Why (EU) Research Projects need Open Source Communities?

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The Eclipse ecosystem

IDE (2001)
Platform/RCP/... (2005)
Working Groups (2009)
Research (2013)

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Eclipse Community by Numbers

130M lines of code per year
300+ projects
1 400+ developers
2M monthly visitors

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Recommended by European Commission

European Commission updates its open source policy

And why haven't we seen the same thing in the U.S.?

Government IT departments in Europe, over the past several years, have been eager to trumpet their interest in open-source software, and have been posting an interest in the EU's Open Source

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- Review: Stop insider attacks with these 6 powerful tools
- Review: Is white-box switching the future of networking?
- Review: Container wars: Rocket vs. Odnix Docker

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If I buy a Chromebook and can't get to grips with OS can I convert to Windows?

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‘Saiscez maintenant’
To protect your assets

Sustainability
To improve your assets

Sharing, Innovation

Guggenheim Museum, Bilbao, Spain
To improve your Visibility...

...over Millions of Open Source projects
To spread the word

Dissemination
Open Source Best Practices

Transparency

Openness

Meritocracy
A business-friendly license

Organizations compete and collaborate in open source ecosystem

Compete on products and services

Build this in and with open source, even if that means working with your direct competitors
OSS as a Research Catalyst
SOME EXAMPLES...
Supporting *coordinated use of modeling languages* leads to what we call the *globalization of modeling languages*, that is, the use of multiple modeling languages to support coordinated development of diverse aspects of a system.

**Sustain the GEMOC studio as a research platform**
- To support experimentations of new solutions by academics
- To support pilot projects by industry
- To foster relationships between academia and industry
- To help industrial transfer and innovation
CROSSMINER
Developer-Centric Knowledge Mining from Large Open-Source Software Repositories

- Source Code Mining
- Text Mining
- Configuration Mining
- Knowledge Extraction
- Cross-Project Relationships
- Advanced IDE
• Architecture-driven, Multi-concern and **Seamless Assurance and Certification** of Cyber-Physical Systems

• AMASS will create and consolidate a de-facto European-wide **assurance and certification open tool platform**, ecosystem and self-sustainable community spanning the largest CPS vertical markets.

• It will start by combining and evolving the OPENCOSS and SafeCer technological solutions towards end-user validated tools, and will enhance and perform further research into new areas not covered by those projects.
• Started in January 2017
• RobMoSys will coordinate the whole community’s best and consorted effort to build an open and sustainable, agile and multi-domain European robotics software ecosystem.
• RobMoSys envisions an integration approach built on-top-of, or rather around, the current code-centric robotic platforms, by means of the systematic application of model-driven methods and tools that explicitly focus on system-of-system integration.
The Eclipse ecosystem

It is all about building communities!

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thank you