



EU-FOSSA 2

Free and Open Source Software Auditing

Open Source Summit | Paris | 11 December 2019

Marek Przybyszewski
Saranjit Arora

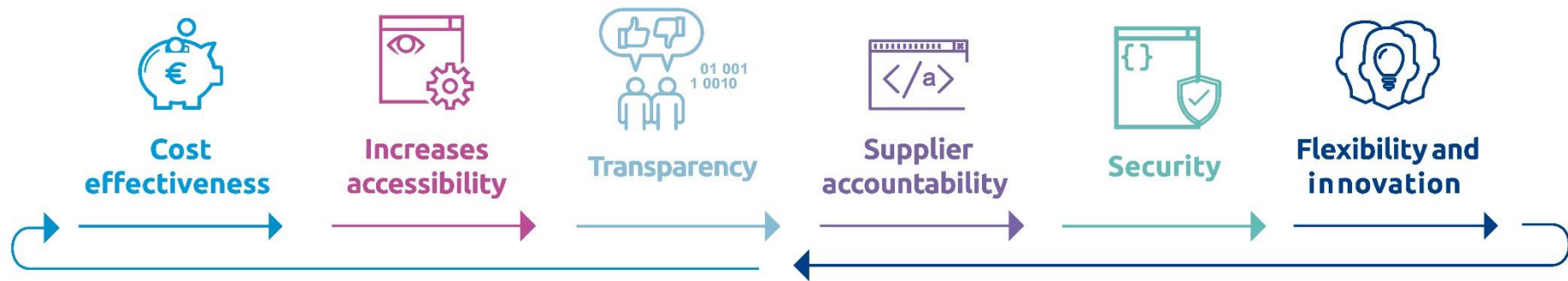


Agenda

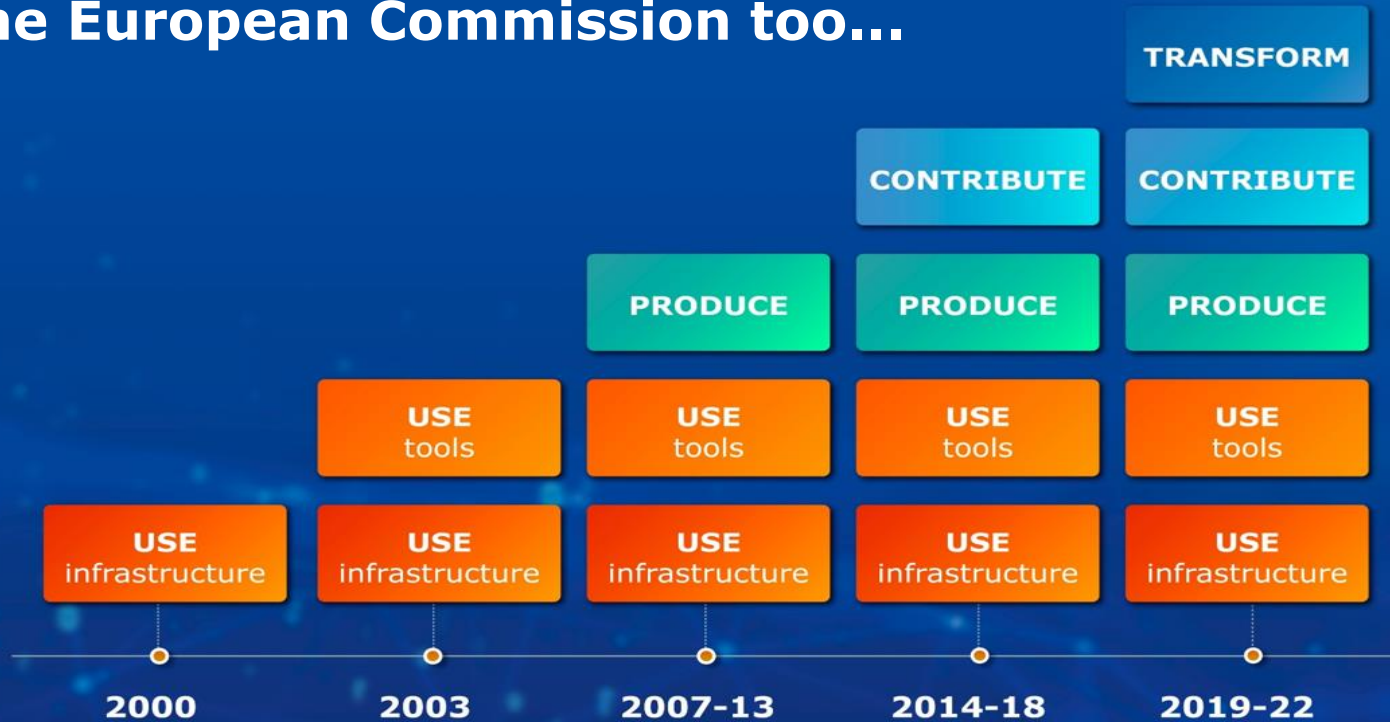
- OSS at the EC
- EU-FOSSA (2015-2016)
- EU-FOSSA 2 (2017-2019)
- What next?



