





#### The OW2 Market Readiness Levels

Improving Productivity and Market Readiness of OW2 projects

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# **Creating Value for OSS Projects**

- ►Users do not want just code
- ► Product attributes create value

Complements

#### **Market Value**



Code POCs Use-cases Demonstrators

Doc. Tutos. Testing

Upgrades Upgrades Bug-fixing Training Support

Packaging
Case studies
Collateral
Pricing
Contracts
Early adopter
Partners

Predictability Quality Trust

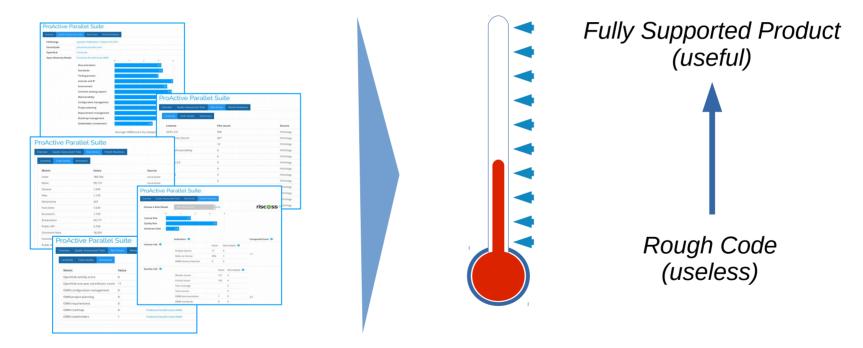


Research & Development





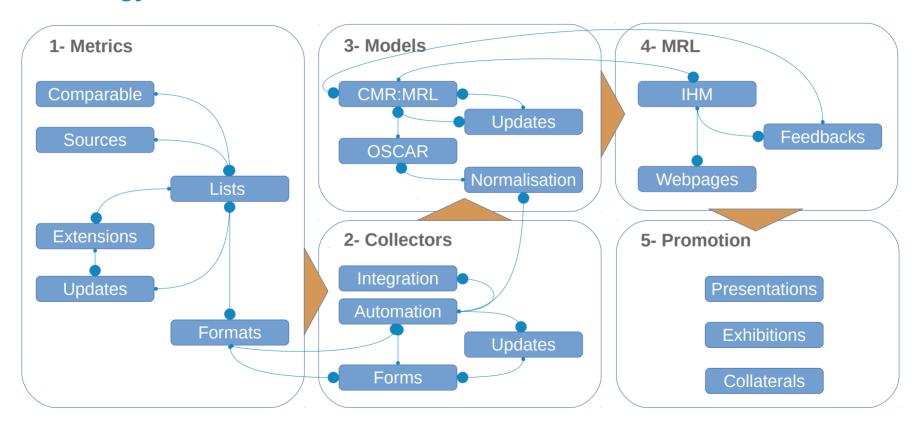
# From Data to Market Readiness Levels







### **Methodology**



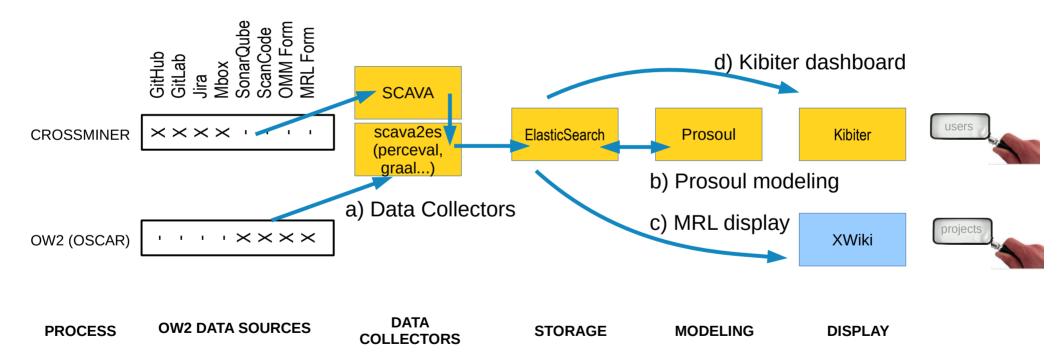




### **Architecture**











### **OW2 MRL Three-Stage Assessment**



Practices	Metrics	Scoring





#### **Stage 1 Best Practices Mapping**

**Project Communication** 

Project Communty

**Project Documentation** 

**Development Environment** 

**Project Organisation and Mgt** 

**Project Openness** 

**Development Process** 

**Testing Process** 

Release Management

Security and Vulnerabnility Mgt

Willingness and ability of the project to communicate, to be easy to deal with.

Status of the community and mechanisms that support third party contributions.

Documentation facilitating usage of the project and contribution to it.

Provisioning of development resources and facilitation of bug reports and commits contribution.

Management of requirements and planning and estimates of project activities.

