



Spago 4Q

## *Quality of OSS Forges*

**Davide Dalle Carbonare**

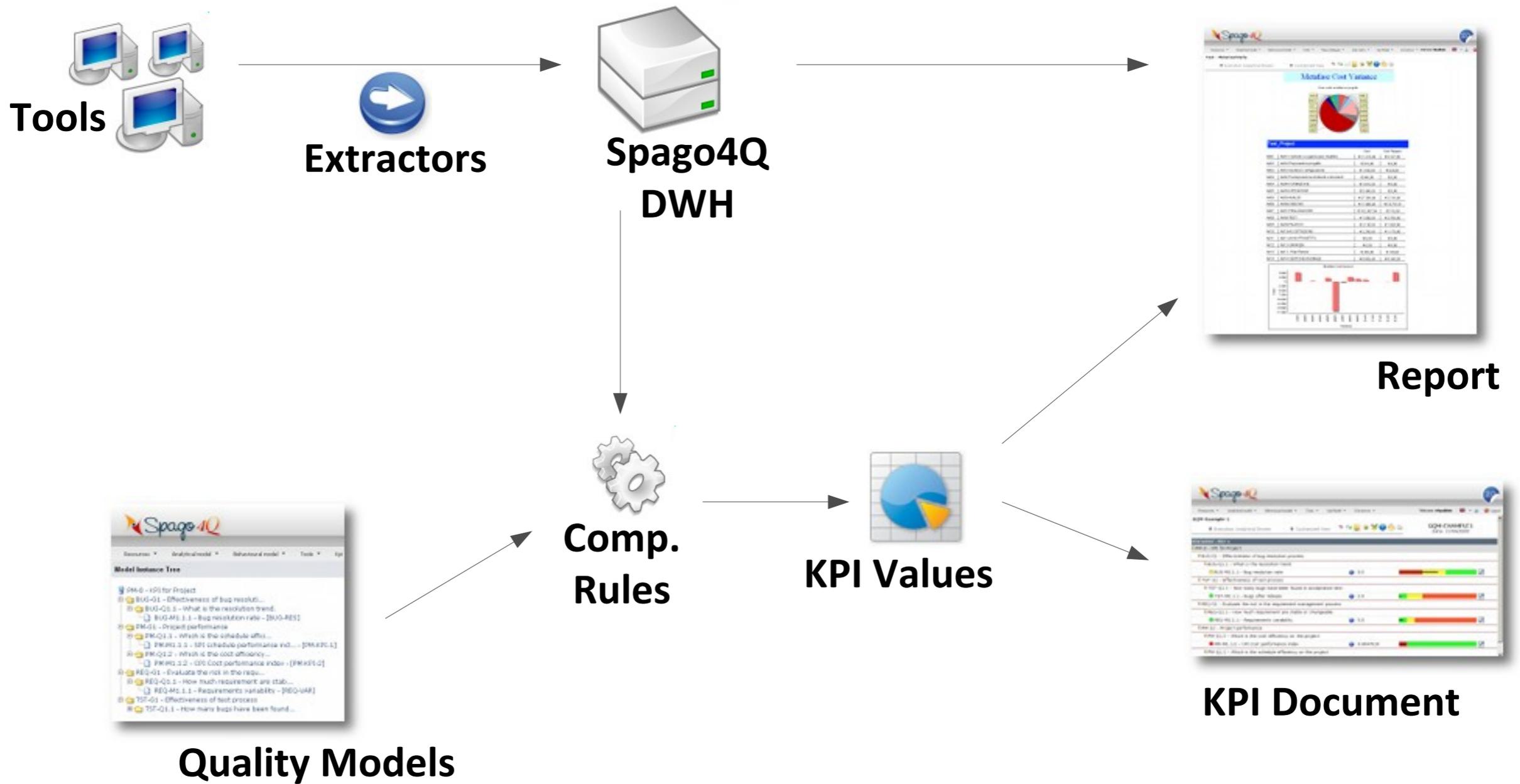
*Engineering's Competence Center for Quality*

*November 9, 2010 - Grenoble*



# The free/open source platform to measure, analyze and monitor the Quality of Products, Processes and Services

# Overview



# Public Information

Home My Page

Summary Forums Lists

Spago4Q is a platform for assessing the maturity of the software development measures collected from the development tools with non-invasive techniques.

