

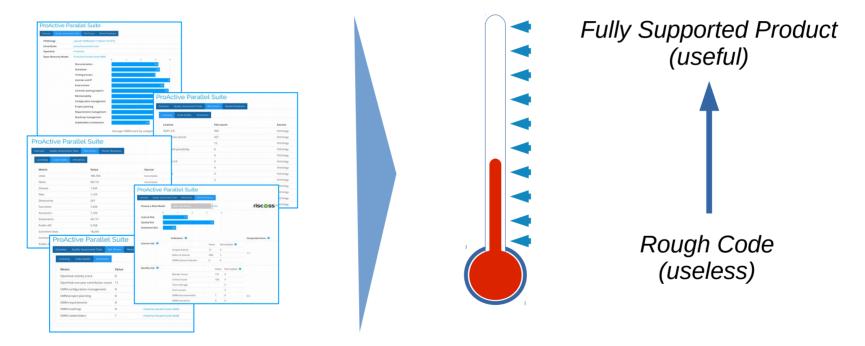


The OW2 Market Readiness Levels Improving Productivity and Market Readiness of OW2 projects

Methodology Summary on the OW2 CROSSMINER Use Case

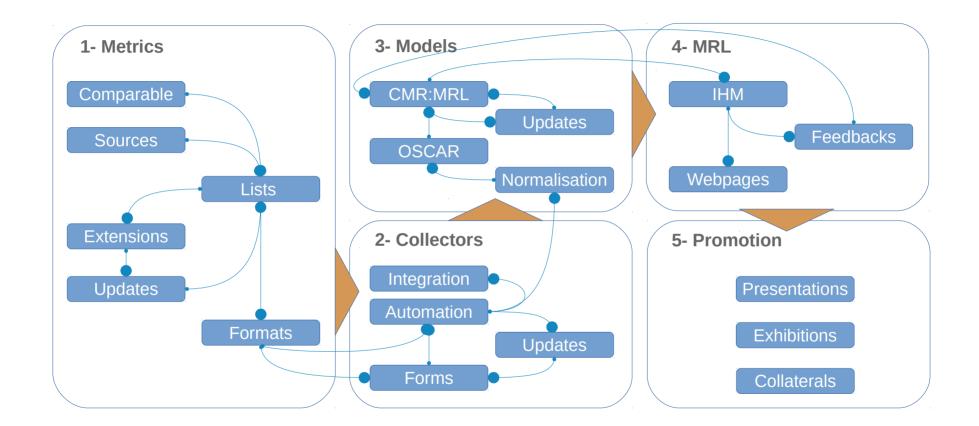


Reminder: From Data to Market Readiness Levels







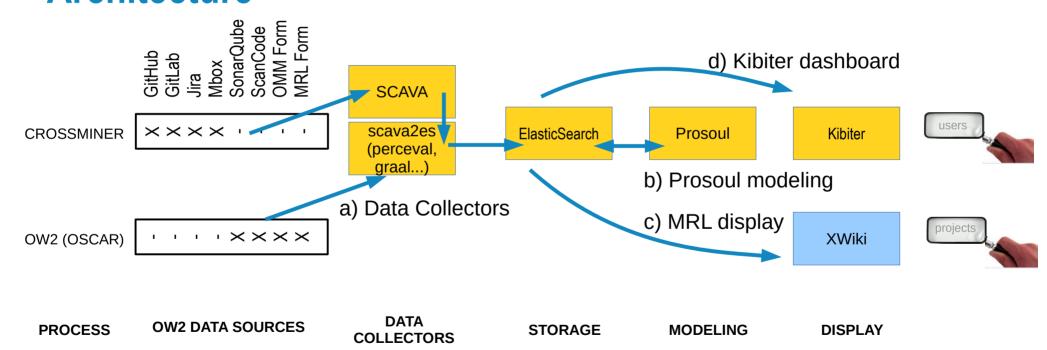








CROSSMINER-Based Architecture









Two Scenarios



▶ Project scenario

- ► Helps "customers" and project leaders better understand projects
- ► Concentrates on project metrics
- ► Add CROSSMINER metrics to updated OSCAR metrics
- Contributes to Market Readiness Levels



►User scenario

- ► Helps project leaders monitor and understand contributors behaviors
- ► Concentrates on contributor metrics
- ►Includes NLP and sentiment analysis
- ▶ Produces Kibiter dashboards





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.





