Monthly Maturity Report: July 2025

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Organization:
Open Source Committee
Intersect Member Based Organization
Cardano Ecosystem

UPDATE: We brought back the Govtool Repos to this report with the other Haskell Node repositories that compile the “Core Cardano Repos”.

Review Process	Approval
1st Pass: Tex M, OS Program Manager	✅**Approved**
2nd Pass: Christian T, Head of OSO	✅**Approved**

Summary

In **July 2025**, the Cardano open-source ecosystem entered a broad-based acceleration phase, reversing June's contraction and delivering one of the most active months in recent cycles. Total contributions surged across nearly all activity metrics, with **commits doubling (+101%)**, **pull requests climbing (+70.7%)**, and **issues increasing (+79.7%)**. Code volume expanded sharply, driven by a **+651% jump in modified files** — **signaling large-scale structural updates**, feature integrations, and dependency changes. IOHK maintained its position as the central engineering driver, while Intersect MBO emerged as a major open-source contributor, and unaffiliated ("Unknown") contributors posted unprecedented growth.

The spike in governance-related development was evident with the debut of **govtool** and the rapid scaling of **formal-ledger-specifications**. Contributor participation grew geographically diverse, with especially strong gains from **North and South American time zones (UTC−5, UTC−4)**.

General Observations

Organizational Contributions

- **IOHK** led with 1,086 contributions and 46 authors — a +37.5% increase in contributions, sustaining its ecosystem leadership.
- **Intersect MBO** surged with +11,500% growth in contributions, reflecting its formal integration into open-source workflows.
- "**Unknown**" authorship grew by +1,040%, showing strong onboarding of unaffiliated or newly mapped contributors.
- **Tweag** contributions rose +163%, while Well-Typed held steady in authors but dipped slightly in contribution volume (−1.5%).

Repository Activity

- **cardano-ledger** (+92.9%), **plutus** (+158.6%), and **cardano-api** (+109.4%) led commit growth, indicating active protocol and tooling development.
- Governance-related repositories (**govtool**, **formal-ledger-specifications**) entered the top activity tier, showing strategic expansion into governance tooling.
- Core protocol repos like **ouroboros-consensus** (+55%) and **cardano-node** (+63.3%) maintained strong throughput.

Pull Requests

- 442 PRs were submitted (+70.7%) across 27 repositories by 67 contributors.
- **IOHK** sustained leadership with 285 PRs, while **Intersect MBO** (64 PRs) and "**Unknown**" contributors (35 PRs) expanded sharply.
- **Liqwid Labs** PR volume rose +400%, reflecting targeted delivery efforts.

Issue Lifecycle

- **Total issues** rose by **+79.7%,** with **unique submitter**s increasing **+39.3**% and repository coverage expanding +18.2%.
- **Median open times** remained stable at **8.5 days**, showing sustained triage efficiency despite higher volume.
- High-growth repositories included **govtool** (26 issues in its debut month) and **formal-ledger-specifications** (+1,100%).

Contributor Participation

- **Active contributor** counts grew to 83 **(+38.3%)**, with gains spread across multiple organizations and unaffiliated contributors.
- The diversity of commit and PR sources indicates deeper decentralization of development activity.

Geographic Representation

- **UTC−5** and **UTC−4** posted triple-digit gains in commit activity (+378.6% and +250% respectively), signaling increased participation from the Americas.
- **UTC−3** returned to activity after being inactive in June, while **UTC−6** remained stable and **UTC−7** grew moderately.
- No single time zone dominated commit volume, maintaining a distributed global footprint.

Conclusion

July 2025 reflected a high-velocity growth phase, with major increases in contributions, repository coverage, and governance-focused development. **Intersect MBO** was a large-scale contributor, alongside surging unaffiliated participation, marking a clear decentralization trend in Cardano's engineering base. Coupled with geographic diversification and strong gains across both protocol and tooling projects, the ecosystem enters Q3 with momentum, expanded capacity, and broader participation than in previous cycles.

1. Github Overview

This section provides a comprehensive overview of activities and dynamics within the Github platform. It encompasses various metrics and statistics concerning the usage, engagement, and performance of projects and contributors.

Summary:

In **July 2025**, the Cardano open-source ecosystem experienced a sharp rebound in GitHub activity after June's contraction phase. **Total commits more than doubled (+101%)**, unique **contributors grew by 38.3%**, and the number of **active repositories rose by 45%**. This surge signals a renewed development cycle, likely driven by the kickoff of new sprints, onboarding of additional contributors, and the reactivation of previously dormant repositories. The expansion across all key engagement metrics points to a broad-based revitalization rather than a spike limited to isolated teams or projects.

Comparative Table: July vs. June 2025

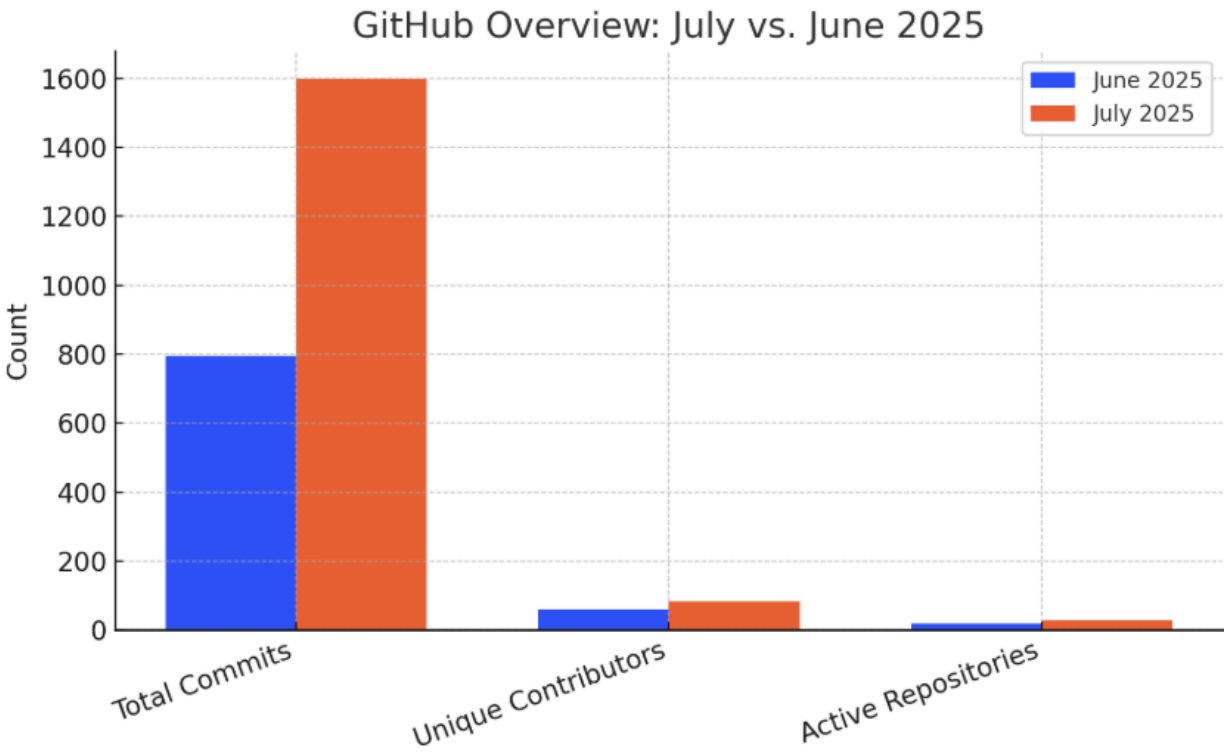
Metric	July 2025	June 2025	Δ (%)
Total Commits	1,600	796	+101.0%
Unique Contributors	83	60	+38.3%
Active Repositories	29	20	+45.0%

Insights

1. **Broad participation growth** — The increase in **contributors (+38.3%)** suggests both new participant onboarding and the return of previously inactive contributors, expanding the active developer base.

2. **Repo coverage surge** — A **45% rise in active repositories** indicates that workstreams are diversifying, with teams resuming activity across a wider range of codebases rather than concentrating on a small set of high-priority repos.

3. **Synchronized volume expansion** — The parallel growth in commits, contributors, and repository count shows that **July's activity** was **ecosystem-wide**, not the result of one or two teams producing unusually high volumes.


