



FOSSA – Work Package 3

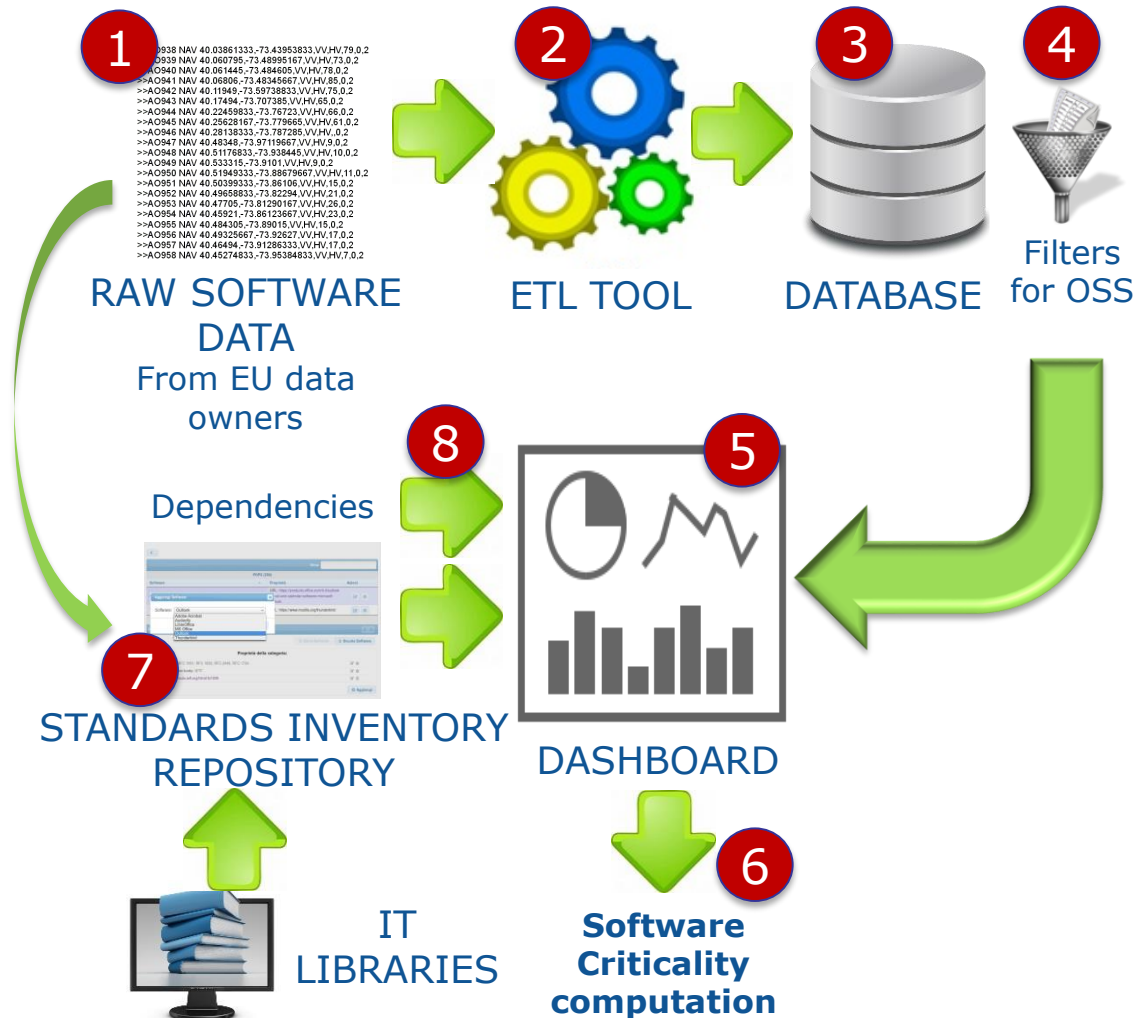
**Open Source
Software and
Standards
Inventory
Methodology**

Inventory process



European
Commission

- [1] Combination of **raw software inventory data** from existing databases
- [2] Data **extraction, transformation and loading** into a [3] **relational database**
- [4] **Filtering** to identify the OSS
- [5] Use of a **dashboard** to identify critical software:
 - [6] *Ranking by criticality*
- [7] **Inventory of standards**, cross check of:
 - standards applicable to the inventoried OSS software
 - External libraries
- [8] Enriching the software inventory with:
 - Metadata on **dependencies**
 - Info on **standards**



Inventory architecture/tools



ARCHITECTURE LAYERS

PRESENTATION



DBMS



ETL TOOL



FEEDING FILES



EXISTING
DATABASES



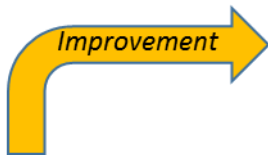
SELECTED TOOLS



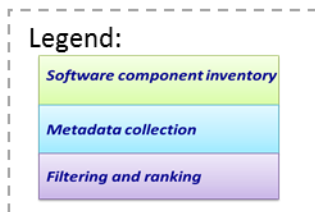
"Pilot" vs. "Target" scenario



"Pilot" scenario



"Target" Scenario



The pilot scenario of the FOSSA project can be improved in the longer term with:

- Enlarged organizational domain: access to more complete information sources, particularly for the European Parliament;
- Direct, real-time inventory through a scheduled/automated ("push") approach with agents installed on servers + use of an industrial automatic discovery and inventory tool;
- Automatic search for additional metadata in large internet databases;
- Flexible filtering and ranking: integrated dashboard with customisable ranking criteria/rules.



For more details on the inventory methodology and architecture, please refer to the project documents published at:

https://joinup.ec.europa.eu/community/eu-fossa/og_page/project-deliveries