Managing an Open Source Project

A Checklist of Issues to Consider

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This resource is intended to be a conversation-starter for open source software project leaders, their collaborators, staff, and community. We know that some of these items are substantial, resource-heavy requests for an open science community and we don't intend that this is a comprehensive list of topics, nor a limiting one. ¹

Fundraising

Organizational Structure

$\ensuremath{\square}$ I have explored and chosen/developed an organizationa	ıl
structure(s) for the project	
\square Nonprofit	
\square Fiscally sponsored	
\Box Cooperative	

¹ This resource was first developed by attendees at the July 29, 2024 Chan-Zuckerberg Initiative community call for the Essential Open Source Software program. If you add to this document, please also add your name to the contributors list (alphabetically by last name). You can make contributions at this Github Repo

☐ Government Institute
$\hfill\Box$ For-profit - Company, LLC / Inc
☐ University project
\Box Using my personal checking account
\Box I have no idea yet, but have begun learning about these models
☐ If applicable, I have considered the relationship(s) of the project to my home organization(s) (e.g., lab in a university, project within an institute)
\Box I have formalized this relationship in writing
Bylaws, Legal, and Tax Considerations ☐ I have considered potential tax implications for me and the people I work with around the above fiscal model ☐ My project has a statement about transparently sharing finances, funding allocations, and the decision making process in an ongoing way with community members
Developing and Maintaining the Project
Managing Contribution
$\hfill\Box$ Our project has contributor's resources, which:
☐ Invite contributions from individuals of all skill levels and backgrounds, whether they involve code technical writing, mentoring, localization or other types of contributions.
☐ Outline what acceptable contributions look like

	Explain any obligations associated with contribu- tions (e.g., best efforts to support contributed code, including what happens when multiple contribu- tions interact in a way that leads to problems)
	Invite structured engagement methods before to prepare contributors for submitting contributions
	Motivate and encourage contributors to share ownership and governance of the project
	Details potential equitable access models to fi- nancial resources and incentives for substantive contributions
	Details about how sunsetting / simplification decisions are made across the project
	Details about how breaking changes / deprecation are communicated and enacted, with a means for community input during the process
Planning	for the future of your project
□ Our	project has a development roadmap
	This roadmap is used and referred to in the context of project planning and development priorities
	There are clearly documented procedures for how additions/removals to/from the roadmap are considered and discussed
	ve talked to users of our software to understand how v use our software
	We've published example use cases online

Marketing the Project

Communications plan

\Box We have a marketing and communications plan, and it includes:
$\hfill\Box$ Conferences (in-person and/or virtual)
\square Video Content (YouTube, etc)
□ Events
$\hfill\Box$ Social media
☐ Academic publications / pre-prints about the software and possibly results created with it, including submission to JOSS or another venue for software papers
\square Invited talks
\square Online information sessions
$\hfill\Box$ Training events / tutorials, perhaps at events where potential users gather
\square Hackathons
\square Community calls / meetups
\Box Synchronous communications means (slack, gitter, discord etc)
$\hfill\Box$ Asynchronous communications (mailing list, github issues, community forum)
☐ A periodic newsletter ☐ Weekly

\square Monthly
\Box Quarterly
\square Per Release
Documentation
\square Our documentation suggests how our project should be cited in publications and requests that users do this
Marketing
☐ As our community grows, we've got a plan to distribute the load of "marketing" across the project, not expecting that one person "does" all the marketing
☐ As a project, we're considering how our marketing needs may change and evolve and how we can encourage our community to conduct informal marketing on the project's behalf. To support this we've created a branding toolkit that includes:
 □ Short one/two page colorful collateral about the project □ Informative presentation slides
\Box Easily findable and accessible vector logos
☐ Template slides
□ Document templates
☐ Style guide (fonts, colors, logos and their acceptable uses)
$\hfill\Box$ Communication guides for community members
\Box Ways to get involved / contribute

Managing the Project at Scale

Community Roles

\Box We have identified the stakeholders responsible for prioritizing tasks, both technical and social
☐ We have developed and documented a process for agreeing to development goals and setting progress milestones
 □ This process is transparent and accessible to the community □ Outcomes of the process are communicated to the broader community
 □ We have identified incentives to encourage contributors and maintainers to work toward these priorities □ We have decided or have a process for deciding which parts of the project will and will not receive maintenance
Scoping
☐ We have decided and communicated what the project "never will be" - i.e., we have scoped down and communicated the technical goals of the project
Governance
\Box We have developed a project governance structure
$\hfill\Box$ The governance structure is published and accessible
\Box We have discussed and set goals for how the governance structures may evolve as the project grows
□ We have identified benchmarks or measures that are relevant to our community to signal that governance changes may be needed (e.g., low community participation in decision processes; retirements or career changes of key personnel)

☐ We have discussed whether or not the project would benefit from an advisory board
☐ We have developed plans for involving the community in designing and selecting the board
Community Health
$\hfill\square$ We are prepared to manage conflict in our project
 □ We have installed processes for identifying conflict as it occurs (e.g., in online spaces or in-person) □ We have a project Code of Conduct
☐ The reporting process is sufficiently explained and accessible
☐ We have delegated responsibility for fielding reports and ensuring they are addressed, with appropriate training and resources provided to those responsible
☐ We have considered and implemented ways to avoid burnout among key contributors and maintainers, including by asking for input from the community
Individual Growth
☐ There are clear, traversable pathways for users to move to contributors, contributors to move to maintainers, community members to take leadership positions, and other role transitions
\Box We have listed or illustrated the skills necessary to move between these roles
\Box We have strived to make these pathways accessible to all

Resources

Fundraising

 OSS.Fund's catalog of monetization platforms for open source builders

Developing and Maintaining the Project

- GitHub's "Setting guidelines for repository contributors"
- PLoS "Ten simple rules for helping newcomers become contributors to open projects"

Marketing the Project

• rOpenSci's "Marketing Ideas for Your Package"

Managing the Project at Scale

- Center for Open-Source Research Software Stewardship and Advancement (CORSA)'s governance resources
- Cloud Native Computing Foundation's "Roadmaps as a Way to Encourage Contributions"

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