



Advancing eHealth
Interoperability

Hand Over Workshop
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Quality Manual for Interoperability Testing

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MEDIQ



- Quality in manufacturing
 - A measure, stating that a product is free from defects and significant variations
- Quality in information technology products and services
 - Meeting the requirements of the customer
- Quality Assurance
 - Any systematic process for ensuring quality
- Quality and Quality Assurance for Interoperability Testing
 - An immature professional discipline

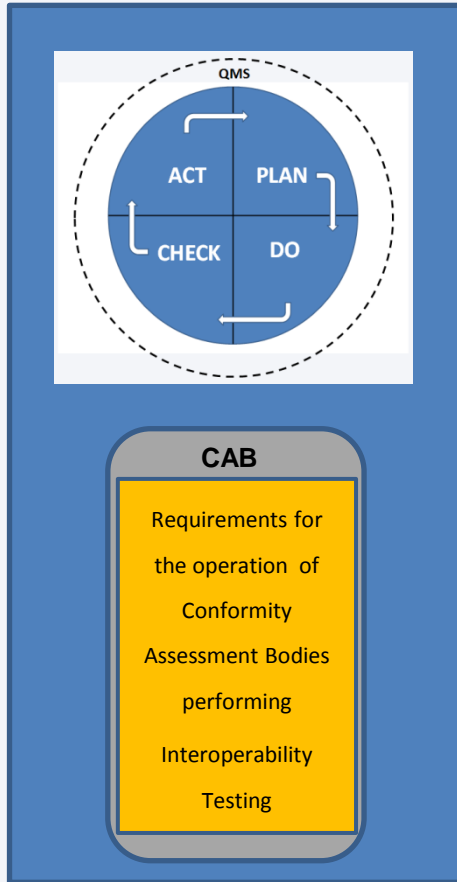


- Customer value
 - Based on customer requirements
 - Focus on the most important
 - Indicators for performance (measurable)
- Value adding processes
 - Chain of activities
 - End-to-end definition
- Feedback processes
 - Identify how well we are creating value
 - Supporting processes for measurements, assessments and improvements



Part I

D2.1 Quality Management System



Part II

D2.2 Interoperability Testing Processes

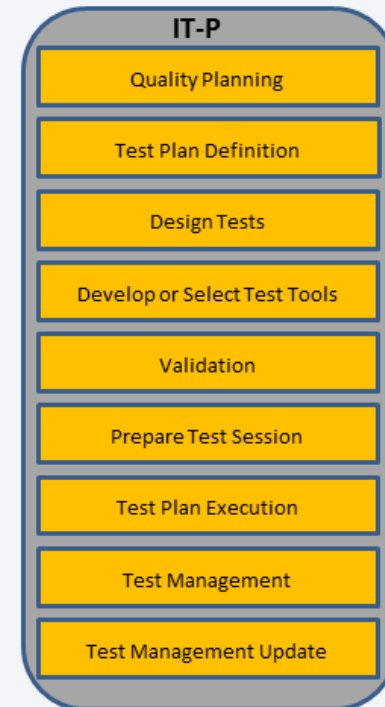




- Organisation
- Management system
- Document control
 - General procedures
 - Approval and issue
 - Changes
- Review of requests, tenders and contracts
- Complaints
- Control of nonconforming testing work
- Improvement
- Corrective action
- Preventive action
- Control of records
- Internal audits
- Management reviews
- Personnel
 - ensure the competence
 - formulate the goals with respect to the education, training and skills
 - maintain job descriptions for managerial, technical and key support personnel involved in tests



