



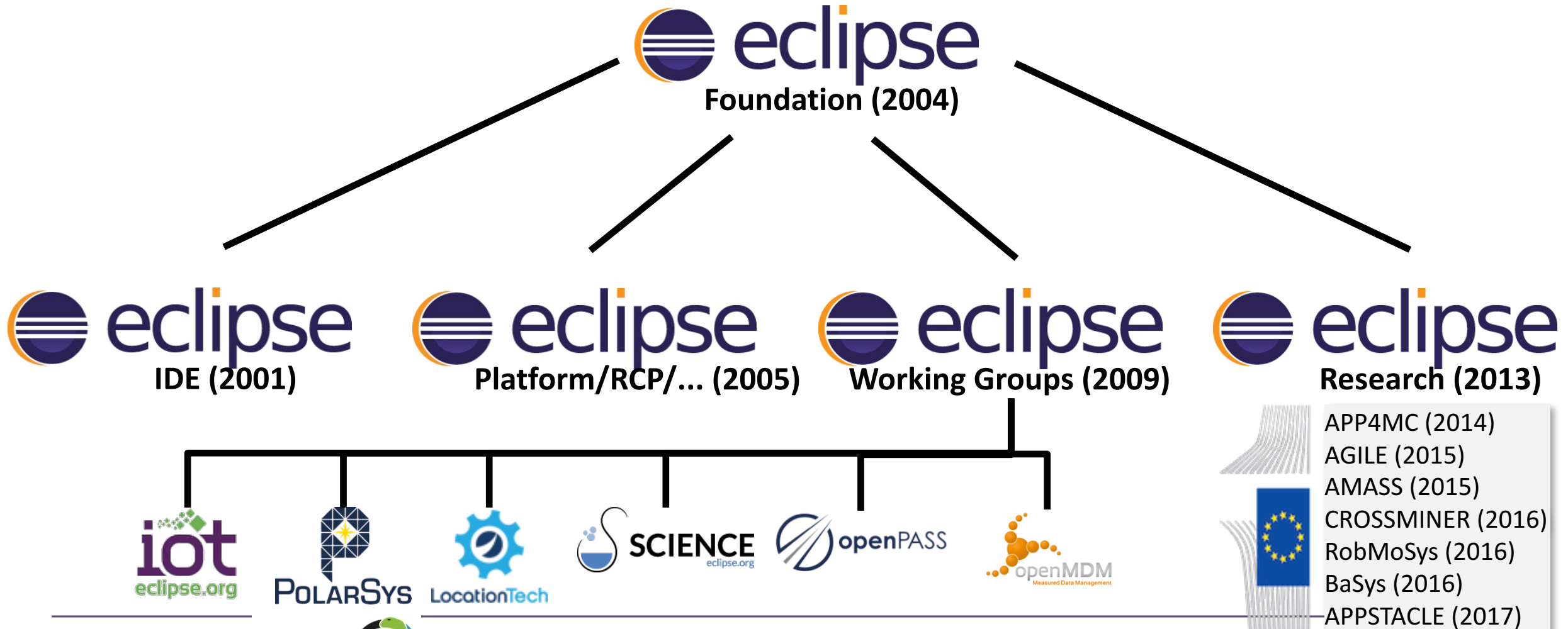
Why (EU) Research Projects need Open Source Communities?

Philippe Krief

Directeur des Relations avec la Recherche

Eclipse Foundation

The Eclipse ecosystem



Eclipse Community by Numbers



130M

lines of code
per year



300+

projects



1 400+

developers



2M

monthly
visitors

Recommended by European Commission



opensource.com
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European Commission updates its open source policy

Posted 12 Dec 2014 by [Gijs Hillenius](#) 30 readers



NETWORKWORLD
Home > Open Source Subnet

What's behind Europe's love affair with open-source?



Credit: Amio Cajander[Wikipedia], CC BY-SA 2.0

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

By [Jon Gold](#) [Follow](#)
Network World | Nov 30, 2015 2:34 AM PT

RELATED TOPICS
[Open Source Subnet](#)

Government IT departments in Europe, over the past several years, have been eager to trumpet their interest in open-source software — and have been backing their interest up with action.

