



Hosting Projects with Open Mainframe Project



Mission of the Open Mainframe Project:

Build community and adoption of Open Source on the mainframe

- **Eliminating barriers** to Open Source adoption on the mainframe
- **Demonstrating value** of the mainframe on technical and business levels
- **Strengthening collaboration** points and resources for the community to thrive

Ecosystem of vendor-neutral hosted projects



Active Projects



Incubation Projects



Learn about all Open Mainframe projects at <https://www.openmainframeproject.org/projects>

Projects

Linux

z/VM

z/OS

Learning and Mentoring

Other

Logos for various projects including Feilong, IBM, Zowe, Polycephaly, MENTORSHIP, COBOL, ADE, Ambitus, ZOROW, IBM, Education, and others, categorized by Linux, z/VM, z/OS, Learning and Mentoring, and Other.



l.openmainframeproject.org

This landscape is intended as a map to explore open source projects within the mainframe industry, and also shows the member companies of the Open Mainframe Project.

Linux Distributions

Commercial

Community

Supported Projects

API Mediation Layer

App Framework

CLI

Logos for Linux Distributions (Commercial, Community), Supported Projects, API Mediation Layer, App Framework, and CLI, categorized by Linux Distributions, Supported Projects, API Mediation Layer, App Framework, and CLI.

