European Commission

**Open Source Software
at the European Commission**

EU-FOSSA 2

Drupal Europe Conference

Chrysanthi Giortsou, Marek Przybyszewski, European Commission, DIGIT.B.3
13/09/2018

European Commission – policy supporting OSS

New European Interoperability Framework

Promoting seamless services and data flows for European public administrations

#EIF

Recommendation 2: adoption of Open Source Software as enabler of **reusability**

"Member States commit to make more use of open source solutions […] when (re)building ICT systems and solutions […]"

The Ministers call on the Commission "to consider strengthening the requirements for use of open source solutions and standards when (re)building of ICT systems and solutions takes place with EU funding, including by an appropriate open licence policy – by 2020."

Tallinn Declaration on eGovernment, 6/10/2017

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Use in the European Commission

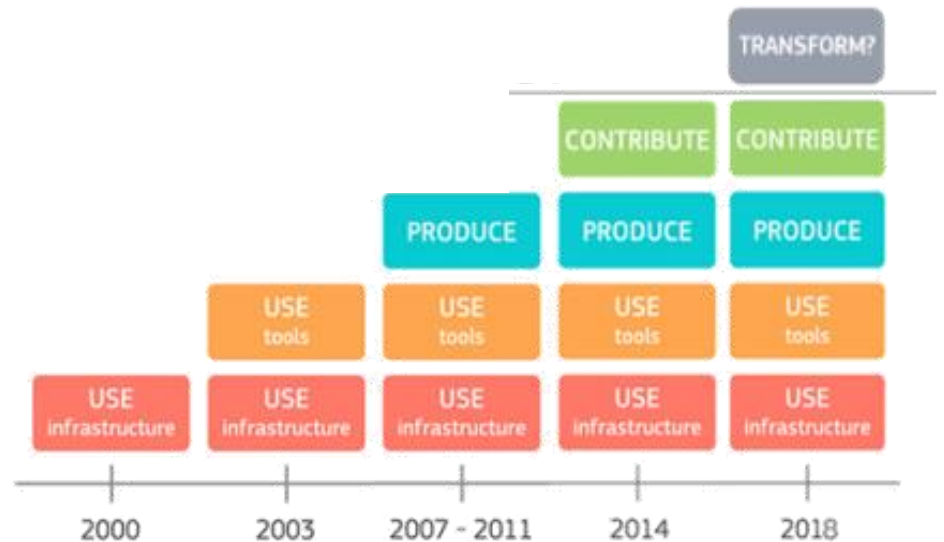**Open Source Software Strategy**

First created in 2000

Renewed every 3-4 years

Publicly available

Next iteration: 2018-2020

Proposal for a Commission Decision

Focus on OSS for Digital Transformation

OSS Strategy is about

1. **OSS in product management**
2. **Procurement of software and OSS**

   Acquisition

3. **Standards-based and interoperable software**
4. **OSS as default choice for systems deployed outside EC**

   Domains

5. **Legal issues around OSS**
6. **Addressing governance of OSS – guidelines**
7. **OSS and communities**

   Contribution

8. **OSS in e-Government**

   Domains

9. **Alignment of internal and external strategies**
10. **Inter-Institutional collaboration**

    Coordination

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Use in the European Commission

5 areas of OSS use at the EC

1 We use OSS in our Data Centre	2 We use OSS web and social tools to collaborate	3 We use OSS on our desktop	4 We use OSS tools and methods to develop software	5 We provide software based on OSS license
Web servers	Forums	Browsers	Tools	Citizens' Initiative
Application servers	Blogs	File management	Libraries	EUSurvey
Operating systems	Content management	Media players	Collaboration	JoinUp
Linux	Drupal		eclipse	EUSurvey
				LEOS
				eAgenda

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OSS Adoption Index (2014)

	1 No OSS	2 Ad hoc	3 Local policy	4 EC policy	5 Drive change	
We use OSS on our desktop	60 30 10					**1.5** Proprietary desktop, but OSS browser and tools
We use OSS in our Data Centre		20 50	20 10			**3.2** Local adoption and Linux global policy
We use OSS web and social tools to collaborate	30	20	40 10			**3** Dual policy for internal and external tools
We use OSS tools and methods to develop software	10 20 30	30 10				**3.1** Important usage of OSS frameworks and libraries
We provide software based on OSS license		20 60	20			**4** EC produced software distributed on OSS

☐ Target

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European Commission for public administrations (1)

EUPL - European Union Public License

A unique instrument, that everyone can use

Software accessible to everyone royalty-free

Warranty for copyright for contributors

23 official languages and EU Law compliant

Compatible with many licenses including "business friendly" i.e. no "viral" effect for derivative work: allows relicensing

ISA²

Open Source Observatory Repository (OSOR)

JOINUP

European Interoperability Framework

Software developed: EUSurvey, LEOS, ECI/OCS, CIRCABC, ...

