







```
operator):
mirror to the selected object""

mirror_mirror_x"

x"
```





The EU-FOSSA journey







EU-FOSSA (2015-2016)



EU-FOSSA 2 (2017-2019)

















STANDING EU

ACTIVITY



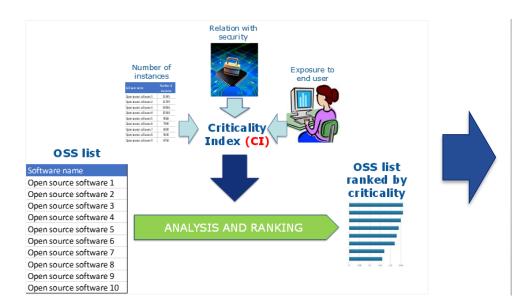








Establishing our most critical FOSS









Sustainability indicators

Category	Metric Name
Community Activity	Code Activity (contributions and contributors)
	Release History
	Number of Commits
	Number of Tickets
	Communications (Mailing list, posts, forums, chat history)
	Number of Adoptions/Implementations by External Organisations / Communities
	SW Evolution (code, architecture, bug/feature)
	Programming Language Used
	Project Domain (OS, Application SW, IDE, Application servers, Libraries, desktop Environments and frameworks). I.e. Apache, Linux, Eclipse, Mozilla, Ant, GNoME, KDE)
	Source Code (repositories like CVS/SVN for code base, GitHub, source forge).
Performance	Time to Resolve Tickets
	Time Spent in Code Reviews
	Pending Work

Category	Metric Name
Quality and Security	Security Requirements
	Threat Modelling
	Security Code reviews
	Security Testing
	Vulnerability Management
	Software Development Methodologies
	SLA
Demographics	Longevity
And	Real Knowledge Existent in the market of the language and Platforms
7	Used.
Diversity	People Participating
	Organisation Participating
	Geographically distributed user community
Governance	Project Management
	Project Roadmap
	Project Structure
	Documentation
	Licensing
	Training
FOSS Support	Funding - Monetary
	Work force
	Infrastructure assets





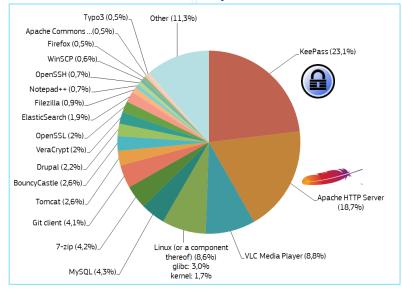
Lessons from the EU-FOSSA pilot

- Positive reaction (EU, public, FOSS communities)
- Code reviews
- Only find bugs?
- Little communication/community engagement
- Methodology works



FOSS Security is really important!

Public survey results



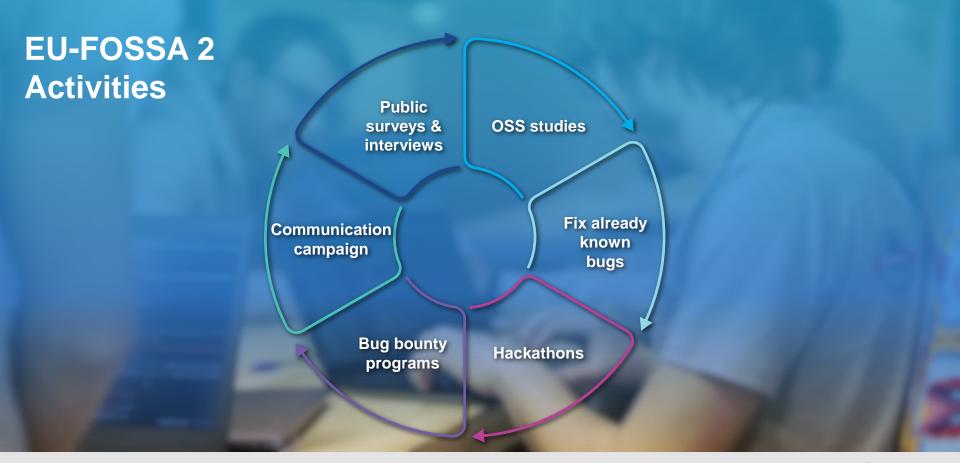
















Bug bounties [♣]

