Towards an industry driven open collaboration framework: The creation of the Capella IC

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OPEN SOURCE?

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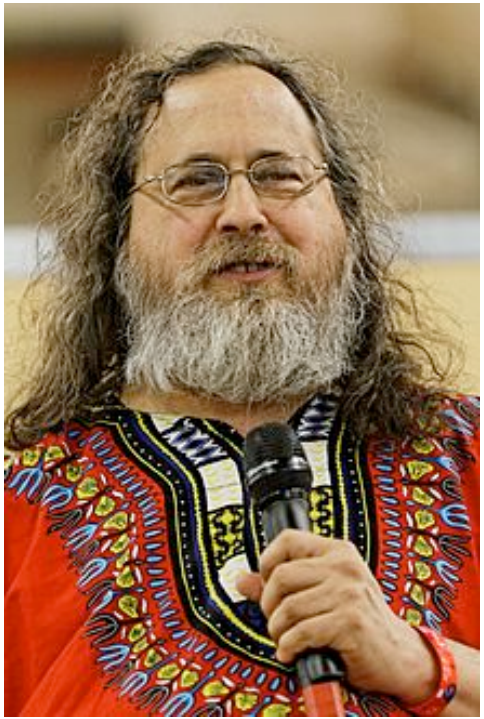
Hall of Fame



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The Ten Commandements

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- Modifications and derived works
- Integrity of author's source code
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- Distribution of license
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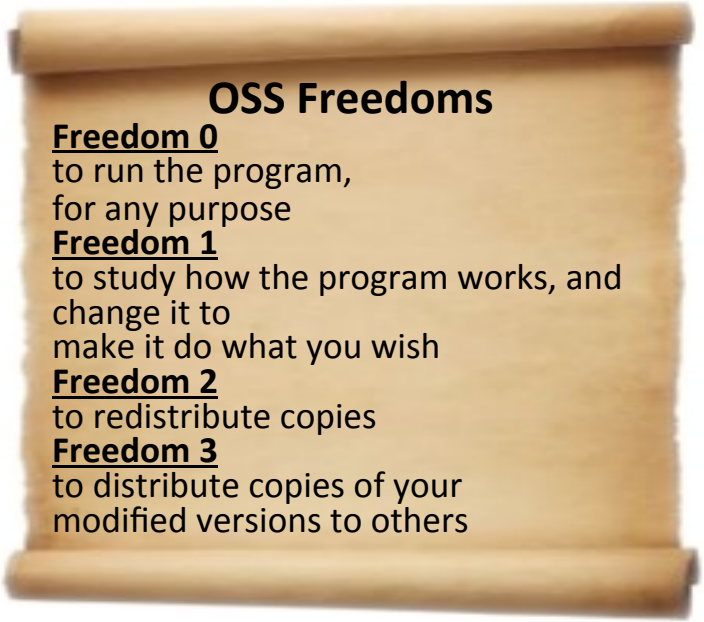
- License technology neutral



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Red Hat

https://en.wikipedia.org/wiki/Red_Hat

- Created in 1995
- In 2012, Red Hat became the first billion dollar open source company with US$1.13 billion in annual revenue

redhat.

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TRENDS

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Software is Eating the World