Open source compliance of the project and use and implementation of open standards and open technologies.

Development practices that help improve code quality.

Provisioning, implementation quality and maintenance of the testing process.

Enablement and maintenance of the integrity of the product and its releases.

Attention to security vulnerabilities, mechanisms and resources to deal with them.



#### **Project Communication**

Willingness and abilit	y of the project to communicate, to	be easy to deal with.

COM-1	The project maintains a website, there is a project URL.		Status: Yes
COM-2	The project website provides a high-level, non-technical introduction of what the software does (what problem does it solve?).	6	Status: Yes
COM-3	The project's website provides an easy-to-find link to the source code of its latest release.	8	Status: Yes
COM-4	The project can provide evidence of at least one event participation or press release in the last 12 months, plus recent social network activity.		Status: No
COM-5	The project's dashboard on the OW2 web site is completed and up to date.		Status: Yes

#### **Project Community**

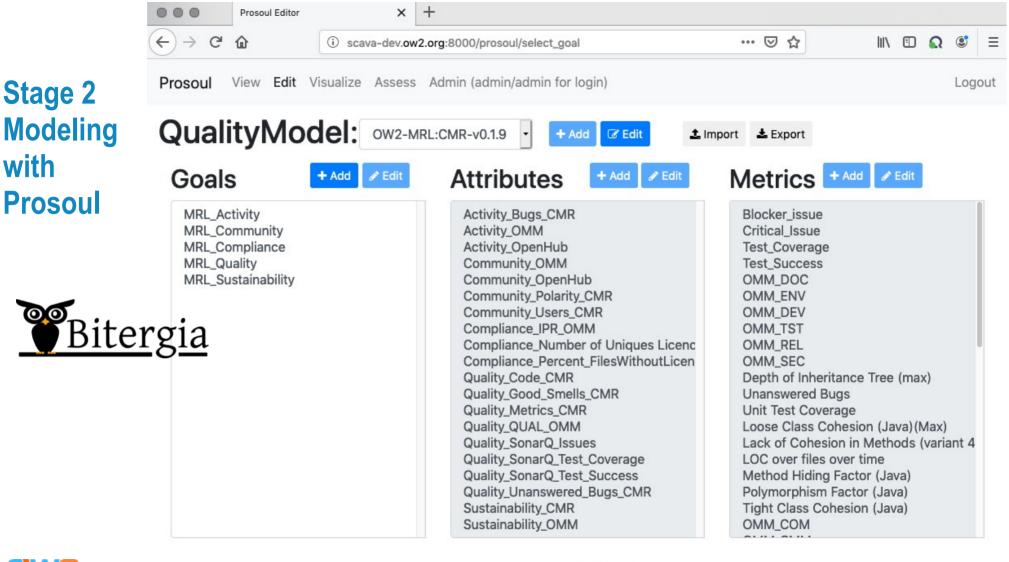
#### Status of the community and mechanisms that support third party contributions.

CTY-1	The project has at least two unassociated active code committers.	0	Status: No
CTY-2	The project can provide evidence of active discussions around the project on one or several public communication channel(s) over the last three months.		Status: Yes
CTY-3	The project is open to third-party contributions.	0	Status: Yes
CTY-4	The project recognizes as contributions not only source code, but also documentation, constructive bug reports, constructive discussions, marketing and generally anything that adds value to the project.		Status: Yes





Status: No



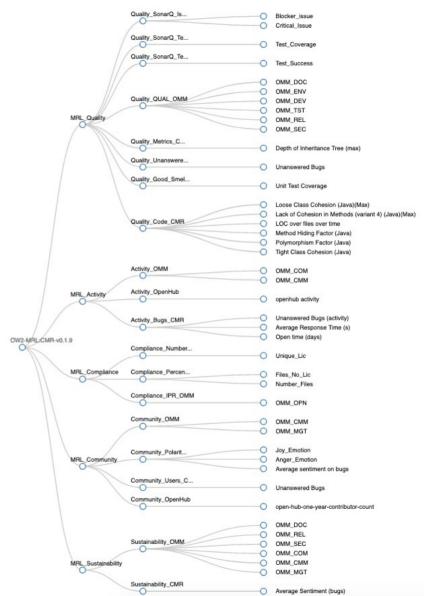
Stage 2

with

## The OW2 Model (provisional)



MRL Quality
MRL Activity
MRL Compliance
MRL Community
MRL Sustainability







## **Stage 3 Market Readiness Scoring**

Form ID	Attributes	Variable	0	1	2	3	4	5
MRL-1	Product establishment	mrl-pdt	R&D, POC		UI and Interoperability	Full Q&A, Doc etc.	Product Range	
MRL-2	Financing	mrl-fin	R&D subsidies	No commercial financing	Fledgeling financing		Appropriate financing	Generates own financing
MRL-3	Customer base	mrl-cus	No Customers	Users, no real customers		Early customer base		Established customer base
MRL-4	Repeat sales	mrl-sal	no repeat sales		fledgeling sales		Sales new customers	Repeat business
MRL-5	Market recognition	mrl-rec	No market recognition	Basic	Developing marketing	Active marketing		Leadership recognition
MRL-6	Contributors	mrl-ctr	Research partners	Open source license		Active OSS project leader	Third party contributors	Active project community
MRL-7	Support	mrl-spt						