Platinum

Silver

Academic Institution

Associate

Open Mainframe Project Member Company



Open Mainframe Project Momentum



5

years since
launch

36

Supporting
Organizations

12

Hosted
Projects

40+

Mentees
Sponsored

100+

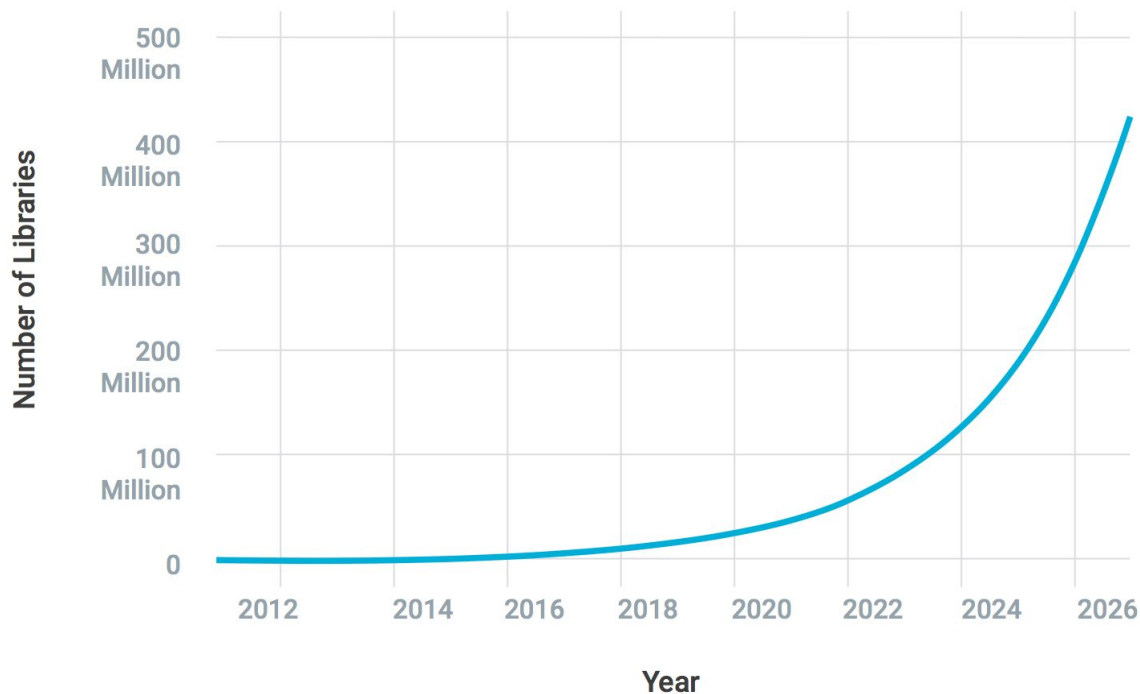
Students
Impacted

200+

Project
Contributors

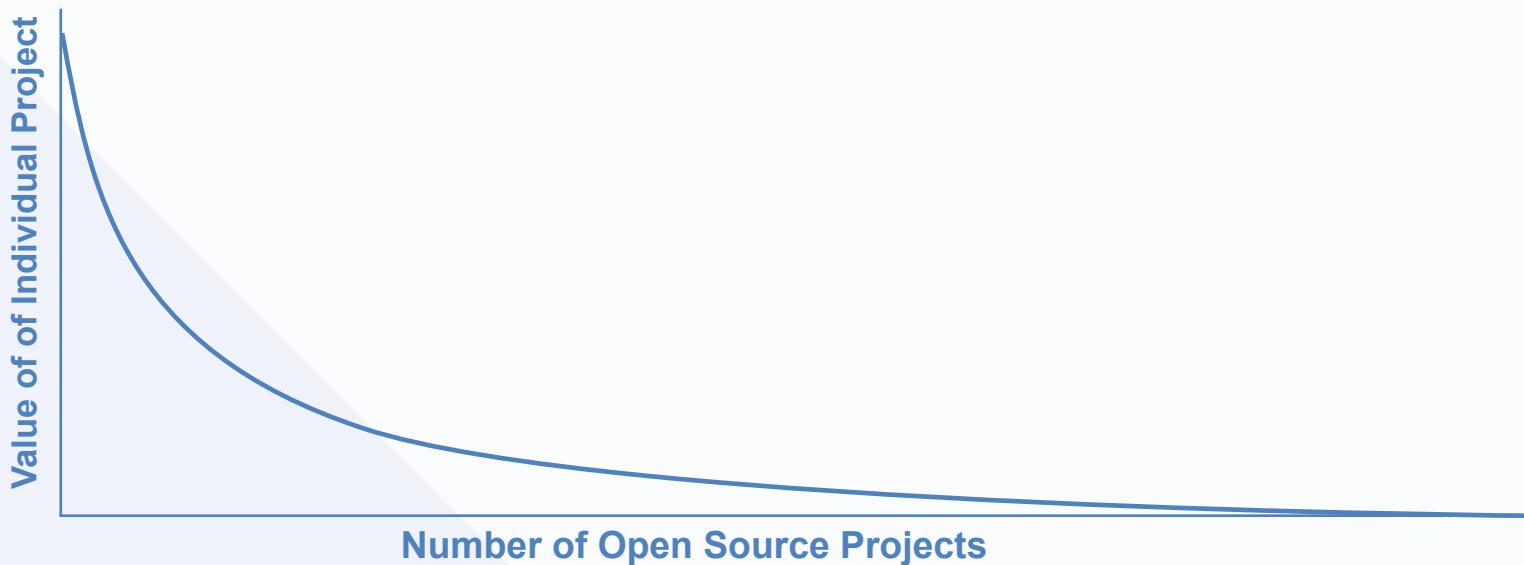
								
Academic Mainframe Consortium	ADP	Albany State University	Beijing Institute of Technology	Broadcom	Canonical	Coburg University of Applied Sciences and Arts	East Carolina University	EPSI
								
European Mainframe Academy	Guide Share Europe	Guide Share Europe - UK Region	GT Software	HTL Donaustadt	IBM	Goethe University Frankfurt	Marist College	North Carolina Agricultural and Technical State University
								
Phoenix Software International	Rocket Software	SHARE	Sine Nomine Associates	South China University of Technology	SUSE	Syncsort	University of Bedfordshire	University of Washington
								
University of Wolverhampton	Leipzig University	Vicom Infinity	Virginia Commonwealth University	University of Western Ontario	William Paterson University of New Jersey	Xidian University	YADRO	Zoss Team