Testing Process

Provisioning, implemention quality and maintenance of the testing process.

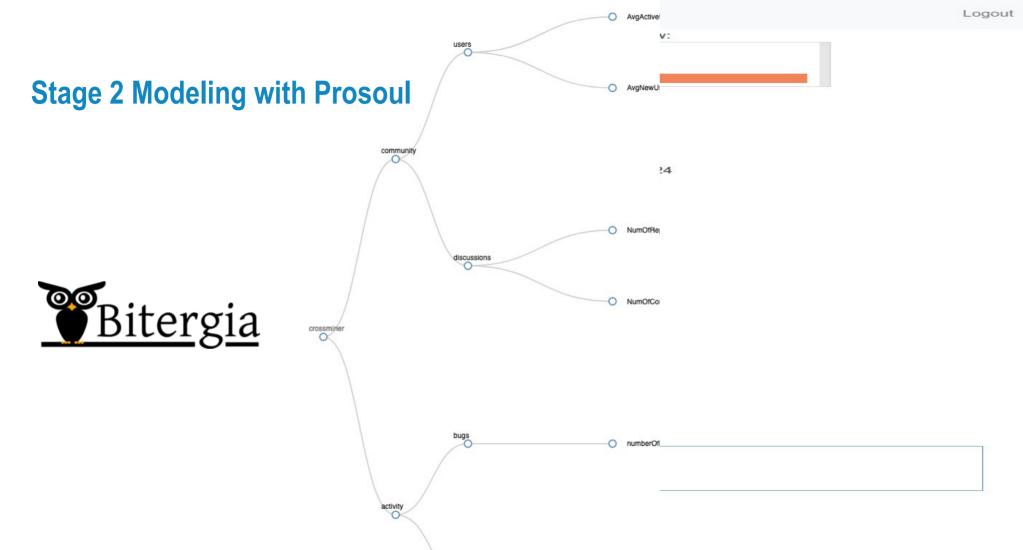
TST-1	The project applies at least one static code analysis tool to any proposed major production release of the software before its release, if there is at least one FLOSS tool that implements this criterion in the selected language.		Status: ○ No ● Yes
TST-2	The project uses at least one automated test suite that is publicly released as FLOSS.	8	Status: O No • Yes
TST-3	The project can provide evidence that the test results are documented and available.		Status: O No • Yes
TST-4	The project can provide evidence that the test plan covers different testing approaches.	8	Status: No Yes
TST-5	The project can provide evidence that each release has its own test suite		Status: No Yes

Optional checkpoints: These additional checkpoints add to the project's market readiness.

TST-6	The project uses STAMP tools to increase confidence in unit testing.	Status: No Ves
TST-7	The project uses STAMP tools to test different software configurations.	Status: No Yes