- Development Status: [5 - Production/Stable](#)
- Environment: [Web Environment](#)
- Intended Audience: [Developers](#), [System Administrators](#)
- License: [GNU Lesser General Public License \(LGPL\)](#)
- Operating System: [OS Independent](#)
- Programming Language: [Java](#)
- Topic: [Database](#), [Office/Business](#), [Software Development](#)

Registered: 2007-04-27 19:07

# Hosted Products

## OW2 Mature Projects

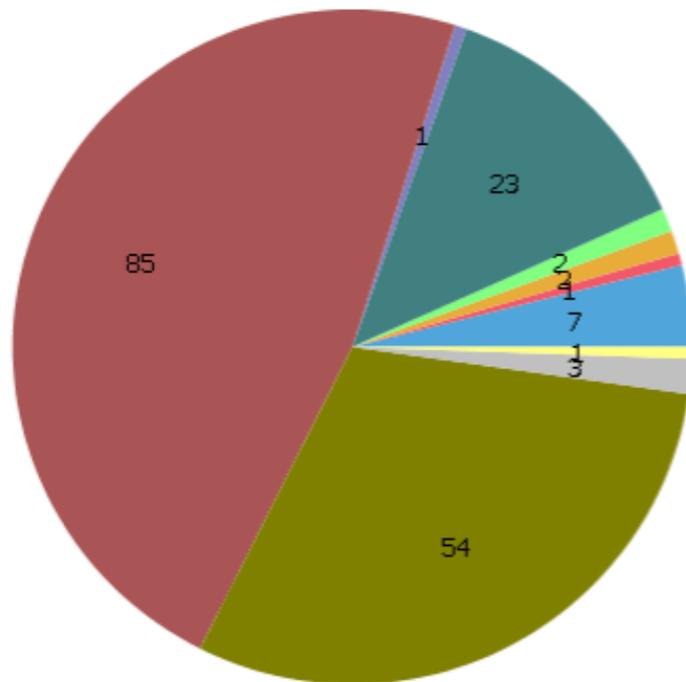
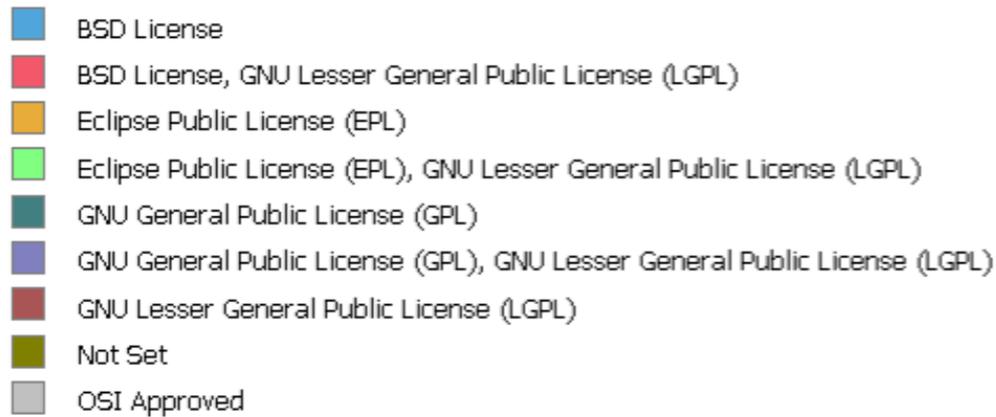
Acceleo	Fractal	JORAM	Orchestra	SOFA
ASM	Funambol	JOTM	Petals ESB	Spagic
Bonita	GASP	LemonLDAP::NG	ProActive	Spago
CARDAMOM	InterLDAP	Lomboz	RmiJdbc	Spago4Q
CAROL	JavaService	NovaForge	RUBiS	SpagoBI
CLIF	JOnAS	Open Mobile IS	Salome-TMF	Telosys
EasyBeans	JOPE	Orbeon	Sat4J	XWiki
eXo Platform				