Open Source Isn't Slowing Down Any Time Soon

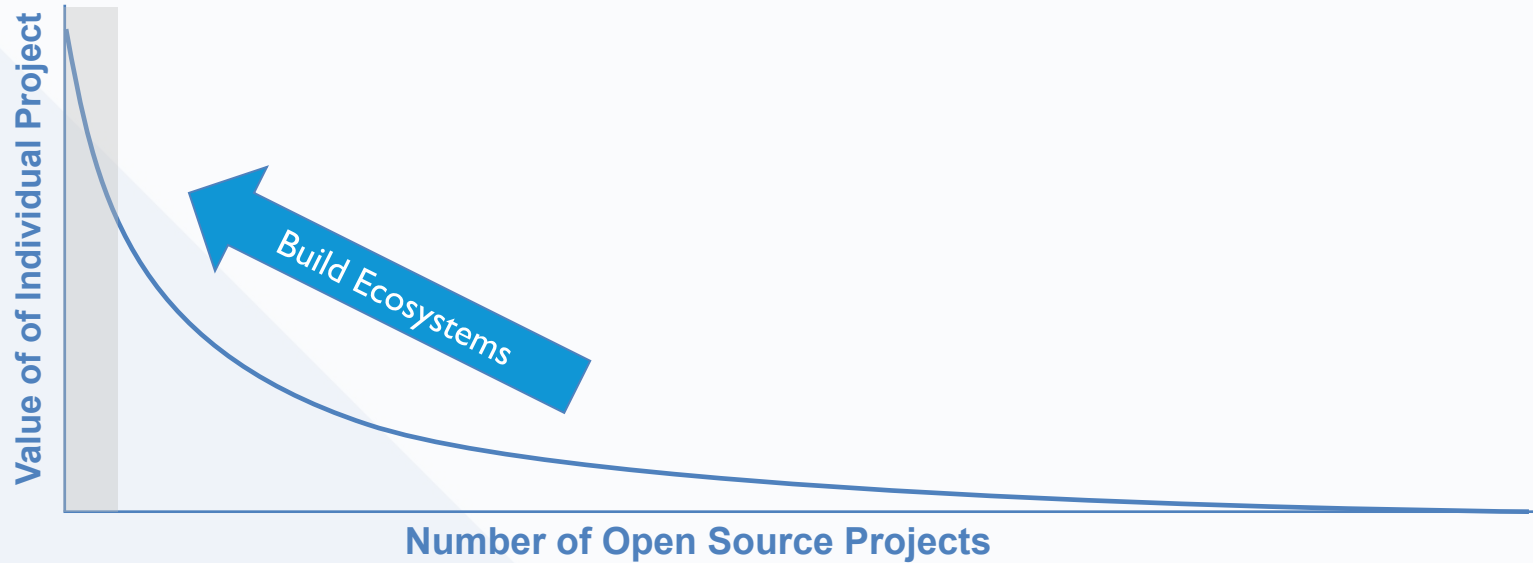


[:] SourceClear

The Real Question is Which Projects Matter?



