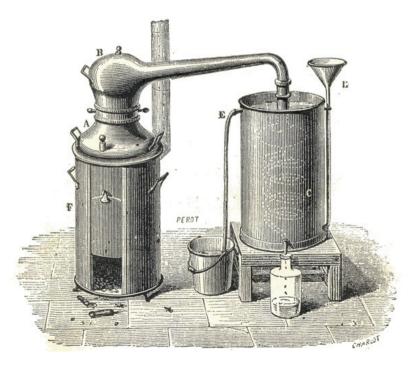


# Alambic Open-Data Management for your project

#### Boris Baldassari

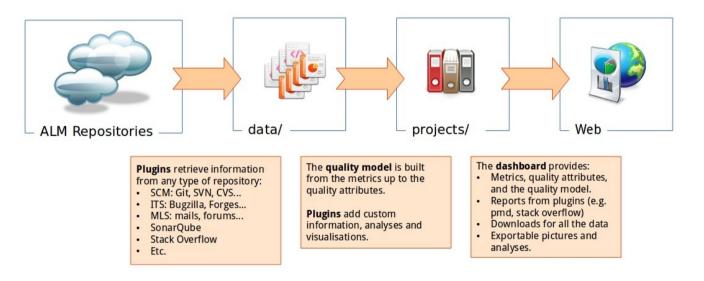
boris.baldassari@castalia.solutions http://castalia.solutions



#### Alambic – Introduction

Alambic is a **framework** and **service** for the management of **software engineering data** that:

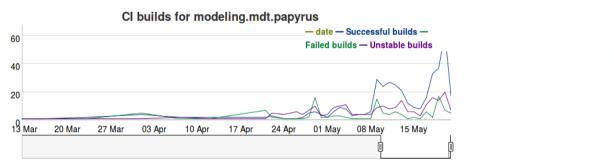
- **Retrieves**, **curates**, and **organises** data from heterogeneous sources: Git, Bugzilla, Mailing lists, Forums, Hudson, PMD, StackOverflow.
- Runs checks, actions, reports, and visualisations.
- **Publishes** all information in a unified interface.

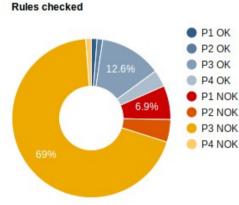




Alambic provides:

- A **dashboard** to browse all information online.
- **Downloads** for metrics, attributes, recommendations (JSON, CSV).
- **Exportable figures**: PNG/SVG, HTML snippets, interactive plots.
- Visualisations: quality model, data, history, specific data sources analysis.
- **Recommendations** to help teams improve their practices.
- Extended **PDF reports** with in-depth analysis.

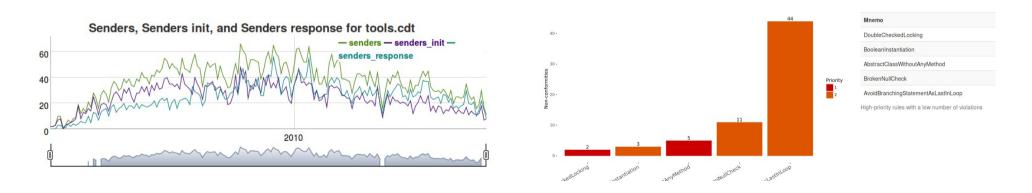






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### **Alambic Quality Model**







# Alambic plugin: StackOverflow

Alambic dashboard fo	or Eclipse - v2.0 (βeta)			
🐣 Home				
About		technology.egit Plugin stack_o	verflow	/
Documentation	<			
Projects	Summary QM Attributes Questions Metrics Manual data Plugins - Download - Errors			
Andmore		dolot — javaworkspac		
CDT	StackOverflow Questions	version delet = javaworkspac conflict cant <b>Cepositori</b>		
CDT TCF	This section shows information about SO posts concerning the tag egit during the last 5 years (i.e. from 2011-05-21T22:01:38).	exis <b>COMMIL +</b> reportech		
EASE	Quick Summary	seproject chang		
EMF	There is a total of 1013 guestions and 2438 posts related to eqit.	remot file fail		
Egit	<ul> <li>Posts analysed span from 2011-05-21 to 2016-05-19.</li> <li>Last activity registered was on 2016-05-19 15:31.</li> </ul>	push Ulluse		
GEF	• 712 of them ( 70% ) have an accepted answered.	github new work		
GMF	<ul> <li>175 actually have answers but none of them is accepted.</li> <li>126 have no answer at all.</li> </ul>			
Hudson	• There is an average of 1.41 answers to questions.	instabranch folder differ		
	The wordcloud on the right details frequent words used in the question titles. The size and colour of the words depend on their number of appearances in questions. It shows what are the concerns and issues of people when	configur show add make		
JDT	dealing with the project.			
OCL	Recent questions waiting for an answer			
PDT	The following recent questions (less than 1 month old) have been asked more than 2 days ago and still have no answer. Would y	you like to check them?		
Papyrus	Question	Created on	Score	Views
Scout	Eclipse cdt Egit commit run configuration	2016-05-05 10:12:57	0	10
Sirius	Export deployable plugi-ins and fragments for projects stored in Git repository from Eclipse Kepler	2016-05-09 20:40:53	0	25
Target Management	Eclipse egit cannot not detecting changed files or add new file	2016-05-12 16:39:01	0	14
Titan	Eclipse Git - Making changes at the same time	2016-05-14 13:33:27	1	21
Trace Compass	Commit and Push keeps making new branch (Eclipse)	2016-05-19 01:51:15	0	16



## Alambic 3.0

Alambic 3.0 adds many features:

- Architecture / Use Cases
  - More **data-centric**, positioned as a central data management platform.
  - Input **data** can be of **any type**.
  - Address **new use cases**: DevOps, system engineering.
  - Address new forges: GitHub, Apache..
- Plugins
  - New types of plugins: post and global triggers for reports
  - Wizards to easily create new projects: Eclipse PMI, GitHub, Apache



Alambic project:

- Home: http://alambic.castalia.camp
- Source, issues, documentation: http://bitbucket.org/BorisBaldassari/alambic

Check the live instances:

- Polarsys dashboard: http://dashboard.polarsys.org
- Eclipse forge dashboard: http://eclipse.castalia.camp

Get in touch with me!

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