



InnerSource
Commons

OSPO and InnerSource Metrics with **CHA OSS**

Ana Jiménez, Linux Foundation | Sean Goggins, University of Missouri



<https://chaoss.community/>

<https://innersourcecommons.org>

<https://todogroup.org>



<https://github.com/chaoss>

<https://github.com/innersourcecommons>

<https://github.com/todogroup>



@CHA OSSproj





```
const SPEAKER = [  
  {  
    name: 'Ana Jiménez Santamaría',  
    username: 'anajsana',  
  }  
];
```

Project Manager at TODO Group, Linux Foundation 🐙

Formerly at Bitergia, Software Development Analytics firm 🦉

Former Master in Data Science (2019-2021)
Current Master in Front-End (2023- Ongoing)

Projects and communities I contribute to



“The Open Source DevRel Report” Project Thesis: A set of Python scripts that gather, enrich, explore, model, and report GitHub data to measure Developer Communities (<https://anajimenezsantamaria.gitlab.io/>)





Co-Director, CHA⁰SS Project, Linux Foundation
Professor, Computer Science, University of Missouri

Maintainer, Augur Software at CHA⁰SS Project



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What are the **cultural** and **operational** goals your organization tries to achieve?

How can be solved with **InnerSource** and/or **Open Source** practices?

What is needed to make it happen
(Assets + Talent + Structure)



ISPO (InnerSource Program Office)

Facilitates the adoption of InnerSource into company processes, tooling, and culture so that the company can achieve its InnerSource Goals

OSPO (Open Source Program Office)

Supports the company's integration of open Source operations in its Tech infrastructure and engineering processes



Similarities & Differences

	Policy & Processes	Developer Engagement & Advocacy	Compliance Management	Education & Training	Business Units & C-level support
	Creating guidelines for contribution and use	Building and nurturing a community Promoting use	Ensuring legal compliance and security checks in the use and distribution of software or AI models	Building resources and training for effective participation	Advice, use cases, metrics, automation tools, resources
OSPO	Open Source Projects				
ISPO	Internal Projects				

How Should Your OSPO Work with InnerSource? - Russell Rutledge, InnerSource Commons Foundation & Ana Jiménez Santamaría, Linux Foundation (OSSummit NA, 2024)



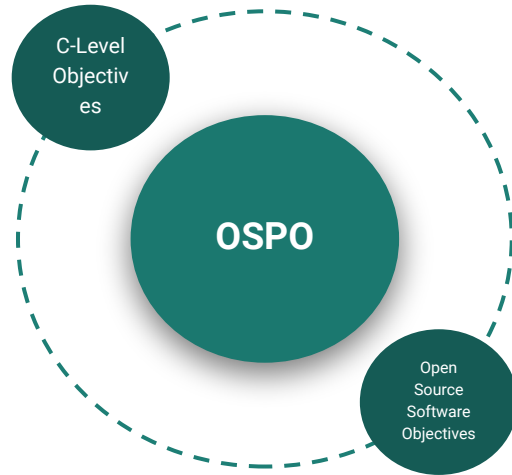
Focus: codifying problems and metrics The "tooling" debate is for a different time (or after this talk)

G-Q-M / OKRs

Interconnected Goals

Business Objectives:
C-Level Understanding

Open Source:
Focusing on commodity tech stack



Maintainable Core Infrastructure

Shared costs.

Features upstream

Sustaining Talent

Building OSS

Reputation

What do you want to know?



What data is accessible?