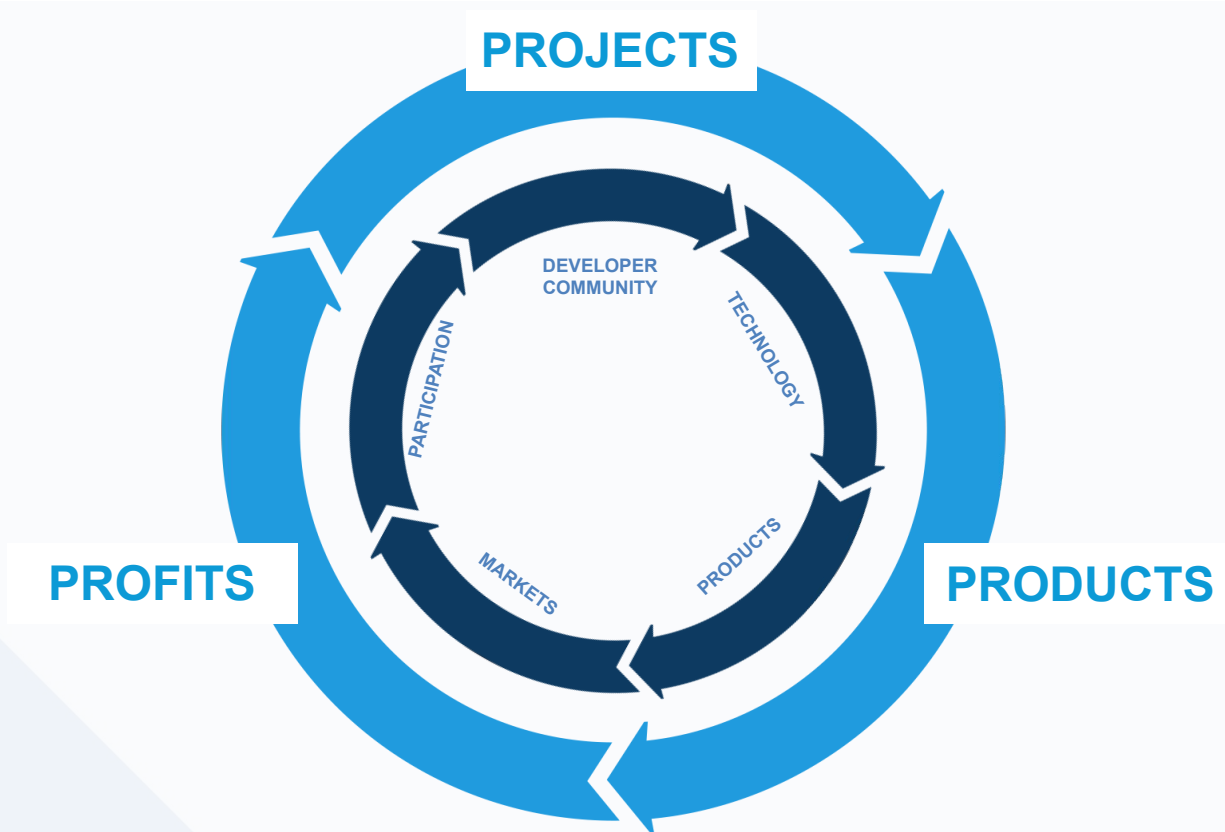
LF seeks to accelerate new projects to adoption and sustainability



The Answer: Projects With Sustainable Ecosystems



Sustainable projects have a developer community whose technology is used in commercial solutions that profit businesses, who in turn participate and reinvest back into the project and hire developers to work in the community.



Open Source on Mainframe - Ecosystem Challenges



Creating sustainable open source projects requires real work



Governance and Membership	<ul style="list-style-type: none">• Incorporation, Tax status, Bylaws, Member Agreements, Anti-trust, etc.• Ongoing business development and membership recruitment
Development Process	<ul style="list-style-type: none">• Technical Decision Making• Project Life Cycle• Release Process
Infrastructure	<ul style="list-style-type: none">• Custom infrastructure using open source best practices• Security and reliability
Ecosystem Development	<ul style="list-style-type: none">• Marketing• Events• Training
IP Management	<ul style="list-style-type: none">• Code Provenance and License compliance• Trademark management• Legal defense and Collaboration

Case Study: Zowe



OPEN **MAINFRAME** PROJECT

Zowe

*Linux Foundation focuses
on projects that matter*

Value of Individual Project

Major Problem

- Modernize integration with z/OS based applications and services
- Bridge the talent gap by enabling modern development stacks on z/OS

How LF Innovated

- 2018 Open Mainframe Project added Zowe
- 2019 Zowe reached 1.0, launched Zowe Conformant to enable downstream ecosystem
- Investments in collaboration, ecosystem development, and infrastructure

Results - 2020

- 20000+ Commits, 200+ committers
- Zowe gaining significant mindshare in DevOps community
- 20+ Zowe Conformant offerings

Number of Open Source Projects – Millions on Github



Why host your project
at Open Mainframe
Project?