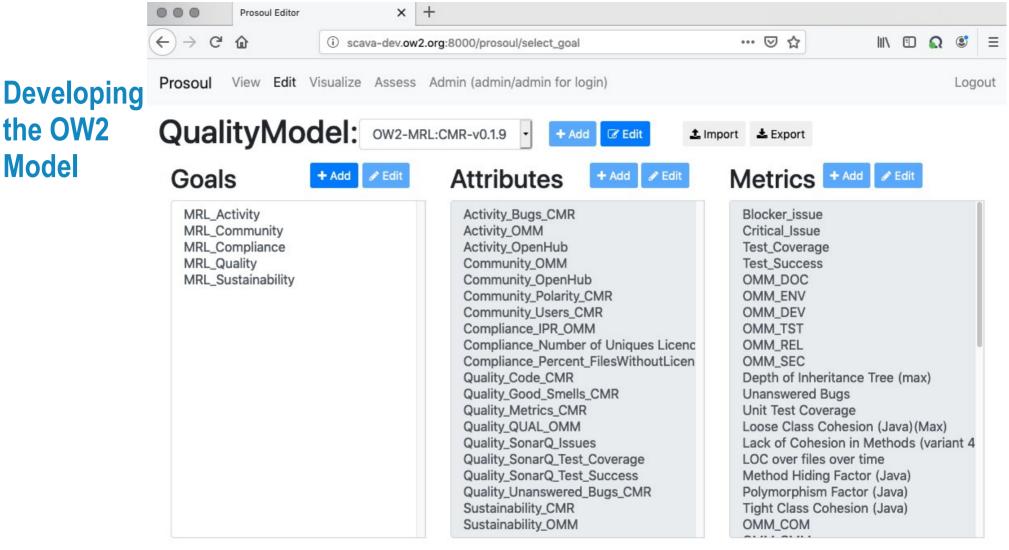








Cedric Thomas,

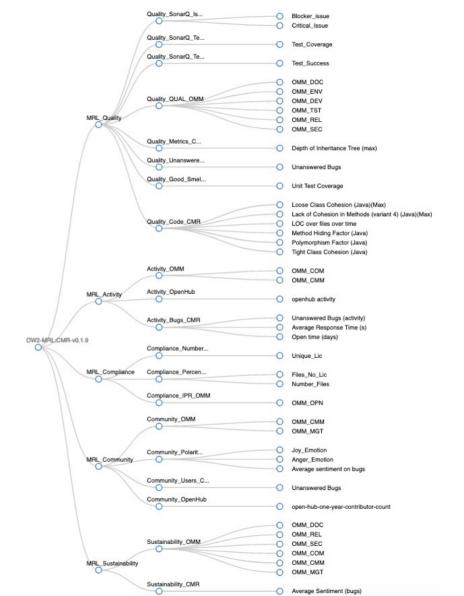




Model

The OW2 Model (provisional)