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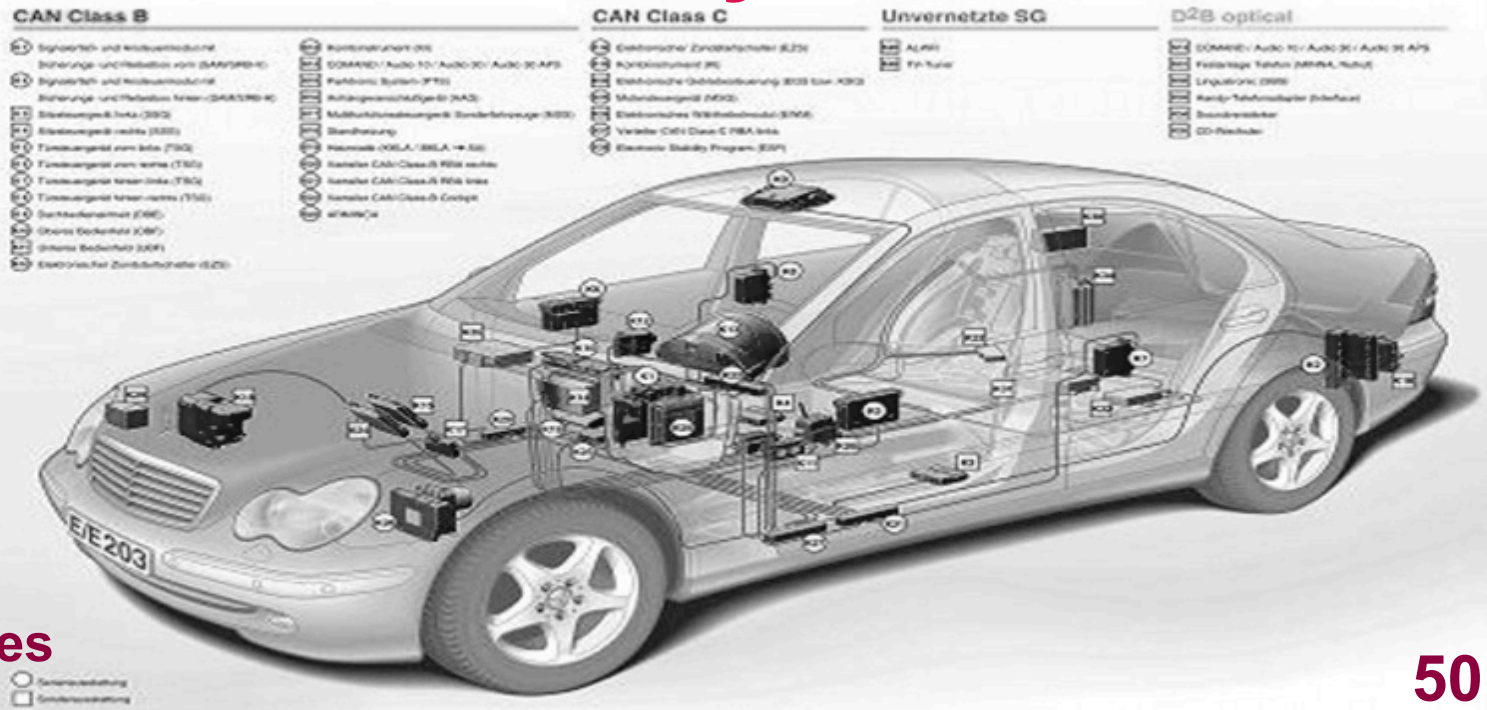
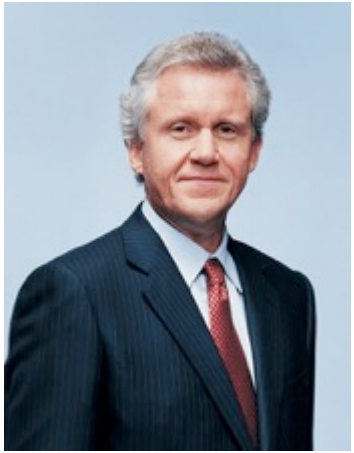
90% of automotive innovations are realised by software



Mercedes S-Class
Infotainment Subsystem
20 Mio. LOC

50 – 100 networked ECUs



GE CEO Jeff Immelt

“Every industrial company will become a software company”

http://www.ge.com/ar2013/pdf/GE_AR13_Letter.pdf

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Mike Milinkovich
Eclipse Foundation

“Every software company is an open source company.”