The LF is the leading commons for community assets



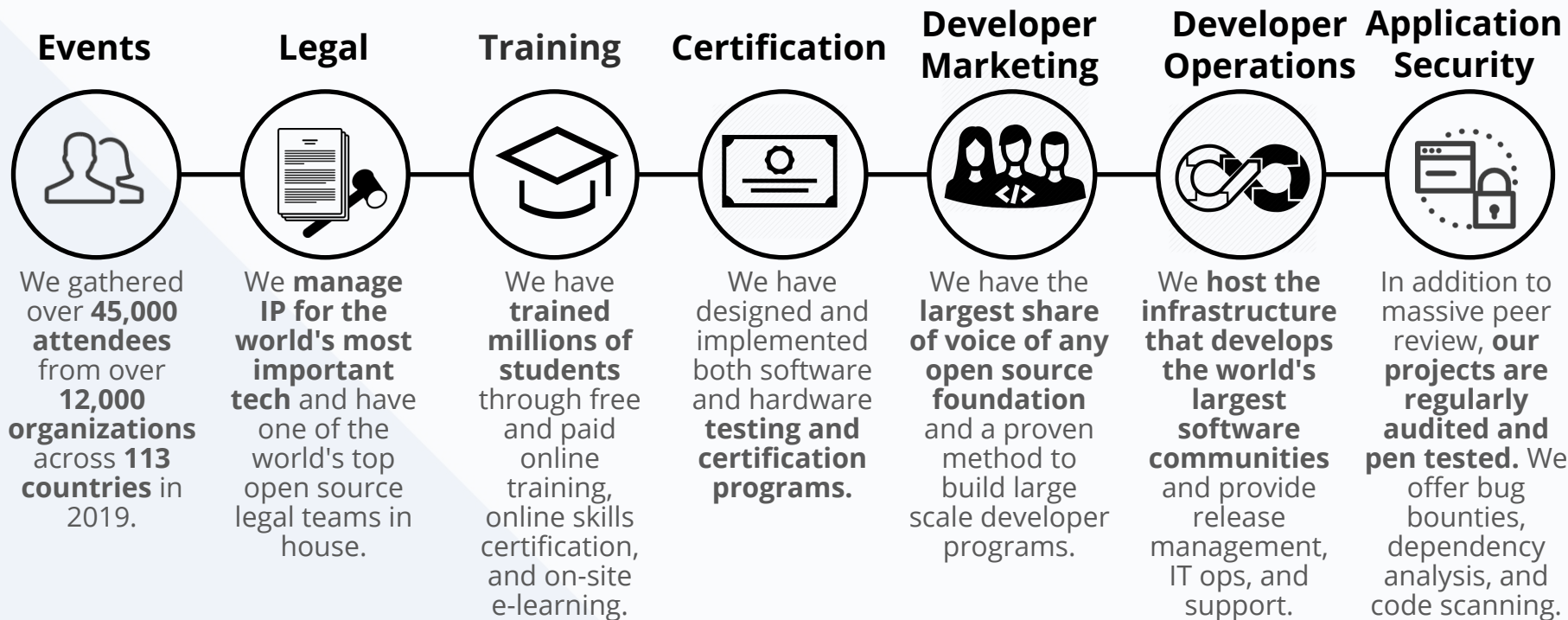
- The LF is the largest open source foundation, providing management of community assets for over 400 projects:
 - Over 3,400 source code repositories.
 - Over 700 trademark registrations and applications, plus hundreds of unregistered marks.
 - Over 700 project domains and DNS records.
 - Over 12,000 Contributor License Agreements signed for project communities that decide to require one.
- Neutral sponsorship for managing fundraising.
 - Over 1,600 unique member company relationships.
- Our communities raised over \$100 million in 2019 via over 6,500 invoices.
 - Our communities spent funds in over 180,000 separate transactions in 2019.
 - The LF reports its audited financials to its board.

Building an ecosystem around open source projects



- The LF has repeatedly shown its ability to build diverse ecosystems around open source projects incorporating developers, end users, tech giants, consulting companies, and startups.
- The LF hosts [Let's Encrypt](#), which provides the majority of the world's https certificates, and demonstrates our track record of helping to build sustainable, privacy-focused initiatives.
- The LF has a strong history of fostering a rich environment of downstream commercial and volunteer implementations.
 - There are hundreds of independent Linux [distributions](#).
 - There are over 100 [Certified Kubernetes](#) implementations, each of which has passed a comprehensive conformance test suite.
- CNCF has achieved unprecedented success in helping to grow awareness and adoption of Kubernetes, as demonstrated by Google Trends and KubeCon attendance.

