A decorative graphic on the left side of the slide, consisting of a grid of overlapping squares in various shades of blue and purple, creating a stepped, staircase-like effect.

A Standard Test Process Assessment Method? The case for Test Maturity Model!

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ICSTest – 28 September 2005

Agenda

- Why do we need a test process assessment model?
- What contenders to the crown?
- Why and what is TMM?
- The TMMi Foundation
- Proposed Structure of TMMi

Why do we need it?

- IT ever more complex
- Growth in CMM/CMMi & other models to improve processes
- Test Discipline maturing; what is there to assess test & test-related quality processes in depth?
- How do you assess the quality of the testing process that supposedly demonstrates quality?

Motivators

- What are the testing capabilities internally & of external suppliers? Ensure Regulatory & other Governance?
- Need objective robust assessment method, clearly understood by all
- Need to develop a structured test process improvement framework
- Want to identify improvement opportunities in an action plan with realistic timescales
- Extend institutionalisation of good practices
- Need to integrate seamlessly with project lifecycle... often geographically challenged!

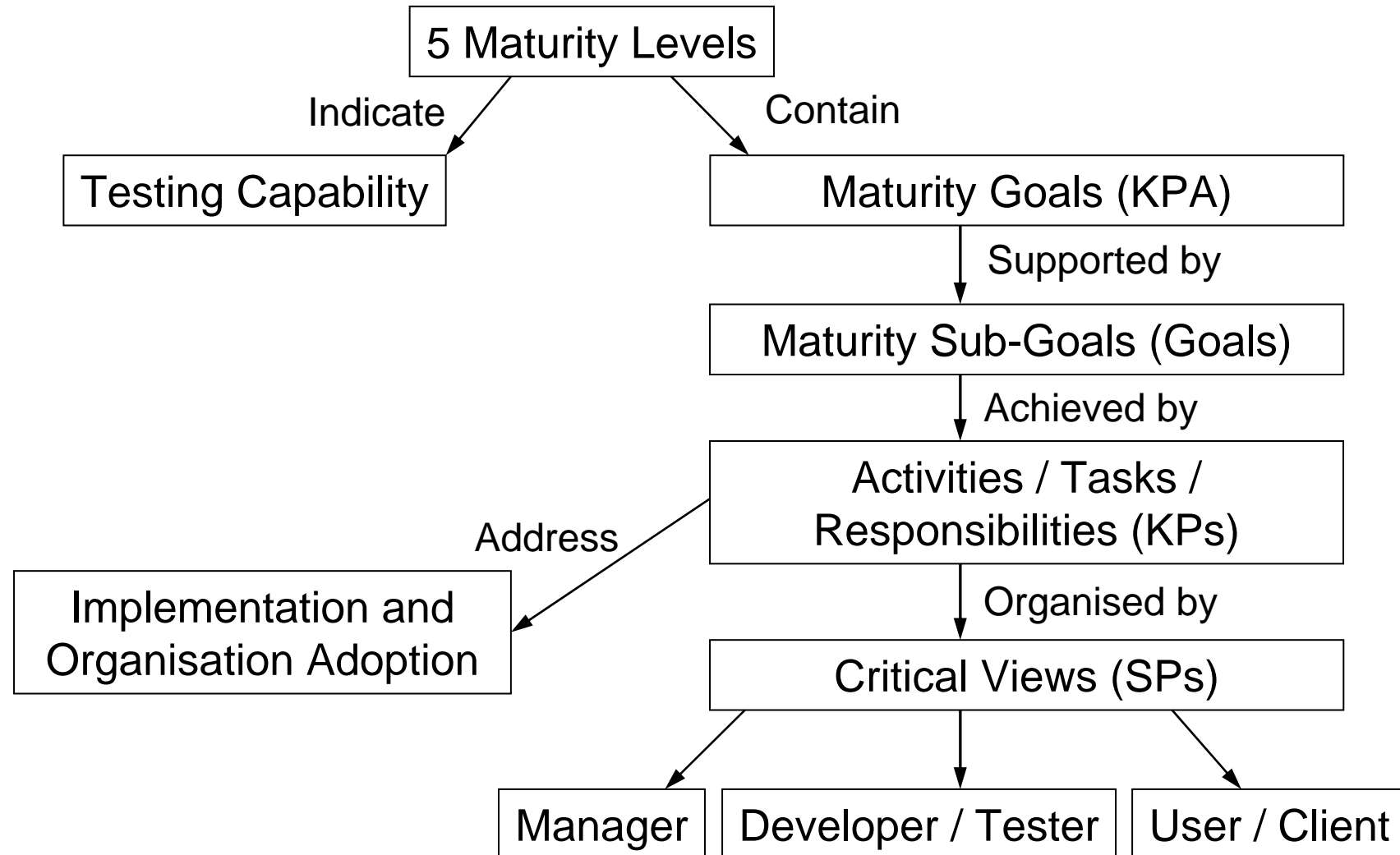
Other Contenders

- Test Process Improvement (TPI) - continuous model and flexible to organisation
- Test Improvement Model (TIM) – Based on CMM but not as extensive in KPAs nor as detailed
- CMM/CMMI – improving but still no depth in test areas
- SPICE – Doesn't address in sufficient detail
- TOM – good but protected