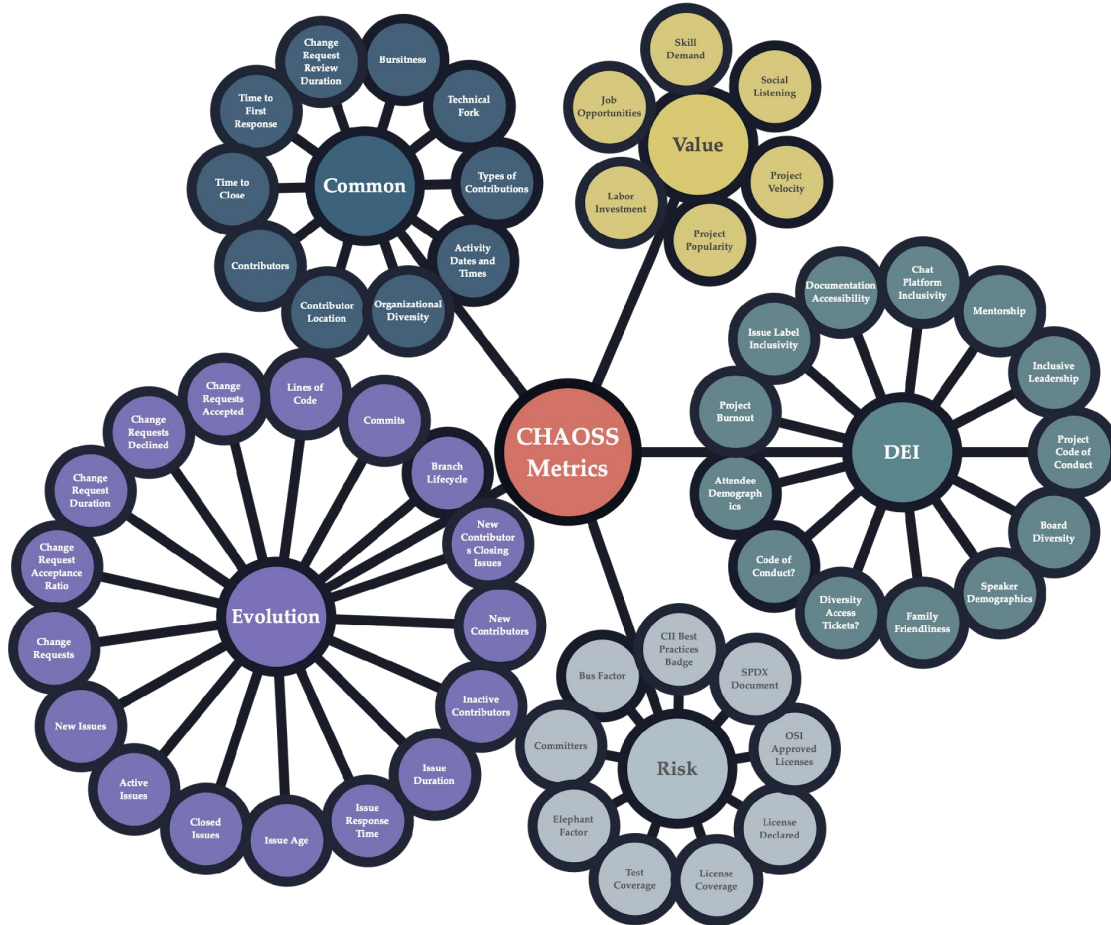


Thoughtful execution of data analysis



April 20, 2021

Order From CHAOSS :: A Sampling of 88 Metrics

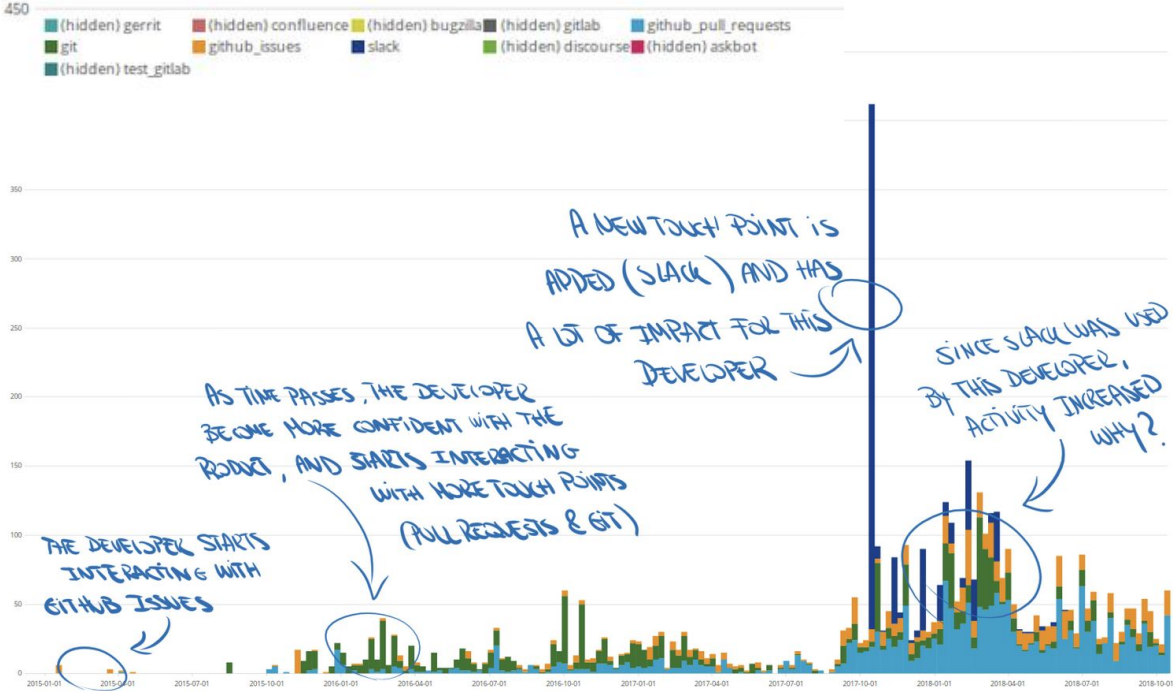


Each metric lives in a different square on the risk metrics for every project

	Potential Consequences				
	Not Significant	Minor	Moderate	Major	Severe
Almost Certain	Yellow	Orange	Red	Dark Red	Dark Red
Likely	Yellow	Yellow	Orange	Red	Dark Red
Possible	Green	Yellow	Yellow	Orange	Red
Unlikely	Green	Green	Yellow	Yellow	Orange
Rare	Green	Green	Green	Yellow	Yellow

