

A background graphic featuring a network of blue lines connecting various yellow circular nodes, set against a dark blue gradient. The nodes and lines are scattered across the frame, with a higher density on the right side.

LF Engineering updates to the community

Shubhra Kar - CTO

 THE **LINUX** FOUNDATION

Community Bridge is LF's automation platform to efficiently scale and serve 100s of projects

Key Services being automated:

- › Security Scanning
- › Single Sign-On
- › Analytics
- › License Compliance
- › Collaboration Tools
- › Mailing Lists and Chat rooms
- › Meetings & Webinars
- › DevOps
- › Voting
- › Project and Asset Management
- › Crowdfunding
- › Mentorship
- › Membership Management
- › Marketing
- › Meetup Management
- › More...



Services available today to use

Crowdfunding

Raise funding to sustain and grow your projects, or support projects that you depend on.

[VIEW PROJECT](#)

EasyCLA

Manage Individual and Corporate Contributor License Agreements effortlessly, with everything in one place.

[VIEW PROJECT](#)

Insights

V1

Understand your community and make informed decisions for your projects with our analytics and statistics.

[VIEW PROJECT](#)

IT Automation

Manage your complete IT infrastructure, from domains to source control to meetings, all in a simple interface.

[VIEW PROJECT](#)

Mentorship

Help develop the next generation of open source developers, get more people working on your project.

[VIEW PROJECT](#)

Security

BETA

Stay trusted and reduce risks. Scan your open source repositories to identify vulnerabilities.

[VIEW PROJECT](#)



COMMUNITYBRIDGE INSIGHTS

Introducing CommunityBridge INSIGHTS
Inspect, monitor and analyze the health of the most
important open source projects

Goals we can achieve with INSIGHTS

Members: Know which communities and software to engage with, communicate the impact the organization has on the community, and evaluate the work of their employees within open source

Projects: Attract new members, ensure consistent quality, and reward valuable members. Enable the projects to be more secure, privacy and GDPR compliant, diversified and scalable.

Contributors: Know where they should place their efforts and know that they are making an impact



360° contextualization

with multi-dimensional metrics from the ecosystem

End to End visibility:

With inspection into the Code and Ship pipeline

Identify the most critical

contributors and influencers and avoid burnout

Overview of CommunityBridge INSIGHTS

Linux Foundation's global monitoring and analytics service built to provide visibility into the health and growth of the projects and the communities it supports.

- Built **for the LF Communities**.
- Scalable (500+ projects across 62 large and small foundations)
- Built, Secured and Supported by **LF IT**
- [GDPR and LF Privacy Policy](#) compliant
- Multi-dimensional* views (Dev Analytics combined with Security, Licensing, CI, OPS, Marketing, Collaboration, Skill Sets, Mentoring, Events, etc.)
- 24x7x365 day support and weekly office hours

* Some components listed are in near term integration roadmap

Marquee Features - Available Today (V1)

- Metrics
 - Commits, Contributors, PRs/Changesets, Builds, Issues, Bugs, Documentation, Mailing Lists, Chat groups, and more.
- Automated Instrumentation
 - for supported data sources
- Dashboards
 - Intuitive and templated to scale horizontally
- Affiliations
 - Company affiliations for contributors and the larger community
- Identity Management
 - Unified community identity regardless of email or system IDs used in different places.
- Multi-Tenancy
 - Foundations and Projects have workspaces in the same secure and shared cloud
- RBAC
 - Secure Role based views and access control to the data

Data Sources Instrumented Today (V1)

Incorporates [CHAOSS](#) specifications and best practices

- Source Control Systems
 - Git
 - GitHub
 - Gerrit
- Issue Tracking Systems
 - GitHub Issues
 - Bugzilla
 - Jira
- Continuous Integration
 - Jenkins
- Documentation
 - Confluence
- Mailing Lists
 - Groups.io
 - Mailman/Pipermail
 - Patchwork
- Registry
 - DockerHub
- Chat Room
 - Slack
 - Rocket Chat





Demonstration

Roadmap - Short to Medium Term (V2)

- Self-Serve Identity and Affiliation Management for scaling (also in v1)
 - Gitdm
 - User Portal
 - GitHub Actions
- Integrate with CommunityBridge services to provide Multi-Dimensional views
 - Developer Analytics, Operations, Security Vulnerabilities, Mentoring, Marketing, License Compliance, Social, Membership, Events
- Instrument Additional Data Sources



Travis CI



MeetUp



circleci

Benefits we will all enjoy at the end of this journey

- Get **End to End visibility** into the codepipeline and identify bottlenecks
Issues → Commits → CLAs/DCOs → Reviews → Merges → Builds → Registry
- **Understand the project ecosystem better** with Multidimensional and Correlated data on commits/committers, security bugs, geo-based event growth, skills (trained and certified devs), membership growth, social impact, CLA and DCOs etc all.
- **Identify the most critical** contributors and influencers in the project's ecosystem with dependency and relationships. Prevent burnouts and abandonment

Sneak Peek into V2

- Trends, Pipelines and, Relationships



Onboarding Calendar - LF Edge

Wave 1:
(Stage 3)



Akraino- TSC- (Thursday) 2 July 7 am-
EdgeX- TSC -(Wednesday) 8 July 5 pm

Wave 2
(Stage 2)






































EVE TSC- (Wednesday) 23 July 8:30 am-
Home Edge- TBA
State of the Edge- TBA
Fledge- TBA

Wave 3
(Stage 1)



Baetyl- TBA
OpenHorizon- TBA

Onboarding Calendar - Rest of LF projects (in parallel)

CNCF	          ...
Hyperledger	     ...
LF AI	      ...
ASWF	      ...
LF Edge	        ...

Ways to collaborate on the project

- Insights URL: <https://lfanalytics.io/projects/lfedge>. New Domain coming soon
- Docs: <https://docs.linuxfoundation.org/docs/communitybridge/insights>
- Log Feedback:
 - Bugs
 - Feature Requests
 - Support Issues (Get Help)

<https://jira.linuxfoundation.org/servicedesk/customer/portal/4/group/54>

- Issue a Pull Request on: Git link coming soon

Rollout Plan

	<u>Week</u>				
	29 June	6 July	20 July		TBA
AK	◆				
EX		◆			
EVE			◆		
HE					◆
SOTE					◆
BTYL					◆
FL					◆
OH					◆
SDO					◆

Thank You

 THE **LINUX** FOUNDATION