Cedric Thomas, OW2

#### **Market Readiness Levels**

"flight proven"

"flight qualified"

"prototype in space"

"proven demo"

"relevant envt validation"

"Lab validation"

"proof of concept"

"application formulation"

"Basic principles"

Established player

**Actively competitive** 

**Business build-up** 

**Broadening market** 

Opening market

**Usefulness verified** 

Fledgling usefulness

**Product development** 

Basic early stage

Established product with properly financed and organized Business

support Customer base, Repeat sales and Market recognition

Early customer base, appropriate financing or active community

support, recognized software

Early customer base and fledgeling financing or active community

support

Proven product recent, market opening, untested governance

Some customers recent, market opening, un-proven governance

Several users, project leadership well established

One declared user (can be internal) with declared project leader

Basic R&D code developed with one demonstrated use case, some

documentation

Basic R&D code developed



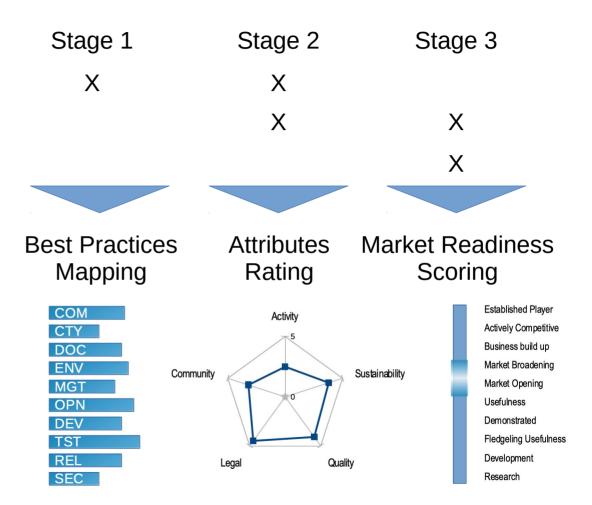


### **Computing the Score**

Self declared form

Metrics from the platform

Expert evaluation







### **Summary**





- Composite index to help promote OW2 projects
- Enabled by OW2 governance
- Leverages OW2 platform and tools
- Comprehensive three-stage evaluation approach
- From raw data to decision-support information





## Appendix: Real-life results shown at POSS 2019

Currently on the development platform so not yet publicly available as of POSS 2019.





#### **OW2 Project Marketplace**

#### OW2 Project Marketplace

Welcome to the OW2 Project Marketplace. OW2's activities for software development are organized into Projects. P and without projects, OW2 would not exist. The addition of new Projects within the OW2 Marketplace and their lifed Technology Council. OW2 endeavours to integrate solutions helping Projects to produce assessment reports on the of their governance, as described on the Quality assessment page. Active OW2 projects are listed in the directory be level, functionality, standards and license.

Project Directo	ry Latest News	
		Maturity level ▼ Fo
Project	Description	
ADR App	ADR App enal	oles anyone to identify dangerous transports. It embeds a small DB to identify pro
artis	ARTIST is a to	ol-supported methodology for software modernization and migration towards the
	ASM is an all p	purpose Java bytecode manipulation and analysis framework.





### **Project Dashboard**



BOUT ▼ PROJECTS ▼ INITIATIVES ▼ MEMBERS ▼ NEWS ▼ ③

#### Lutece

#### Overview Metrics Market Readiness

Lutece is a portal engine which allows you to easily create your websites or intranets based on HTML or XML content.

LUTECE is a java based CMS/Portal providing a very modular approach by its plugin architecture. It may also be used as a framework to build web application.



#### Web site

#### http://dev.lutece.paris.fr/ 12

News

- 2019/08/27 <u>lutece-core-6.2.0</u>
- 2019/03/26 lutece-core-6.1.2
- 2018/07/11 <u>lutece-core-6.1.1</u>
- 2018/02/16 lutece-core-6.1.0
- 2017/08/08 lutece-core-6.0.1
- 2017/08/07 lutece-core-5.1.6
- 2017/07/11 <u>lutece-core-6.0.0</u>
- 2017/06/01 lutece-core-6.0.0-RC-04
- 2017/04/14 <u>lutece-core-5.1.5</u>





#### **Best Practices Evaluation**<sup>N-4</sup>

· > G	m projects.dev.owz.org/view/lutece/omm3	★ & B □
<b>DP</b> N-4	The project has a process to vet the copyright ownership of every code contributions integrated into the software.	Status: No
OPN-5	Libraries and components that are mandatory dependencies of the project's code are available as open source software.	Status: Yes

#### **Development Process**

Development practices that help improve code quality

development methodology.

