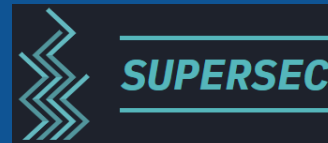# EU-FOSSA 2
Preparatory Action

SuperSEC Almería
12 May 2018

Saranjit ARORA
Project Manager, EU-FOSSA 2 Project
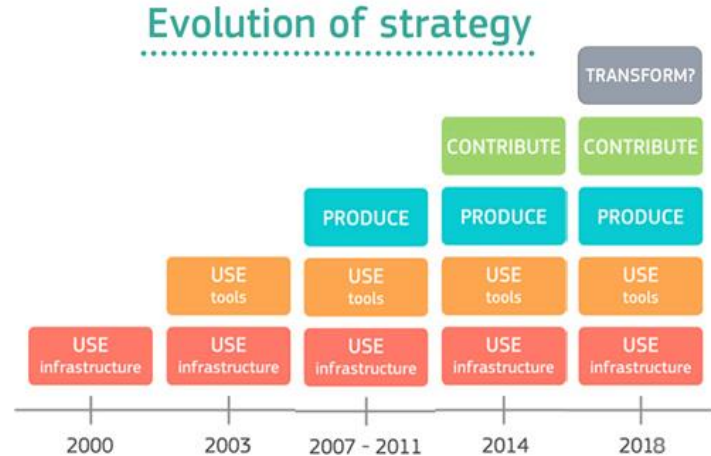saranjit-singh.arora@ext.ec.europa.eu

Agenda

1. Open source software and the European Commission

2. EU-FOSSA 2

3. Working with open source software communities

Part 1

Open source software and

the European Commission (EC)

Posture towards open source software

- Highly supportive → seen as strategic

- Clear political will and commitment for increased use

- We wish to connect with, invigorate and actively support open source software, developer communities and the public at large

Evolution of strategy

TRANSFORM?

			CONTRIBUTE	CONTRIBUTE
		PRODUCE	PRODUCE	PRODUCE
	USE tools	USE tools	USE tools	USE tools
USE infrastructure	USE infrastructure	USE infrastructure	USE infrastructure	USE infrastructure

| 2000 | 2003 | 2007 - 2011 | 2014 | 2018 |

The European Commission open source strategy can be seen at: https://ec.europa.eu/info/departments/informatics/open-source-software-strategy_en

Open source software at the EC

1 We use OSS in our Data Centre
- Web servers
- Application servers
- Operating systems

2 We use OSS web and social tools to collaborate
- Forums
- Blogs
- Content management

3 We use OSS on our desktop
- Browsers
- File management
- Media players

4 We use OSS tools and methods to develop software
- Tools
- Libraries
- Collaboration

5 We provide software based on OSS license
- Citizens' Initiative
- EUSurvey
- JoinUp

- Multiple projects live: EU Survey, ECI, LEOS and **europa.eu**, the official website of the EU
- Many active OSS groups within the EC interact with open source communities, *e.g.* Drupal

Tackling roadblocks for greater use

- Legacy

- Legislation

- Security

- Support

Tackling roadblocks to greater use
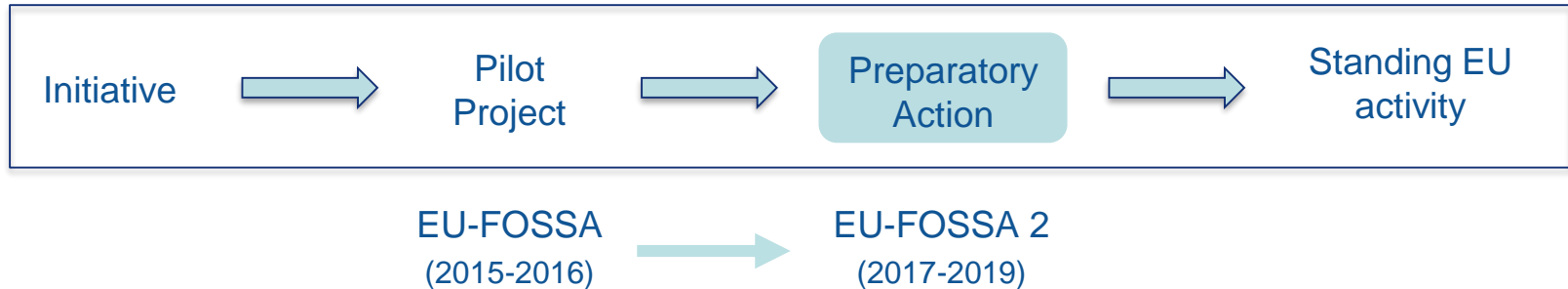
- Legacy

- Legislation

- Security ➔ EU-FOSSA

- Support

Part 2

EU-FOSSA 2

The EU-FOSSA journey

The EU-FOSSA initiative is following the standard EC journey

Initiative → Pilot Project → Preparatory Action → Standing EU activity

EU-FOSSA (2015-2016) → EU-FOSSA 2 (2017-2019)

EU-FOSSA?

- **E**uropean
- **U**nion
- **F**ree
- **O**pen
- **S**ource
- **S**oftware
- **A**uditing

EP Pilot project n° 645

F**O**SSA

Open Source Software Auditi

Sowing the seed...

