

OpenSource ist nicht gleich OpenSource

Michael Plagge, Eclipse.org | June 2021

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The Open Source Foundation of Choice in Europe With a global presence, reach and reputation

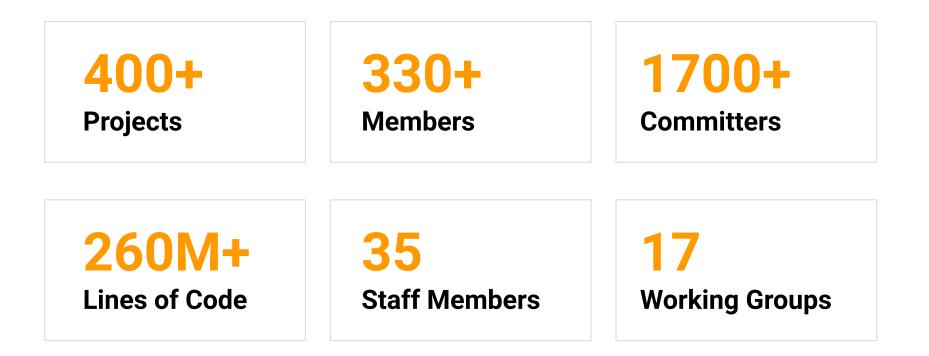
Eclipse Foundation AISBL is based in Brussels Under EU-based laws and regulations and hosting code in Europe

Visit eclipse.org/europe



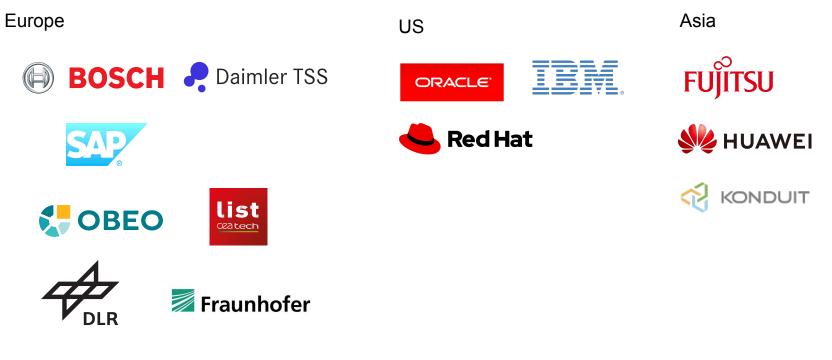
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The Eclipse Foundation - By the Numbers





Backed by Global Industry Leaders

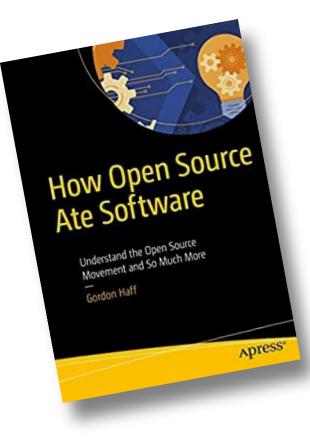








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...then open source gobbled up software



Who is using OSS?

80-90%

According to Forrester & Gartner https://www.gartner.com/newsroom/id/801412



The open source advantage

3x

1044

"...top-quartile company adoption of open source has three times the impact on innovation as compared with companies in other quartiles." Source: <u>McKinsey</u>

100%

productivity improvement seen by firms contributing to open source.

Source: Harvard Business School

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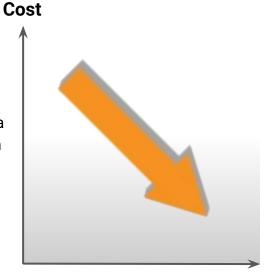
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The shifting impact of open source



Before:

Open source as a commoditization strategy (OSes, LAMP)



Open source participation

(# of projects, contributors, ecosystem participants, lines of code)

Value

Now:

Open source is how innovation happens (Big Data, Cloud, Al, Edge, IoT)

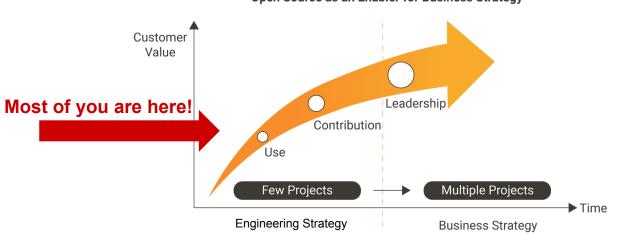


Open source participation



Open source as a strategic enabler





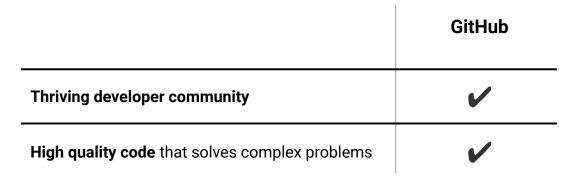
Open Source as an Enabler for Business Strategy

Participation in open source has emerged as a potent force for competitive advantage



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How to get started with contribution - The first idea



So which Open Source License should I use ?