Likelihood ↑

Using CHAOSS Metrics and Tools to Tell Stories



Heat



Light

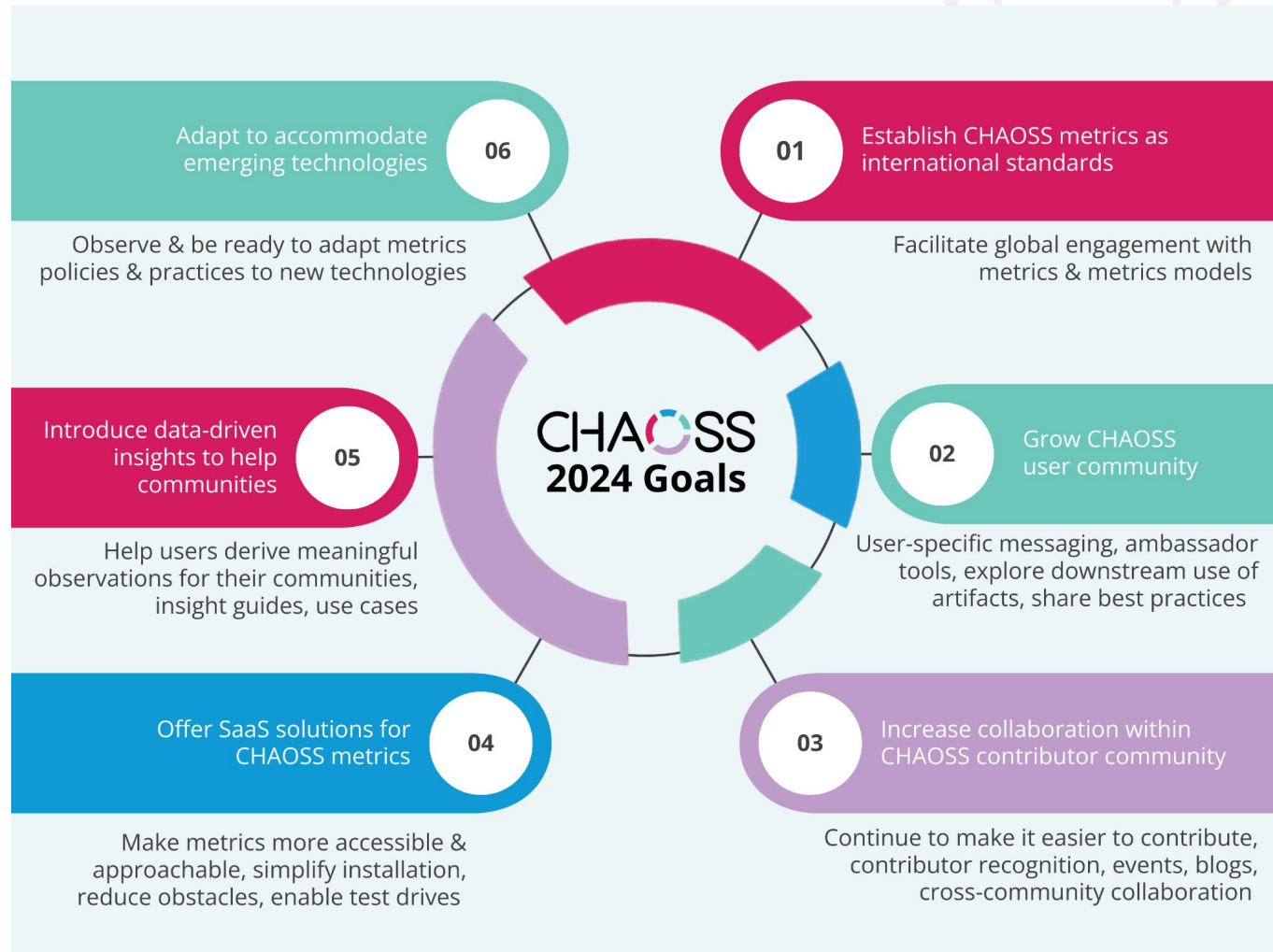


Love

Developer engagement journey example: from "most valuable user" to "contributor".

<https://bitergia.com/blog/metrics/kpis-and-metrics-for-devrel-programs/>





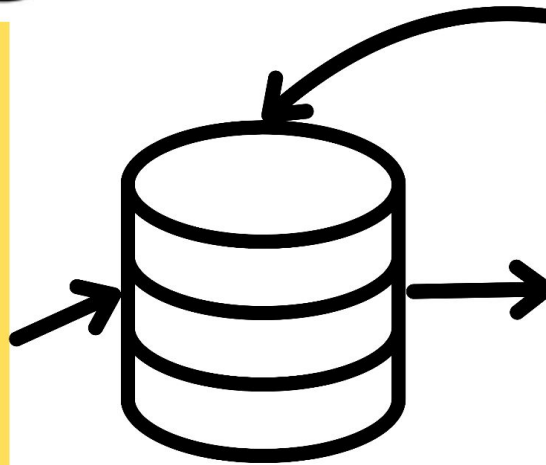


Data Engineering Designed for Data Science



Data Engineering

- Contributors
- Commits
- Issues
- Change/Pull/Merge Requests
- Change Request Review
- Events: Person and Repo
- Releases
- Repo-Metadata
- Dependencies
- Licensing



**Relational
Database**

Artificial Intelligence

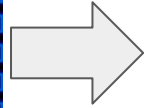
- Repository Clusters
- Discourse Types
- Anomaly Prediction
- Message Classification
- Change Request Prediction

*The Defacto Standard for
Open Source Health Data
Science and AI*

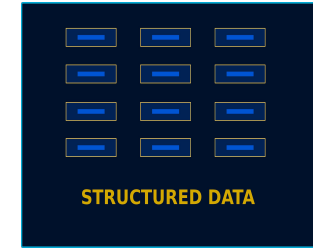
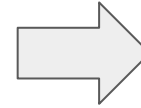
Augur: A Path to Data Science