Building large, sustainable ecosystems requires collective resources



What else can the Linux Foundation offer?



- The LF is a recognized and respected brand and can activate communications across tech, business, and social media channels.
- The LF runs one of the largest software training and certification [organizations](#) with millions of course graduates and hundreds of thousands of certified developers.
 - We can develop courses for AI, data, and analytics to train on using the apps and accessing the data.
 - We can also offer advanced courses for developers on integrating and customizing the upstream software.
- The LF runs the largest developer [conferences](#) in the world. (Due to COVID-19, these have currently switched to being virtual conferences.)
- The LF arranges third-party security [audits](#), privacy policy audits, and [bug bounties](#) for our critical hosted software.
- LF [CommunityBridge](#) offers paid internships with experienced mentors to increase the number and diversity of contributors.
- Submission of protocols to become ISO standards via the LF's [Joint Development Foundation](#).
- Hosting aggregated data projects, including via our [Community Data License Agreement](#)
- Other services including documentation, webinars, PR, and much more, with many examples described in the CNCF [annual report](#).

The Linux Foundation serves as a nonprofit home



- The LF has invoicing relationships with its 1,600 [members](#), representing nearly every significant tech company, hundreds of startups, and many government organizations.
 - We have strong relationships with all of the public cloud, mobile phone, and telecom organizations. For example, CNCF currently administers \$9M in [Google Cloud](#) credits and \$200k from [AWS](#) for our hosted projects.
- The LF can quickly receive and distribute funding.
- The mission of the LF, a 501(c)(6) nonprofit, is to support the creation of sustainable open source ecosystems and public health is a natural next focus.
 - The LF fee for fiscal sponsorship services, which includes audited financials, is 9% of the first million dollars per year and 6% of additional funds.

Question: Value of a Foundation?



There have been times when projects have asked what the value of an open source foundation can offer them?

A basic premise behind the LF, and open source in general, is that most interactions are positive-sum. There is no fixed amount of investment, mindshare, or development contributions that is allocated to specific projects. Just as open source development is based on the idea that, collectively, we are smarter than any one of us, open source foundations work to make the entire community better off. **Equally important, a neutral home for a project and community fosters this type of positive-sum thinking and drives growth and diversity that we believe are core elements of a successful open source project.**

Professional Services + Open Source Foundation



Open Mainframe Project provides a unique set of services for the mainframe community that goes beyond the simple mailing list, code repository, and website. You should host your project at Open Mainframe Project because:

Foundation

- A neutral home for your project increases the willingness of developers from other companies and independent developers to collaborate, contribute, and become committers.
- Endorsement by leading mainframe architects of the Open Mainframe Project's [Technical Advisory Council](#) is an independent signal of the quality of your project.
- Ability to leverage Open Mainframe Project mainframe infrastructure for your CI/CD needs.
- You will have access to funds for further investing in your project.
- Partner academic institutions and next-gen students will have visibility into your project, resulting in new committers and class projects to help strengthen your project.
- Your existing committers still control your project, and we just ask that you document a neutral governance process (and if you don't have one, [we have one](#) that's a good starting point)

Staff

- You can work with our full-time press relations and analyst relations teams to increase awareness of and excitement about your project.
- Receive regular reports on press mentions and comparisons to similar projects.
- Open Mainframe Project is able to leverage the expertise of its parent organization, The Linux Foundation, which hosts other successful projects including the Linux kernel, Let's Encrypt, and Node.js. For example, Open Mainframe Project has worked on cross project collaboration between Kubernetes, HyperLedger, and Cloud Foundry for improving mainframe support of those technologies.
- You will have access to full-time Open Mainframe Project staff who are eager to assist your project in myriad ways and help make it successful

Events

- Your project will have unique opportunities to participate in our annual Open Mainframe Summit.
- Our world-class events team work with you to showcase your project at [our leading open source events](#) worldwide.
- We also work to ensure your project is represented at key mainframe events and meetups worldwide, such as SHARE, VM Workshop, and GSE.
- We have travel funding available for your non-corporate-backed developers and to increase attendance of women and other underrepresented minorities.
- We will work with your community to offer a customized "event in a box", so that your team can easily participate in events worldwide with little overhead.
- We host virtual events, scaling from webinars to multi-day events
- And for all events, we can promote on social and our blog of the participation, as well as track community metrics to for your community to better understand the impact of participation on your community.

