Why Robotics needs Open Source Communities

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ROS industrial,
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Why would you need Open Source Communities?

Story #1: Bosch
2015: Bosch becomes Eclipse Strategic Member
Adoption of Open Source practices

0 DENY
1 USE
2 CONTRIBUTE
3 CHAMPION

VALUE APPROPRIATED

ENGINEERING DRIVEN
BUSINESS DRIVEN

SINGLE PROJECT
SCOPE
MULTIPLE PROJECT

VALUE CO-CREATION
VALUE APPROPRIATION
COUPLING MANAGEMENT

TIME
“No company can realize the IoT on its own... Within the Eclipse Community, through the contribution of many IoT developers, tools and standards are created on an open platform that many companies can benefit from for their IoT applications.”

Stefan Ferber, CEO, Bosch Software Innovations
IoT platforms in 2018

450

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Playing the Platform Game
... and Win

Big fish eat small fishes

... but small fishes can build swarms
Lesson learned #1

Why would you need Open Source Communities?

*Because an Open Source community is a way to **become competitive** against bigger fish*
Why would you need Open Source Communities?

Story #2: MQTT
Invented by IBM and Arcom back in 1999
MQTT Google Trend

IBM Open Sources Messaging Client for Embedded Devices

The Open Source Community Made the Standard
Lesson learned #2

Why would you need Open Source Communities?

Because an Open Source community is a great vehicle to gain visibility and recognition.
Why would you need Open Source Communities?

Governance & Best Practices
Who is using OSS in his products?

80-90%

According to Forrester & Gartner
https://www.gartner.com/newsroom/id/801412
Who is a Good Open Source Citizen?

By JacLou DL, CC0 Creative Commons, https://pixabay.com/photo-2645966/
What is the trade-off?

F.R.E.E.
F like Feed your Community

- Create Getting Started
- Complete Documentation
- Use Social Media
R like Respect your Community

“Every bug report is a love letter”
Erich Gamma
Embrace your Community

- Go to conferences,
- Organise local events,
- Interact with User groups
- Meet other communities
Engage your Community

Organise
- Workshops
- Webinars
- Hackathons
- Challenges / Contests
Who can help?

Open Source Foundations
GitHub is how people build software

We're supporting a community where more than 40 million* people learn, share, and work together to build software.

October 2007
First commit

San Francisco
Headquarters

100 million*
Repositories hosted

* As of August 2019

We're working hard to build a supportive, welcoming place for users and GitHubbers alike. Learn more about our commitment to diversity and inclusion.

Publishing is NOT the Open Source Silver Bullet
The Platform for Open Innovation and Collaboration

The Eclipse Foundation provides our global community of individuals and organizations with a mature, scalable and commercially-friendly environment for open source software collaboration and innovation.

360+ Projects
1500+ Committers
280+ Corporate Members
30 Professional Staff
The Platform for Open Innovation and Collaboration

The Eclipse Foundation provides our global community of individuals and organizations with a mature, scalable and commercially-friendly environment for open source software collaboration and innovation.

1.5M+ Downloads / m
5M+ Active Users
2M+ Unique Visitors / m
360K Newsletter subscribers
Eclipse Foundation Strategic Focus Areas

- **Cloud Native Java**
  - JAKARTA EE
  - MICROPROFILE
  - OpenJ9
  - VERT.X
  - DL4J

- **Eclipse IoT**
  - IoT Cloud Platform
  - Edge Computing
  - Industrial IoT

- **Eclipse in Motion**
  - openMobility
  - openMDM
  - openPASS
  - openADx
  - openGENESIS

- **Tools**
  - Eclipse
  - Capella
  - Eclipse Che
  - THEIA

**Eclipse Foundation**
- IP Management & Licensing
- Governance & Process
- Community Development
- Infrastructure

https://eclipse.org/workinggroups
ECLIPSE FOUNDATION™

is launching an
Industrial Robotics Working Group
in collaboration with:

For more information, please contact:
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➢ Marco.Jahn@eclipse-foundation.org
Kind Reminder!

Open Source is a Journey, not a destination
Community

Thanks!

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