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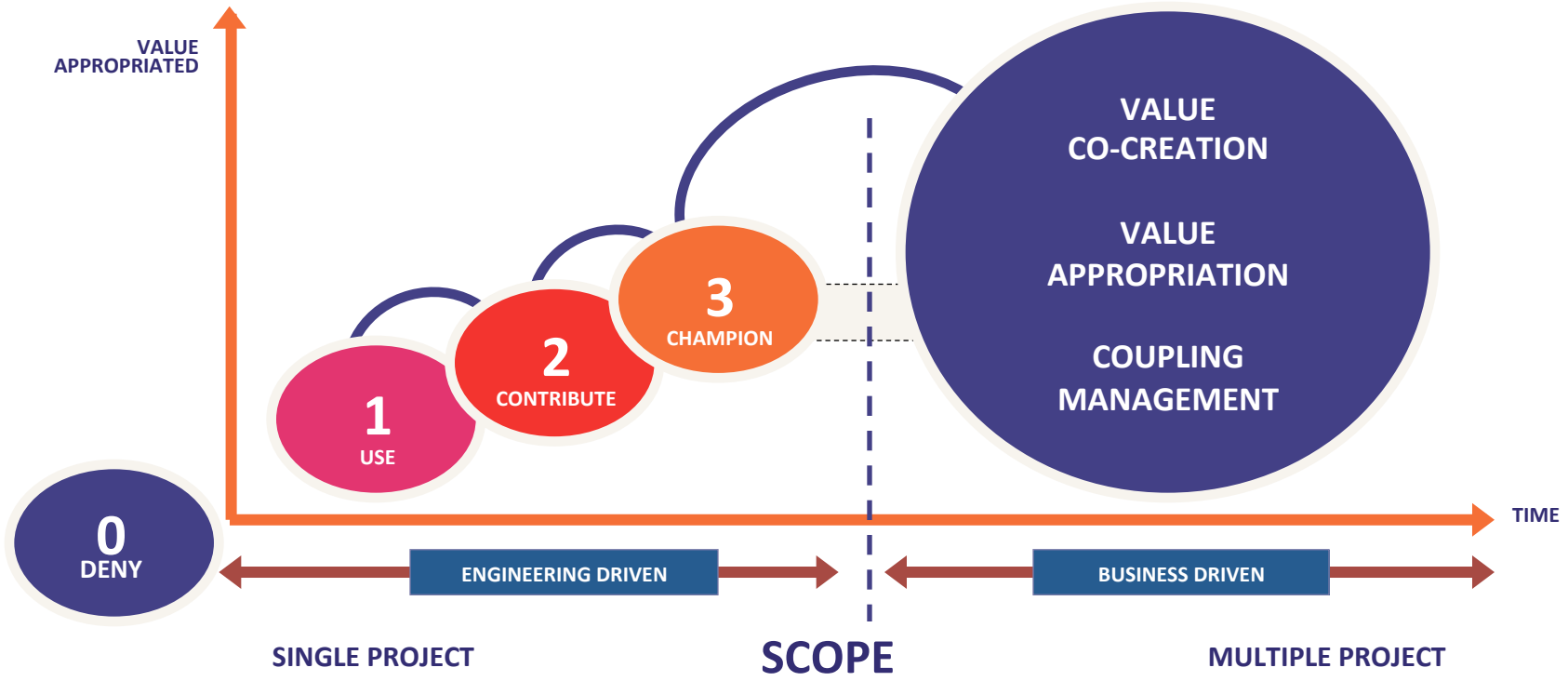
Maturity Model



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Open Source is now mainstream

- Previously, Open Source was synonymous of commoditization
  - Databases, Operating Systems, …
- Big Data, Cloud and Artificial Intelligence appear directly in Open Source

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THE ECLIPSE FOUNDATION AND OPEN SOURCE ECOSYSTEMS

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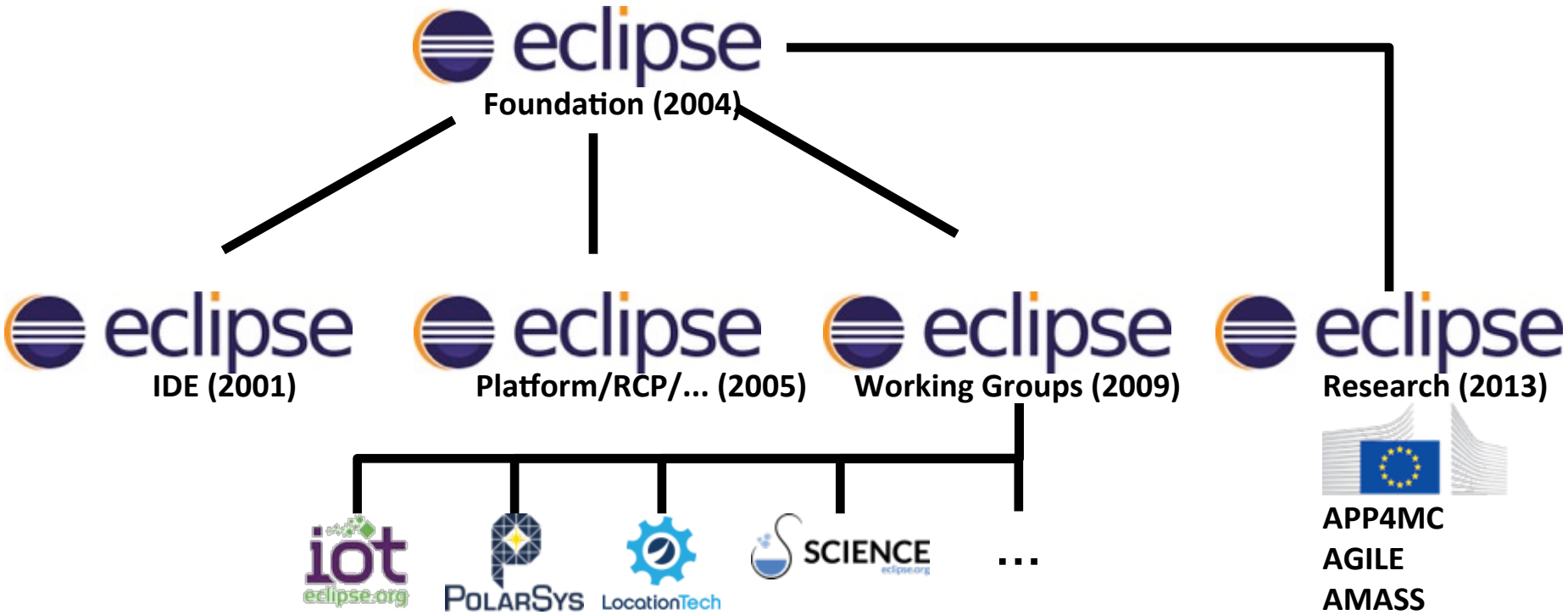
Once upon a time in 2001, …