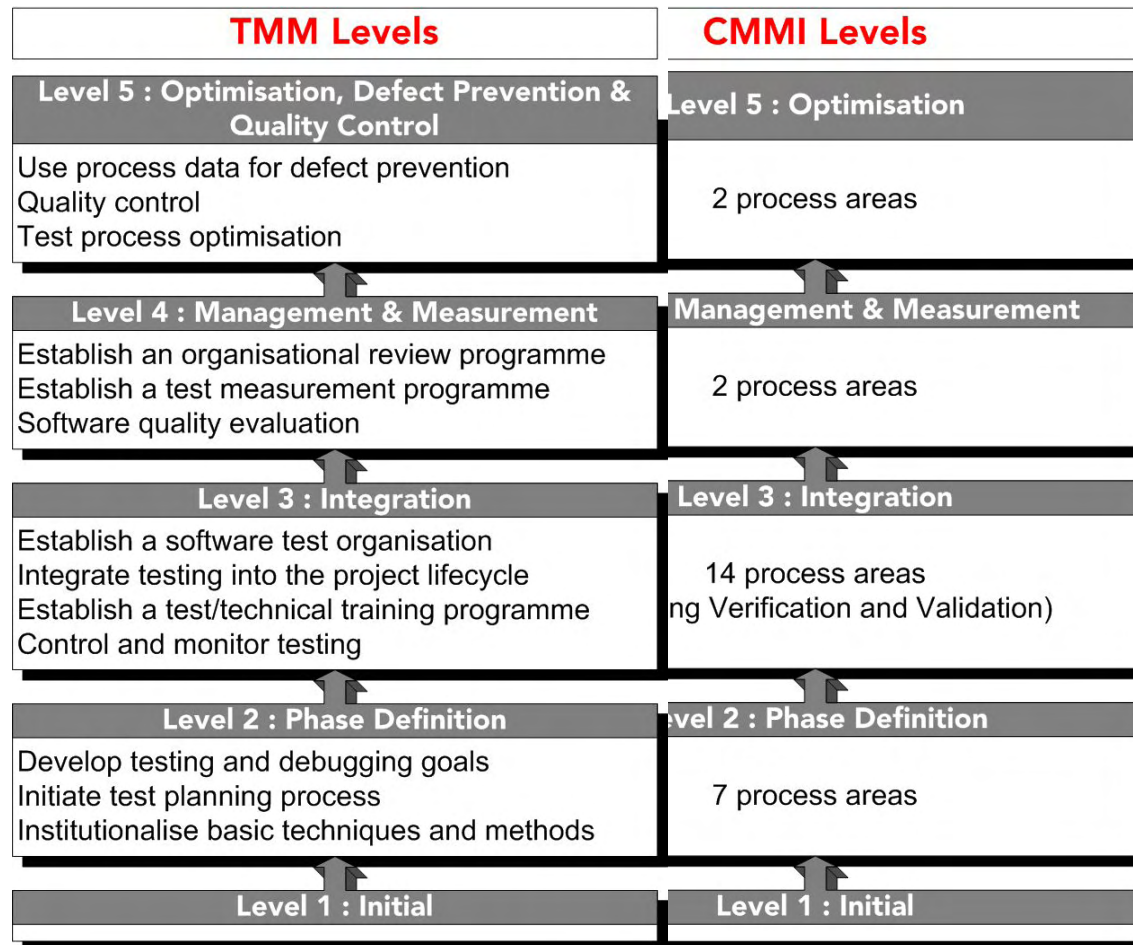
Why TMM?

- We decided on TMM because:
 - We can use experience and structure of CMM/CMMi assessments and qualified CMM Assessors
 - TMM can be developed as a staged or continuous assessment model
 - TMM can be used in isolation (of overall assessment models)...
 - In reality supports CMMi & other process maturity models, but concentrates on testing!
 - Is robust and readily understood by all – results & certification
 - Robust, structured, common Process Improvement Road Maps result

The current TMM Structure



TMM Levels



The TMMi Foundation

■ Why?

- Independent reference model development as trusted anchor for enterprise process improvement
- Integrate existing company-driven initiatives into best of breed Reference Model
- Establish basis for international test assessment standards
- Provide standard, robust Assessment Benchmarking Accreditation & Certification
- Develop public industry benchmarking data
- No other initiatives evident around the world

TMMi Foundation Objectives

- The TMMiTM Foundation proposes developing:
 - A standard TMMiTM Assessment Model that can be used in isolation or in support of wider Process Assessment models and is either staged or continuous.
 - Assessment Method Accreditation/Audit Framework for TMMiTM in accordance with ISO15504 and the process to certify commercial assessment methods against the standard model.
 - Certification and training/examination process, procedures and standards for formal, public accreditation of Assessors and Lead Assessors and the on-going management
 - An independently managed data repository to support TMMiTM assessment method accreditation, assessor and assessment certification/validation and validated assessment data and certificates.

Structure of TMMi Foundation

- Non-profit making body registered in UK
- European Board (8 members)
- Global interest/user base
- Links to SEI & Illinois Institute of Technology
- Working parties develop; large expert review panels
- Reference model & industry benchmarking data placed in public domain

Proposed TMMi Reference Model

- 3 Classes of assessment in line with ISO 15504
- Reference Model developed further in line with CMMi (cover missing elements such as Test Environments etc. and cater for progress in other models)
- Concept of Lead Assessors and Assessors trained, certified and accredited
- Based on interviews, artefacts and standard rating system; all depersonalised
- Standard, repeatable and robust assessments which are verifiable and auditable; process certification available

Benefits

- TMMi Foundation is the independent mechanism only; sole interest in developing industry standard!
- Works with and listens to IT practitioners
- Develops in line with other standard Quality & Process Models/Methods
- Common, international standard!
- Production of benchmark data in public domain

Contact us!

■ If interested, please:

- Visit our website www.tmmifoundation.org/ and register your interest

Or

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Or

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