European Commission for public administrations (2)

The Open PM² Methodology helps to establish a common project management language and approach, increasing effectiveness, collaboration efficiency and success in the coordination of projects in the EU.

The Open PM² Initiative provides:

Developped by the EC and funded by ISA², Open PM² is an open and free Project Management Methodology

PM² Certification Exams available via PROMETRIC across EU-28

Open PM² Guide available through the EU Bookshop.

PM² Methodology Wiki available through EU Login.

Establishment of an EU-wide Project Support Network (PSN)

Open PM² Wiki: *http://europa.eu/!Gu76mr* | JoinUp: *http://europa.eu/!vh96rM*

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European Commission for public administrations (3)

Connecting Europe Facility

eDelivery

    OSS developed by the European Commission

    Including added-value services

    Making impact in the EU policy implementation

European Commission – for Research & Innovation

Open and collaborative model – beyond software

Working together

Motivation

Community

Sharing

Share the goals
Share the work
Share the results

Tackling roadblocks for greater use

- Legacy

- Legislation

- Support

- Security ⟶ EU-FOSSA

Triggering point

€500M+

€1M

EU-FOSSA ?

European
Union

Free and
Open
Source
Software
Auditing

EU-FOSSA - the pilot project (2015-2016)

EU-FOSSA

Methodology

Inventory of FOSS used at the EC

Developer communities

Public survey

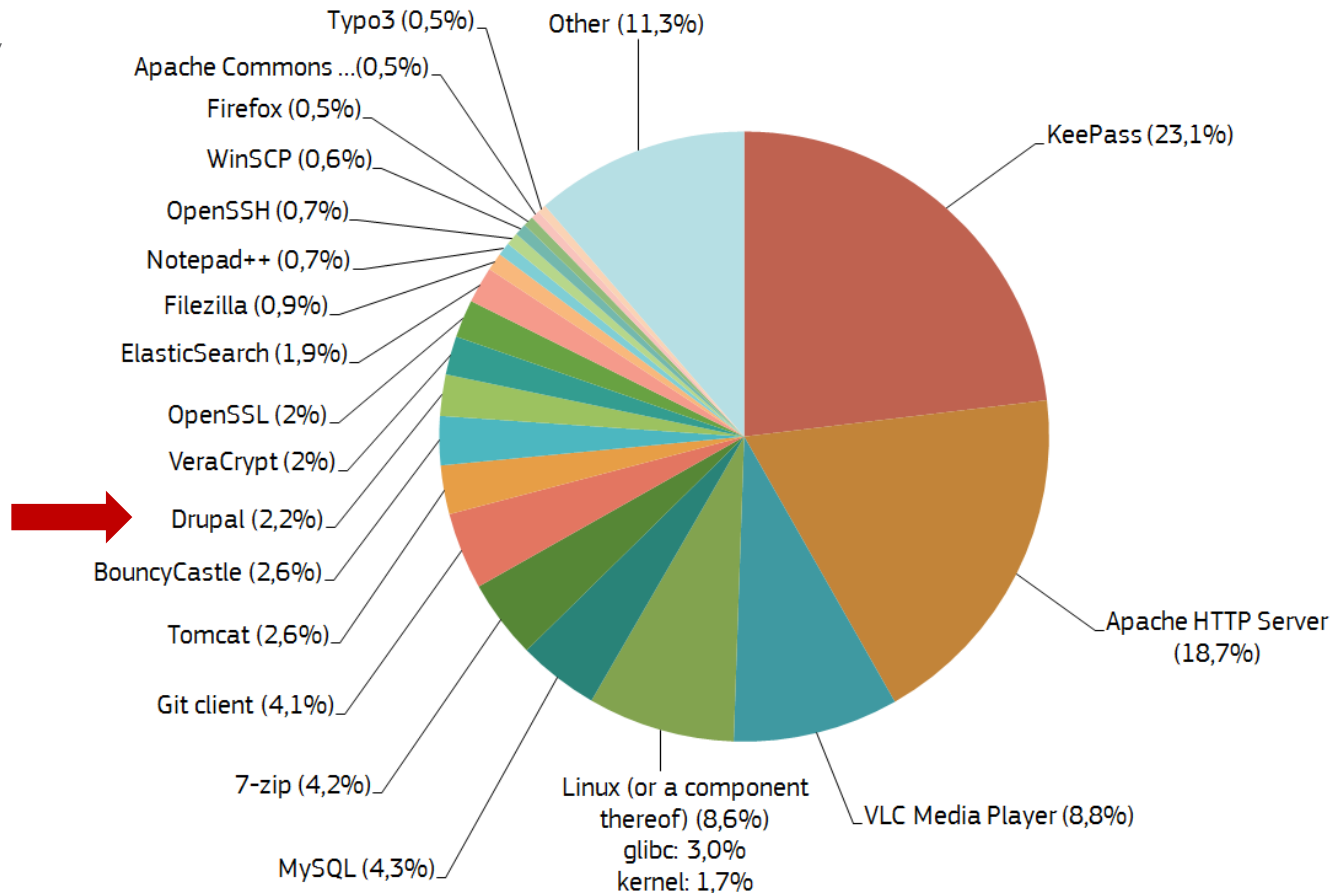Formal code reviews

Methodology used for OSS criticality

Public survey

Typo3 (0,5%)
Apache Commons ...(0,5%)
Firefox (0,5%)
WinSCP (0,6%)
OpenSSH (0,7%)
Notepad++ (0,7%)
Filezilla (0,9%)
ElasticSearch (1,9%)
OpenSSL (2%)
VeraCrypt (2%)
Drupal (2,2%)
BouncyCastle (2,6%)
Tomcat (2,6%)
Git client (4,1%)
7-zip (4,2%)
MySQL (4,3%)
Linux (or a component thereof) (8,6%)
glibc: 3,0%
kernel: 1,7%
VLC Media Player (8,8%)
Other (11,3%)
KeePass (23,1%)
Apache HTTP Server (18,7%)

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Code reviews

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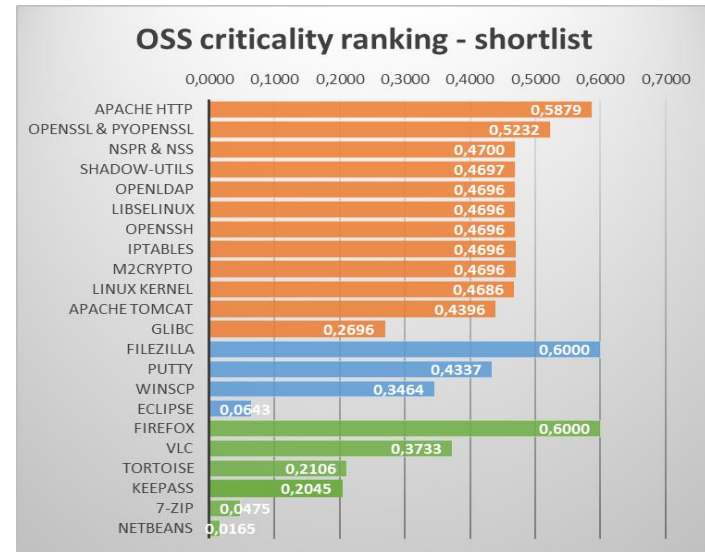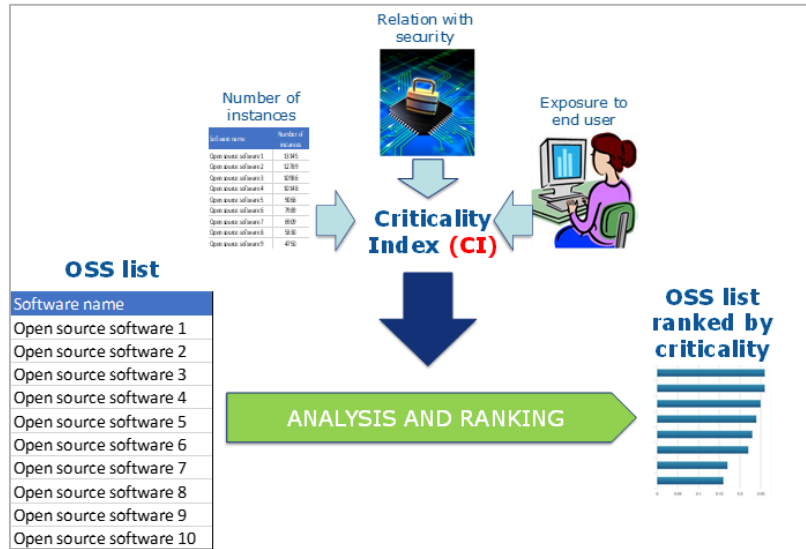
EU-FOSSA pilot project - lessons learned

Positive reaction

Code reviews useful (but...)

