were totaled and mapped into qualitative labels:

- **Healthy (10–12)**: Active, sustainable, and structurally sound.
- **Moderate (6–9)**: Viable but with limitations or improvement opportunities.
- **Unhealthy (0–5)**: At risk due to stagnation, governance gaps, or declining interest.

This data-driven approach ensured fairness and comparability across projects of different sizes and scopes.

## Data Integration and Cross-Referencing

To synthesize the evaluation, each repository's scores across the three categories were aggregated and tallied in the **official maturity phase designation** listed in the internal governance sheet (Tab 1, Column C). The total scored reflect as follows:

Scoring Range	Maturity Assigned
1-10	Incubation
10-24	Growth
24-37	Mature
Was determined by internal review and project purpose	Maintenance
Not determined this round given first year unless project is already archived	Decline / Archive

### 3. Results Summary

Following a comprehensive evaluation of 66 public repositories, each project was assigned a maturity phase based on combined scores across documentation quality, technical infrastructure, and health & sustainability. Official designations were further validated against live GitHub metrics and internal context from subject matter reviewers.

The final distribution of repositories across maturity phases is as follows:

Maturity Phase	Description	# of Projects	% of Total
<b>Mature</b>	Fully stable, with comprehensive documentation, sound engineering, and governance, minor room for improvement	32	48.5%
<b>Growth</b>	Actively developed with increasing structure and community engagement, room for improvement	13	19.7%
<b>Maintenance</b>	Stable and functional, but with minimal new development activity	14	21.2%
<b>Incubation</b>	Early stage, limited contributors or formal documentation, major room for improvement	7	10.6%

**Note:** No repositories were officially designated as “Decline” or “Archived” in the current dataset, although some repositories scored near thresholds that could indicate future deprecation risk.

#### Key Observations:

- **Mature repositories** represent nearly half of the portfolio and tend to have active CI/CD, comprehensive test coverage, documented governance, and high community signals (stars, forks, issues). These are excellent candidates for showcasing externally or



adopting as long-term maintained assets.











- **Growth-phase projects** demonstrated strong activity but often lacked formal governance or complete documentation. These represent high-leverage opportunities where small investments (like CONTRIBUTING files or release processes) can accelerate maturity.
- **Maintenance-phase repositories** showed signs of long-term use but limited ongoing contributions. Many are functionally complete or serve niche legacy roles. These should be monitored to ensure security hygiene and tagged accordingly for downstream consumers.
- **Incubation-phase projects** are largely in early development or were recently open-sourced. Most lacked full setup documentation, test automation, or active contributors. These require clearer ownership and development plans if they are to mature effectively.

## 4. Detailed Results:

Repo Name:	Repo Link	Official Maturity Rating	Overall Scoring	Tech Maturity	Health Maturity	Doc Maturity
.github	<a href="https://github.com/IntersectMBO/.github">https://github.com/IntersectMBO/.github</a>	Maintenance	16	Incubation	Healthy 	Incubation
antaeus	<a href="https://github.com/IntersectMBO/antaeus">https://github.com/IntersectMBO/antaeus</a>	Mature	28	Growth	Moderate 	Mature
bech32	<a href="https://github.com/IntersectMBO/bech32">https://github.com/IntersectMBO/bech32</a>	Mature	29	Growth	Healthy 	Mature
budget-documentation	<a href="https://github.com/IntersectMBO/budget-documentation">https://github.com/IntersectMBO/budget-documentation</a>	Maintenance	25	Incubation	Healthy 	Mature
cardaminal	<a href="https://github.com/IntersectMBO/cardaminal">https://github.com/IntersectMBO/cardaminal</a>	Mature	32	Growth	Healthy 	Mature
cardano-addresses	<a href="https://github.com/IntersectMBO/cardano-addresses">https://github.com/IntersectMBO/cardano-addresses</a>	Mature	31.5	Growth	Healthy 	Mature
cardano-airgap	<a href="https://github.com/IntersectMBO/cardano-airgap">https://github.com/IntersectMBO/cardano-airgap</a>	Mature	24.5	Incubation	Moderate 	Mature
cardano-api	<a href="https://github.com/IntersectMBO/cardano-api">https://github.com/IntersectMBO/cardano-api</a>	Mature	32.5	Growth	Healthy 	Mature
cardano-base	<a href="https://github.com/IntersectMBO/cardano-base">https://github.com/IntersectMBO/cardano-base</a>	Mature	33.5	Growth	Healthy 	Mature
cardano-cli	<a href="https://github.com/IntersectMBO/cardano-cli">https://github.com/IntersectMBO/cardano-cli</a>	Mature	32	Growth	Healthy 	Mature
cardano-coin-selection	<a href="https://github.com/IntersectMBO/cardano-coin-selection">https://github.com/IntersectMBO/cardano-coin-selection</a>	Mature	25.5	Incubation	Healthy 	Mature
cardano-crypto	<a href="https://github.com/IntersectMBO/cardano-crypto">https://github.com/IntersectMBO/cardano-crypto</a>	Mature	25.5	Growth	Moderate 	Mature
cardano-db-sync	<a href="https://github.com/IntersectMBO/cardano-db-sync">https://github.com/IntersectMBO/cardano-db-sync</a>	Mature	30.5	Growth	Moderate 	Mature