The Eclipse ecosystem - It is all about building communities



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Eclipse Community by the Numbers

331
Projects

1401
Committers

1.2M
Downloads (monthly)

1.9M
Unique visitors (monthly)

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Eclipse Foundation by the Numbers

260
Members

6.3M
Budget

49
Events (annually)

8
Working Groups

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Strategic Members

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Transparency

Andrew Magill – flickr.com

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Openness

Chris J. Fry – flickr.com

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Meritocracy

cnn..com

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OPEN INNOVATION THROUGH OPEN SOURCE

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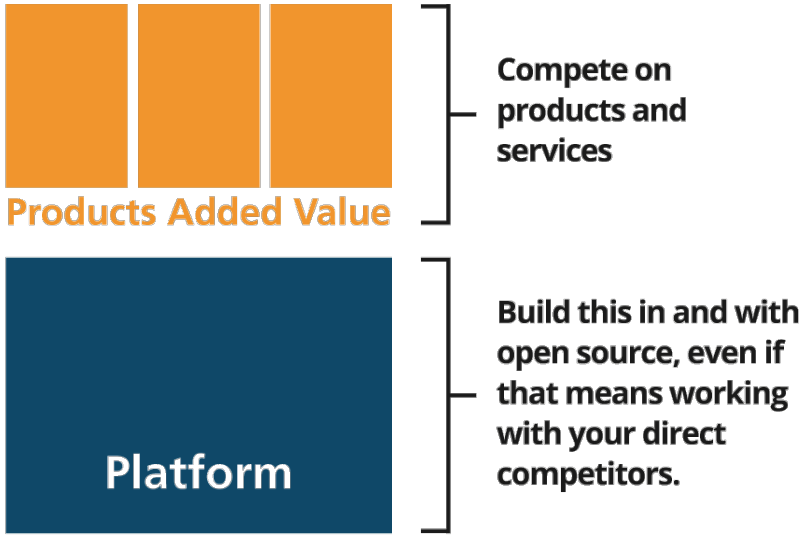
Business friendly open source ecosystems



Organizations compete and collaborate in an open source ecosystem.

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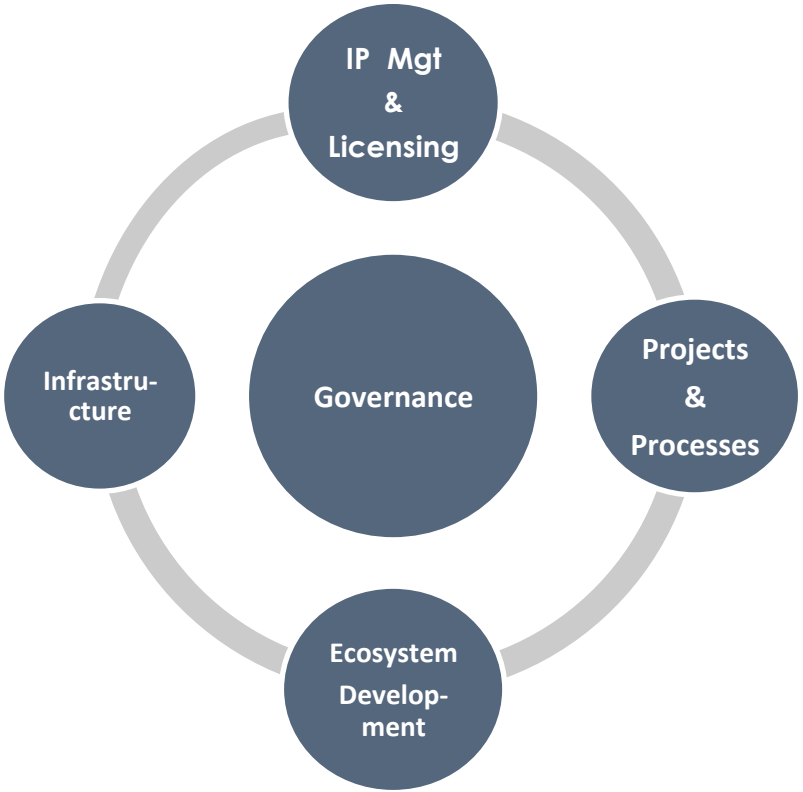
Pillars of open collaborations