GitHub Overview: July vs. June 2025
June 2025
July 2025
Count
1600
1400
1200
1000
800
600
400
200
0
Total Commits
Unique Contributors
Active Repositories

1.a) Organization Activity

Here is the data for how different organizations within the Cardano ecosystem were contributing to open-source projects during the current timeframe. Complete data available here in Bitergia.

Summary

July 2025 saw a major resurgence in organizational contributions across the Cardano ecosystem, reversing the contraction seen in June. IOHK retained its role as the dominant contributor, **expanding commit volume by 59.2%** alongside a modest rise in authorship. Intersect MBO recorded an extraordinary **jump in both commits (+11,500%) and authors (+200%)**, reflecting the formal onboarding of internal development teams into open-source workstreams. "**Unknown**" contributors surged in both activity and headcount, suggesting a wave of unaffiliated or newly mapped participants. **Tweag** more than doubled both commits and authors, while **Well-Typed** maintained a steady contributor base with a slight increase in commit output.

Comparative Table: July vs. June 2025

Organization	July Commits	June Commits	Δ Commits (%)	July Authors	June Authors	Δ Authors (%)
Input Output (IOHK)	1,086	682	+59.2%	46	44	+4.5%
Intersect MBO	116	1	+11,500%	3	1	+200.0%
Unknown	114	7	+1,528.6%	18	5	+260.0%
Tweag	71	24	+195.8%	4	2	+100.0%
Well-Typed	64	60	+6.7%	3	3	0.0%

Insights

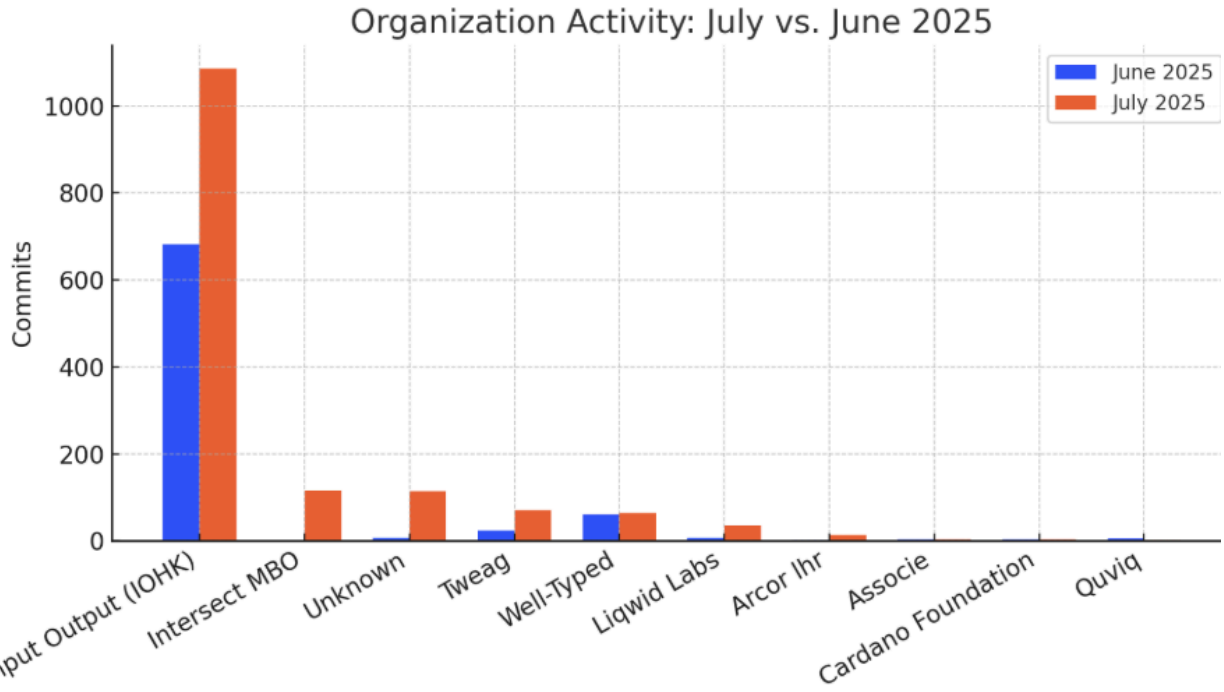
1. **IOHK's leadership sustained with volume growth** — While already dominant, IOHK **expanded its output by nearly 60%**, indicating the initiation of significant new workstreams or release cycles.

2. **Intersect MBO's formal emergence** — The unprecedented **jump in commits (+11,500%)** reflects the shift from internal to open-source contributions, marking a structural change in organizational participation.

3. **Unaffiliated activity on the rise** — "**Unknown**" contributors' dramatic increases suggest successful community onboarding or a rise in unmapped external contributors.

4. **Secondary org revitalization** — **Tweag's** tripling of activity signals renewed engagement, possibly linked to specific research or development contracts.

5. **Stable specialists** — **Well-Typed** maintained a fixed author base, indicating sustained but narrowly scoped involvement.



1.b) Commits by Timezone

Here is the data for commits per timezone. This view is important to understand how the contributors are spread geographically. Complete data available here in Bitergia.

Summary

In **July 2025**, the geographic distribution of commits shifted sharply, with North and South American time zones driving the majority of growth. **UTC −5** saw an extraordinary **378.6% increase in commits**, while **UTC −4** surged **250%**. Activity in **UTC−7 (U.S. West Coast)** grew moderately **(+20%)**, whereas **UTC −6** remained relatively stable **(−4.2%)**. The reappearance of commits from **UTC −3**, absent in June, further indicates a broadening contributor base across the Americas. This suggests a notable shift in development momentum toward Western Hemisphere participation, potentially linked to onboarding efforts, collaborative sprints, or targeted outreach in these regions.

Comparative Table: July vs. June 2025

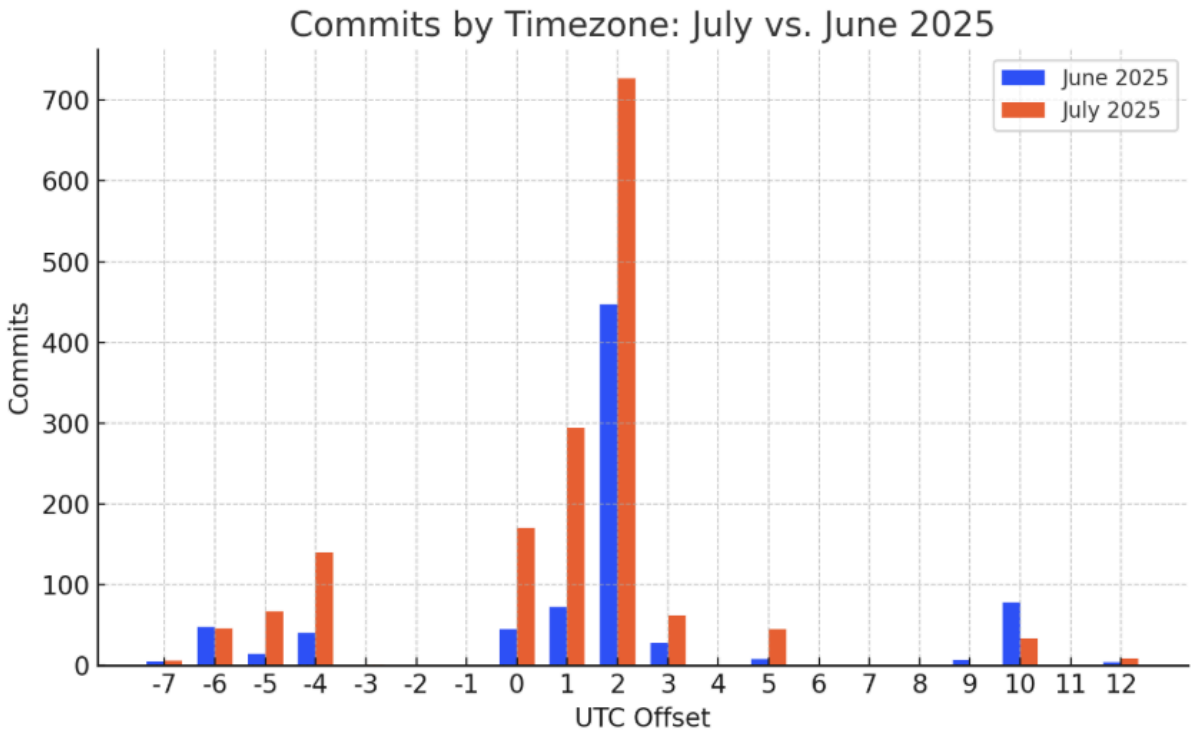
Timezone (UTC±)	July Commits	June Commits	Δ Commits (%)
−7	6	5	+20.0%
−6	46	48	−4.2%
−5	67	14	+378.6%
−4	140	40	+250.0%
−3	1	0	N/A

Insights

1. **Major Western Hemisphere surge** — **UTC −5** and **UTC −4** accounted for the largest proportional gains, pointing to significant new activity in North and South America.