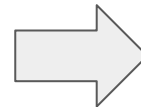
Mountains of
Data



6 Years of
Data
Carpentry



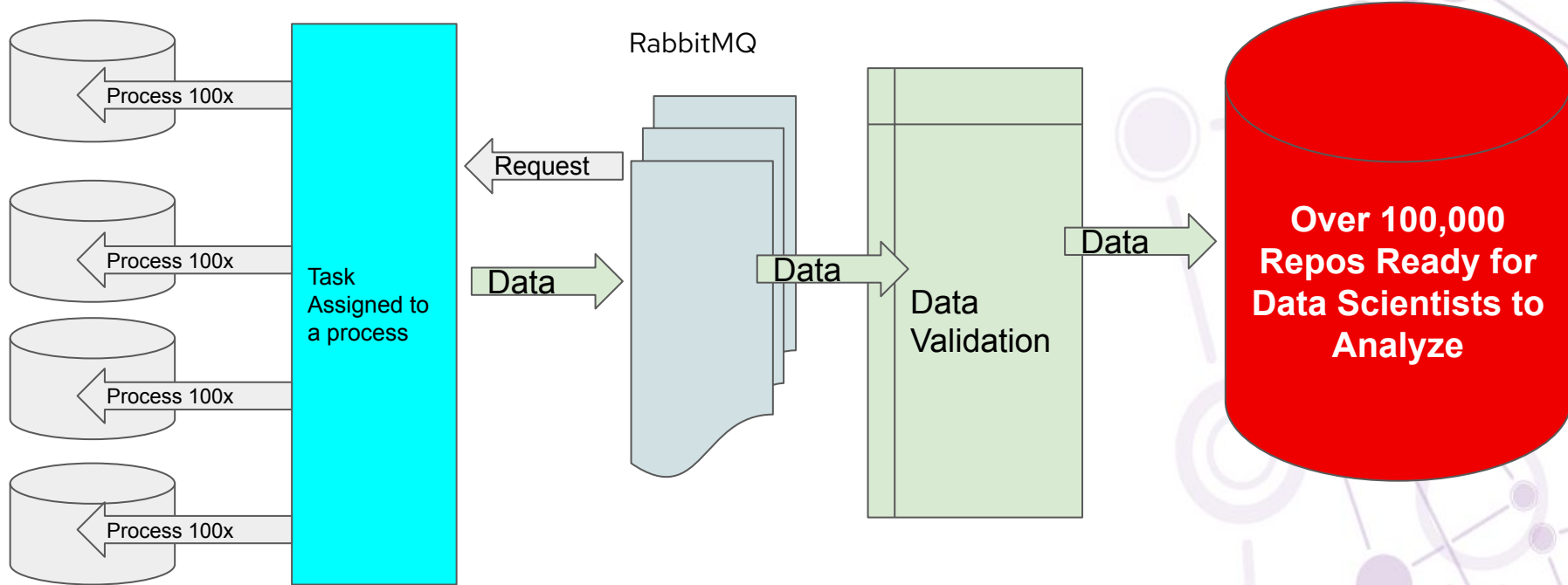
Structured
Data



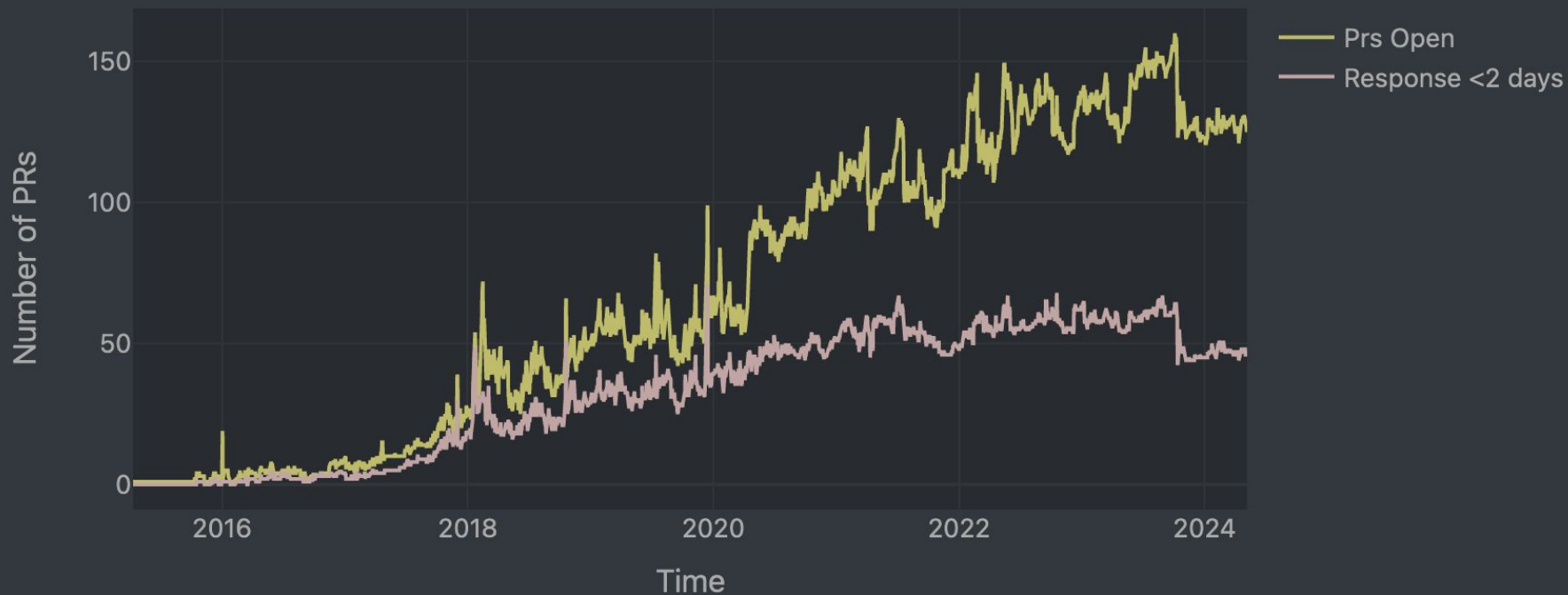