# Development Process

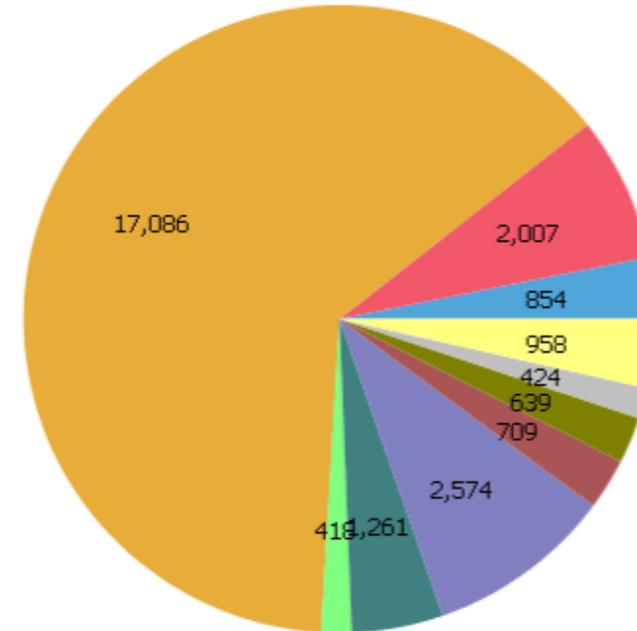
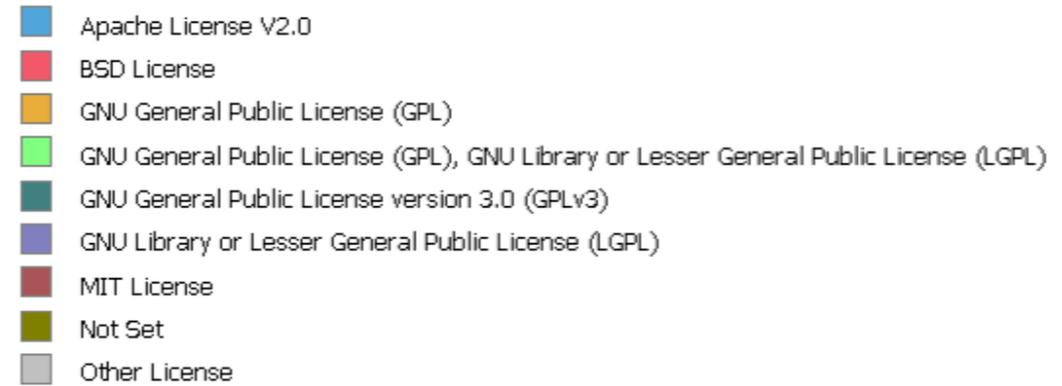
Summary Forums Tracker Lists Tasks Docs Surveys News Files SVN