2. **Reactivation of UTC −3** — The reappearance of commits from **UTC −3** may indicate the return of contributors from regions such as Argentina or Brazil.

3. **Steady-to-slight-decline zones** — **UTC −6** activity was largely stable, and UTC−7 saw moderate growth, suggesting these zones maintained engagement but did not contribute to the primary growth spike.



1.c) Per Repository Activity

This section shows activity for each repository in Cardano open-source. Complete data available here in Bitergia.

Summary:

July 2025 marked a widespread surge in repository-level activity across the top Cardano projects. Every leading repository posted significant gains in commit volume, signaling an **ecosystem-wide** acceleration in development. ***cardano-ledger*** nearly doubled its commits (+92.9%), while ***plutus*** led in proportional growth (+158.6%), indicating renewed smart contract and tooling development. ***cardano-api*** activity more than doubled (+109.4%), suggesting expanded integration or refactoring work. Core protocol repos ***ouroboros-consensus*** (+55.2%) and ***cardano-node*** (+63.3%) also advanced strongly, pointing to active protocol maintenance and feature iteration.

Comparative Table: July vs. June 2025

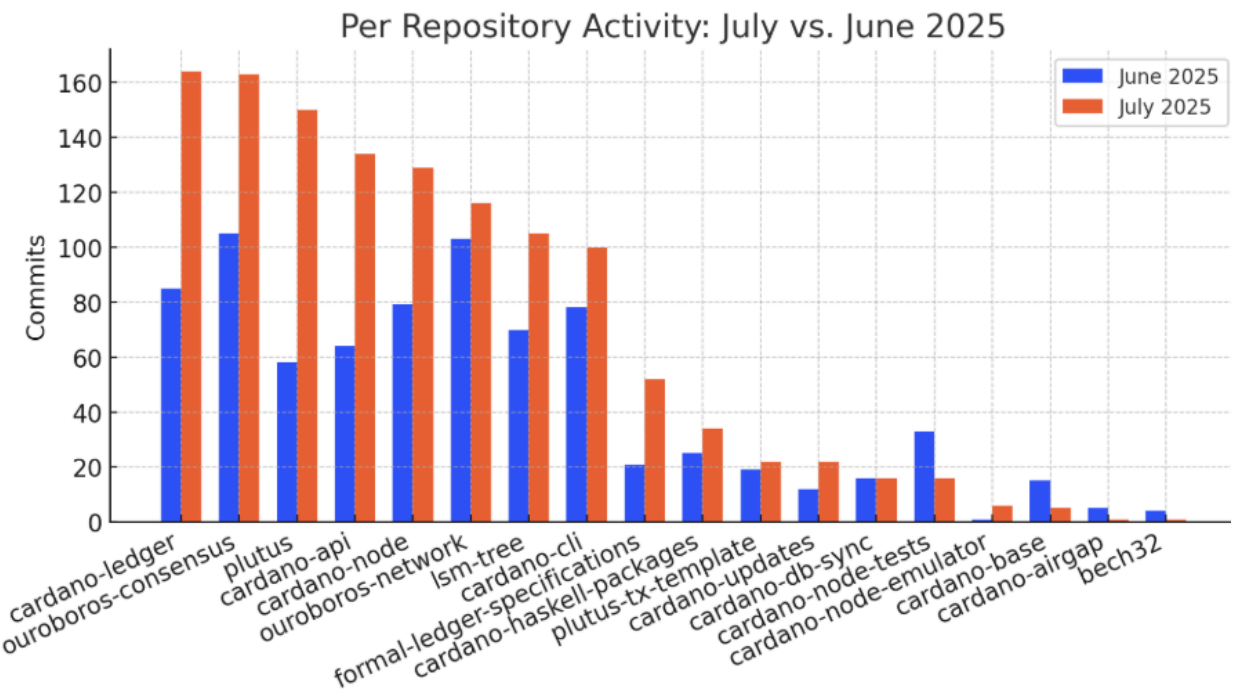
Repository	July Commits	June Commits	Δ Commits (%)
cardano-ledger	164	85	+92.9%
ouroboros-consensus	163	105	+55.2%
plutus	150	58	+158.6%
cardano-api	134	64	+109.4%
cardano-node	129	79	+63.3%

Insights

1. **Smart contract ecosystem rebound** — ***plutus*** +158.6% growth suggests significant progress on contract infrastructure, possibly preparing for testnet or feature releases.

2. **API expansion efforts** — ***cardano-api*** growth over 100% may reflect expanded developer tooling and integration readiness.

3. **Core protocol stability work** — Strong gains in ***ouroboros-consensus*** and ***cardano-node*** point to sustained investment in the protocol layer alongside feature work.


Per Repository Activity: July vs. June 2025
June 2025
July 2025
Commits
0
20
40
60
80
100
120
140
160
cardano-ledger
ouroboros-consensus
plutus
cardano-api
cardano-node
ouroboros-network
lsm-tree
cardano-cli
formal-ledger-specifications
cardano-haskell-packages
plutus-tx-template
cardano-updates
cardano-db-sync
cardano-node-tests
cardano-node-emulator
cardano-base
cardano-airgap
bech32

2. Areas of Code

This category outlines the diverse areas and aspects of code development and management within the Github environment.

Summary

July 2025 saw a massive expansion in codebase touchpoints across the Cardano open-source ecosystem. **Modified file**s skyrocketed by **651.1%**, the largest single-month increase in the dataset, indicating sweeping structural changes, large-scale refactoring, or the merging of long-lived branches. **Lines added** rose by **36.5%** and **lines removed** increased by **11.6%**, suggesting substantial net new development alongside ongoing cleanup. The contributor base for this activity mirrored overall participation growth **(+38.3%)**, reflecting a broadening distribution of code ownership. This spike represents one of the most significant file-level engagement surges in recent months.

Comparative Table: July vs. June 2025

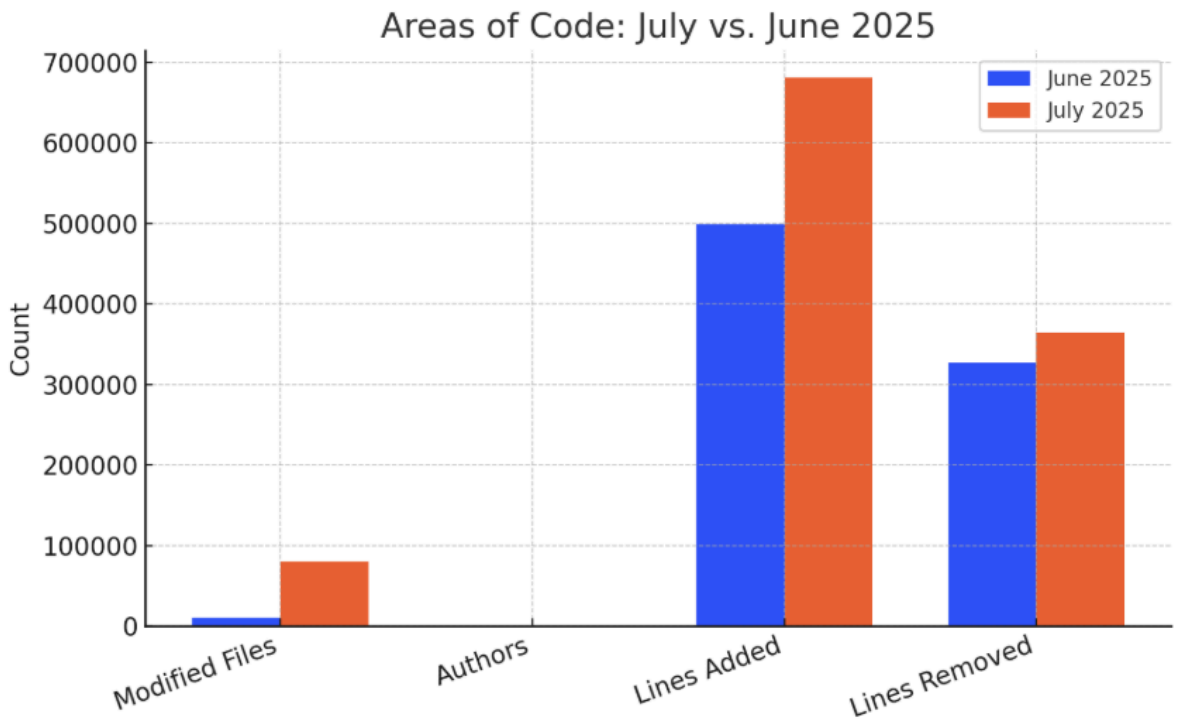
Metric	July 2025	June 2025	Δ (%)
Modified Files	79,677	10,608	+651.1%
Authors	83	60	+38.3%
Lines Added	681,049	498,826	+36.5%
Lines Removed	364,527	326,621	+11.6%