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Programme de fidélité, ressources commerciales, outils marketing et plus encore : trouvez tout ce dont vous avez besoin pour développer votre activité.

*Des conditions générales s'appliquent. Consultez la page d'inscription pour en savoir plus. [S'inscrire maintenant >](#)

**To protect
your assets**



Sustainability

A photograph of the Guggenheim Museum Bilbao at dusk. The building's facade is covered in highly reflective, metallic panels that catch the light, creating a shimmering effect. The building is situated on a raised platform overlooking a body of water, which perfectly reflects the building's unique, curved forms. In the background, the city lights of Bilbao are visible against the twilight sky, and distant hills can be seen on the horizon.

**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



Products Added Value

Compete on products and services

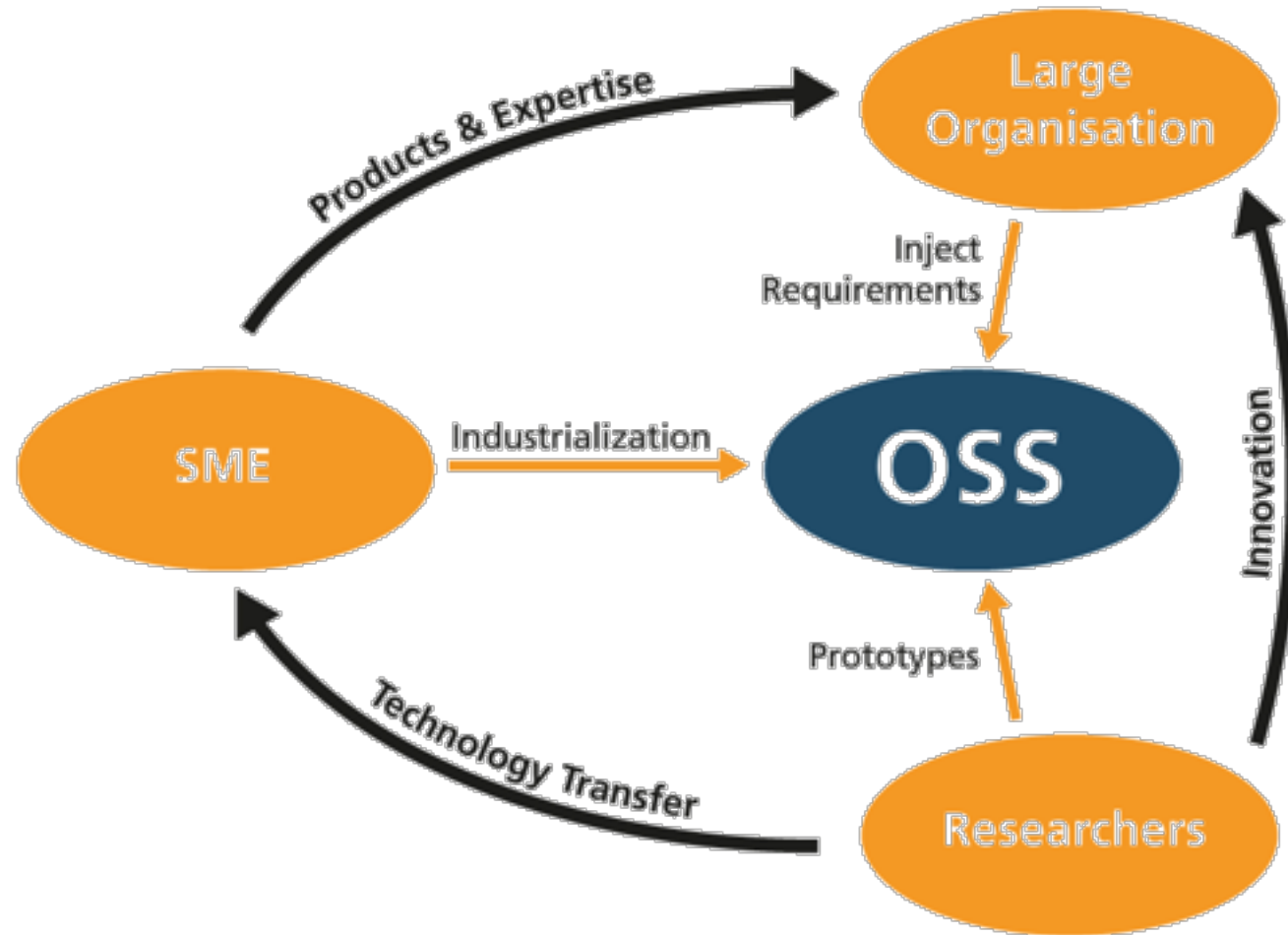


Platform

Build this in and with open source, even if that means working with your direct competitors