Unique opportunities for driving deeper awareness and engagement



Slack Channel

<https://slack.openmainframeproject.org>

OPEN MAINFRAME PROJECT COMMUNITY FORUM			
Calling SMAR from Linux		9	205
What Open Source tools are missing from OS/390 and need to be ported?	Compatibility	13	508
g: Welcome to the Open Mainframe Project Discourse Forum		9	942
Open Mainframe Academic Committee	General Knowledgebase	0	51
Cloudstack for z/VM Meeting July 21, 2017		1	123
Anyone doing Big Data on z?	Compatibility	9	370
Cloudstack for z/VM Meeting July 14, 2017		1	105
What can Mainframers do to best capture all of its capabilities?	General Knowledgebase	0	83
Cloudstack for z/VM Meeting June 28, 2017		2	130
Blockchain and the Mainframe	General Knowledgebase	1	89
Cloudstack for z/VM Meeting June 16, 2017		5	162
Open Mainframe Project Summer 2017 Interns	Academic Communications	2	116

Community Forums

<https://community.openmainframeproject.org/>



- Monthly interview series that highlights both new and old in mainframe
- Goal is to showcase why people have mainframe in their careers and their views of the technology and career field
- Read and listen at <https://www.openmainframeproject.org/category/blog/i-am-a-mainframer>



...and more!



Bringing your
project here

Anna Karenina Principle of Open Source



- › https://en.wikipedia.org/wiki/Anna_Karenina_principle
- › All happy open source projects are alike; each unhappy open source project is unhappy in its own way...
- › The “LF Way” is that there is no one way...
- › The LF assumes that each open source project is unhappy/different in its own way and that leads to building a unique governance and solution to sustain their communities...

Basic requirements for hosting a project at Open Mainframe Project



The project must:

- ❑ use an approved OSI open source license, preferably inline with the [Open Mainframe Project IP Policy](#);
- ❑ be supported by a [TAC member](#);
- ❑ allow neutral ownership of project assets such as a trademark, domain or GitHub account (the community can define rules and manage them);
- ❑ technical do-ocracy and separation of business governance from technical governance (we're flexible on the model) clearly documented in a charter;
- ❑ allow anyone to participate in the technical community, whether or not a financial member or supporter of the project

Often projects are new open source project, but that isn't a requirement - existing projects are welcome!

Project Preparation Checklist



- ☐ Prepare draft mission and scope statement
- ☐ Identify internal teams within mission and scope
- ☐ Identify developers internally
- ☐ Analyze code for identification of licenses, license quality and project dependencies
- ☐ Assess potential universe of project participants
- ☐ Identify ecosystem constituents and concerns of each
- ☐ Identify any trademarks leveraged by the project (these will be owned by the LF neutrally)
- ☐ Outline infrastructure, marketing any other requirements needed for the project
- ☐ Complete the [project proposal](#) and submit to the TAC for consideration

The Open Mainframe Project staff is happy to engage and advise during this process - let us know how we can help!

Project Trademarks



- › Our project communities control the name of the project, not any one member or company contributor
- › In order to provide for neutral ownership of project assets, we require that The Linux Foundation entities own the trademarks leveraged by the project.
- › In the event that a trademark is already in use by the sponsoring organization, we recommend that the project create a new name to operate under or the owner assign the interest in the mark to The Linux Foundation.
- › See <http://fossmarks.org> for an education on trademarks in open source



Learn more about the Open Mainframe Project

- Find out more and subscribe to our newsletter at www.openmainframeproject.org
- Organizational membership opportunities at <https://www.openmainframeproject.org/about/join> or email at membership@openmainframeproject.com
 - If you are ready to pursue corporate members, complete the paperwork at <https://www.openmainframeproject.org/about/join/now>



Thank you!