Validated
Data

Full Metrics Data: Open Source and Hosted

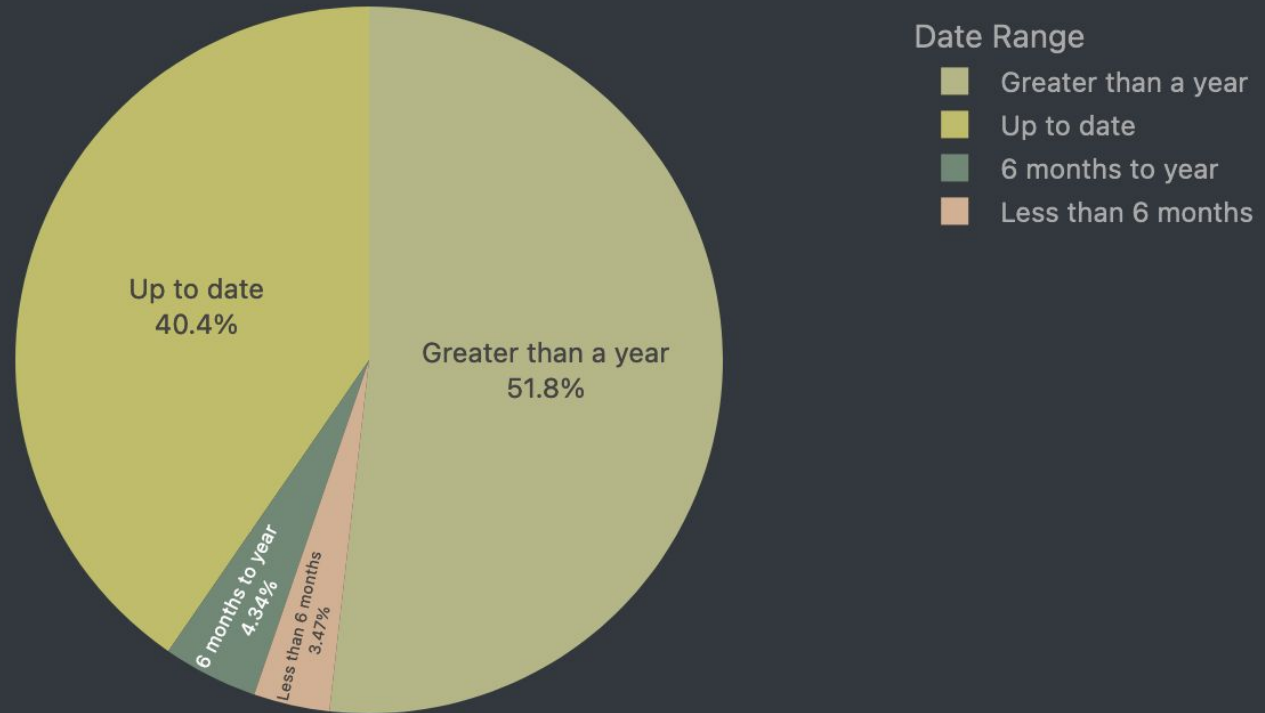
Augur: Scalable, Robust

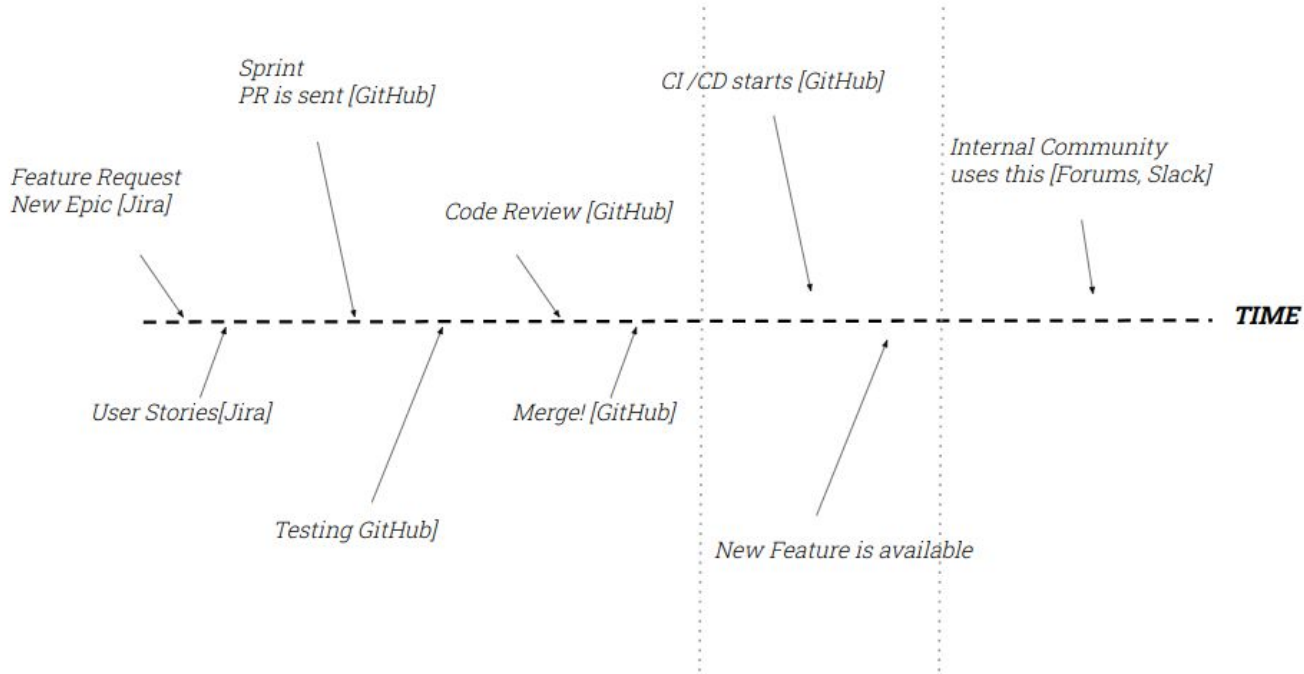


