Organisations Analysed

Apache Tomcat
Bitergia
eclipse
LibreOffice
OpenSSL
OWASP
ownCloud
PIWIK
redhat
spring

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Work Package 1:
Comparative Study
Project Sustainability Metrics

- An efficient method to evaluate the sustainability of Open Source Projects
- 34 metrics defined, grouped in 6 categories:
  - Community Activity
  - Performance
  - Quality & Security
  - Demographics & Diversity
  - Governance
  - FOSS support

- Metrics criteria defined: description, unit and method of measurement
- Frequency and Responsibility for the measurements defined
- A Scoring system, to measure each metric
- Graphic representation of the results

FOSS Comparative Study

- 14 EU institutions and FOSS (Free and Open Source Software) communities analysed
- 10 Areas and the corresponding software security best practices used during the development life cycle are compared, identifying the less governed areas and proposing recommendations to improve them

Main findings:

- FOSS communities should use formal methodologies for project management and software development.
- European institutions should improve software security (definition, review, response) for all their projects, independent of whether it is an internal or public application.

FOSS Governance

- A Governance Model proposed, based on international standards
- 5 Governance Areas and their relevant processes defined
- Easy to implement recommendations to evolve the maturity of existing governance practices, among them:
  - Clearly define Roles and Responsibilities, technical or business-related, while ensuring the existence of a Steering Committee
  - Ensure project support at all times
  - Define and comply with the decision-making process
  - Be aligned with business objectives
  - Ensure software governance
  - Provide financial support - Budget or funding resources that offer value-added services

Results - Quality and Security Metrics

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