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Enable open innovation with open source

Industry collaboration requires

- Licensing model for sharing co-developed innovation
- IP management to maximize commercialization opportunities
- Project model for coordinating investments and activities
- Governance model to ensure a level playing field for all participants

Eclipse gives you these "out of the box"

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THE CAPELLA ECOSYSTEM

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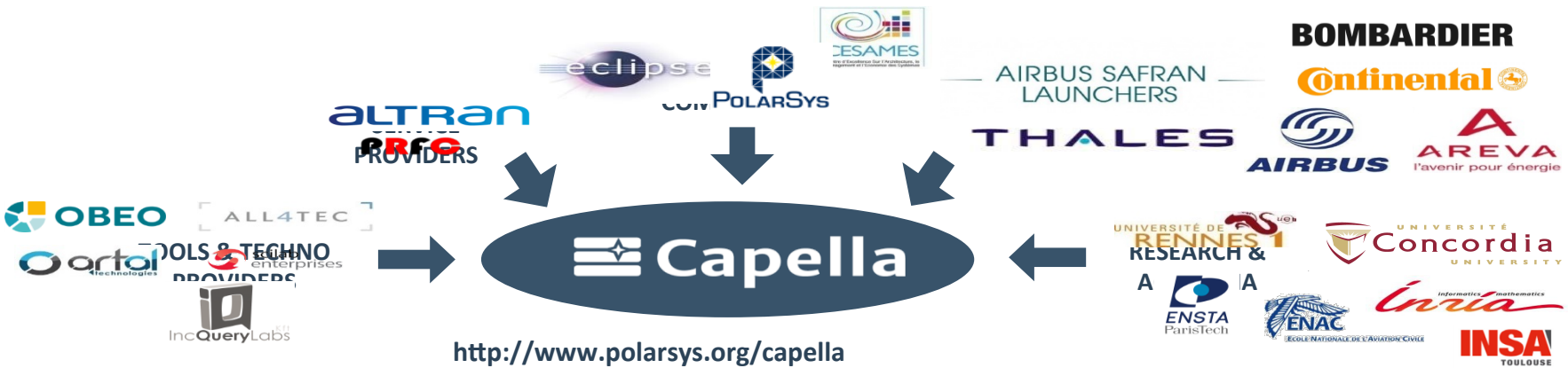
The Capella ecosystem



http://www.polarsys.org/capella

Initial 3-year (French) collaborative project

Larger industry consortium currently being initiated

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Without an open ecosystem (locked to one supplier)

Support / Maintenance	Arcadia Coaching	SE Outsourcing
Collaborative Addon	Arcadia Training	Safety Addon
Extension Dev	Capella Studio Training	Other Addons

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With an open ecosystem (several stakeholder/suppliers)

Support / Maintenance	Arcadia Coaching	SE Outsourcing
Collaborative Addon	Arcadia Training	Safety Addon
Extension Dev	Capella Studio Training	Other Addons & Services

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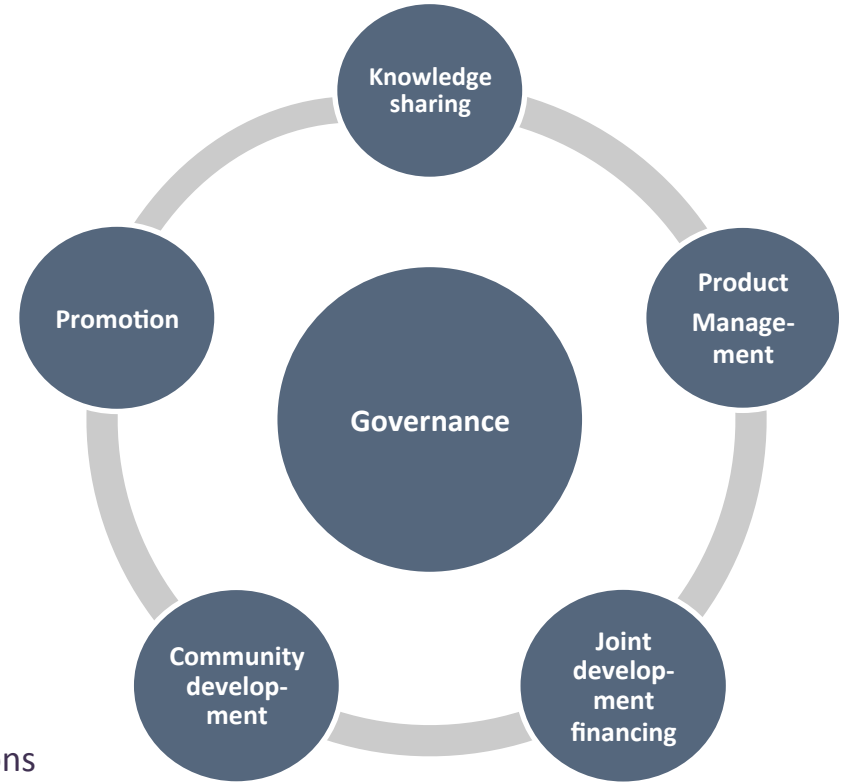
Capella IC Goals



