

# MANAGING SOFTWARE QUALITY

in educational and small business environments

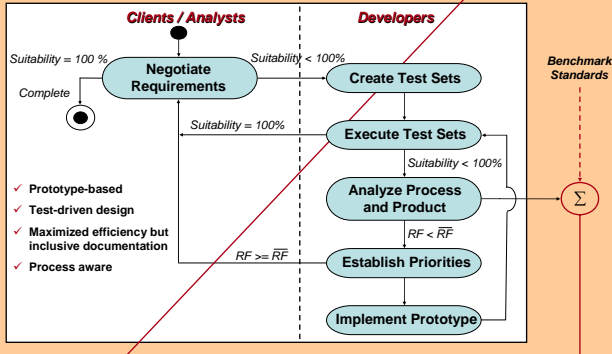
## DEVELOPMENT METHODOLOGY

### ABSTRACT

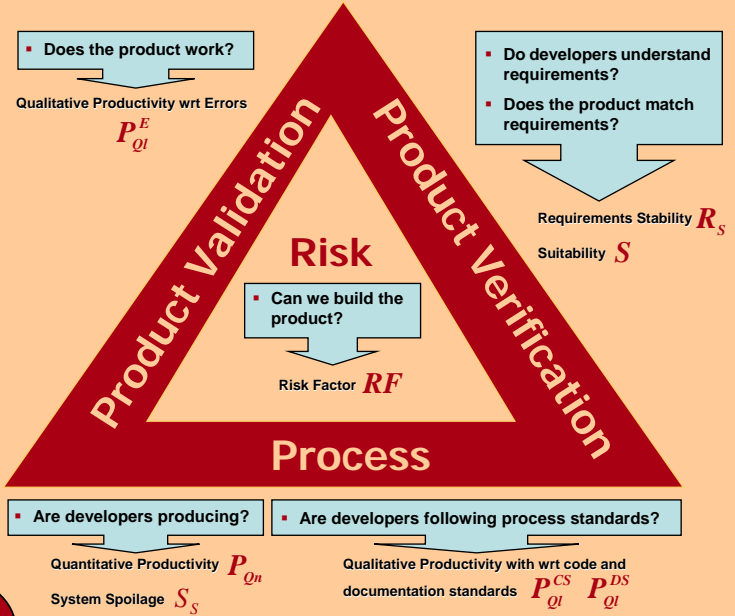
The purpose is to propose a strategy for managing and applying software quality in the classroom and in small business projects, and to develop an automated tool which will assist in implementing this strategy.

The two common traits which must govern the modality are:

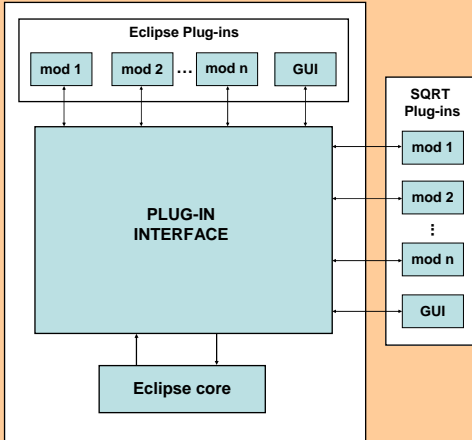
- 1) Target users are not experienced developers and.
- 2) Involvement in the software development project is not a primary activity for target users.



## QUALITY METRICS



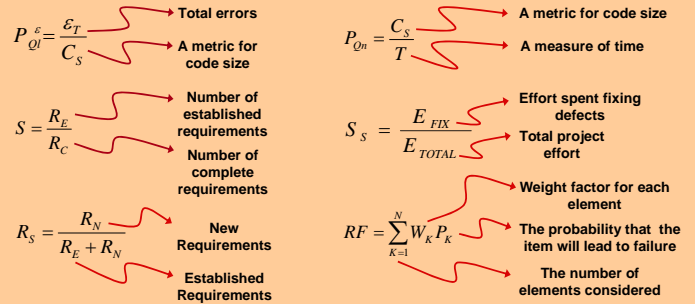
## SQ RESOURCE TOOL



### Examples of Plug-ins

- Metrics Tracker
- Simplified UML Editor
- Simplified Scheduling Tool
- Simplified Budgeting Tool
- Change Logger
- Test Case/Requirements documenter
- ...

## BENCHMARKS AND STANDARDS



### Examples of Coding Standards

- 1) ...
- 2) Use block comments at the beginning of each script, function, class, and/or method to provide descriptions.
- 3) Use JavaDoc where possible.
- 4) Use systematic naming conventions and choose meaningful names.
- 5) Remove all dead code before releasing product.
- 6) ...

### Examples of Log Book Standards

- 1) ...
- 2) Do your work in a bound logbook - don't work on scratch paper then copy into logbook.
- 3) Maintain a set of quick reference lists such as important methods, common errors with solutions, etc.
- 4) Record phone numbers, emails, etc, and summarize conversations with vendors.
- 5) Record regular narratives - describe what you are doing and why; record what you are thinking.
- 6) ...