cardano-haskell-packages	<a href="https://github.com/IntersectMBO/cardano-haskell-packages">https://github.com/IntersectMBO/cardano-haskell-packages</a>	Growth	22	Growth	Moderate 	Mature
cardano-launcher	<a href="https://github.com/IntersectMBO/cardano-launcher">https://github.com/IntersectMBO/cardano-launcher</a>	Mature	33	Growth	Healthy 	Mature
cardano-ledger	<a href="https://github.com/IntersectMBO/cardano-ledger">https://github.com/IntersectMBO/cardano-ledger</a>	Mature	35	Growth	Healthy 	Mature
cardano-node	<a href="https://github.com/IntersectMBO/cardano-node">https://github.com/IntersectMBO/cardano-node</a>	Mature	31.5	Growth	Moderate 	Mature
cardano-node-emulator	<a href="https://github.com/IntersectMBO/cardano-node-emulator">https://github.com/IntersectMBO/cardano-node-emulator</a>	Mature	30.5	Incubation	Healthy 	Mature
cardano-node-tests	<a href="https://github.com/IntersectMBO/cardano-node-tests">https://github.com/IntersectMBO/cardano-node-tests</a>	Mature	28	Growth	Moderate 	Mature
cardano-prelude	<a href="https://github.com/IntersectMBO/cardano-prelude">https://github.com/IntersectMBO/cardano-prelude</a>	Growth	20.5	Growth	Unhealthy 	Mature
cardano-sync-tests	<a href="https://github.com/IntersectMBO/cardano-sync-tests">https://github.com/IntersectMBO/cardano-sync-tests</a>	Incubation	9	Incubation	Moderate 	Archive
cardano-test-plans	<a href="https://github.com/IntersectMBO/cardano-test-plans">https://github.com/IntersectMBO/cardano-test-plans</a>	Growth	20	Incubation	Healthy 	Archive
cardano-transactions	<a href="https://github.com/IntersectMBO/cardano-transactions">https://github.com/IntersectMBO/cardano-transactions</a>	Mature	28.5	Incubation	Healthy 	Mature
cardano-updates	<a href="https://github.com/IntersectMBO/cardano-updates">https://github.com/IntersectMBO/cardano-updates</a>	Growth	20	Growth	Moderate 	Mature
cardano-world	<a href="https://github.com/IntersectMBO/cardano-world">https://github.com/IntersectMBO/cardano-world</a>	Mature	27	Growth	Healthy 	Mature
cc-portal	<a href="https://github.com/IntersectMBO/cc-portal">https://github.com/IntersectMBO/cc-portal</a>	Mature	30	Growth	Healthy 	Mature
civics-documentation	<a href="https://github.com/IntersectMBO/civics-documentation">https://github.com/IntersectMBO/civics-documentation</a>	Maintenance	28	Incubation	Healthy 	Mature