Scope: Capella, Capella Studio, Underlying technologies, Add-ons

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Capella IC - Companies Involved

End-user companies

- Airbus, Thales

AIRBUS THALES

Suppliers

- Obeo, Artal, ESI

OBEO artal technologies esi get it right

Research/academia

Other organizations who have expressed interest

- Areva, ASL, Continental, Bombardier, ESI, Cetic, Fortiss, Pure System, Altran, Cesames, Inria…

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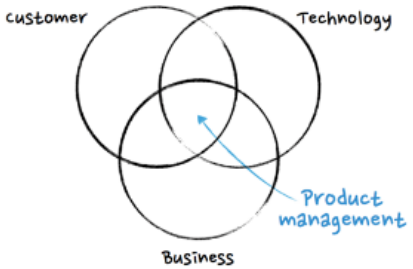
Capella IC Commitees

Steering Committee

Marketing

Product Management



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Membership Classes

- Driver Member
- Participant Member
- Academia Member

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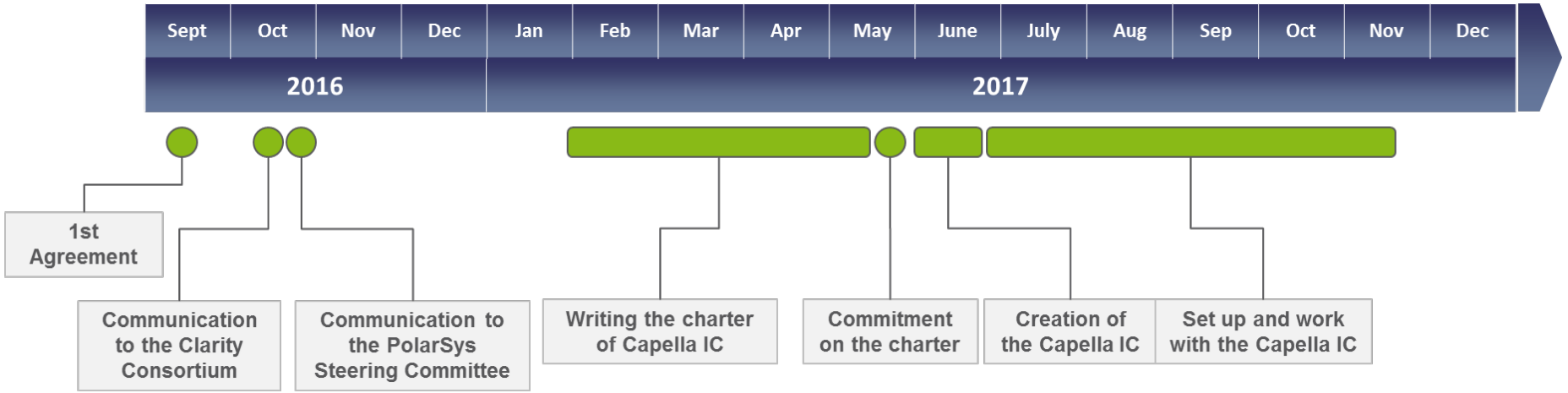
Roadmap



