

Quality Control in SA1

Giuseppe Fiameni – CINECA
g.fiameni@cineca.it

Claudio Cacciari – CINECA
c.cacciari@cineca.it

Quality Assurance Vs Quality Control

- **Quality Assurance:** *The process of auditing the quality requirements and the results from quality control measurements to ensure appropriate quality standards and operational definitions are used.*
- **Quality Control:** *The process of monitoring and recording results of executing the quality activities to assess performance and recommend necessary changes.*

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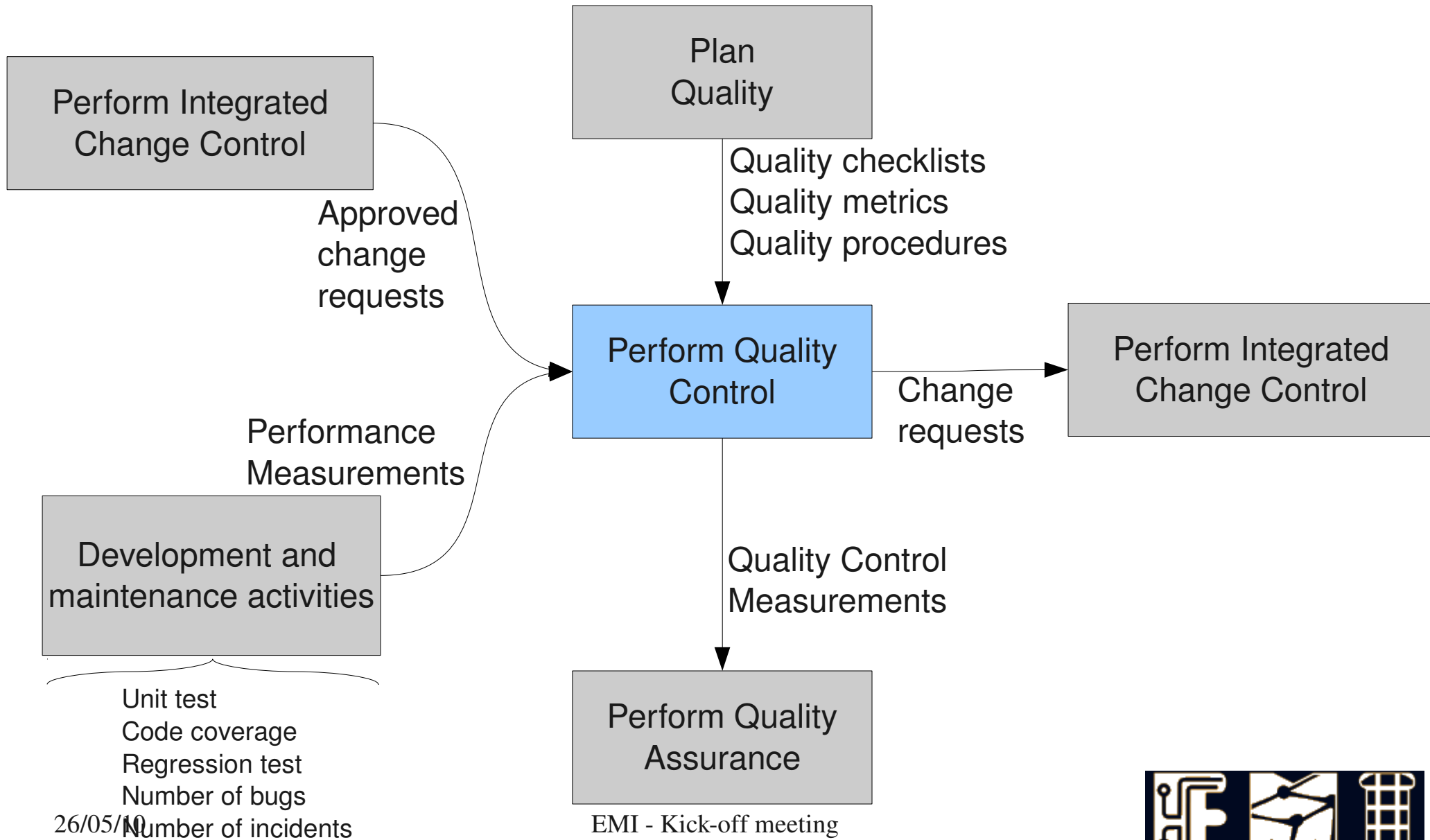
Quality Control in SA1 Goals

- Application of QA processes and procedures defined by SA2.
- Certificate and validate software components (SLA, standards, etc.)
- The Product Teams are responsible to perform the QC activities as part of their standard maintenance activities.
- Security assessments of selected EMI components (under the coordination of CSIC).