Organizations compete and collaborate in open source ecosystem

OSS as a Research Catalyst





SOME EXAMPLES...



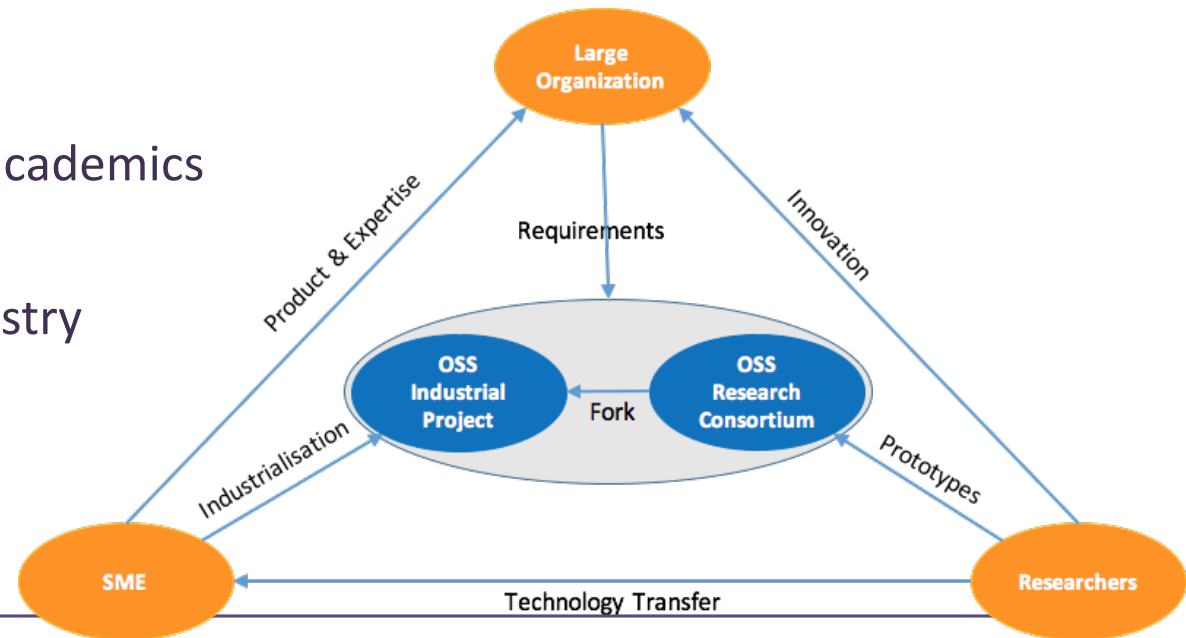
GEMOC Research Consortium



*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

CROSSMINER

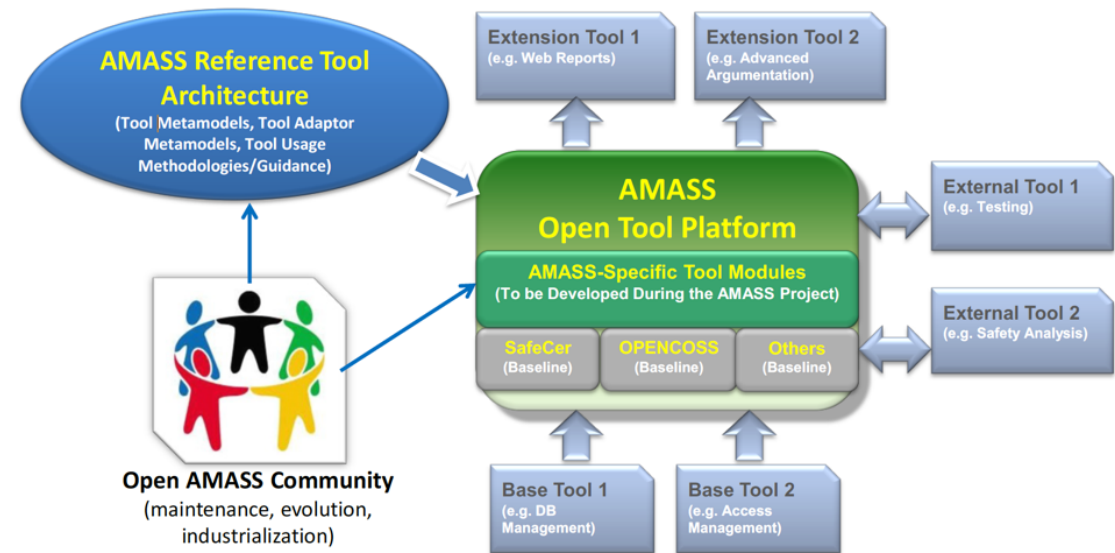


European
Commission

Horizon 2020
European Union funding
for Research & Innovation