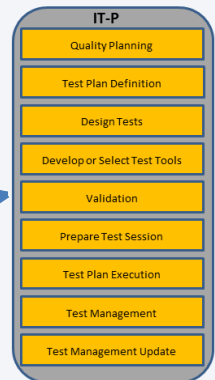
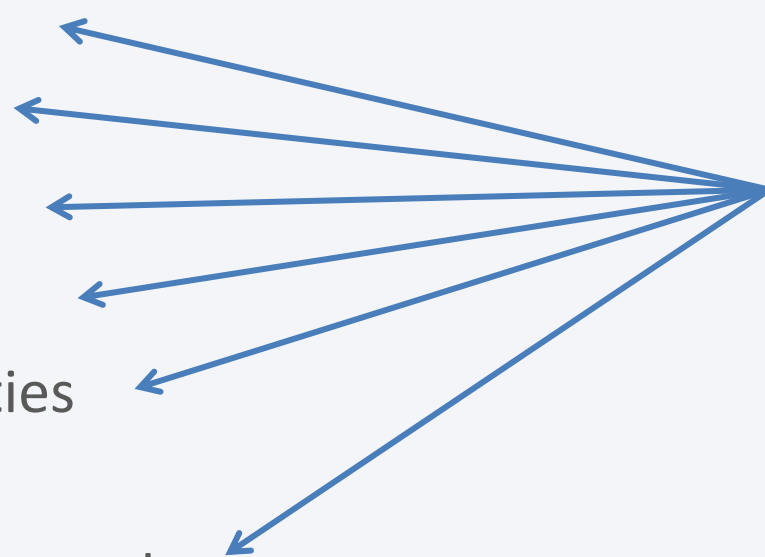
1. Quality Planning
2. Test Plan Definition
3. Design Tests
4. Develop or Select Test Tools
5. Validation
6. Prepare Test Session
7. Test Plan Execution
8. Test Management
9. Test Management Update





- Why?
- Objective
- Work to be done
- Risk planning
- Roles and responsibilities

- Checklist: How to adjust and localise the process description

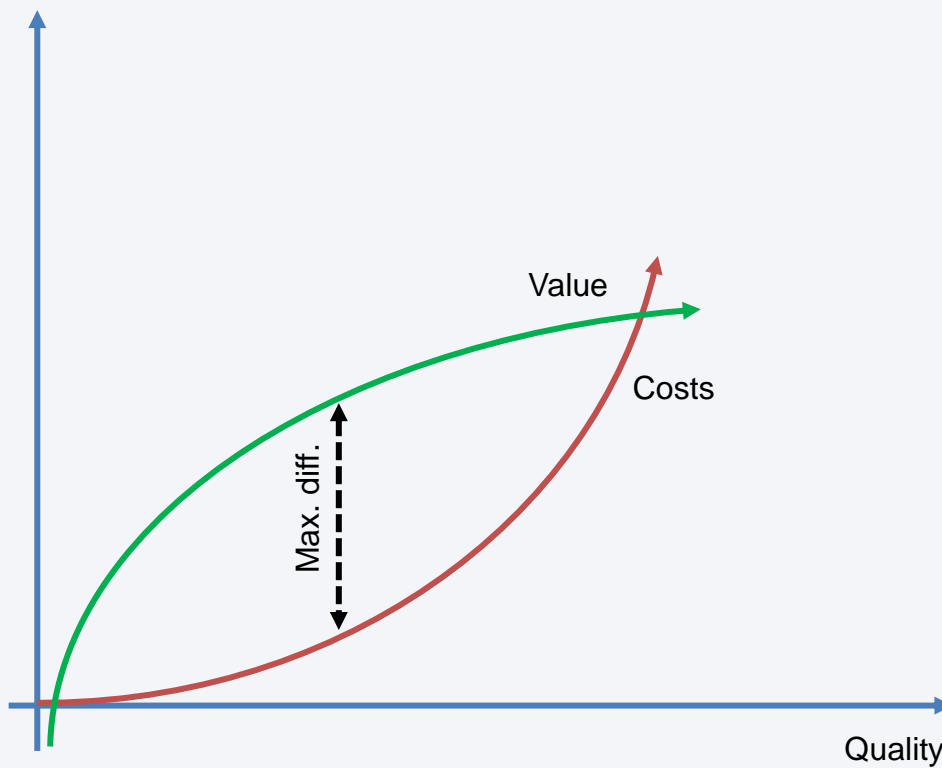




- IHE
 - Connectathon
- MedCom
 - Danish Health Care Network – mandatory test of vendor systems
- Region of South Denmark
 - Digital Highway for Telemedicin services