Insights

1. **Historic file-level expansion** — The 651% jump in modified files points to ecosystem-wide updates, possibly from merged feature branches, repository restructuring, or widespread dependency updates.

2. **Net-positive code growth** — Higher percentage growth in lines added compared to lines removed suggests a phase of expansion rather than purely maintenance or refactoring.

3. **Distributed code ownership** — The contributor count increase aligns with trends seen in Section 1, reinforcing that this surge was a collaborative, multi-team effort rather than a single-team push.


Areas of Code: July vs. June 2025
Count
700000
600000
500000
400000
300000
200000
100000
0
June 2025
July 2025
Modified Files
Authors
Lines Added
Lines Removed

2.a) Projects

Summary

July 2025 saw an extraordinary reallocation of code modification activity among organizations, with several dramatic shifts from June's distribution. "**Unknown**" contributors posted a staggering +56,504% increase in modified files, suggesting the introduction of new, unmapped contributor sets or significant attribution changes in reporting. **Intersect MBO** re-emerged as a visible open-source contributor with a +146,500% jump in file modifications, reflecting its first large-scale code integration. **Liqwid Labs** recorded a +468.8% spike, indicating concentrated development surges. In contrast, **IOHK**'s file modification count fell by 33.3%, marking a pivot toward more targeted work despite still contributing substantial volumes. **Tweag** saw a strong rebound (+156%), aligning with its commit growth from Section 1.a.

Comparative Table: July vs. June 2025

Organization	July Files	June Files	Δ Files (%)
Unknown	24,906	44	+56,504.5%
Input Output (IOHK)	6,446	9,671	−33.3%
Intersect MBO	1,466	1	+146,500.0%
Liqwid Labs	1,422	250	+468.8%
Tweag	297	116	+156.0%

Insights

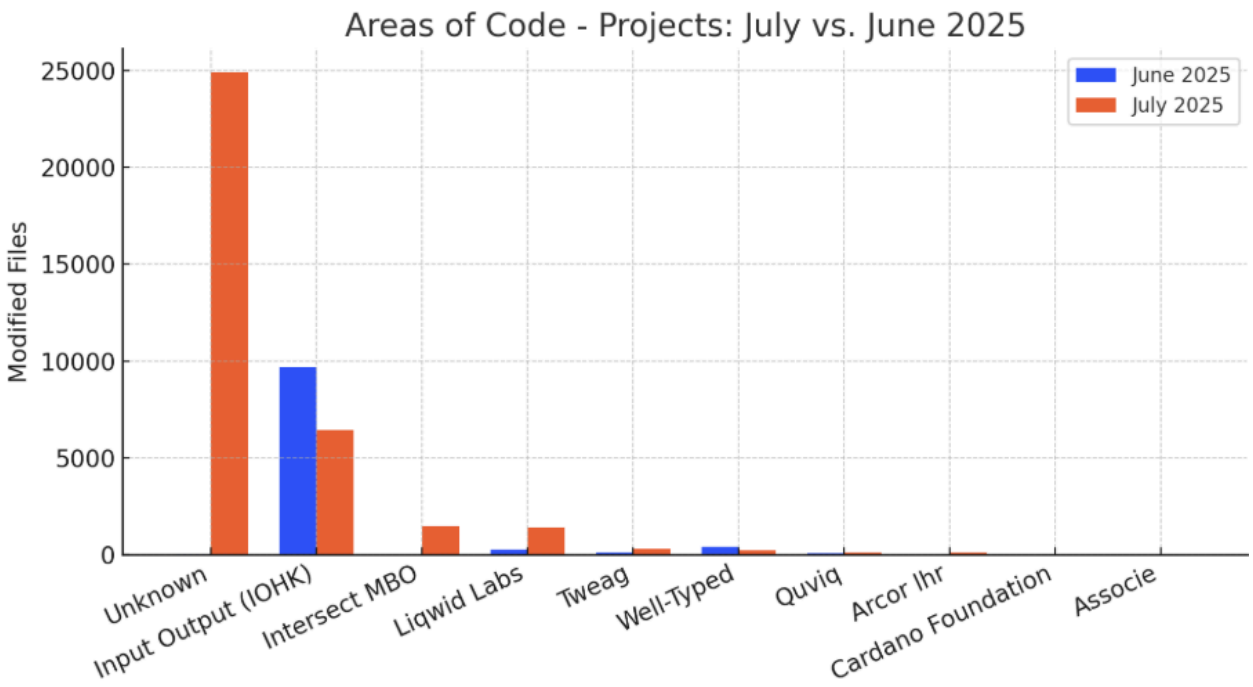
1. **Data attribution shift** — The unprecedented growth in "Unknown" contributors' file changes is likely due to previously unmapped activity now being captured or a surge in unaffiliated developer participation.

2. **Intersect MBO's operational debut** — The leap in file modifications reflects its transition from internal-only development to substantial open-source engagement.

3. **Strategic contraction from IOHK** — The drop in modified files suggests a shift toward focused deliverables rather than broad file-level changes, even as IOHK remains a key player.

4. **Liqwid Labs' concentrated push** — The near fivefold increase in file changes may signal the delivery of a major feature or integration effort.

5. **Sustained rebound from Tweag** — The 156% increase continues its July recovery trajectory noted in organizational commit growth.



3. Issues

This segment revolves around the identification, tracking, and resolution of issues within Github projects. It encompasses discussions on problem-solving methodologies, issue management practices, and related metrics.

Summary

July 2025 marked a significant re-acceleration in issue activity across the Cardano open-source ecosystem. **Total issue**s rose by 79.7%, with **unique submitters** increasing by 39.3% and repository coverage expanding by 18.2%. The **average time open** grew slightly (+7.8%), suggesting that while more issues were created, resolution speed remained steady. This rise likely reflects an influx of new development work from July's code surge (Section 2), leading to more feature-related discussions, bug reports, and QA cycles. The increased submitter diversity aligns with broader participation trends observed in commits and file modifications.

