

Open Source Software @EC and EU-FOSSA 2



Open Source Summit Europe 2018
Edinburgh, 22-24 October 2018

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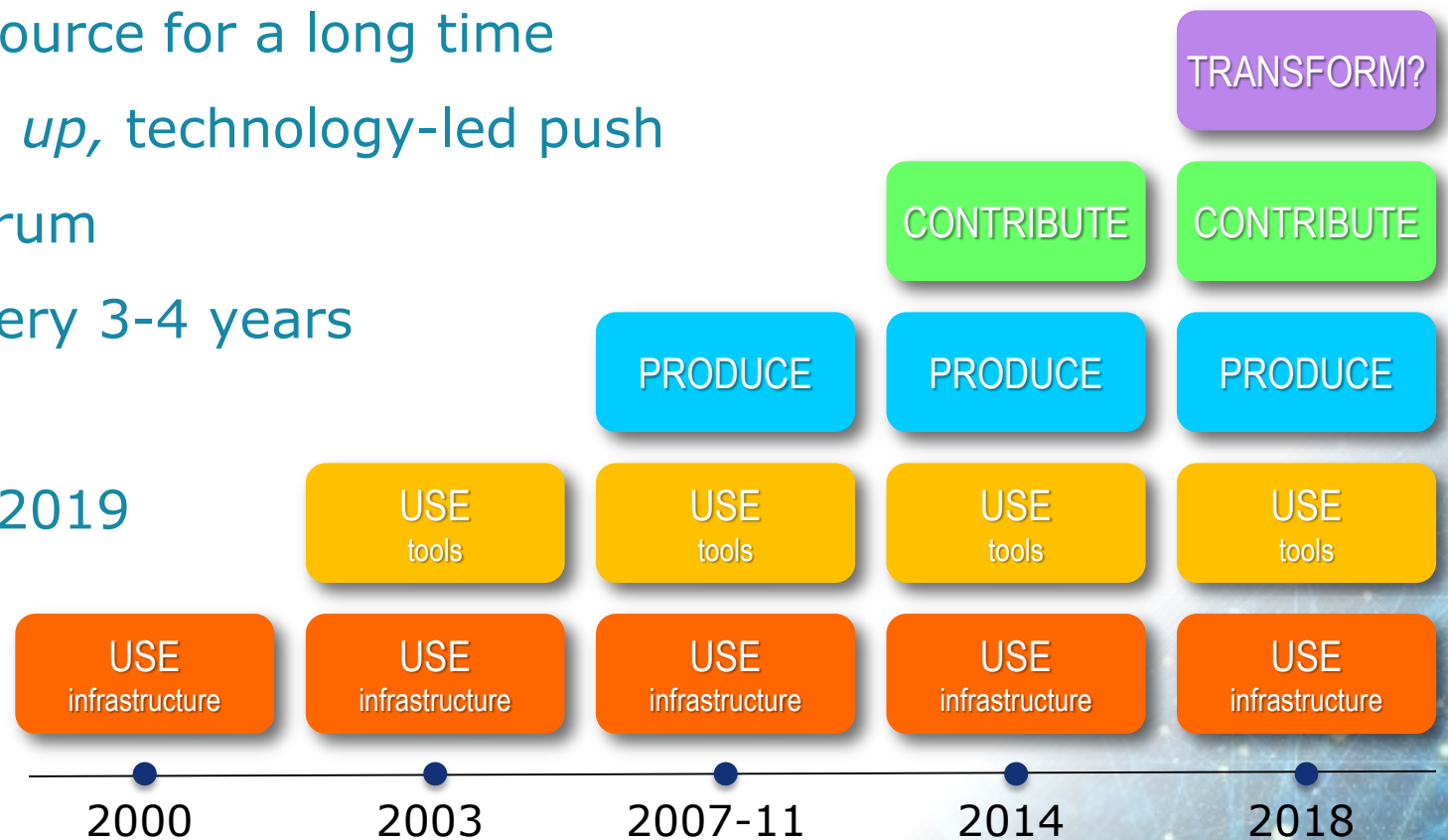
Agenda

