

Presentation and Discussion of a getting started scenario

Rüdiger Lincke

ARISA™ - Applied Research in System Analysis

<http://www.arisa.se>

Växjö, 29 August 2007

Goals of this talk

- ⇒ Proposal how we could start the project
- ⇒ List the technical, legal, organizational requirements of Quality Monitors (QM) on the partners side
- ⇒ Questions to be discussed

ARISA <http://www.arisa.se>

2

Proposal to get started

- ⇒ Partners select a project
- ⇒ ARISA performs a First Contact Analysis (FCA):
 - Preparing Front-end to parse and analyze project
 - Applying standard metrics
 - Therefore, we would get a copy of the complete project (everything needed to build it, including instructions)
 - Source code
 - Build scripts
 - Libraries
- ⇒ If this works, we can in principle analyze the project

ARISA <http://www.arisa.se>

3

Next step

- ⇒ We decide on **model** and **validation** metrics
- ⇒ ARISA installs a QM on partner side, integrated in their build process, for measuring the **model** metrics
 - Automatically on every build the QM measures the new source code (part of Ant script)
- ⇒ The **validation** metrics are measured individually
 - Depends on available information (bug database etc.)
- ⇒ The results are stored in a CM system

ARISA <http://www.arisa.se>

4

Maintain QM

- ⇒ ARISA has remote access to the installed QM on partner side
 - It is possible to perform remote updates of the QM
 - Program updates
 - Metric/analysis updates
 - Software Quality Model (SQM) updates
 - To adjust the QM to changes in the build environment
- ⇒ ARISA has access to the installed CM (trivially since Web based)

ARISA <http://www.arisa.se>

5

Implied Requirements

- ⇒ Access to full source code, build information and process
- ⇒ Scripted build process, e.g. Ant (desirable)
- ⇒ Stable build environment, class path, folders (desirable)
- ⇒ Remote access to QM installation
 - ssh connection and user account
 - Read/write access to QM installation
 - Read access to build environment (for QM)
- ⇒ Contact person in each project for, e.g., information about changes in build environment

ARISA <http://www.arisa.se>

6

Open questions - discussion

➡ Refer to handout