There is only one definition of Free Software (since 1984)

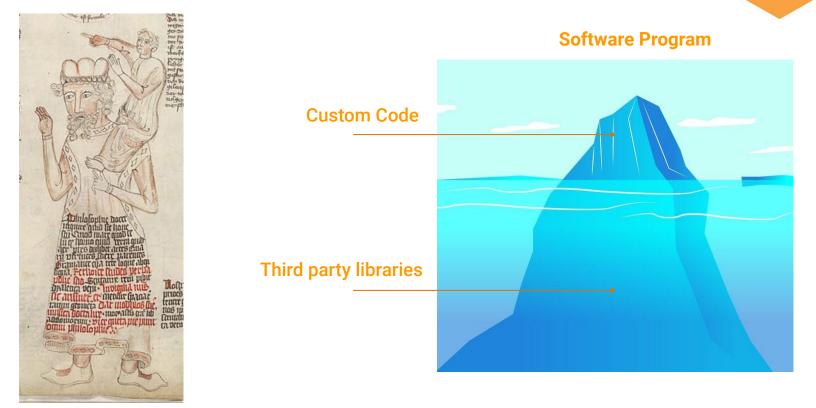
Freedom 0 -to **run** the program, for any purpose

Freedom 1 - to **study** how the program works, and change it to make it do what you wish

Freedom 2- to **redistribute** copies

Freedom 3 - to distribute copies of your **modified** versions to others

Standing on the shoulders of giants



https://de.wikipedia.org/wiki/Datei:Library_of_Congress,_Rosenwald_4,_Bl._5r.jpg



The License Spectrum

Permis	sive Licenses	Weak Copyleft Licenses	Strong Copyleft Licenses
	ApacheBSDMIT	EPLMozilla	GPLAGPL
		Stronger restrictions	
original work			
pact on			
derived work			
>	Do whatever you want with the code	Copyleft aspects only apply to the original parts of the code	> If you link GPL your
>	Potentially acknowledge	the original parts of the codeAllows for commercial	software has to be GPL tooSupports initial Free
>	the author/contributor Business and adoption friendly	 re-licensing Business friendly, ensures that improvements are shared 	Software paradigm
		·	

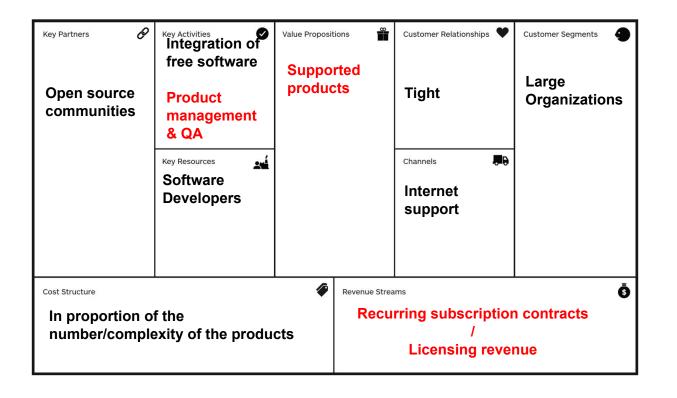
Thinking bigger?

	GitHub	Single-Vendor Open Source
Thriving developer community	~	~
High quality code that solves complex problems	~	 ✓
Ecosystem development and marketing services to drive adoption and monetization		 ✓

How do I commercialize my Open Source Software?



Leveraged Service Business model / OpenCore

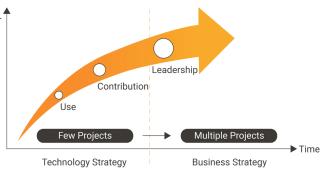


Disadvantages of single vendor approaches

- > Vendor wants to keep control
- Usually ask for transfer of exclusive rights (CLA)
 => can re-license future releases
- Difficult to get other organisations involved => limited protection of investments "Use" = yes

```
"Contribute" = limited
```

But if they are ready to invest enough, users can use the Ultimate Weapon in Open Source: The Fork



Open Source as an Enabler for Business Strategy



The Foundation way

	GitHub	Single-Vendor Open Source	Eclipse Foundation
Thriving developer community	~	~	
High quality code that solves complex problems	~	~	~
Ecosystem development and marketing services to drive adoption and monetization		 ✓ 	
Predictable processes and guidance to deliver large-scale innovation on a regular cadence			
Vendor-neutral governance model to support industry-wide collaboration			
Business-friendly IP and licensing services to enable commercialization			



Projects governance principles

Transparency

DELL

Openness

Vendor Neutrality



c. 2017: Securing FLOSS



The Eclipse Security Team

The Eclipse Security Team provides help and advice to Eclipse projects on vulnerability issues and is the first point of contact for handling security vulnerabilities. Members of the Security Team are committers on Eclipse Projects and members of the Eclipse Architecture Council.