Comparative Table: July vs. June 2025

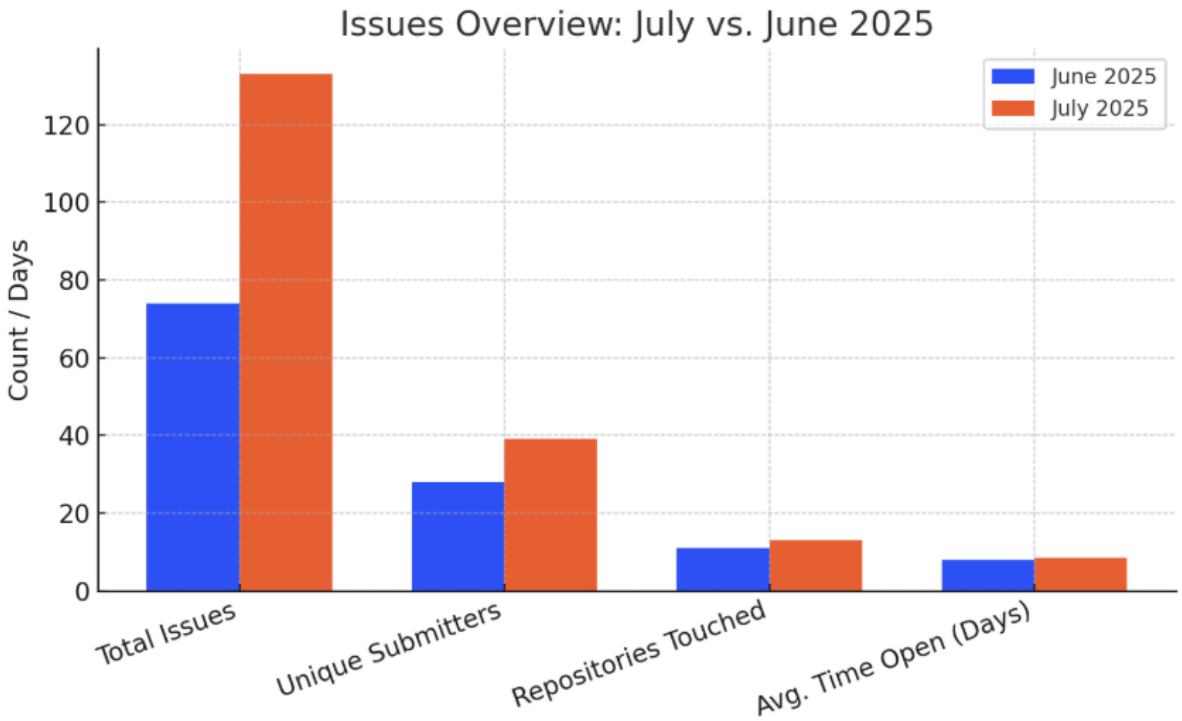
Metric	July 2025	June 2025	Δ (%)
Total Issues	133	74	+79.7%
Unique Submitters	39	28	+39.3%
Repositories Touched	13	11	+18.2%
Avg. Time Open (Days)	8.5	7.9	+7.8%

Insights

1. **Direct link to July's dev surge** — The rise in issues corresponds with the spike in modified files and commits, showing that increased code activity led to more reported items for review and refinement.

2. **Broader QA engagement** — The 39% increase in unique submitters points to more diverse participation in the QA and feedback process, not just from core developers.

3. **Stable resolution velocity** — The modest 7.8% increase in average open time suggests teams were able to maintain response speed despite higher incoming volume.


Issues Overview: July vs. June 2025
June 2025
July 2025
Count / Days
0
20
40
60
80
100
120
Total Issues
Unique Submitters
Repositories Touched
Avg. Time Open (Days)

3.a) Organizations

Summary:

July 2025 brought a notable rise in issue creation across most contributing organizations, with **Input Output (IOHK)** leading at 86 issues (+59.3%). The "**Unknown**" category saw a modest increase in volume (+20%), reflecting either new unmapped participants or returning unaffiliated contributors. **Liqwid Labs** grew issue output by 25% while dramatically reducing median time open (−42.9%), indicating more rapid triage cycles. **Tweag** showed a similar trend with a 50% increase in issue count and a 71.4% drop in open duration. **Quviq**, in contrast, saw a slight decline in issue volume but experienced a massive spike in median open time (+998%), suggesting lingering or more complex items.

Comparative Table: July vs. June 2025

Organization	July Issues	June Issues	Δ Issues (%)	July Median Open	June Median Open	Δ Median Open (%)
Input Output (IOHK)	86	54	+59.3%	10.615	8.106	+31.0%
Unknown	6	5	+20.0%	8.885	6.684	+32.9%
Liqwid Labs	5	4	+25.0%	6.014	10.532	−42.9%
Quviq	4	5	−20.0%	5.203	0.474	+998.0%
Tweag	3	2	+50.0%	3.773	13.180	−71.4%

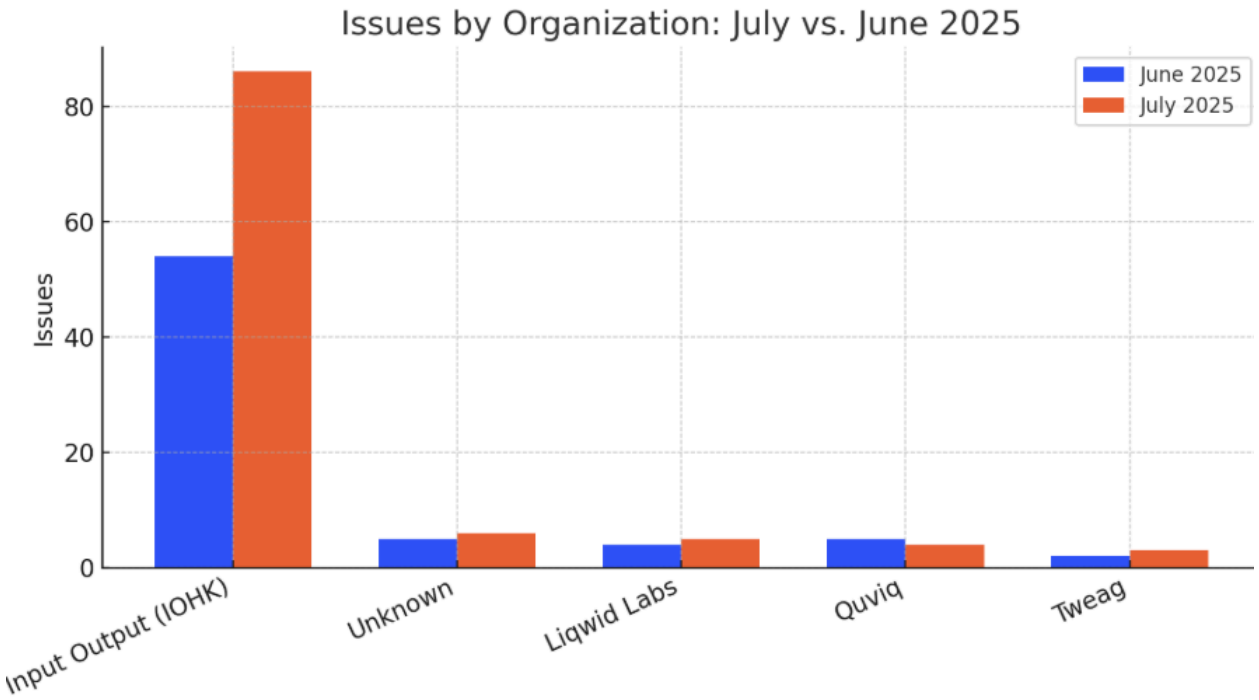
Insights

1. **IOHK remains the QA driver** — Its 59% increase in issues suggests a ramp-up in feature testing or bug reporting as July's development surge hit QA stages.

2. **Faster triage cycles** — Liqwid Labs and Tweag both cut open durations sharply, indicating efficient review and resolution processes.

3. **Complexity spike at Quviq** — The nearly tenfold increase in median open time may point to a small number of highly complex or low-priority issues holding open status.

4. **Broader engagement from "Unknown"** — Modest volume growth and higher open times reinforce the idea of newer, less-integrated contributors raising items.


Issues by Organization: July vs. June 2025
June 2025
July 2025
Issues
0
20
40
60
80
Input Output (IOHK)
Unknown
Liqwid Labs
Quviq
Tweag

3.b) Projects

Summary:

In **July 2025**, issue activity expanded to new and existing repositories, with **cardano-ledger** and the newly tracked **govtool** both leading at 26 issues each. The **formal-ledger-specifications** repository surged from just 2 issues in June to 24 in July (+1,100%), reflecting intensive specification review or validation cycles. **Plutus** and **cardano-api** also saw large proportional gains, consistent with their increased development activity earlier in the report. **Median open times** rose significantly for **cardano-ledger** and **formal-ledger-specifications**, suggesting complex or multi-phase issues, while **plutus** reduced its resolution time by 24.6%, indicating more efficient triage.