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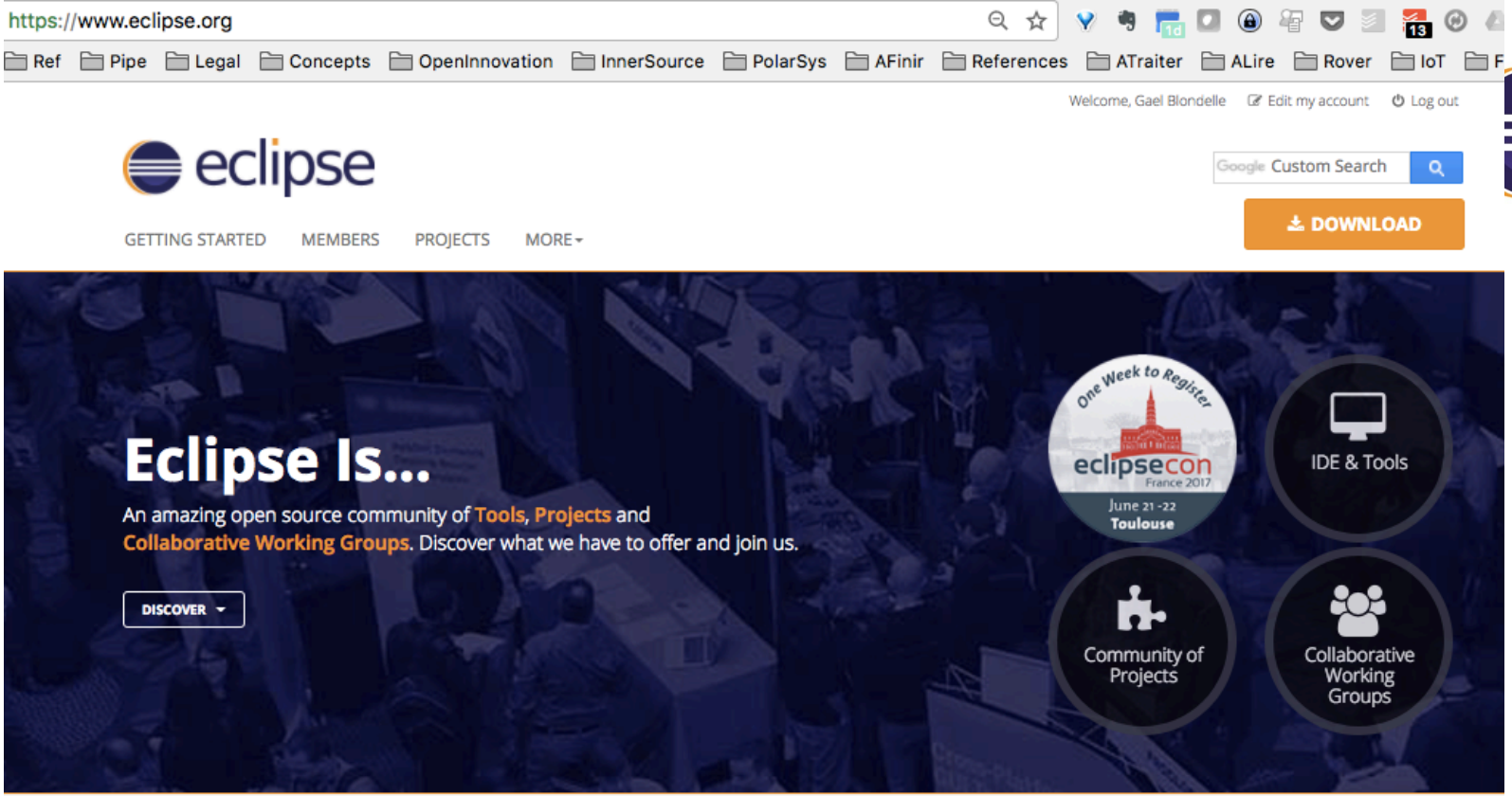
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One Week to Register
eclipsecon France 2017
June 21 -22 Toulouse
IDE & Tools
Community of Projects
Collaborative Working Groups
ANNOUNCEMENTS
2017/06/20
Capella Industry Consortium (IC) at PolarSys
Capella IC to host the Capella Ecosystem stakeholders in a vendor neutral way, organized by an open governance model.
COMMUNITY NEWS
2017/06/05
Docker Container Support in CDT
In this article, Jeff Johnston explains what all that buzz is about and how to support Docker Containers in Eclipse CDT.
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Sécurisé https://www.polarsys.org/capella-ic-announced

Perso Ref Pipe Legal Concepts OpenInnovation InnerSource PolarSys AFinir References ATraiter ALire Rover IoT Fun DOI

Capella IC Announced

20 JUN 2017

A proposal has been made to establish the **Capella Industry Consortium** (IC) at PolarSys.

The vision of the Capella IC is to host the Capella Ecosystem stakeholders in a vendor neutral way, organized by an open governance model. It will allow them to better collaborate, share investment and best practices, and leverage Open Innovation to co-develop new MBSE capabilities.