Contact the Eclipse Security Team.

Note that, as a matter of policy, the security team does not open attachments.

Reporting a Security Vulnerability

Vulnerabilities can be reported either via email to the Eclipse Security Team or directly with a project via the Eclipse Foundation's Bugzilla instance.



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c. 2021: Supply Chain Security



FEBRUARY 14, 2021

SolarWinds hack was 'largest and most sophisticated attack' ever: Microsoft president

WIRED BACKCHANNEL BUSINESS CULTURE GEAR IDEAS SCIENCE SECURITY



SECURITY 12.19.2020 09:00 AM

Security News This Week: Russia's SolarWinds Hack Is a Historic Mess





Executive Order on Improving the Nation's Cybersecurity

MAY 12, 2021 • PRESIDENTIAL ACTIONS

(vii) providing a purchaser a Software Bill of Materials (SBOM) for each product directly or by publishing it on a public website;

 (viii) participating in a vulnerability disclosure program that includes a reporting and disclosure process;

(ix) attesting to conformity with secure software development practices; and

(x) ensuring and attesting, to the extent practicable, to the integrity and provenance of open source software used within any portion of a product.



Reproducible Builds, Vulnerability Scanning

Eclipse Steady



Discover, assess and mitigate known vulnerabilities

Steady supports software development organizations in regards to the secure use of open-source components during application development.

As such, Steady addresses the OWASP Top 10 security risk A9, Using Components with Known Vulnerabilities, which is often the root cause of data breaches.







An open source project is like a puppy



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Delivering Broad Stakeholder Value

 Breadth of
Professional
Services
 Linux Foundation
 Eclipse Foundation

 GitHub
 Apache Foundation

Community of Practice



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Advantages of the Eclipse Foundation AISBL

- The only Open Source Foundation based in Europe with Global reach and reputation
 - Adoption requires visibility that the Eclipse Foundation gets thanks to its brand and reputation
- Managed under European law and regulations
 - Established in Brussels
 - Hosting code in Europe
- Open Source ensures the free flow of technology worldwide
- Business friendly licensing regime. No dogmatic approach to Open Source
- Eclipse projects hosted in Europe are credible in terms of
 - Digital sovereignty
 - GDPR compliant
 - Implementing EU core values of "level playing field"



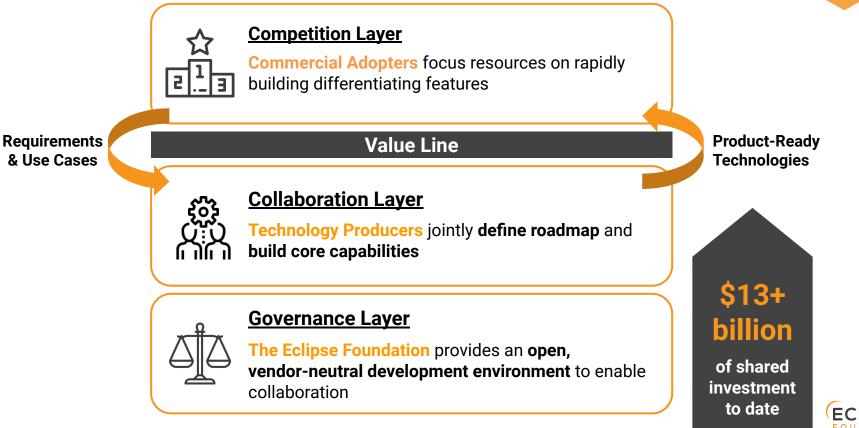
Managing contributors and committers

Eclipse projects implement open source projects best practices

- Everybody can access code, use it or modify it according to the license
- Projects are transparent, open and meritocratic
 - Transparent: all decisions are public
 - Open: to all contributors
 - Meritocratic: rights and duties in the project grow with the contribution to the project. Developer from different organizations can contribute. Different status are:
 - External contributor send patches that must be verified by a committer
 - Contributors can be elected as committers after enough publicly visible contributions
 - Project leaders and PMC (Project Management Committee) are elected among committers
- The Eclipse IP processes is a rigorous process to manage
 - Source code provenance and licensing
 - Third party license compatibilities
- The Process is managed collaboratively
 - By the Eclipse staff
 - And the committers



Our Impact: Open Innovation at Industrial Scale



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Europe's largest open source organization



A long track record of advancing strategic open source projects with international impact