Comparative Table: July vs. June 2025

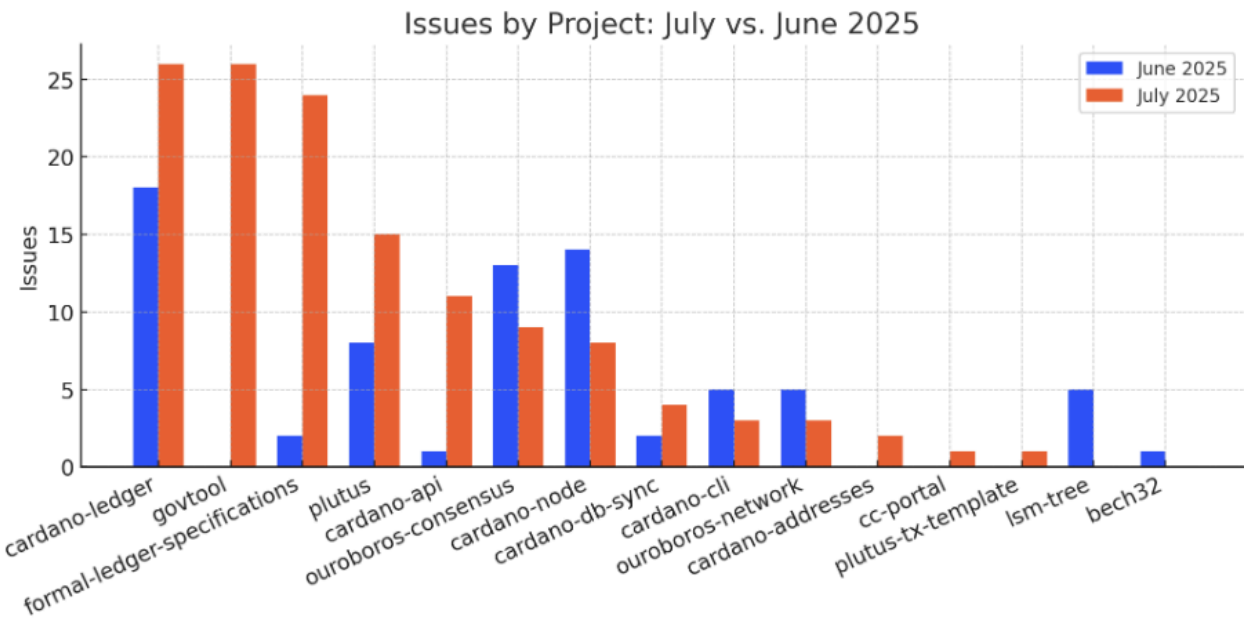
Repository Name	July Issues	June Issues	Δ Issues (%)	July Median Open	June Median Open	Δ Median Open (%)
cardano-ledger	26	18	+44.4%	9.375	6.264	+49.7%
govtool	26	0	N/A	4.037	N/A	N/A
formal-ledger-specifications	24	2	+1,100.0%	7.225	2.805	+157.6%
plutus	15	8	+87.5%	7.494	9.936	−24.6%
cardano-api	11	1	+1,000.0%	14.043	0.000	N/A

Insights

1. **Expansion into governance and specifications** — The inclusion of govtool and the spike in **formal-ledger-specifications** issues suggest growing attention to governance tooling and protocol documentation.

2. **Core ledger remains central** — **cardano-ledger**'s sustained high issue volume highlights its role as a critical protocol component undergoing active QA.

3. **Efficiency gains in Plutus** — The reduction in median open time alongside issue growth points to improved responsiveness in the smart contract tooling workflow.


Issues by Project: July vs. June 2025
June 2025
July 2025
Issues
0
5
10
15
20
25
cardano-ledger
govtool
formal-ledger-specifications
plutus
cardano-api
ouroboros-consensus
cardano-node
cardano-db-sync
cardano-cli
ouroboros-network
cardano-addresses
cc-portal
plutus-tx-template
lsm-tree
bech32

4. Pull Requests

Summary:

July 2025 experienced a substantial rebound in pull request activity, aligning with the broader ecosystem growth trends observed in commits, modified files, and issues. **Total PRs submitted** increased by 70.7%, with **unique submitters** up 24.1% and repository coverage expanding by 58.8%. The breadth of participation suggests that the surge was not limited to a single team but reflected multi-organization collaboration. This acceleration likely corresponds to the merging of long-running feature branches and the rapid iteration cycles that followed the mid-year development push.

Comparative Table: July vs. June 2025

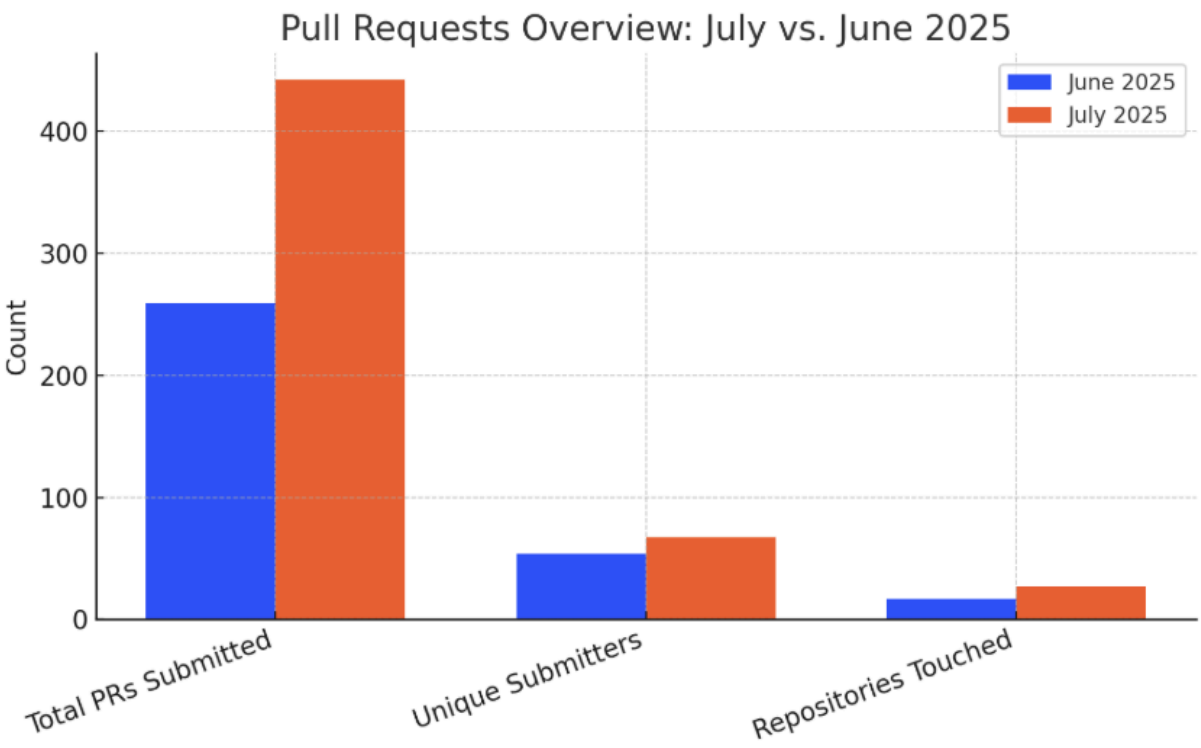
Metric	July 2025	June 2025	Δ (%)
Total PRs Submitted	442	259	+70.7%
Unique Submitters	67	54	+24.1%
Repositories Touched	27	17	+58.8%

Insights

1. **Sharp recovery in throughput** — The 70% increase in PR volume suggests that July was a delivery-heavy month, possibly tied to the integration of large development efforts initiated earlier in the quarter.

2. **More hands on deck** — A 24% increase in submitters reinforces the trend of growing contributor diversity seen in commits and issues.

3. **Wider project coverage** — The 58.8% growth in repositories touched indicates that more projects were in active development and accepting changes, not just core protocol repos.


Pull Requests Overview: July vs. June 2025
June 2025
July 2025
Count
0
100
200
300
400
Total PRs Submitted
Unique Submitters
Repositories Touched

4.a) PR by Organizations

Summary:

July 2025 saw PR growth across nearly all major contributing organizations, led by **IOHK** with 285 PRs (+39.0%). **Intersect MBO** recorded the most dramatic proportional increase (+6,300%), signaling its formal operational entry into open-source development. "**Unknown**" contributors more than doubled PR submissions (+105.9%), continuing the surge in unaffiliated participation. **Liqwid Labs** quadrupled its PR count, while **Well-Typed** was the only major organization to see a decline (−27.8%), indicating a possible shift in focus to maintenance or non-PR activity.

Comparative Table: July vs. June 2025

Organization	July PRs	June PRs	Δ PRs (%)
Input Output (IOHK)	285	205	+39.0%
Intersect MBO	64	1	+6,300.0%
Unknown	35	17	+105.9%
Liqwid Labs	15	3	+400.0%
Well-Typed	13	18	−27.8%

Insights

1. **IOHK's sustained dominance** — While its proportional growth is smaller than others, IOHK's volume far exceeds all other contributors combined.