What about fixing bugs?

Improve communication and cooperation with communities

Methodology works

The EU-FOSSA journey
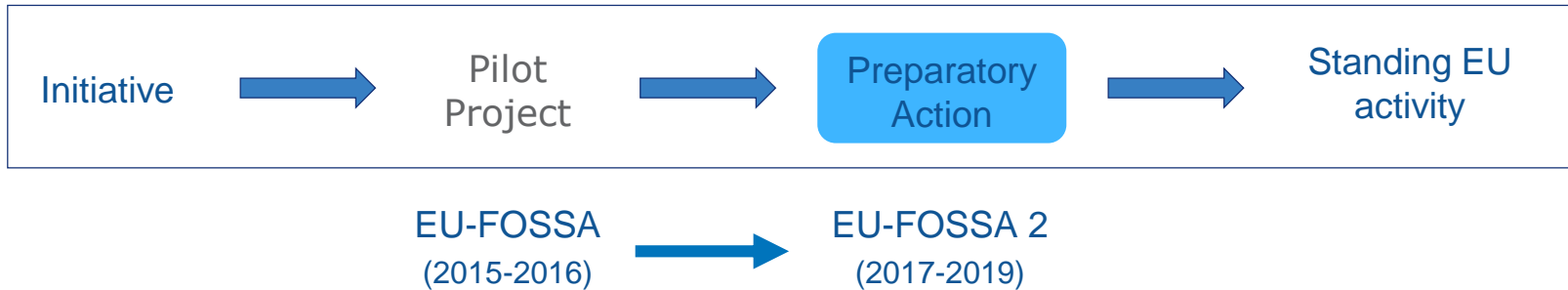
EU-FOSSA 2 – the preparatory action (2017-2019)

EU-FOSSA 2

⬇

2017-2019

Increased Budget

Expanded scope

New ideas

European Parliament

€2.6M

European Commission

European Commission

What's new in EU-FOSSA 2?

Scope – coverage, methods, activities

Bug Bounties

Hackathons

Fixing already known bugs

Closer cooperation with developer communities

Improved communication programme

Bug Bounty programme

Proof of concept

- First time in EU institutions
- 6 weeks
- 28 active participants
- 6 bounties paid

Main programme

- ~15 activities
- >1 M€ budget
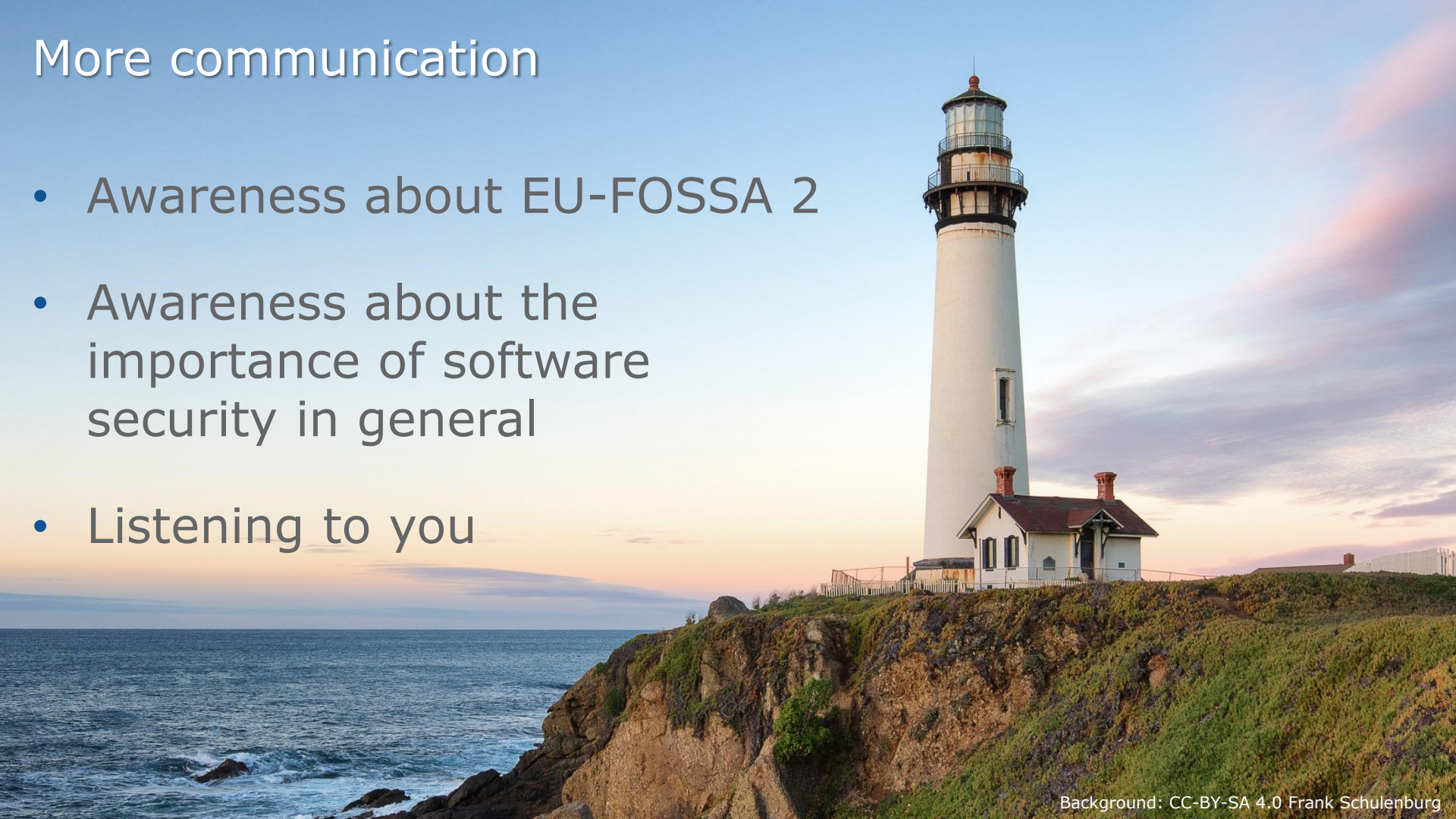- Critical OSS used by EU institutions
- Including high rewards