Developi	bevelopment practices that help improve code quanty.		
DEV-1	The project process for users to submit bug reports, feature requests and improvement ideas is documented and supported by a tool (e.g. an issue tracker or a mailing list).	Status: Yes	
DEV-2	The project maintains at least one stable version of the software, different from the development version.	3 Status: Yes	
DEV-3	The project quality control process is defined and publicly documented.	Status: Yes	
DEV-4	The project's source repository includes interim versions to enable collaborative review between releases, development for public releases happens publicly.	<b>3</b> Status: Yes	

The project can provide evidence of the use of agile methodology or any well-documented software

#### **Testing Process**

DEV-5

Provisioning, implemention quality	and maintenance of the testing process.
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The project applies at least one FLOSS static code analysis tool to any proposed major production release of the software before its release.

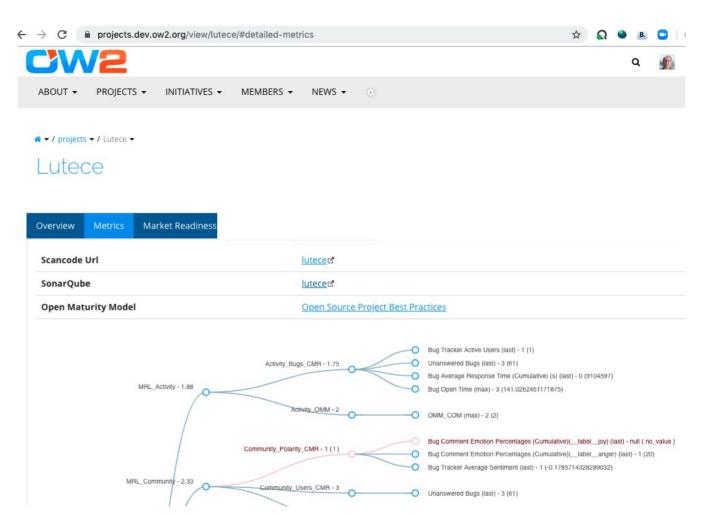




Status: No

Status: Yes

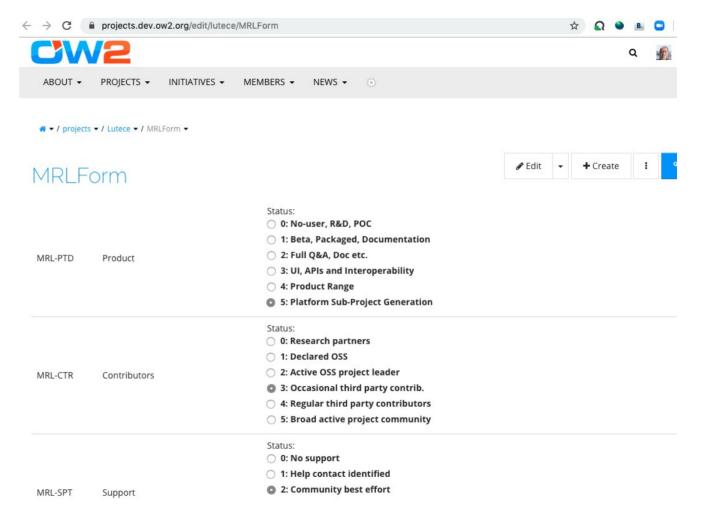
#### **Metrics Collection**







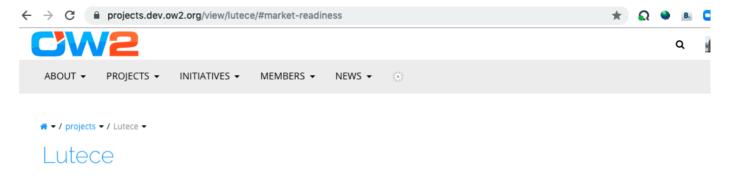
## Market Status Evaluation







## **Complete Results** for Lutece









## **Complete Results** for XWiki

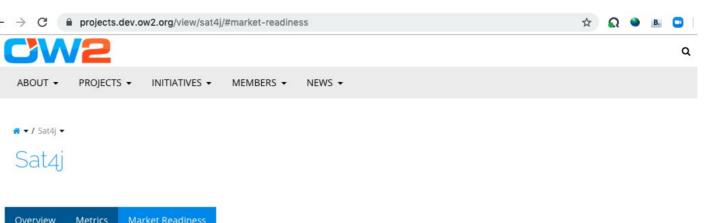








# **Complete Results** for Sat4j









## **Complete Results** for Bonita