How Open Source helps the EU



and the European Commission too...



The EU-FOSSA journey



INITIATIVE



PILOT
PROJECT



PREPARATORY
ACTION



STANDING EU
ACTIVITY

EU-FOSSA
(2015-2016)

EU-FOSSA 2
(2017-2019)



€ 2.6M



EU-FOSSA Pilot project

**FOSS
Methodology**

**FOSS
Inventory**

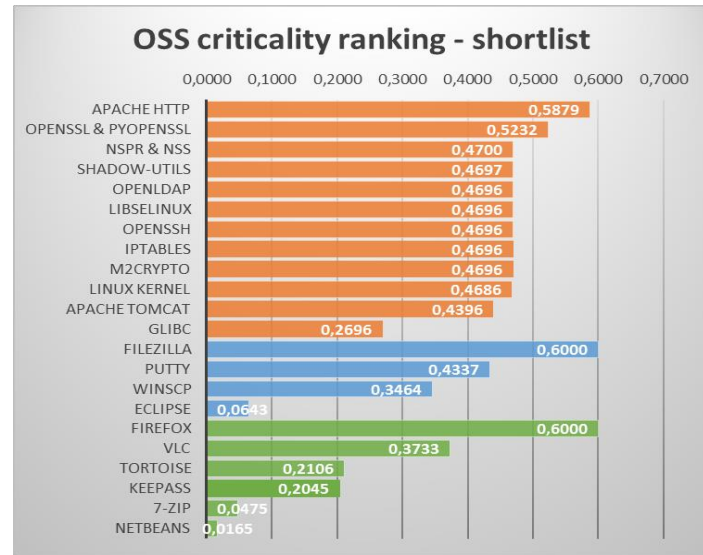
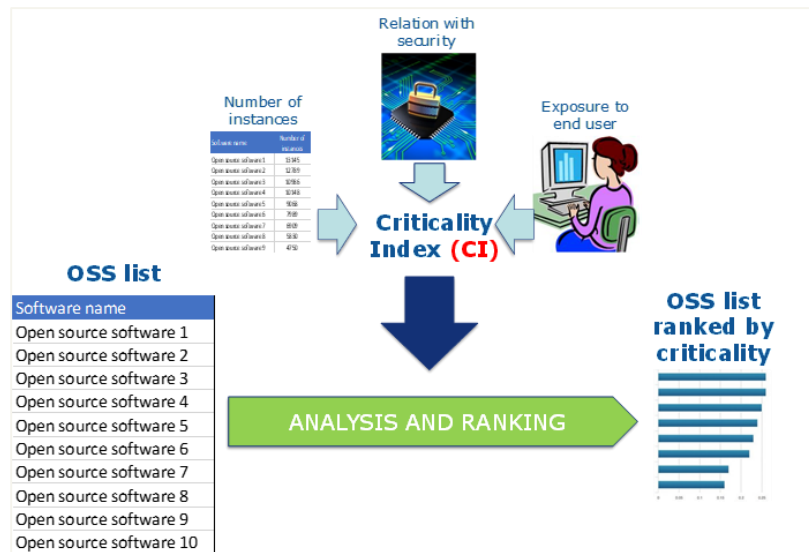
**Community
engagement**