- Open source software at the European Commission
- EU-FOSSA 2
- Q&A

Open source software at the European Commission

Wide OSS use at EC via bottom-up push

- Enthusiastic user of open source for a long time
- Growth driven by a *bottom up*, technology-led push
- OSS used across the spectrum
- OSS Strategy refreshed every 3-4 years
- Publicly available
- Next Strategy expected in 2019



Areas of use



USE

Data Center

Web servers

Application servers

Operating Systems



USE

Web and social
tools to
collaborate

Forums

Blogs

Content Management



USE

Desktop

Browsers

File Management

Media Players



USE

Tools and
methods to
develop software

Tools

Libraries

Collaboration



PRODUCE

Software based
on ODD license

Citizen's Initiative

EUSurvey

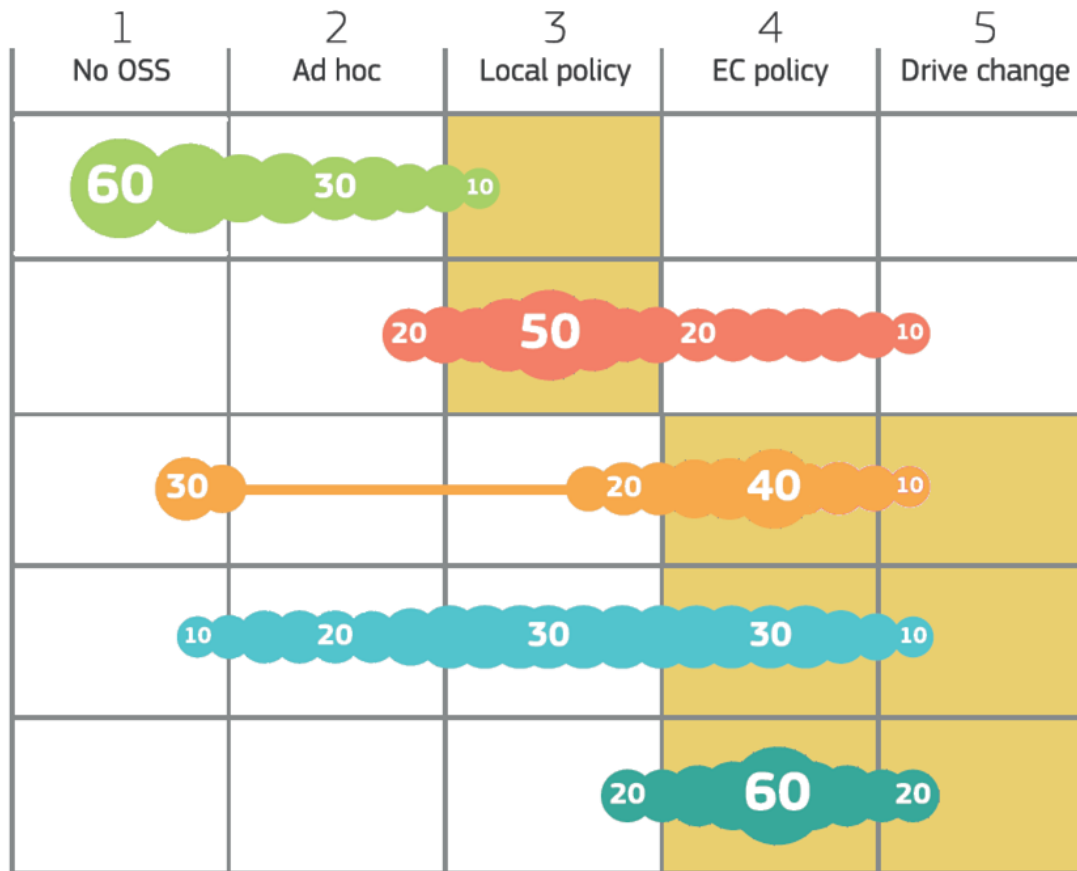
JoinUp



OSS Strategy is about

- | | |
|--|---------------------|
| 1. OSS in product management | Acquisition |
| 2. Procurement of software and OSS | |
| 3. Standards-based and interoperable software | Domains |
| 4. OSS as default choice for systems deployed outside EC | |
| 5. Legal issues around OSS | Contribution |
| 6. Addressing governance of OSS - guidelines | |
| 7. OSS and communities | |
| 8. OSS in e-Government | Domains |
| 9. Alignment of internal and external strategies | Coordination |
| 10. Inter-Institutional collaboration | |

OSS adoption index (2014)



 Target

1.5 Proprietary desktop,
but OSS browser
and tools



3.2 Local adoption and
Linux global policy



3 Dual policy for
internal and
external tools



3.1 Important usage of
OSS frameworks
and libraries



4 EC produced
software distributed
on OSS



For public administrations



EUPL - European Union Public License

- In 23 official languages
- EU law compliant

ISA²

- Open Source Observatory Repository (OSOR)
- JoinUp
- European Interoperability Framework
- Software developed: EUSurvey, LEOS, ECI/OCS, CIRCABC, ...