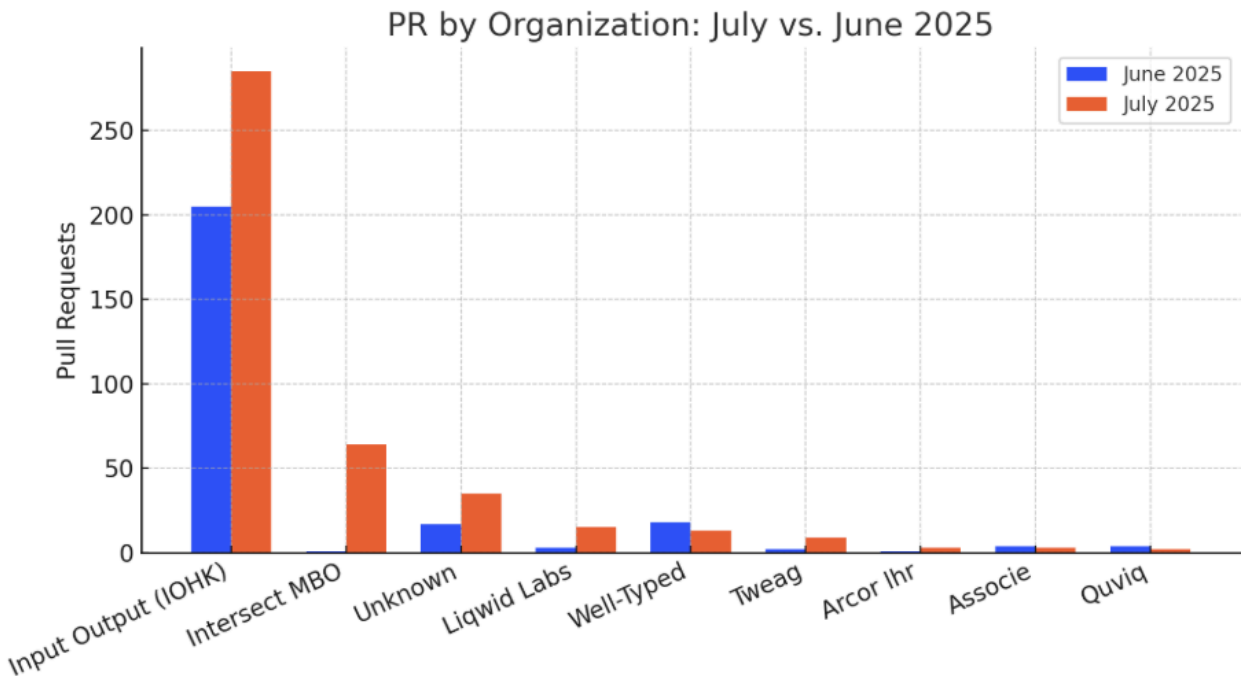
2. **Intersect MBO's breakout month** — The massive jump in PR activity signals a new, sustained open-source development presence.

3. **Surge in unaffiliated contributors** — The doubling of "Unknown" PRs suggests successful onboarding or increased external collaboration.

4. **Liqwid Labs momentum** — The 400% gain reflects targeted delivery, potentially tied to specific protocol or tooling integrations.

5. **Well-Typed slowdown** — The drop in PRs could indicate that its current workstreams are

in review, testing, or documentation phases.



4.b) PR by Projects

July 2025's PR activity was dominated by **govtool**, which emerged with 90 PRs in its first recorded month, reflecting intensive initial development and integration work. **Plutus** nearly doubled its PR count (+94.1%), consistent with its broader code and issue activity surges this month. **Cardano-api** (+37.0%) and **ouroboros-consensus** (+55.0%) also saw strong growth, while **cardano-ledger** posted modest gains (+13.3%), indicating steady but mature development cycles. The data reflects both the onboarding of new repositories and the acceleration of existing high-priority workstreams.

Comparative Table: July vs. June 2025

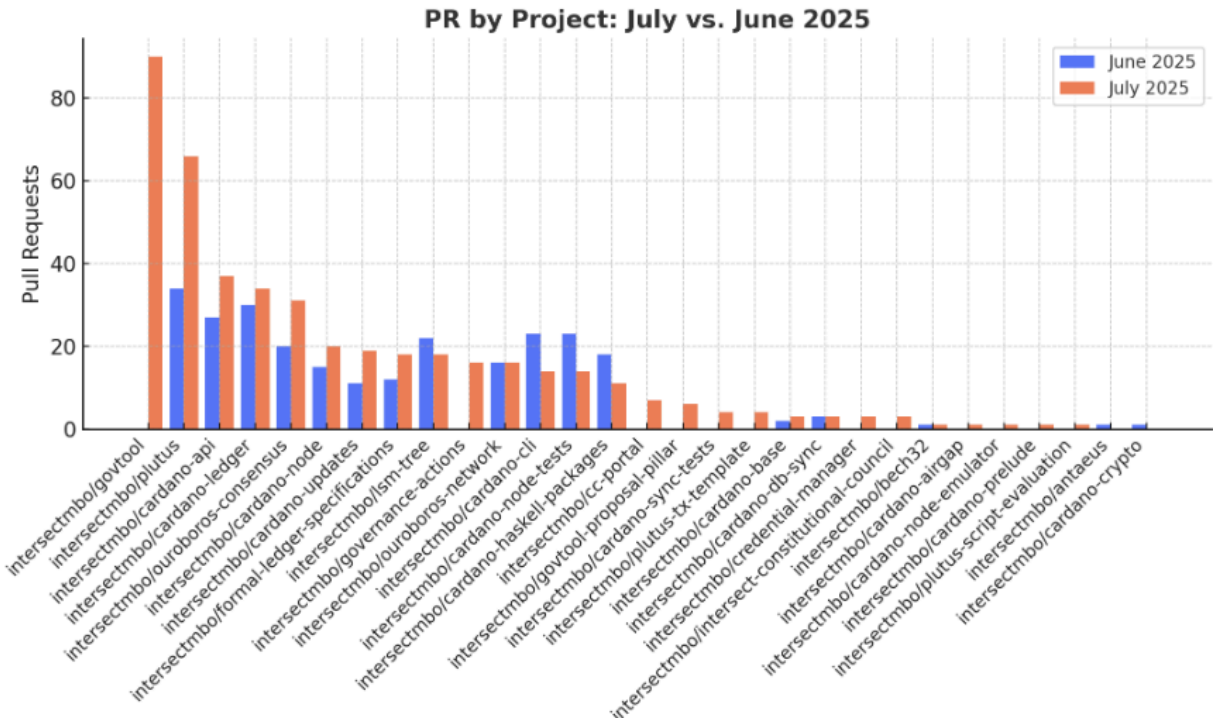
Repository	July PRs	June PRs	Δ PRs (%)
govtool	90	0	N/A
plutus	66	34	+94.1%
cardano-api	37	27	+37.0%
cardano-ledger	34	30	+13.3%
ouroboros-consensus	31	20	+55.0%

Insights

1. **New governance tooling focus** — **govtool**'s leading PR count signals significant development in governance-related infrastructure.

2. **Smart contract tooling momentum** — **plutus**'s near doubling of PRs confirms its continued position as a major contributor to the ecosystem's development velocity.

3. **Core protocol work is steady but strong** — While **cardano-ledger**'s growth was modest, **ouroboros-consensus** posted substantial gains, indicating focused work on consensus mechanisms.