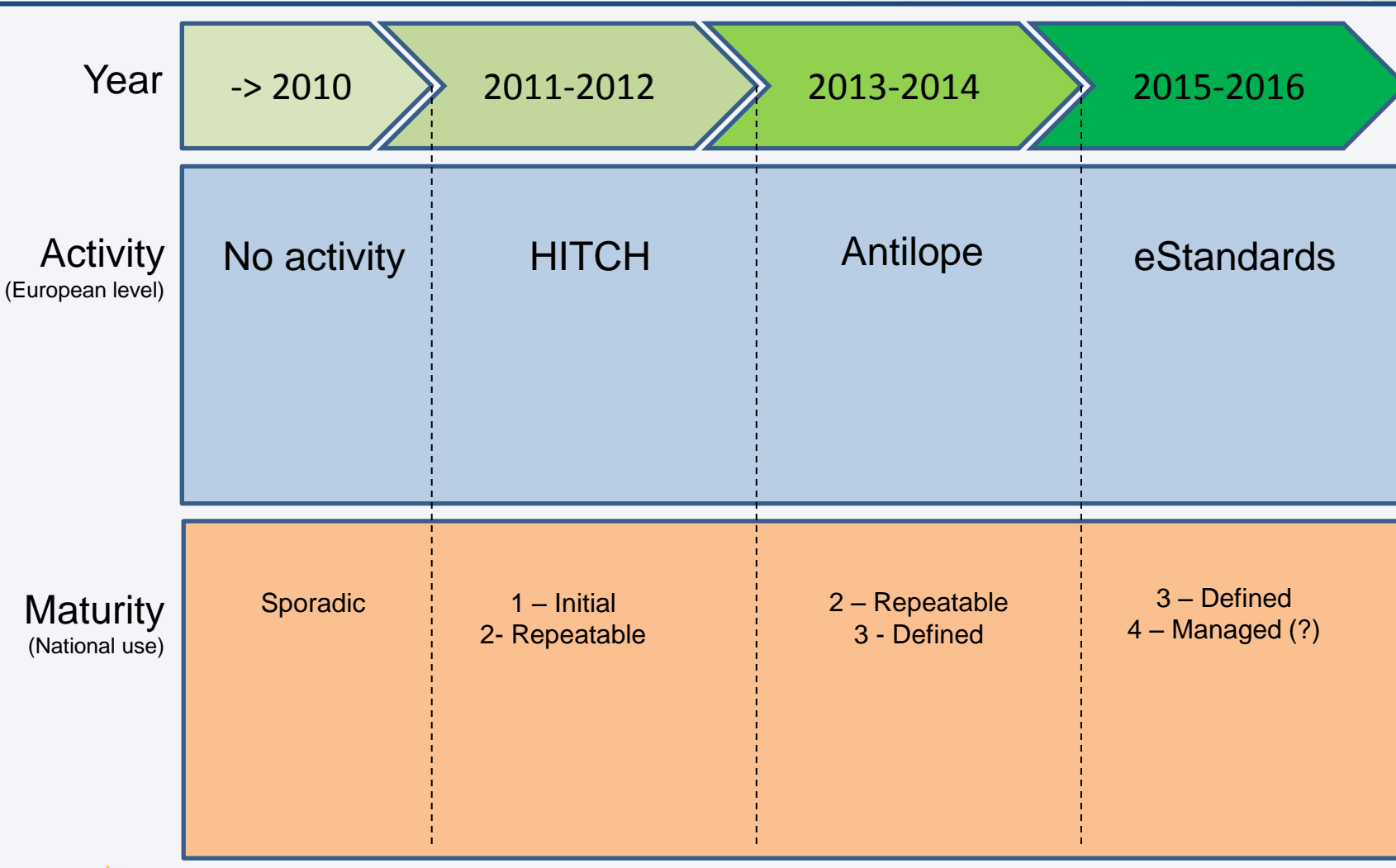


Value and costs
in Euro





Levels	Characteristics
<p>5 Optimized</p>	<p>Procedures and workflow are backed by IT systems</p>
<p>4 Managed</p>	<p>Procedures are followed. There are auditable controls</p>
<p>3 Defined</p>	<p>Procedures are created but not followed in many cases</p>
<p>2 Repeatable</p>	<p>There are similarities between activities in different organizations</p>
<p>1 Initial</p>	<p>Implementation and methods are depending on competencies</p>
<p>0 Not existing</p>	<p>There are no identifiable activities</p>





- Quality Management System for Interoperability Testing
 - Is based on “good practice” for Interoperability Testing
 - Is compliant with selected IEEE and ISO standards
 - Is very welcome
 - Is validated by 10 summits and experts (including SDO’s)
 - Is already in use sporadic in some sites
 - Is agreed to be adopted by more sites
 - Will be further improved (eStandards project)