Open PM²

- Common project management language
- Increase collaboration efficiency and success rate
- Certification, guide freely available

Connecting Europe Facility

- Targeted infrastructure investment

eDelivery

- Open technical specifications
- OSS and added value services



For Research and Innovation



Increasing top-down policy push

- New European Interoperability Framework, 23/03/2017



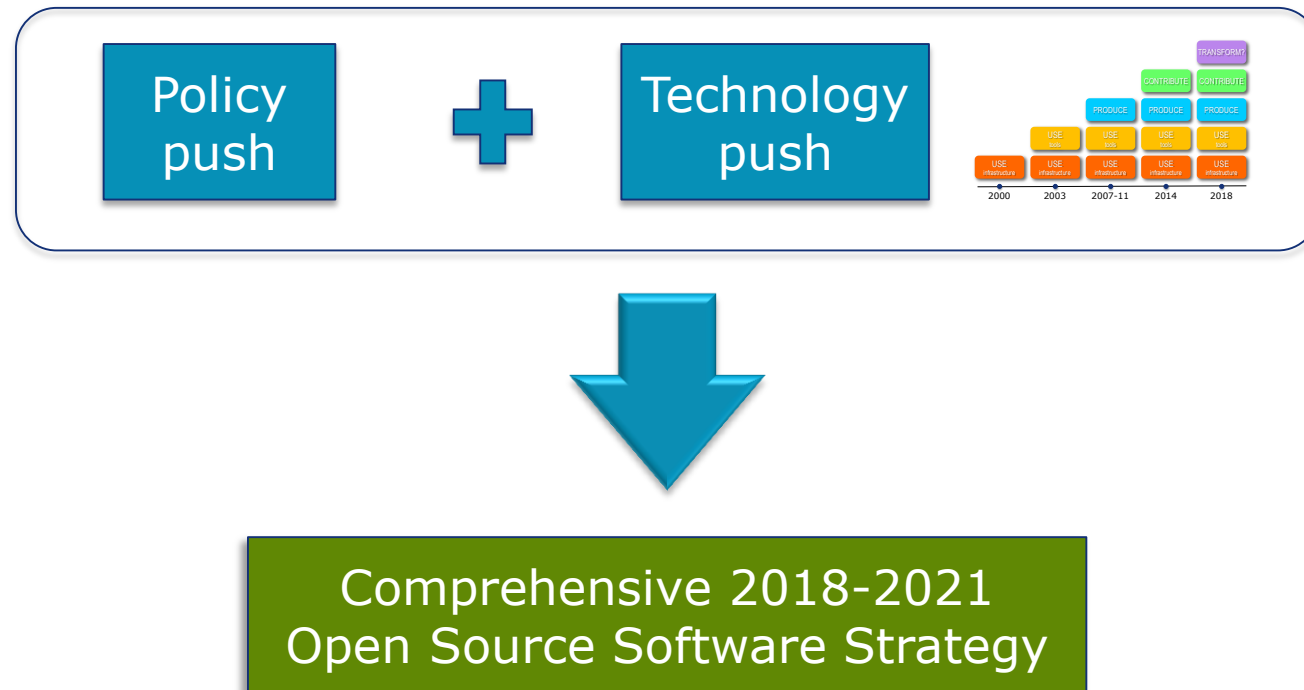
Rec. 2: adoption of Open Source Software as enabler of **reusability**

- Tallinn Declaration on eGovernment, 6/10/2017

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."