PR by Project: July vs. June 2025
Pull Requests
0
20
40
60
80
June 2025
July 2025
intersectmbo/govtool
intersectmbo/plutus
intersectmbo/cardano-api
intersectmbo/cardano-ledger
intersectmbo/ouroboros-consensus
intersectmbo/cardano-node
intersectmbo/cardano-updates
intersectmbo/formal-ledger-specifications
intersectmbo/lsm-tree
intersectmbo/governance-actions
intersectmbo/ouroboros-network
intersectmbo/cardano-cli
intersectmbo/cardano-node-tests
intersectmbo/cardano-haskell-packages
intersectmbo/cc-portal
intersectmbo/govtool-proposal-pillar
intersectmbo/cardano-sync-tests
intersectmbo/plutus-tx-template
intersectmbo/cardano-base
intersectmbo/cardano-db-sync
intersectmbo/credential-manager
intersectmbo/intersect-constitutional-council
intersectmbo/bech32
intersectmbo/cardano-airgap
intersectmbo/cardano-node-emulator
intersectmbo/cardano-prelude
intersectmbo/plutus-script-evaluation
intersectmbo/antaeus
intersectmbo/cardano-crypto

5. Analysis of Contributors by Organization

Summary

July 2025 saw a marked increase in total contributions across nearly all key organizations, with IOHK leading at 1,086 contributions (+37.5%). **Intersect MBO** and "**Unknown**" contributors posted triple- and quadruple-digit percentage gains, reflecting both a formalized organizational entry into open-source work (**Intersect MBO**) and a significant influx of unmapped participants. **Tweag** more than doubled its contributions (+163%), while **Well-Typed** remained steady in author count but dipped slightly in contribution volume (−1.5%). The rise in author counts for several orgs indicates broader participation alongside higher throughput.

Comparative Table: July vs. June 2025

Organization	July Contributions	June Contributions	Δ Contributions (%)	July Authors	June Authors	Δ Authors (%)
Input Output (IOHK)	1,086	790	+37.5%	46	46	0.0%
Intersect MBO	116	1	+11,500.0%	3	1	+200.0 %
Unknown	114	10	+1,040.0%	18	6	+200.0 %
Tweag	71	27	+163.0%	4	2	+100.0%
Well-Typed	64	65	−1.5%	3	3	0.0%

Insights

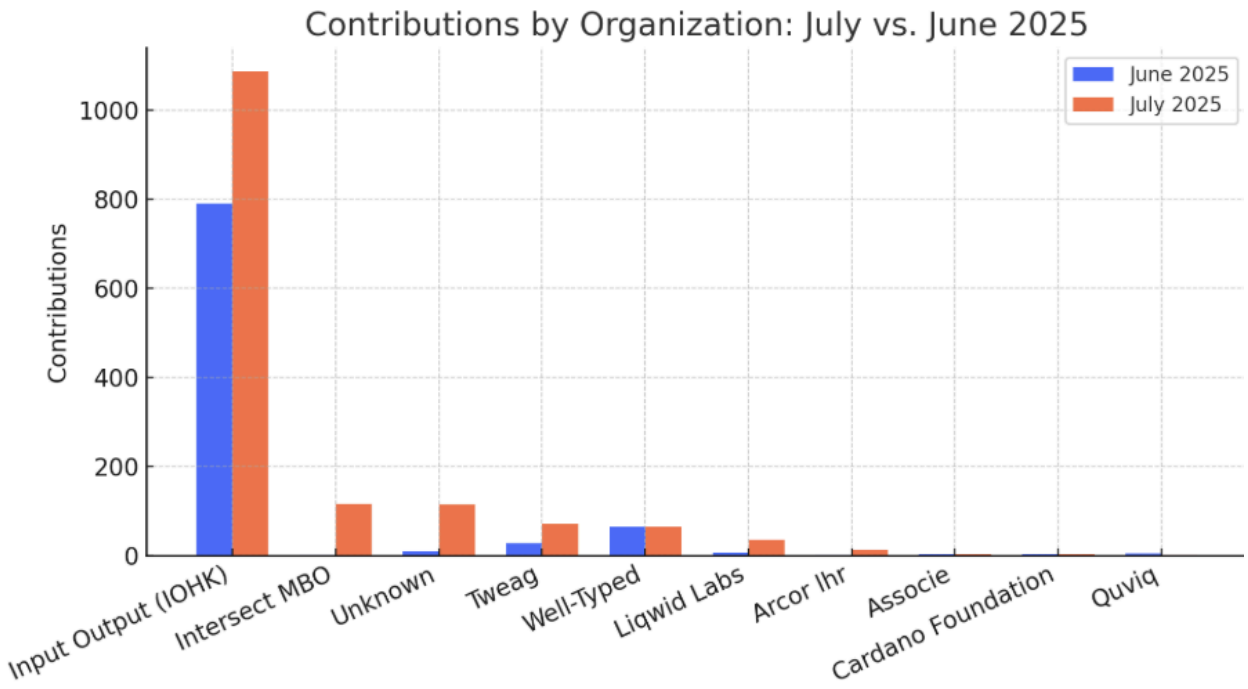
1. **IOHK maintains a central role** — While percentage growth was modest compared to others, IOHK's sheer volume cements its leadership in ecosystem development.

2. **Intersect MBO's operational scaling** — The extraordinary growth rate reflects its official entry into the contributor landscape, aligning with trends seen in PR and file modification data.

3. **Unaffiliated surge** — "Unknown" contributors' growth mirrors earlier observations in commits, PRs, and issues, signaling expanding decentralization in contribution sources.

4. **Strong rebound from Tweag** — The 163% jump reflects a ramp-up in project engagement, consistent with their gains in earlier sections.

5. **Well-Typed plateau** — Steady author count with a slight decline in contributions may indicate stabilization or transition to non-commit-based work like reviews.



Glossary

Report Technical Definitions:

- **Repository(Repo):** In Git, a repository, often abbreviated as "repo," is a storage space where your project's files and their entire revision history are stored. It typically includes various files such as source code, documentation, images, and more. Repositories can be either local (on your computer) or remote (hosted on a server like GitHub, GitLab, Bitbucket, etc.).
- **Issue:** An issue is a feature request, bug report, task, or any other item that needs to be tracked within a project. In Git repositories hosted on platforms like GitHub or GitLab, issues are commonly used for discussing and tracking tasks or problems related to the project. They can include labels, assignees, comments, and other metadata to facilitate collaboration and organization.
- **Pull Request (PR):** A pull request is a proposed change that a user wants to merge into a target branch of a repository. It's commonly used in distributed version control systems like Git to facilitate code review and collaboration. When a developer completes a feature or fixes a bug in a separate branch of the repository, they can initiate a pull request to merge their changes into the main branch or another designated branch. Pull requests often include a summary of the changes, discussions, reviews, and automated checks.
- **Contributor:** A contributor is anyone who participates in a project by making contributions such as code changes, documentation improvements, bug fixes, feature enhancements, etc. Contributors can be individuals or organizations, and their contributions can take various forms, from writing code to providing feedback, reporting issues, or reviewing pull requests.
- **Git:** Git is an open-source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. It allows multiple developers to work on the same project simultaneously, coordinating their work through branching, merging, and version tracking. Git is widely used in software development for managing source code revisions and collaborating on projects.
- **GitHub:** GitHub is a web-based platform that provides hosting for Git repositories and offers collaboration features such as issue tracking, pull requests, code review, and project management tools. It's one of the most popular platforms for hosting Git repositories and facilitating collaboration among developers and teams. GitHub also provides additional features like wikis, continuous integration, and deployment services.
- **Commit:** In Git, a commit is a snapshot of the changes made to the files in a repository at a specific point in time. It represents a single revision or change set and includes a unique identifier (SHA-1 hash), a commit message describing the changes, and a pointer to the previous commit(s). Commits are fundamental to version control in Git, as they allow developers to track changes, revert to previous states, and collaborate on code changes.
- **Organization:** In Git and GitHub, an organization refers to a group or entity that can own repositories, manage access permissions, and collaborate on projects. Organizations are

often used by companies, open-source projects, or groups of developers to centralize their repositories and manage their collective work. Organizations on GitHub can have multiple members with varying levels of access, allowing for collaborative development within a structured environment.

- **Project:** A project in the context of Git and GitHub typically refers to a specific software development endeavor or initiative. It encompasses all the related tasks, code, documentation, issues, and resources needed to achieve a particular goal. Projects are often organized within repositories on GitHub, where developers can collaborate, track progress, manage tasks, and share code. A project may involve multiple contributors working together to develop and maintain software, with each contributor contributing to different aspects of the project.
- **Community:** In the Git and GitHub ecosystem, a community refers to the collective group of developers, users, contributors, and other stakeholders who are involved in a particular project, organization, or open-source initiative. Communities are essential for fostering collaboration, sharing knowledge, providing support, and driving the growth and sustainability of projects. They often gather around shared interests, goals, or values, and may interact through various channels such as forums, mailing lists, chat platforms, and social media. A strong and engaged community can contribute to the success and longevity of a project by providing feedback, contributing code, reporting issues, and supporting fellow members.