MRL Quality
MRL Activity
MRL Compliance
MRL Community
MRL Sustainability

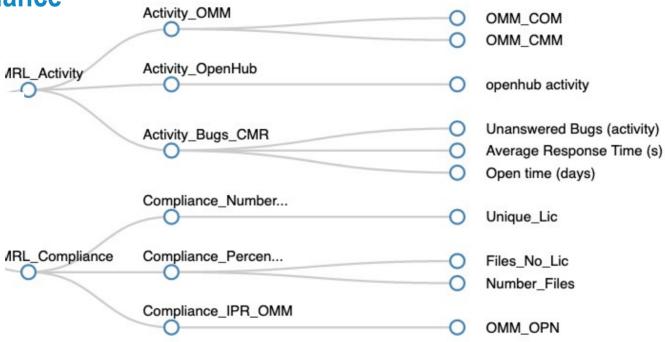






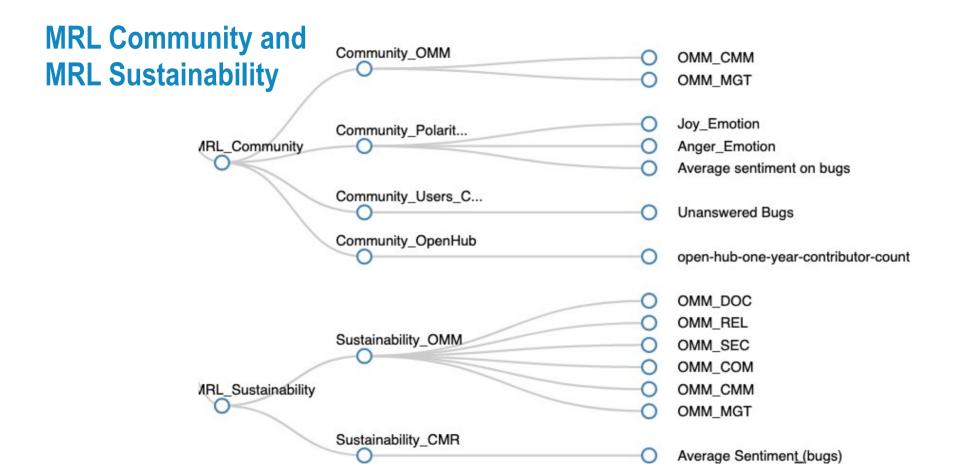
Quality SonarQ Is... Blocker issue Critical_Issue Quality_SonarQ_Te... **MRL Quality** Test Coverage Quality_SonarQ_Te... Test_Success OMM DOC OMM_ENV Quality_QUAL_OMM OMM DEV OMM_TST MRL_Quality OMM REL OMM_SEC Quality_Metrics_C... Depth of Inheritance Tree (max) Quality_Unanswere... **Unanswered Bugs** Quality_Good_Smel... Unit Test Coverage Loose Class Cohesion (Java)(Max) Lack of Cohesion in Methods (variant 4) (Java)(Max) Quality_Code_CMR LOC over files over time Method Hiding Factor (Java) Polymorphism Factor (Java) Tight Class Cohesion (Java)

MRL Activity and MRL Compliance













Stage 3 Market Readiness Scoring

Form ID	Attributes	Variable	0	1	2	3	4	5
MRL-1	Product establishment	mrl-prod	No-user, R&D, POC	Early users	UI and Interoperability	Full Q&A, Doc etc.	Product Range	Platform Sub- Project Generation
MRL-2	Financing	mrl-fin	R&D subsidies	No commercial financing	Fledgeling financing	Fledgeling and some customer	Appropriate financing	Generates own financing
MRL-3	Customer base	mrl-cust	No Customers	Users, no real customers	early customer base	early customer base	growing customer base	established customer base
MRL-4	Repeat sales	mrl-sale	no repeat sales		fledgeling sales		sales from new customers	repeat business from customer base
MRL-5	Market recognition	mrl-reco	No market recognition	Basic communicatio n	Developing marketing	Active marketing	Market recognition	Leadership recognition
MRL-6	Community maturity	mrl-com	Research partners	Open source license	Declared open source project	Active OSS project leader	Third party contributors	Active project community





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



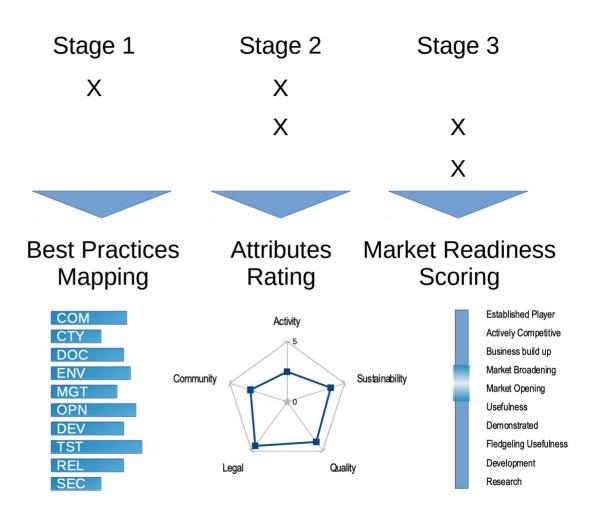


Computing the Score

Self declared form

Metrics from the platform

Expert evaluation







Summary







- Composite index to help promote OW2 projects
- Leverage OW2 platform and tools
- CROSSMINER technologies added
- ► Three-stage evaluation approach
- Work in progress





Thank You And now let's talk Q&A **Disagreements** Complements Feedback etc.