Effective Quality Control

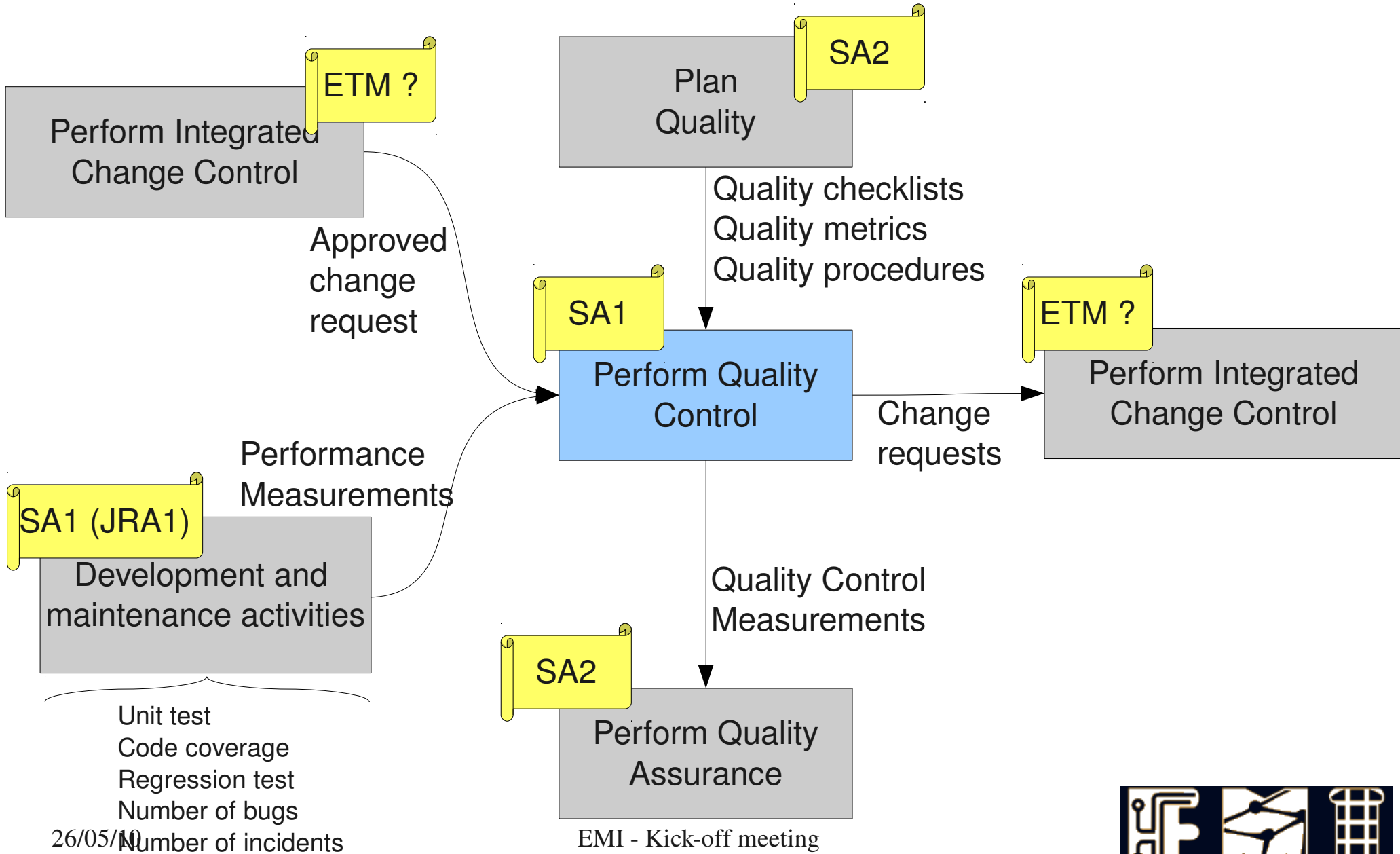
- Monitoring and recording results of executing the quality activities (i.e. please give me the code coverage for your source code and a mechanism to validate it!)
- Assess performance comparing collected results with Quality Plan directives (metrics, procedures, etc.)
- Recommend necessary changes to Change Management Control Board (ETM ?)
- Identify measurement trends that might be hiding possible errors (rule of seven)

Information flow



EMI - Kick-off meeting

Information flow



26/05/10

EMI - Kick-off meeting



Quality Control in action 1/3

- Build up the team and establish the ground rules among members
- Study and review the Quality Plan as soon as it is available (PM1)
- Get familiar with procedures and processes described in Quality Plan
- Identify metrics and procedures that require a quality control in SA1 (SA2 provides input here)
- Collaborate with Quality Assurance (SA2) and Quality Control of JRA1

Quality Control in action 2/3

- Figure out how to collect measurements from potentially heterogeneous tools (the product teams are expected to provide information according to Quality Plan directives, not vice versa!)
- Analyze collected information and eventually suggest changes to CMB (Change Management Board)
- Prepare monthly report

Quality Control in action 3/3

- Propose an “incremental” approach for metrics definition (suggestion for SA2)
 - e.g. not all the existing components might be equipped with unit tests right now!
- Keep everything easy. The quality control must not be perceived as just an overwhelming activity; the benefits of applying quality control must be clearly demonstrated to developers.
- Blame developers who do not respect quality guidelines :)

- Q/A ?