2015-2016

€500M+

€1M

EU-FOSSA

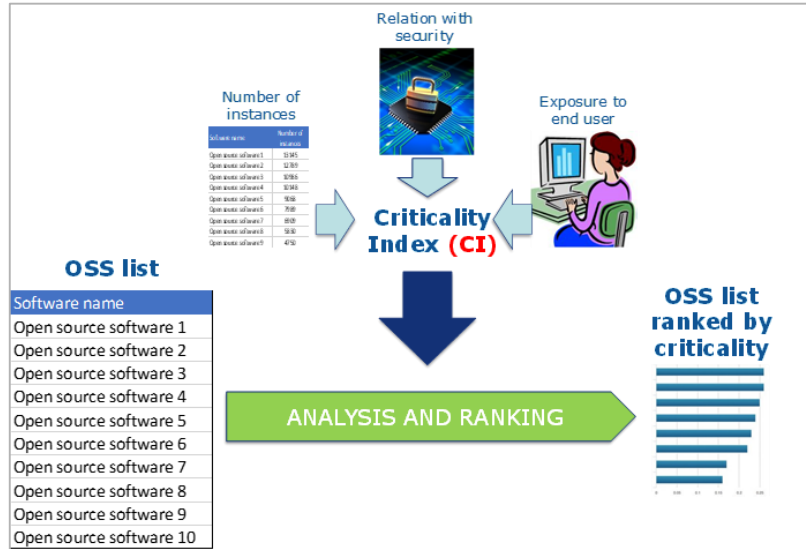European Parliament

European Commission

Early shoots…

EU-FOSSA

- Methodology
- Inventory of FOSS used at the EC
- Developer communities
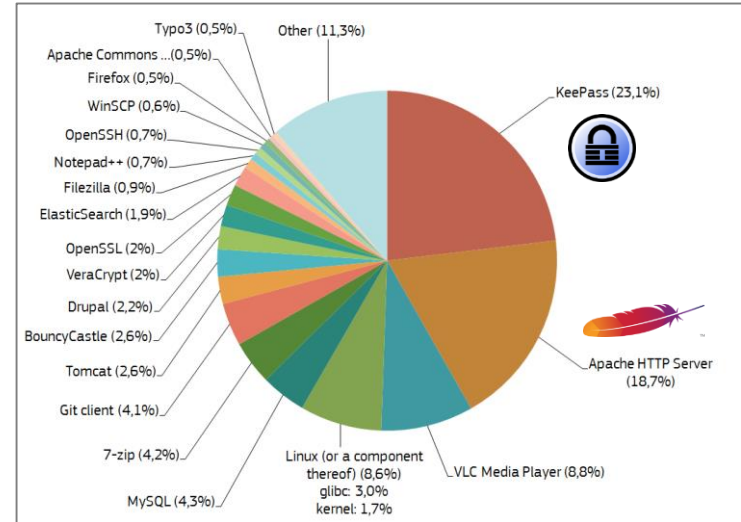- Public survey
- Formal code reviews

Methodology used for OSS criticality

EU-FOSSA Lessons learned

- Positive reaction to initiative by EU institutions, public and developer communities

- Code reviews were useful, but not seen as the only way forward

- Should we just find bugs or fix them too?

- Need to improve communication and cooperation with developer communities

- Methodology works – continual development

Public survey results

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%)
Apache HTTP Server (18,7%)
KeePass (23,1%)
Other (11,3%)

The growth continues…

EU-FOSSA 2

- 2017-2019
- Increased Budget
- Expanded scope
- New ideas

€2.6M

Background: CC0; MEP photos: European Parliament

What's new in EU-FOSSA 2?

- Scope – coverage, methods, activities

- Bug Bounties

- Hackathons

- Some budget to fix *already known* bugs

- Closer cooperation with developer communities
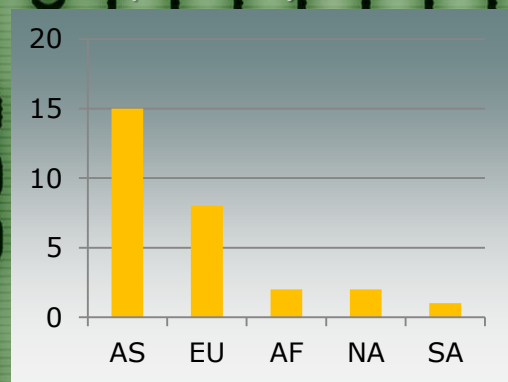
- Improved communication programme

Background: CC0

Bug Bounty test drive...

Participation by continent

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

Hackathons

- Help solve some really difficult problems
- Select a FOSS project that needs a physical meetup
- Bring the project team to Brussels
- Let them work together for 1-3 days
- Planned for November 2018
- Opportunity to hold many more in 2019

Innovative ways to fix bugs

- Financial assistance for similar sessions can be provided to fix known bugs

More communication

- Awareness about EU-FOSSA 2

- Awareness about the importance of software security in general

- Listening to you

EU-FOSSA 2 project timeline

Months since start 2017	2017							2018													2019										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	22	23	24	25	26	27	28	29	30
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WP1: Preparation																															
WP1: FOSS Review																															
WP2: Extend Inventories to more institutions																															
WPX: Call for Tenders																															
WP3: The Security Audit																															
WP4: Education and outreach																															
WP5: Post EU-FOSSA 2																															
WP6: Dissemination of results																															
WP7: Dedicated PM																															
Contingency																															

EU-FOSSA 2 Project Charter: https://joinup.ec.europa.eu/collection/eu-fossa-2/eu-fossa-2-deliveries

Part 3

Working with open source software developer communities

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

Background: CC0

The ultimate goal

Improve security of open source software

Work with the developer communities

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

Questions

DIGIT-OSS-STRATEGY@ec.europa.eu

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