# Forges Licenses Distribution

## OW2



## SourceForge

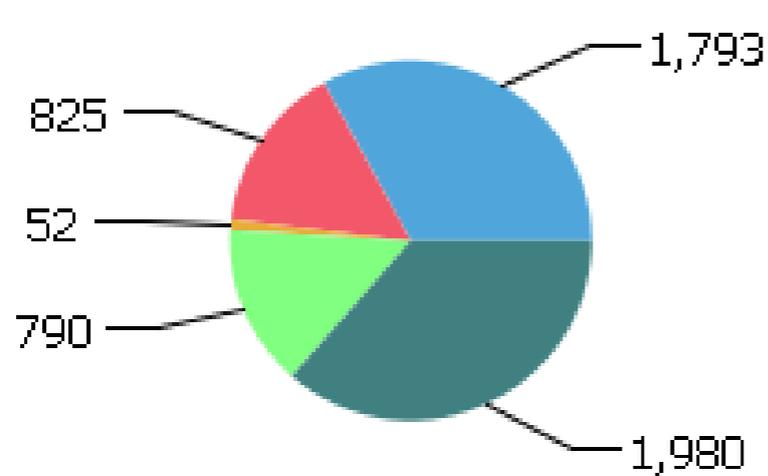


<http://www.flossitaly.it/>

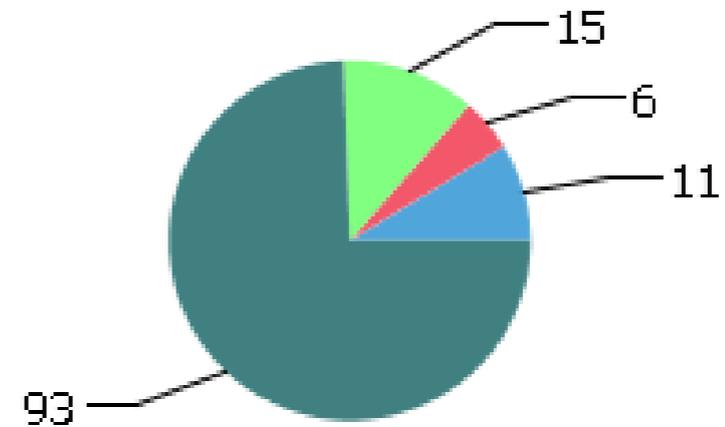
These analysys have been realized with Spago4Q