Pull Request Time to First Response



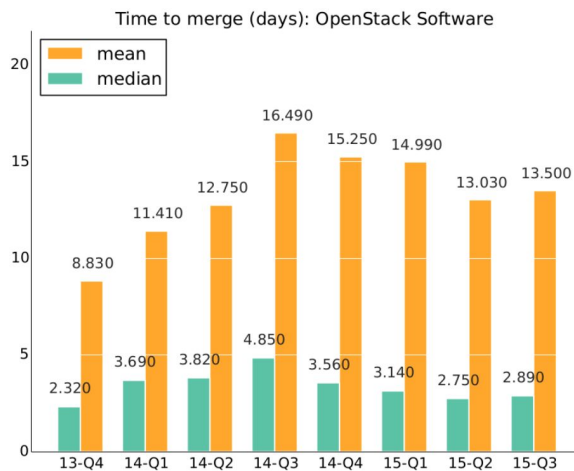
Package Version Updates





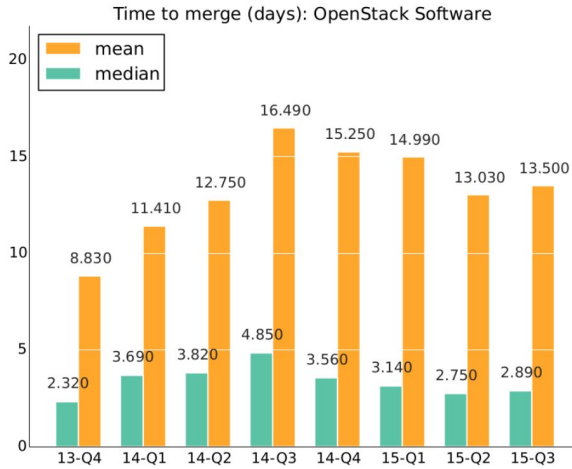
Based on the DORA Community Open Discussion on