**Public
survey**

**Code
reviews**



Establishing our most critical FOSS



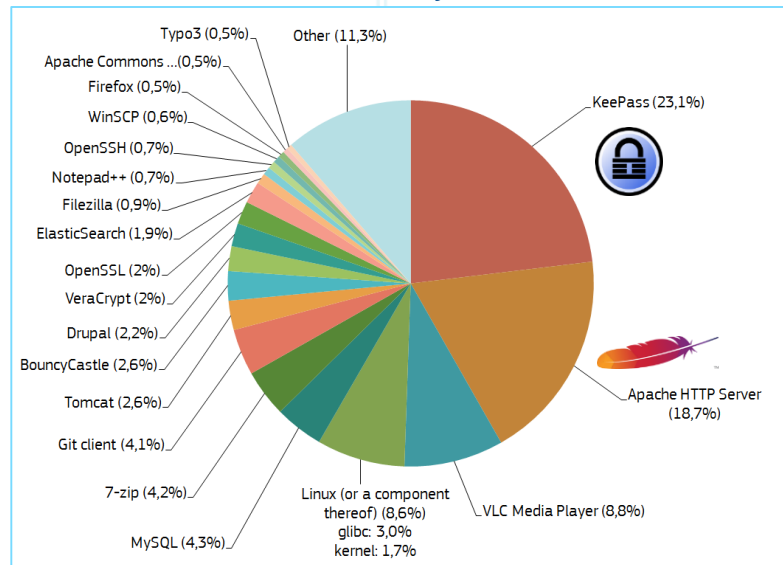
Lessons from the EU-FOSSA Pilot

- 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



EU-FOSSA 2 Key Objectives

**More EU
institutions**

**Use
innovative
ways**

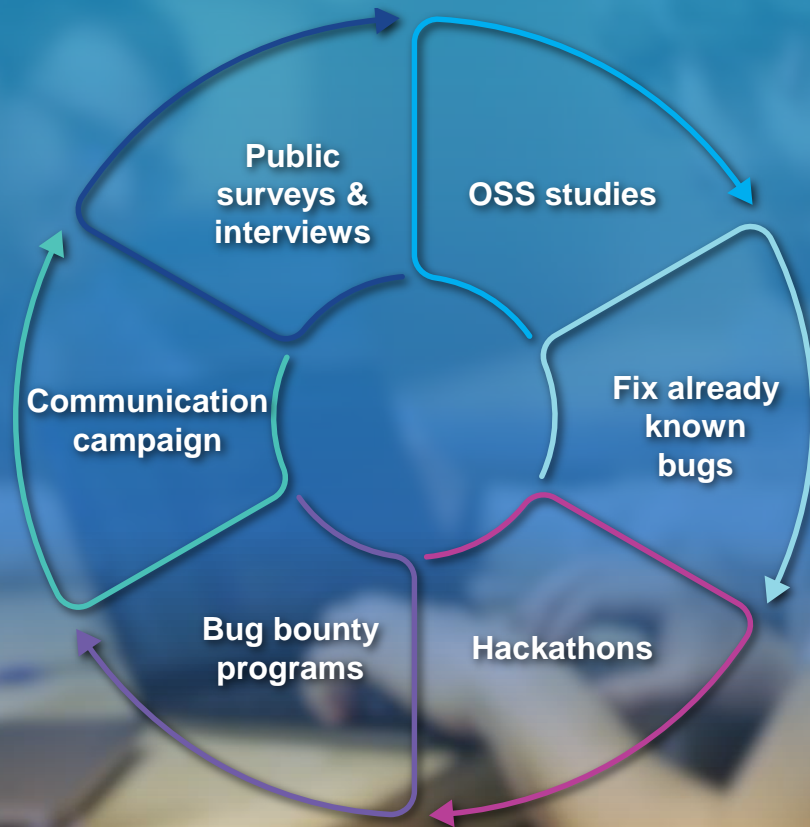
**Engage
wider and
deeper**

**Existing
issues**

**Spread
awareness**



EU-FOSSA 2 Activities



Bug bounties {🐛}

- First time in European institutions
- Primary security audit method
- Critical FOSS used in participating institutions
- 15 programmes launched (3 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”