committees-groups-documentation	<a href="https://github.com/IntersectMBO/committees-groups-documentation">https://github.com/IntersectMBO/committees-groups-documentation</a>	Maintenance	25	Growth	Moderate 	Mature
credential-manager	<a href="https://github.com/IntersectMBO/credential-manager">https://github.com/IntersectMBO/credential-manager</a>	Mature	29	Growth	Healthy 	Mature
developer-experience	<a href="https://github.com/IntersectMBO/developer-experience">https://github.com/IntersectMBO/developer-experience</a>	Growth	23	Incubation	Moderate 	Mature
drep-campaign-platform	<a href="https://github.com/IntersectMBO/drep-campaign-platform">https://github.com/IntersectMBO/drep-campaign-platform</a>	Growth	22	Incubation	Healthy 	Mature
drep-code-of-conduct	<a href="https://github.com/IntersectMBO/drep-code-of-conduct">https://github.com/IntersectMBO/drep-code-of-conduct</a>	Mature	24	Incubation	Healthy 	Growth
essential-cardano	<a href="https://github.com/IntersectMBO/essential-cardano">https://github.com/IntersectMBO/essential-cardano</a>	Growth	20	Growth	Moderate 	Mature
formal-ledger-specifications	<a href="https://github.com/IntersectMBO/formal-ledger-specifications">https://github.com/IntersectMBO/formal-ledger-specifications</a>	Mature	27.5	Growth	Healthy 	Mature
governance-actions	<a href="https://github.com/IntersectMBO/governance-actions">https://github.com/IntersectMBO/governance-actions</a>	Growth	16.5	Incubation	Moderate 	Growth
governance-tools-documentation	<a href="https://github.com/IntersectMBO/governance-tools-documentation">https://github.com/IntersectMBO/governance-tools-documentation</a>	Mature	20.5	Growth	Unhealthy 	Mature
govtool	<a href="https://github.com/IntersectMBO/govtool">https://github.com/IntersectMBO/govtool</a>	Mature	30	Growth	Moderate 	Mature
govtool-delegation-pillar	<a href="https://github.com/IntersectMBO/govtool-delegation-pillar">https://github.com/IntersectMBO/govtool-delegation-pillar</a>	Mature	26.5	Incubation	Healthy 	Mature
govtool-outcomes-pillar	<a href="https://github.com/IntersectMBO/govtool-outcomes-pillar">https://github.com/IntersectMBO/govtool-outcomes-pillar</a>	Growth	20.5	Incubation	Moderate 	Mature
govtool-proposal-discussion	<a href="https://github.com/IntersectMBO/govtool-proposal-discussion">https://github.com/IntersectMBO/govtool-proposal-discussion</a>	Mature	24	Incubation	Healthy 	Mature
govtool-proposal-pillar	<a href="https://github.com/IntersectMBO/govtool-proposal-pillar">https://github.com/IntersectMBO/govtool-proposal-pillar</a>	Mature	27	Growth	Moderate 	Mature