Code Review by Daniel Izquierdo - <https://dora.community/blog/2024-02-08-1>

GrimoireLab Code Review

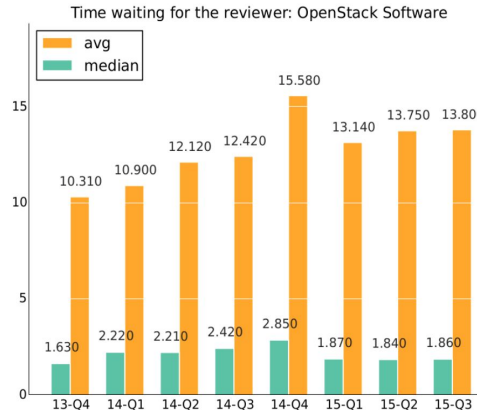
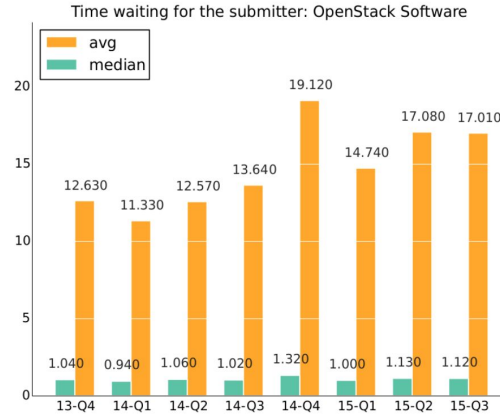


