Alitheia Core
Software Engineering Studies in Four Steps

Georgios Gousios & Diomidis Spinellis
Athens University of Economics and Business
{gousiosg,dds}@aueb.gr

Data Warehouse.

Preprocess raw data and extract metadata

Stage 1
• Uses SCM log to create a virtual file tree in the DB
• Imports mail and bug metadata

Stage 2
• Reconstructs mailing list threads
• Resolves developer identities across data sources
• Other analyses possible

Run analysis tools

More than 25 metrics already available

Researchers
• Writes an analysis tool by implementing 3 methods
• Uses raw data or metadata
• Installs the plug-in

Alitheia Core
• Resolves metric dependencies
• Schedules Metric Jobs on CPUs

Share results and tools

www.sqo-oss.org

Researchers
• Downloads Alitheia Core
• Downloads example raw data or metadata
• Writes a plug-in
• Submits it to sqo-oss.org

SQO-OSS project
• Maintains common experiment infrastructure
• Develops Alitheia Core
• Shares raw data and metadata with researchers that submit plug-ins

Community
• Replicates experiments
• Benefits from each other’s work

Leave your comments here

Don’t forget your sticker!