- 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 OPENCROSS and SafeCer technological solutions towards end-user validated tools, and will enhance and perform further research into new areas not covered by those projects.



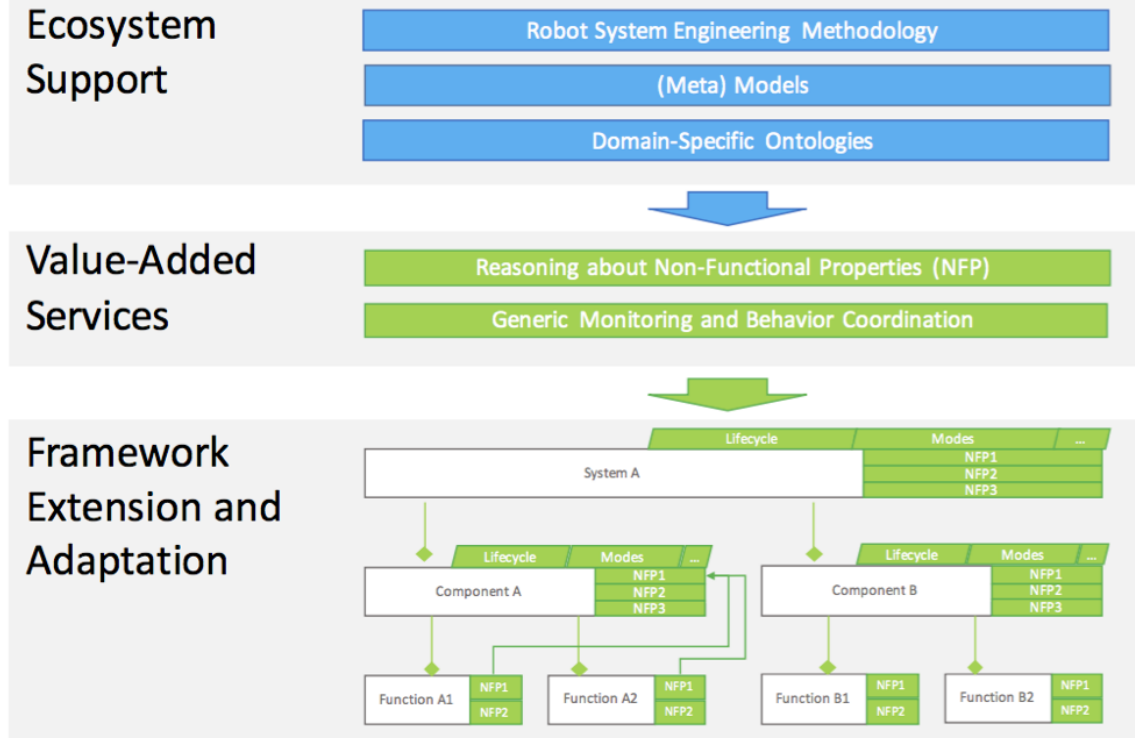


Composable Models
and Software
for Robotics Systems



RobMoSys

- 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!