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

Drivers for a new OSS strategy



Next OSS Strategy

Policy in other public administrations

Licencing and IPR

Action within public administrations

Developer communities

Technology and community trends

OSS thinking/practices within the EC



Comprehensive 2018-2021
Open Source Software Strategy

Tackling roadblocks for greater use

- Legacy
- Legislation
- Support
- Security

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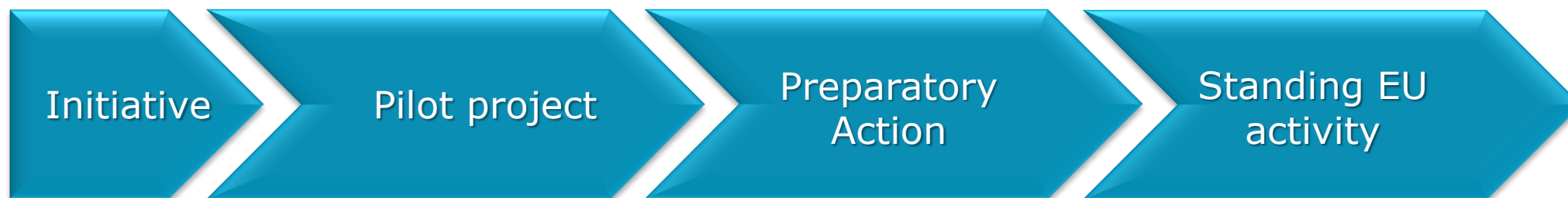


**European Union
Free and Open Source
Software Auditing**



Free and Open Source Software Auditing

EU-FOSSA journey



EU-FOSSA
(2015-2016)



EU-FOSSA 2
(2017-2019)