- First time in European institutions
- Primary security audit method
- Critical FOSS used in participating institutions
- 15 programmes launched (6 still running)
- 20% bonus for fixing the bug found
 - 7-zip
 - Apache Kafka
 - Apache Tomcat
 - Drupal
 - DSS
 - FileZilla
 - Flux TL
 - Glibc
 - KeePass

- Midpoint
- Notepad++
- PHP Symfony
- PuTTY
- VLC
- WSO2

Critical bug hidden for 20 years in PuTTy found and fixed

PuTTY: CVE-2019-9894 + 7 more CVE-2019-38xx





Bug bounty results (so far)

{₩̄} Bugs reported 633

Bugs accepted 195

∃

Bugs high or critical 24

Bugs high

Total Bounties paid €201k

Please note, figures are not final

VLC 3.0.7 fixes 33 security issues, one of which is a high-severity flaw in an MPEG decoder software library

VLC: CVE-2019-5439, CVE-2019-12874 Apache Tomcat: CVE-2019-0221, CVE-2019-0232 Drupal: CVE-2019-11831





Three Hackathons







Watch the videos

⇒ Symfony

Apache





























Drupal patch automation



We commissioned a project to:

- Fix known critical vulnerabilities
- Automate patch updates

The vast majority of external European
Commission websites run on Drupal





Listening to smaller communities

We are in the process of connecting with many small/micro communities

















autocrypt





Other studies

- IPR and IT support requirements
- State of open source worldwide
 - Open source trends
 - Best practice usage by public administrations and key private companies
 - Key internal/external stakeholders



Updated OSS Strategy







Communication strategy







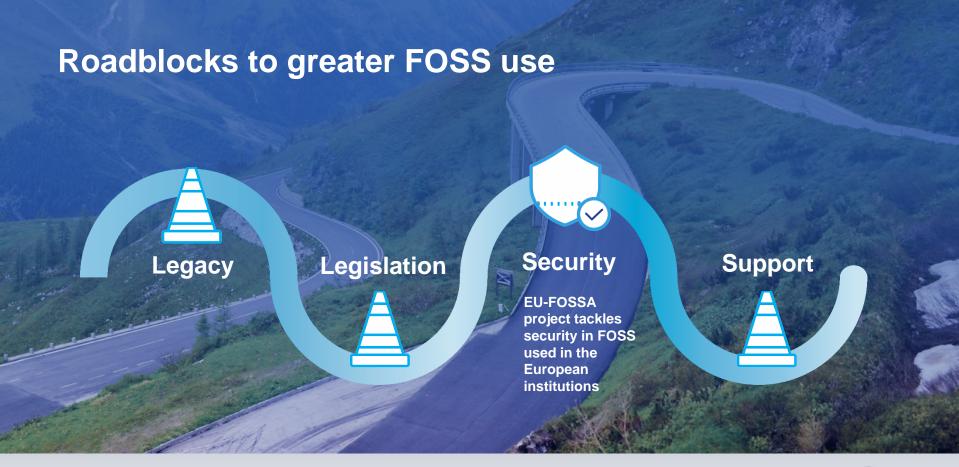
Media interest

- Overwhelming coverage by media, both technical and generalist publications
- Over 135 news articles published on EU-FOSSA 2 in the past 8 months
- Content with the most successful performance on DIGIT's Twitter account













Next steps

- Highly successful and visible
- Hackathons → internal projects
- Project continuation being discussed
- Open source strategy being updated
- Open source use is increasing across
 European institutions