	<a href="#">proposal-pillar</a>					
govtool-test-reports	<a href="https://github.com/IntersectMBO/govtool-test-reports">https://github.com/IntersectMBO/govtool-test-reports</a>	Incubation	12.5	Maintenance	Moderate 	Incubation
govtool-voting-pillar	<a href="https://github.com/IntersectMBO/govtool-voting-pillar">https://github.com/IntersectMBO/govtool-voting-pillar</a>	Mature	24	Growth	Moderate 	Mature
hf-wg-documentation	<a href="#">IntersectMBO/hf-wg-documentation: Repository for hardfork working group documentation.</a>	Maintenance	19.5	Growth	Moderate 	Incubation
intersect-constitutional-council	<a href="https://github.com/IntersectMBO/intersect-constitutional-council">https://github.com/IntersectMBO/intersect-constitutional-council</a>	Growth	16.5	Incubation	Moderate 	Growth
intersect-knowledge-base	<a href="https://github.com/IntersectMBO/intersect-knowledge-base">https://github.com/IntersectMBO/intersect-knowledge-base</a>	Maintenance	28.5	Incubation	Healthy 	Mature
intersect-landscape	<a href="https://github.com/IntersectMBO/intersect-landscape">https://github.com/IntersectMBO/intersect-landscape</a>	Growth	17	Growth	Moderate 	Archive
intersect-steering-documentation	<a href="https://github.com/IntersectMBO/intersect-steering-documentation">https://github.com/IntersectMBO/intersect-steering-documentation</a>	Maintenance	23	Growth	Unhealthy 	Mature
io-classes-extra	<a href="#">IntersectMBO/io-classes-extra: Utilities built on top of `io-classes`</a>	Growth	15	Incubation	Moderate 	Incubation
libsodium	<a href="https://github.com/IntersectMBO/libsodium">https://github.com/IntersectMBO/libsodium</a>	Maintenance	12	Incubation	Moderate 	Mature
lsm-tree	<a href="https://github.com/IntersectMBO/lsm-tree">https://github.com/IntersectMBO/lsm-tree</a>	Mature	28	Growth	Moderate 	Mature
mcc-documentation	<a href="https://github.com/IntersectMBO/mcc-documentation">https://github.com/IntersectMBO/mcc-documentation</a>	Maintenance	26	Growth	Moderate 	Mature
nami	<a href="https://github.com/IntersectMBO/nami">https://github.com/IntersectMBO/nami</a>	Mature	31.5	Growth	Healthy 	Incubation

open-source-office	<a href="https://github.com/IntersectMBO/open-source-office">https://github.com/IntersectMBO/open-source-office</a>	Maintenance	29	Growth	Healthy 	Mature
osc-documentation	<a href="https://github.com/IntersectMBO/osc-documentation">https://github.com/IntersectMBO/osc-documentation</a>	Maintenance	27	Growth	Healthy 	Mature
ouroboros-consensus	<a href="https://github.com/IntersectMBO/ouroboros-consensus">https://github.com/IntersectMBO/ouroboros-consensus</a>	Mature	34.5	Growth	Healthy 	Mature
ouroboros-network	<a href="https://github.com/IntersectMBO/ouroboros-network">https://github.com/IntersectMBO/ouroboros-network</a>	Mature	33.5	Growth	Healthy 	Mature
parameters-documentation	<a href="https://github.com/IntersectMBO/parameters-documentation">https://github.com/IntersectMBO/parameters-documentation</a>	Maintenance	29.5	Incubation	Healthy 	Mature
pdf-ui	<a href="https://github.com/IntersectMBO/pdf-ui">https://github.com/IntersectMBO/pdf-ui</a>	Growth	23.5	Growth	Healthy 	Archive
plutus	<a href="https://github.com/IntersectMBO/plutus">https://github.com/IntersectMBO/plutus</a>	Mature	34.5	Growth	Healthy 	Mature
plutus-script-evaluation	<a href="https://github.com/IntersectMBO/plutus-script-evaluation">https://github.com/IntersectMBO/plutus-script-evaluation</a>	Incubation	17	Incubation	Healthy 	Archive
plutus-tx-template	<a href="https://github.com/IntersectMBO/plutus-tx-template">https://github.com/IntersectMBO/plutus-tx-template</a>	Incubation	28.5	Incubation	Healthy 	Mature
product-documentation	<a href="https://github.com/IntersectMBO/product-documentation">https://github.com/IntersectMBO/product-documentation</a>	Maintenance	29	Incubation	Healthy 	Mature
tsc-documentation	<a href="https://github.com/IntersectMBO/tsc-documentation">https://github.com/IntersectMBO/tsc-documentation</a>	Maintenance	21.5	Incubation	Moderate 	Mature
win32-network	<a href="https://github.com/IntersectMBO/Win32-network">https://github.com/IntersectMBO/Win32-network</a>	Incubation	22	Incubation	Healthy 	Mature
workgroup-info	<a href="https://github.com/IntersectMBO/workgroup-info">https://github.com/IntersectMBO/workgroup-info</a>	Incubation	19	Incubation	Healthy 	Mature