Bug bounty results (so far)

	Bugs reported	633
	Bugs accepted	195
	Bugs high or critical	24
	Total Bounties paid	€201k

- *Please note, figures are not final*

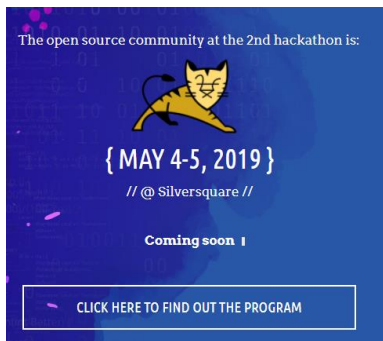
“

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

”



Three Hackathons



Watch the videos

→ [Symfony](#)

→ [Apache](#)





{FOSS HACKATHONS
WITH EU-FOSSA 2}

```
mirror.module.y = false  
mirror.module.z = true  
  
mirror.ob.select  
modifier.ob.select  
lpy-eas ob.objects; ar  
print
```



Workshop Open Source Software and Hardware

- 200 registrations
- 120 participants
- 2 days
- 13 workshops



EU-FOSSA AMA Session

- 28 November 2019
- r/opensource group
- 1 hour session
- 9 active guests



Listening to smaller communities

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



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

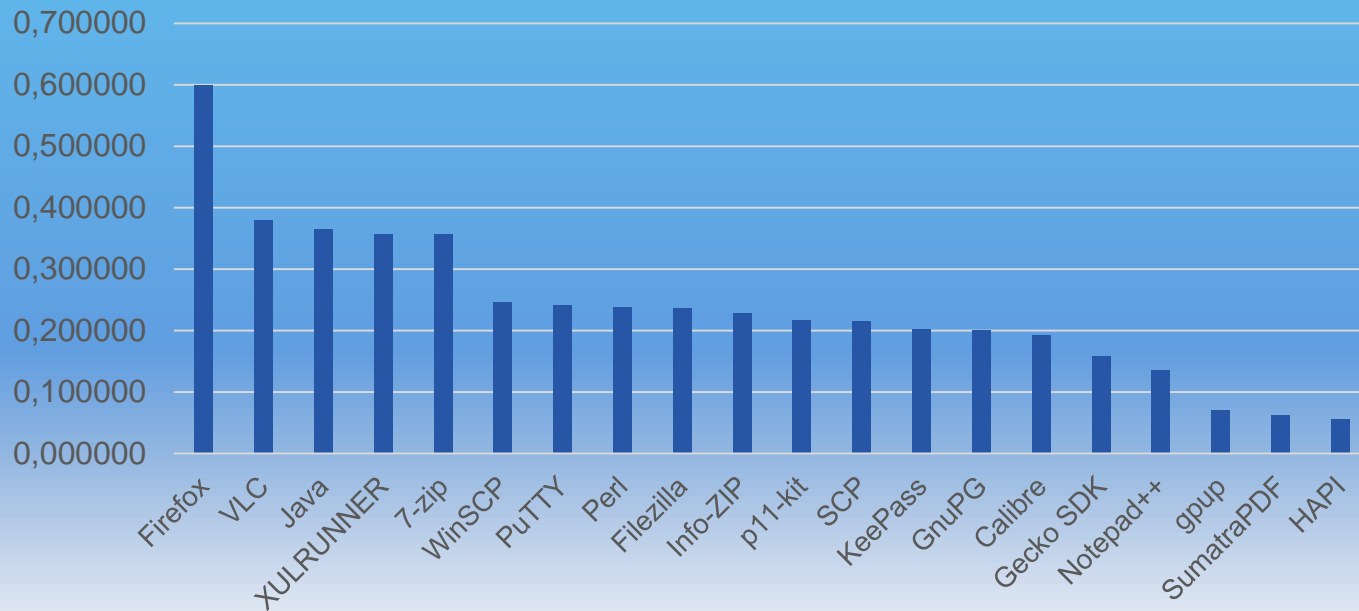


Updated OSS Strategy



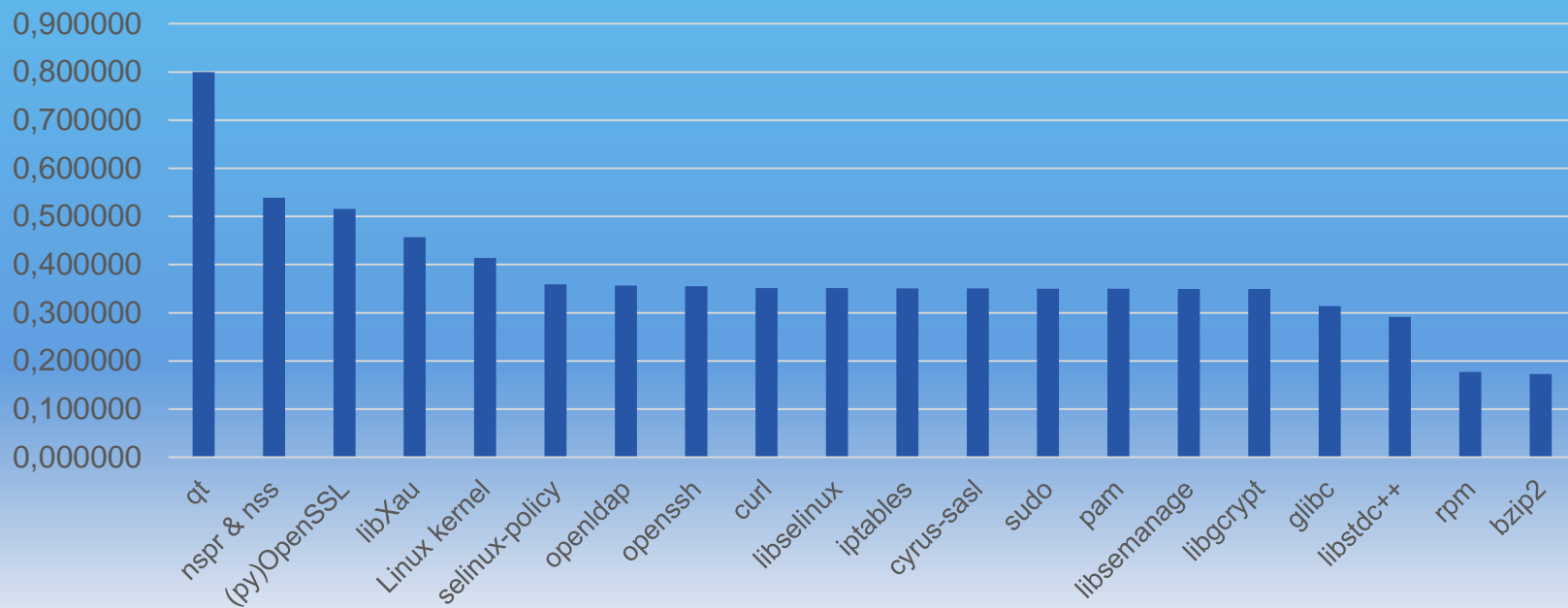
Inventory - most critical open source software we use

Top 20: Work Stations and App-V



Inventory - most critical open source software we use

Top 20: Server-side



Communication Strategy

Developer engagement

COMMUNITIES

FOSS EVENT

AMA's

CONFERENCES

Public surveys

GENERAL
PUBLIC

DEVELOPERS

Outreach campaign

CONTENT

PRINT

UNIVERSITIES

FOSS EVENT

SOCIAL MEDIA

WEBSITE



Brand touchpoints

- Brand refresh - new logo and visual identity
- Website
- Goodies
- Coordination of comms efforts on:
 - Hackathons
 - Bug bounties
 - Internal / external promotion



Media interest

- Overwhelming coverage by media, both technical and generalist publications
- Over **140 news articles** published on EU-FOSSA 2 in the past 8 months
- Content with the most successful performance on DIGIT's Twitter account

“

So the EU protected almost everybody from that one

”

The Register
19.03.2019



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

“

Help the Commission to embrace the open source lifestyle.

”

Thomas Gageik



A person wearing a headset is seen from behind, working on a laptop. In the background, other people are also working at their desks with laptops. The scene is overlaid with a semi-transparent blue filter and white text.

Thank You

DIGIT-OSS-STRATEGY@ec.europa.eu