Time to merge - Code Review.
OpenStack Activity Report by
OpenStack Foundation and Bitergia

GrimoireLab Code Review



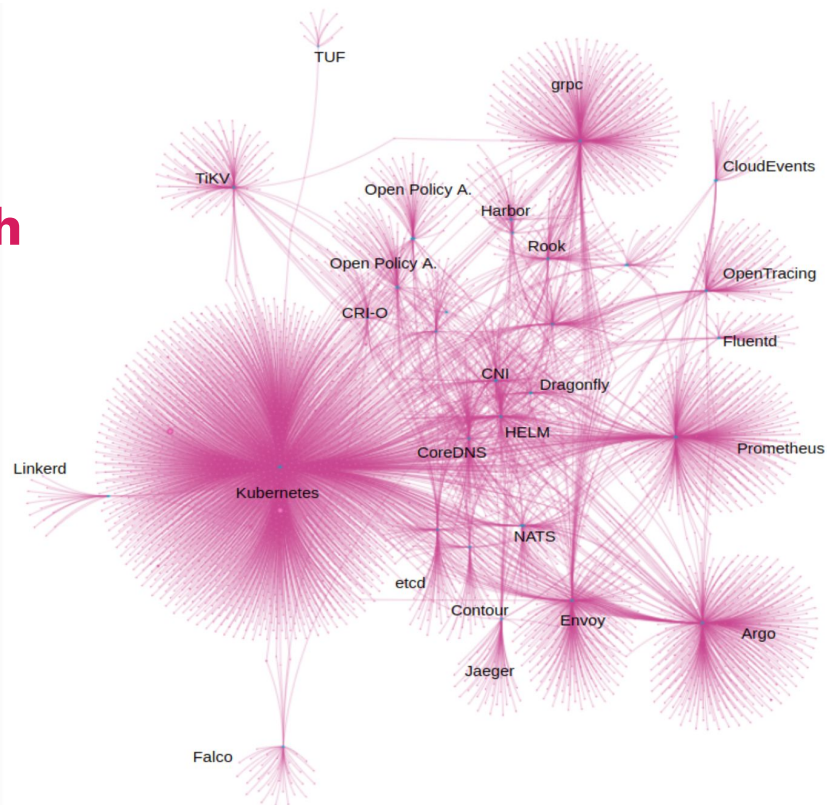
Time to merge - Code Review.
OpenStack Activity Report by
OpenStack Foundation and Bitergia



Submitter

Reviewer

GrimoireLab Relationship Graph



Collaboration chart across projects. CNCF - D. Mueller and D. Izquierdo-Cortazar, "From Art to Science: The Evolution of Community Development," in IEEE Software, vol. 36, no. 6, pp. 23-28, Nov.-Dec. 2019, doi: 10.1109/MS.2019.2936177. keywords:



The **OSPO Metrics working group** aims to advance how organizations understand the value that open source projects can provide as well as the value of these programs / initiatives. A joint effort between CHAOSS and TODO Group

<https://chaoss.community/kb/working-groups/>

The **ISPO working group** support ISPOs with materials needed to establish themselves, educate partners and stakeholders, and scale InnerSource in their respective company.

<https://github.com/InnerSourceCommons/ispo-working-group>



Discussion: Meetings, Slack. Meetings: CHAOSScon
Code: <https://github.com/chaoss> Podcast: CHAOSSCast
chaoss.community/about
chaoss.community/participate

How to Participate



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Community Health Analytics Open Source Software

CHA OSS is a Linux Foundation project focused on creating analytics and metrics to help define community health

Discussion: Mailing Lists, Meetings, Slack. **Meetings:** CHAOSScon

Code: GitHub. **Podcast:** CHAOSSCast

chaoss.community/about

chaoss.community/participate



THANK YOU