The main goal of the consortium is to support the Capella solution, in association with the field-proven Arcadia methodology, to become the leading Model-Based Systems Engineering (MBSE) solution. Targeted for industrial users, Capella provides a mature, full-featured, sustainable solution which can be widely distributed as an open source alternative to existing proprietary modeling tools.

Capella INDUSTRY CONSORTIUM

The official announcement of the Capella IC will take place on June 20th as part of Capella Day, the first event dedicated to the Capella community, held in conjunction with EclipseCon France 2017. You are invited to review the draft **Charter** and provide comments on the PolarSys mailing list at polarsys-iwg@eclipse.org.

SIGN IN to post comments.

ABOUT POLARSYS

Get more information

If you have a question, or want to get more information, just send an email to info@polarsys.org.

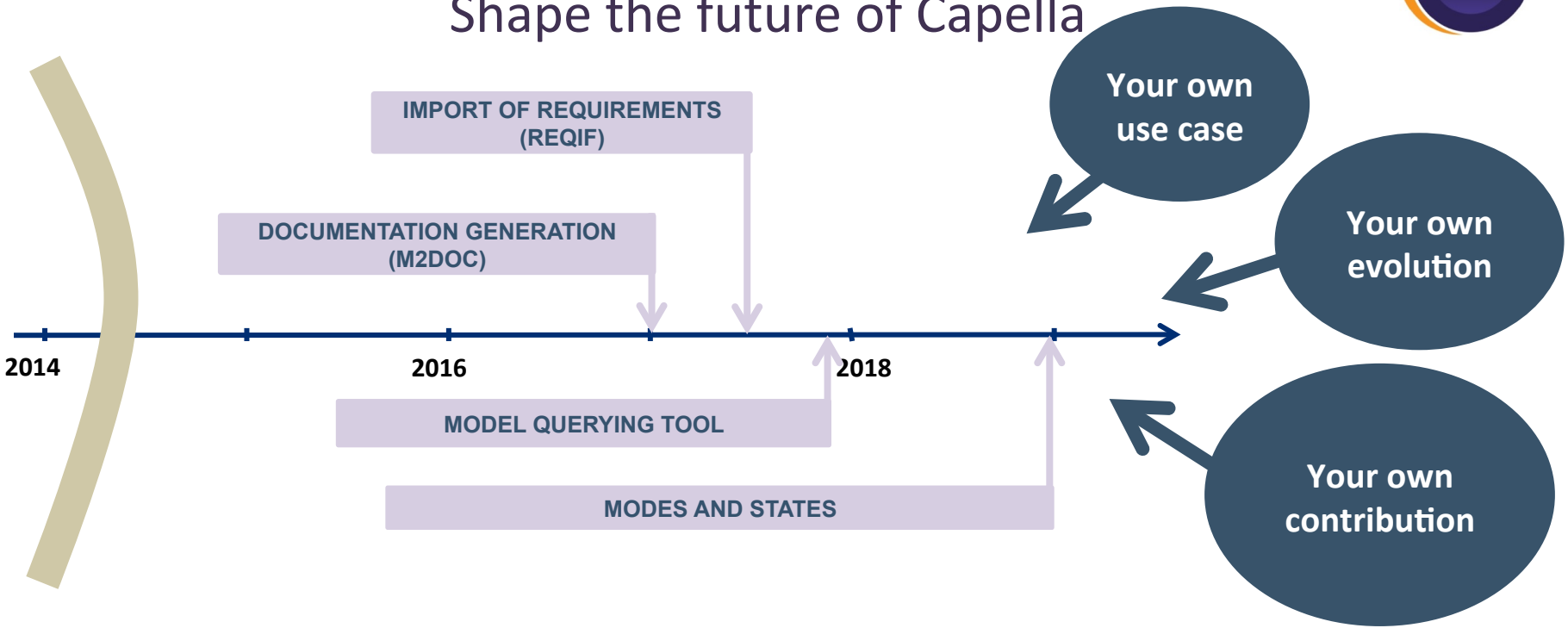
Mailing list

The best way to join the discussion is to subscribe to our mailing list.

Contact points

PolarSys chairman: Benoit Langlois
Marketing leader: Charles Rivet
Technical leader: Etienne Juliot

Shape the future of Capella



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Involvement ways

- **Membership Fees**
- **Resource allocation**
  - Implication on different aspects of the consortium activities
    - Involvement required by the different committees
    - Participation to events
- **Technical contributions**
  - User's REX & Operational Use Cases
  - Development of specific aspects of Capella and related open source components
  - Others…

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Thanks!

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