Image: CC0; product logos used solely for illustration

Hackathons and innovative ways to improve software

More communication

- Awareness about EU-FOSSA 2

- Awareness about the importance of software security in general

- Listening to you

How we can work together?

We invite you to:

- Submit software candidates for security audits

- Submit software candidates for fixing security vulnerabilities and associated mechanisms

- Participate in Bug Bounties

- Participate in Hackathons

- Exchange ideas of how to improve FOSS security

So, what is there for Drupal?
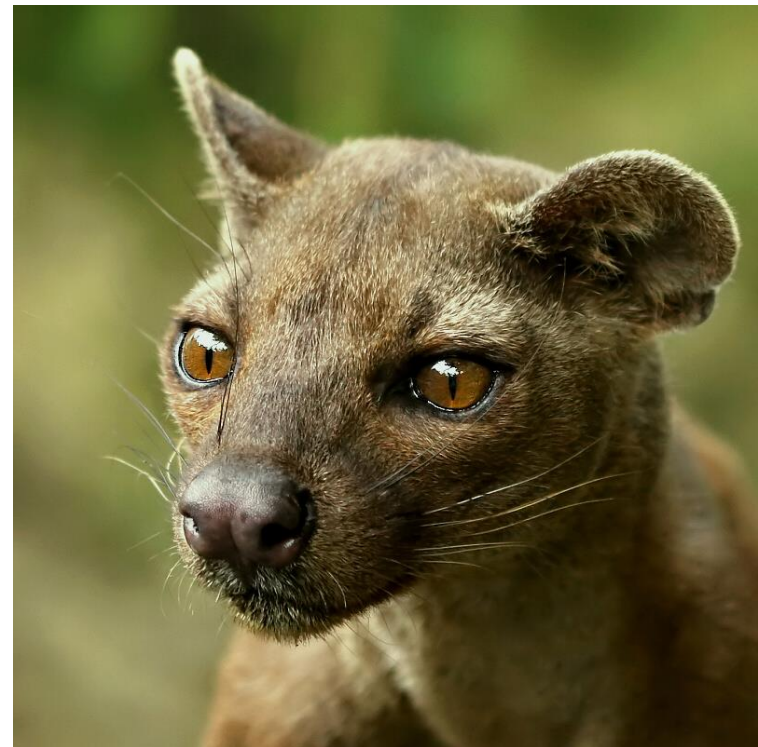
Bug bounties

Hackathons

Contribution

The ultimate goal

Improve security of open source software

EU institutions working with open source software communities

Make investment into the security of open source software a permanent action of the EU

Thank you!

DIGIT-OSS-STRATEGY@ec.europa.eu

https://joinup.ec.europa.eu/collection/eu-fossa-2

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