Open Source at Uber

Brian Hsieh, Sr. Open Source Program Manager
Goals of this Presentation

Share Uber’s open source program structure and processes.

Open the conversation of how Uber can better engage and participate in the open source community in the future.
beginning of the story

Autonomy. Bottom-up.

https://eng.uber.com/uber-open-source/
310 repositories on GitHub today

Open source 1 repository/project every week since 11/2012.
the need to form an open source program

first program manager hired in 11/2018
Things to Consider

- Who are the stakeholders?
- What is the strategy and goals? What’s the budget?
- Who approves what? What’s the policy?
- Do people really know we have a policy?
- How much open source software have we used?
- How much open source software have we created?
- Do we have any checking tools in our SDLC?
- What’s the best practice of open sourcing a project?
- Who manages GitHub? Oh, and how many GitHub orgs do we have out there?
- Who is responsible for maintaining these projects?
- What’s the recognition mechanism?
- Partners, adoptions... do we know who and when and how?
- Who triages these issues? Should I worry?
- How do we engage with the community?
- ...
processes driven by the culture for the people
the teams at Uber

passionate, vibrant, diverse, energetic culture for innovation
Culture

We value ideas over hierarchy.

meritocracy. full transparency.

We do the right thing.

a good open source community citizen.
Enabling collaboration for everyone, everywhere.

Mission of Uber’s Open Source Program
Consume open source projects
M&A

Contribute to existing projects
Create new open source projects
Structure
the enablers: culture influencers & enhancers

open source program

security

legal

engineering

tech brand
The Principals

- support vs. direct
- facilitate vs. govern
- enable vs. block
- adapt vs. enforce
- distributed vs. centralized
technology selection is driven by the engineering team and the business needs
Contribute

contributing to the community is encouraged
Create

driven by the team and business

legal
licenses

IP
quality
brand
resource
strategy

engineering
Tech Brand
Supporters & Enablers

Open Source
Latest Articles

What Every Engineer Should Know About Open Source Software Licenses and IP

eng.uber.com
@UberEng

social media
community
content
events

www.meetup.com/pro/uber/
bus factor

documentation, tooling & automation
self-organization
todogroup.org

Everything you need to know to build an open source program office.
some of our projects

machine learning
infrastructure
visualization
Pyro

Horovod
H3: hexagonal geospatial indexing system
Jaeger- Distributed Tracing System
Now a CNCF project
vis.gl

- Installing a coding environment
- Building a Geospatial App
- Testing a Geospatial App
- Building a Graph Vis
- Custom Layers
- Embedding Kepler.gl

vis.academy

deck.gl

luma.gl

Open Source Summit Japan 2018
How Can We Help?

This is our new beginning.

We are learning as we go.

Let us know how we can do better.
Thank you