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

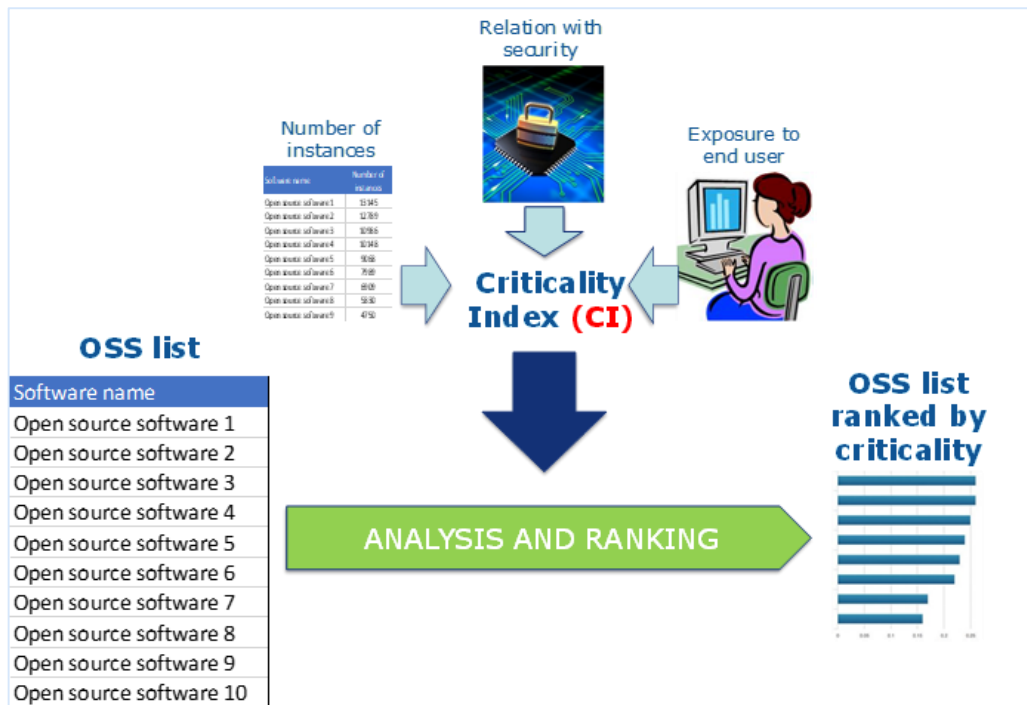
Approach

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

Lessons learned

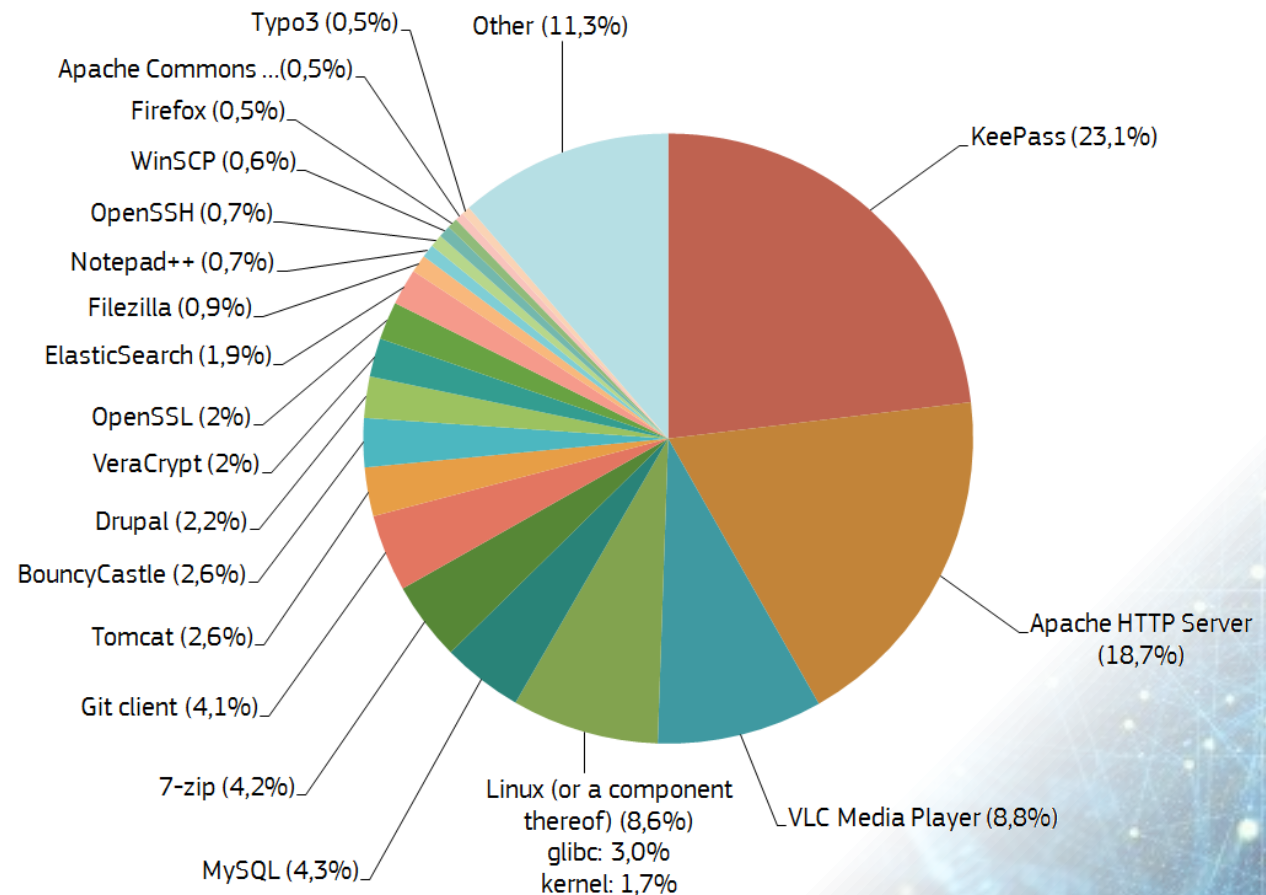
- Methodology works
- What about fixing bugs?
- Improve cooperation with communities
- Positive reaction
- Code reviews useful (but...)

EU-FOSSA - OSS criticality ranking



EU-FOSSA - public survey

- June 2016
- 3282 participants



EU-FOSSA 2 (2017-2019)

What is new?

- Increased scope
- Bug Bounties
- Hackathons
- Fixing already known bugs
- Closer cooperation with developer communities
- Improved communications programme

EU-FOSSA 2 - Bug Bounty programme

Proof of concept

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

Main programme

- ~20 activities
- Critical OSS used by EU institutions
- >1 M€ budget
- Including high rewards

EU-FOSSA 2 - cooperation with communities

Proof of concepts

- Hackathons
- Improving software

More communication

- Awareness about EU-FOSSA 2
- Awareness about the importance of software security in
- Listening to you

EU-FOSSA 2 - 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



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