# Projects Development Status Distribution

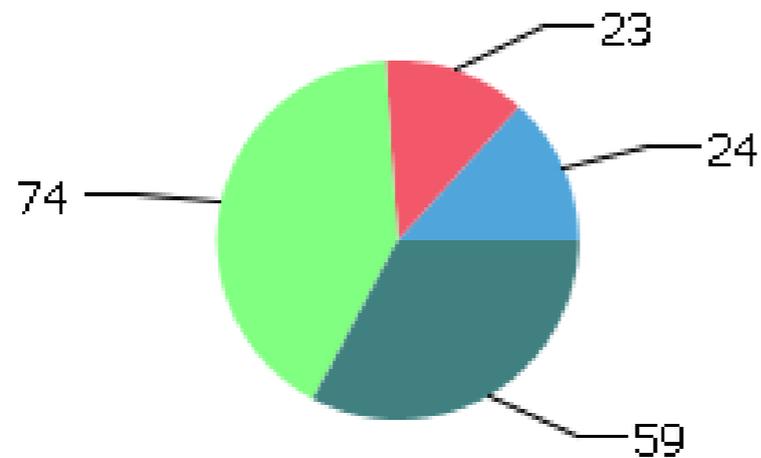
Alpha Beta Inactive Mature Unknown



**BERLIOS**



**MORFEO**



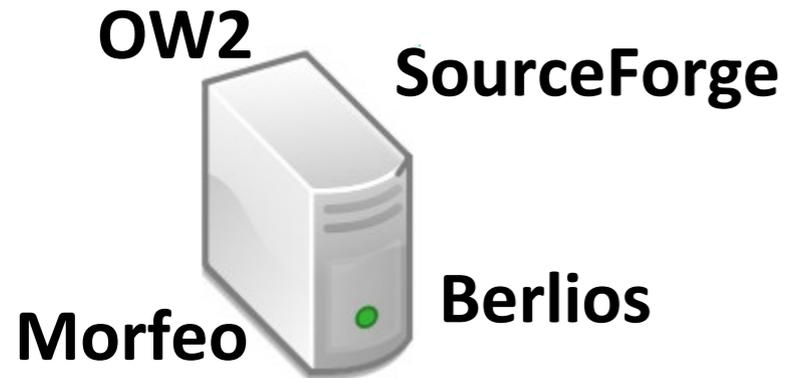
**OW2**

Data extraction on: 08/07/2010

These analysys have been realized with Spago4Q

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## Data Gathering



### HTML crawler



Spago4Q

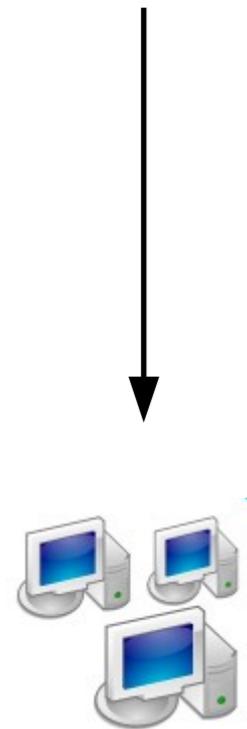


# MOSST

Model of Open Source Software Trustworthiness



Hosted Product



Analysis Tools

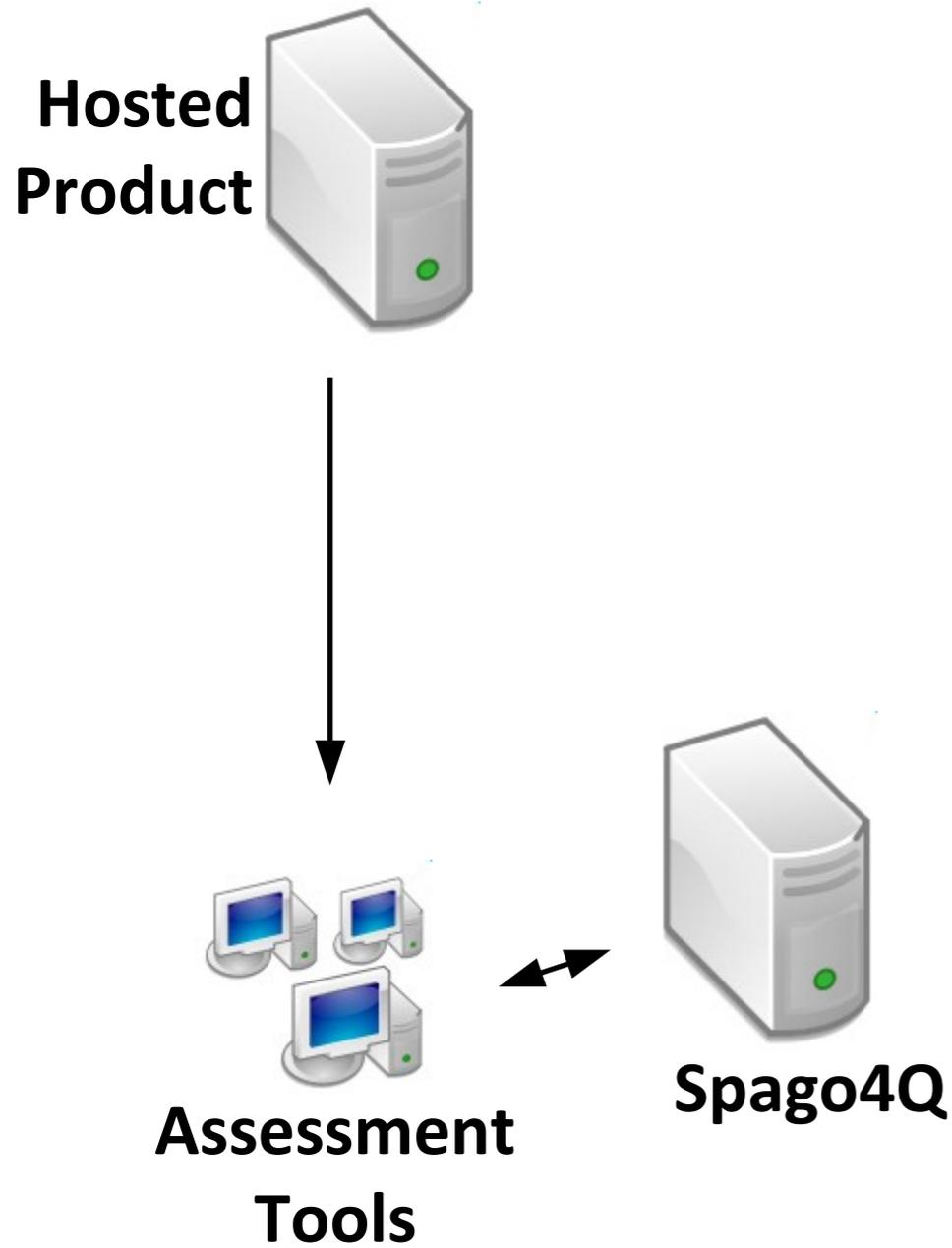


Spago4Q



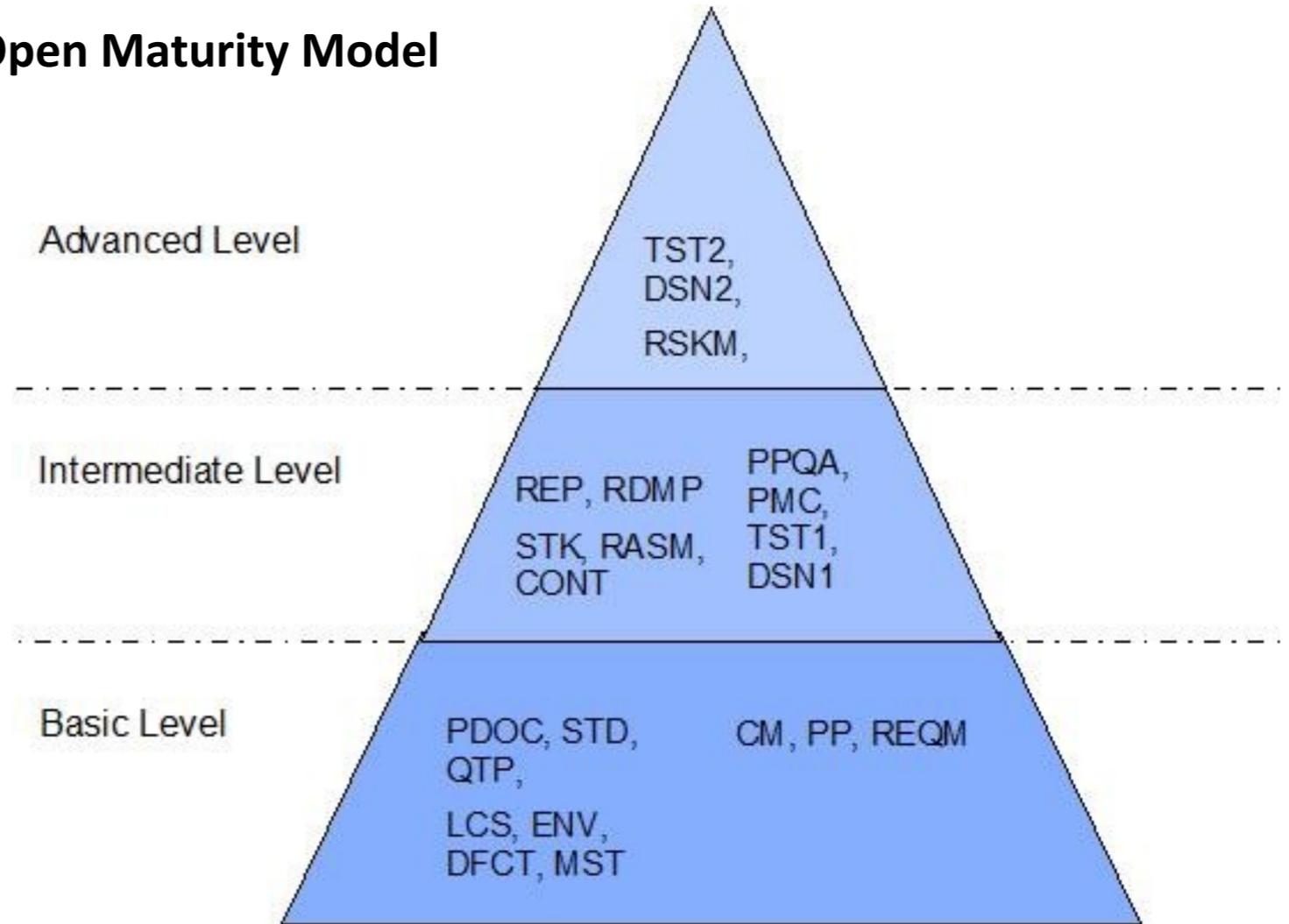
MOSST  
MOSST

MODEL	KPI	KPI CHART
RESOURCE: macxim-2.0R950		
MODEL		
↓ MOSST - Model of Open Source Software Trustworthiness		
