# The Polarsys Maturity Model Unconference workshop – session 1. (work in progress)

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## Assessment on free / open source software

- Accountability by design: source code ready for inspection
- Open development: development process ready for inspection
- Assesment doesn't need to rely on black boxes: absence of information should cause suspicion
- Assesment by third parties is possible: methodologies are needed
- A part of the assement can be automated: data sources with detailed, reliable information

## Aims of the model

Taking advantage of open source software & open development:

- Uses publicly available information
- Automates the process as much as possible
- Is transparent itself (model, methodology, software)
- Is flexible, can be adapted, benchmarked

## Can be used to:

- assess on maturity for potential users
- improve maturity aspects by projects themselves



## The model as a tool for human experts

## The model is intended to be:

- not better than an evaluation by an expert
- as much unbiased as possible
- as much flexible as possible (different targets)
- a good tool / complement for experts
- a help for developers and users



# **Objectives**

- Cost-effective: easy to setup and use.
- Flexible: can be enhanced with new data or quality requirements.
- Not just evaluation: opportunities for understanding and guidance.



### Three main dimensions

# Ecosystem:

communities, usage, feedback

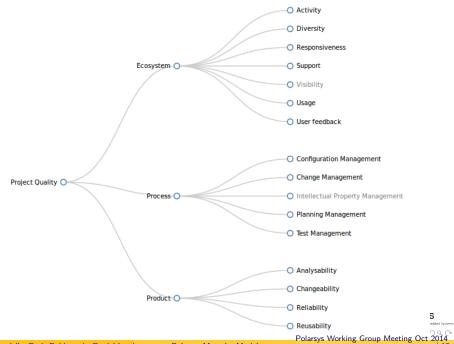
Process:

predictable outputs, management of KPIs

**Product:** 

good practices, maintainability, reliability





## **Ecosystem**

- Activity
- Diversity
- Responsiveness
- Support
- Usage
- User feedback



### **Process**

- Configuration Management
- Change Management
- Planning Management
- Test Management



## Product

- Analysability
- Changeability
- Reliability
- Reusability



## The final result

- For each attribute,
  find parameters to characterize it
- Combination of thresholds to decide "levels of maturity by attribute"
- Aggregate to decide "maturity by dimension"
- Summarise to produce a final assesment



## Discussion

### Please comment on:

- Specific attributes: add / remove / change them?
- Other dimensions of maturity?
- What to do when information is not available?
- Any other issue that bothers you...

