

PICTURE - How to develop a successful ICT investment strategy

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PICTURE at a glance



PICTURE: An instrument that supports successful ICT investment strategies for European Public Administrations

- ► STREP project, funded by European Commission under FP6
- **▶** Duration: 3 years
- ► Start: February 2006

Partners:









Why PICTURE?



- ► Introduction of ICT in Public Administrations (PA) offers large potential to <u>reorganize</u> and <u>improve</u> back-office processes
 - Supports high quality service delivery to citizens and businesses

However:

- ► Current focus of PAs: improvement of single processes
- ► Potential impact of ICT on overall "Process Landscape" cannot be measured

As a result:

- ► It is a challenge to justify large ICT investments toward the political leadership and the public
- **▶** Decision makers hesitate to invest in ICTs

How does PICTURE address this challenge?



PICTURE objectives





PICTURE aims to:

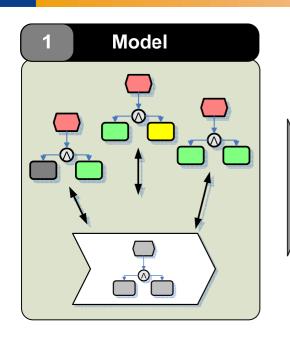
- develop, validate, and disseminate a web-based tool that
- ▶ enables an efficient measurement of ICT impact on the overall process landscape of PAs,
- ▶ providing key information for the development of a sound ICT investment strategy

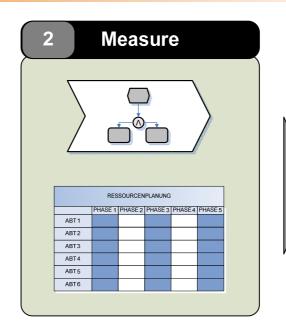


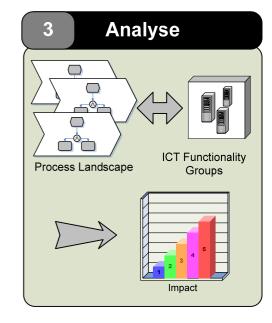
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How will PICTURE work?









Step 1- Model:

PA staff model all core administrational processes using predefined process building blocks

Outcome: modelled process landscape



Step 2 - Measure:

PA chief information officer measures impact of ICT components on the process landscape

Outcome: qualitative & quantitative impact data ICTs on the process landscape

Step 3 - Analyse:

PA decision makers analyse the results and derive appropriate ICT investment decisions

Outcome: assessment of impact measurement (performed by PA)

Modelling PA processes



- ► PICTURE enables the PA to model its processes using predefined Process Building Blocks (PBBs)
- ▶ PBBs describe the activities a user performs in a process, noncontext specific.
- ► Processes consist of re-occurring Process Building Blocks
- Each PBB has process attributes:
 - ◆ That capture information needed for the impact measurement

Receive Start a Check Assign Send (e.g. (e.g. form) record signature responsibility document)

Attributes: source, channel, medium, target, need for signature, ...

Attributes: retention period, method, taxonomy, ...

Attributes: electronically, personally, ...

Attributes: automatic, manual, target, ...

Attributes: source, channel, confidentiality,

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ICT Components



- ► PICTURE focuses on basic ICT systems (non-vendor specific) that support back-office administrational processes
- ► Basic ICT components support particular types of activities that occur in many back-office processes
- **►** Examples of Basic ICT components:
 - ♦ Workflow management, document management, digital archive, eSignature, web content management
- ► No broad diffusion of ICTs in Public Administrations so far according to survey carried out within project
- ► Each ICT component has a number of functionalities, which are grouped according to similarities.



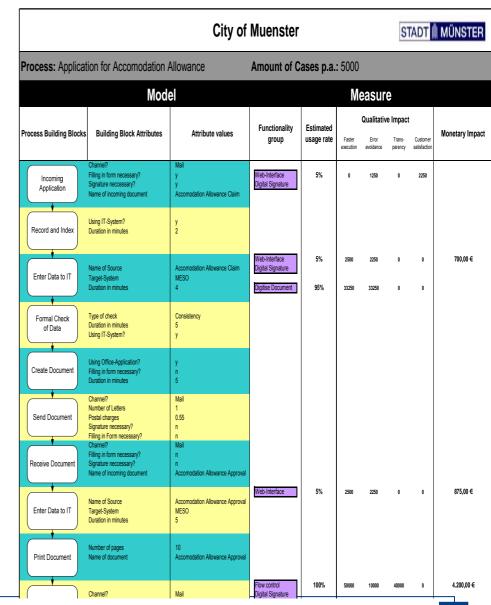


Measuring ICT impact



The PICTURE Impact Measurement Methodology will:

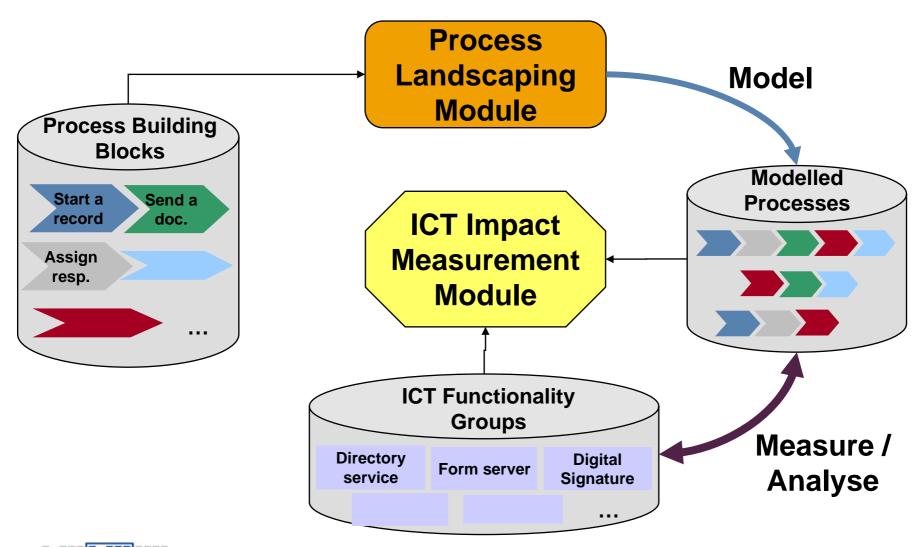
- enable PAs to map ICT components (e.g. document management) to their processes. The PA will know which ICTs can support a process and in what way.
- ► measure the impact of ICTs on PA processes, in a qualitative, quantitative and monetary dimension e.g.
 - ◆ time savings
 - cost savings (paper handling costs)
 - # errors eliminated / reduced
 - # manual steps that are eliminated
- ▶ identify areas of process reorganisation through the introduction of ICTs (based on similar patterns of ICTs and their impact on process building blocks).





The PICTURE Tool



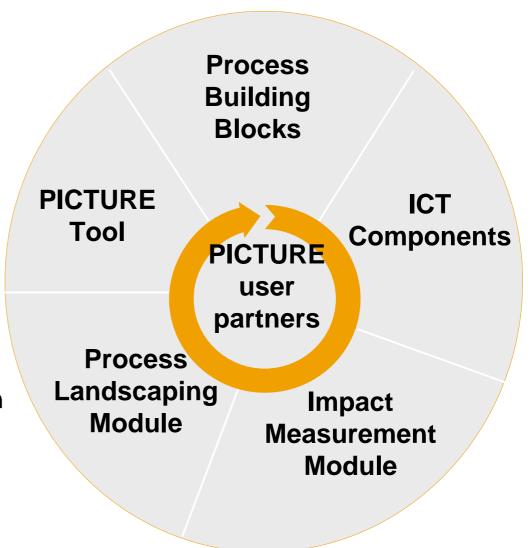




Evaluation of PICTURE



- ► PICTURE tool elements and methodologies and are evaluated iteratively by the 5 user partners (PAs) throughout the project lifecycle
- ► PAs outside the PICTURE consortium are also contributing to the evaluation (with NDAs)





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Project Timeline



Phase I (Q3 & Q4 / 2006)

Phase II (Q4/2006 – Q4/2007) Phase III (Q4/2007 – Q1 2009)

- ► Definition and evaluation of Process Building Blocks and ICT Functionality Groups (completed)
- ► Mapping of ICTs to Process Building Blocks (in progress)
- ► Development of ICT Impact Measurement Methodology (in progress)
- ► Development of Process Landscaping Methodology

- ► Development and evaluation of the PICTURE tool
- ► PICTURE Exploitation Plan and broad dissemination



Summary



- ► PICTURE makes ICT impact on back-office processes measurable
 - **♦**Supports process reorganization
- Supports decision makers to justify ICT investment decisions
 - ♦Highest impact achieved by combination of basic ICT components
 - ◆Improved service quality and efficiency
- **▶** Contributes to good practice exchange
 - **♦**Supports collection and consolidation of processes across European Public Administration
 - **♦**Supports grouping of ICTs from a vendor-independent perspective







Thank you for your attention

For more information on PICTURE please visit:

http://www.picture-eu.org