↓ COM.3 - COMMUNITY 3	51.16	
□ 3.1_COM - Num. Packages	2.0	
■ 3.2_COM - LCOM	12.12	
■ 3.3_COM - Comment Lines per Class	29.45	
3.4_COM - NOC		
↓ COMP.1 - CSS COMPETITOR 1	16.82	
■ 1.1_COMP - Num. Attributes per Class	1.78	
■ 1.2_COMP - Num. Methods per Interface	0.0	
↓ DOC.1 - DOCUMENTATION QUALITY 1	1.32	
1.1_DOC - Comment Lines	489.0	
■ 1.2_DOC - Comment Lines per Class	29.45	
1.3_DOC - Num. Abstract Classes	0.0	
■ 1.4_DOC - Num. Methods per Interface	0.0	
↓ FUNC.1 - FUNCTIONALITY 1	6.35	
□ 1.1_FUNC - eLOC	219.0	
■ 1.2_FUNC - McCabe	1.09	
↓ INT.1 - INTEROPERABILITY 1	59.86	
1.1_INT - RFC	10.89	
1.2_INT - NOC		
↓ PERF.2 - PERFORMANCE 2	95.42	
2.1_PERF - Num. Abstract Classes	0.0	
■ 2.2_PERF - Num. Attributes per Class	1.78	
■ 2.3_PERF - Num. Parameters per Method	1.17	
↓ PORT.2 - PORTABILITY 2	68.48	
■ 2.1_PORT - McCabe	1.09	
■ 2.2_PORT - Num. Parameters per method	1.17	
↓ REL - RELIABILITY	50.0	
■ 6.1_REL - LCOM	12.12	
■ 6.2_REL - McCabe	1.09	
↓ TRS.7 - TRUSTWORTHINESS 7	52.73	
7.1_TRS - Comment Lines	489.0	
■ 7.2_TRS - McCabe	1.09	
■ 7.3_TRS - Num. Attributes per Class	1.78	
↓ USB.1 - USABILITY 1	66.63	
■ 1.1_USB - Comment lines per class	29.45	
1.2_USB - Num. Interfaces per class		
↓ USB.2 - USABILITY 2	24.07	
■ 2.1_USB - McCabe	1.09	
2.2_USB - Num. Interfaces per class		
↓ USB.3 - USABILITY 3	45.13	
3.1_USB - Num. Interfaces per class		
■ 3.2_USB - Num. Methods per class	5.45	

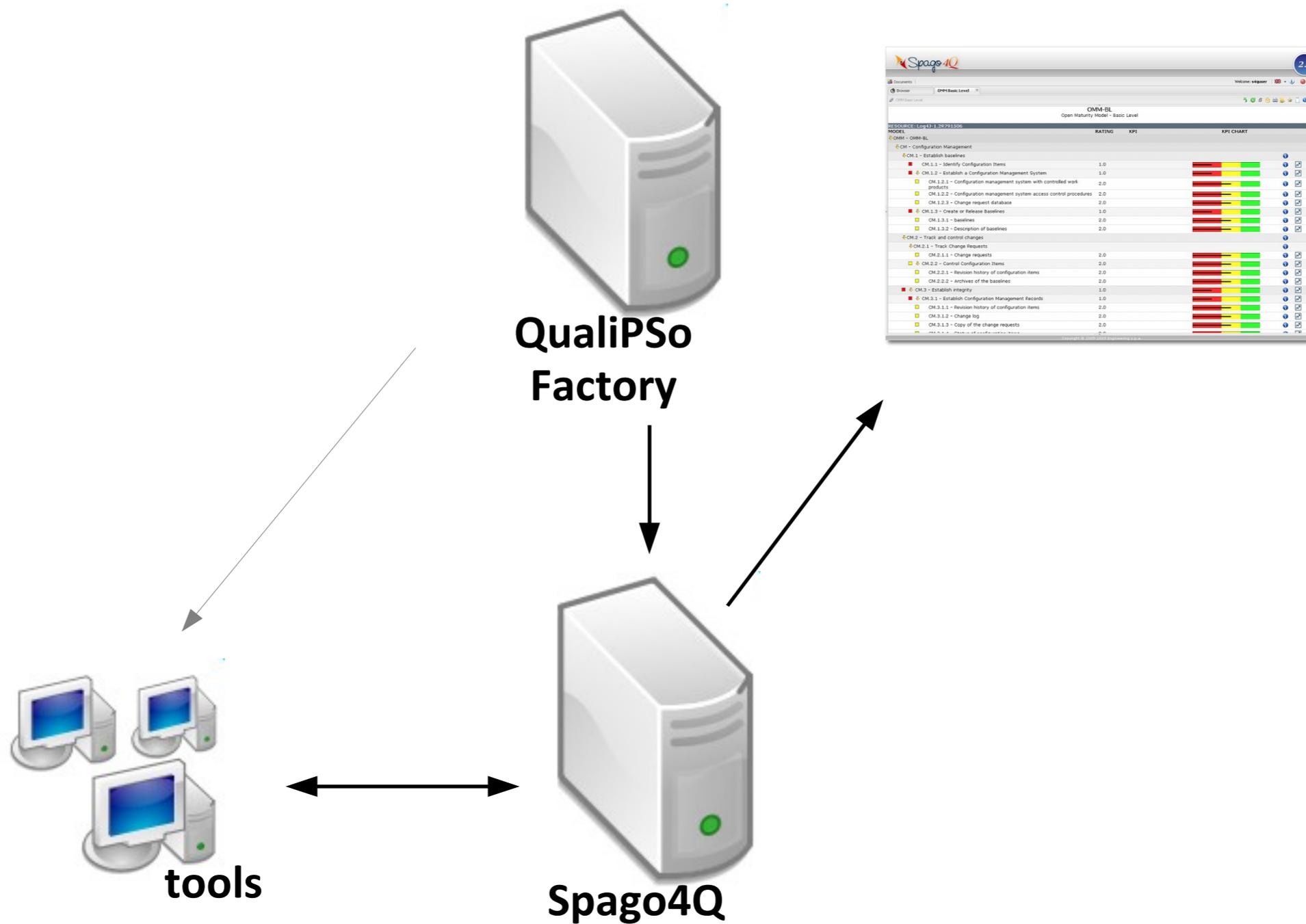


# OMM

Open Maturity Model



# QualiPSo Factory Integration



## Improve Quality in Forges

**Monitor the completeness of publicly available information**

**Expose the quality of internal products and development processes**

**Expose the quality of external products, partially hosted**

**Expose standard information for external availability**

<http://www.flossitaly.it/>