

# IT-audits according to COBIT

**Experiences of the Regional Audit Court of Upper Austria** 



# **Regional Audit Court of Upper Austria**

- Regional Audit Court is responsible for the audit of
  - IT-organisations within the Administration of Upper Austria and of associated companies
  - Computer centres
- So far the Regional Audit Court has audited the IT of the Administration of Upper Austria including one big computer centre two times using the COBIT model (2001/2002 und 2008/2009)

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# IT - Department

- Tasks
  - development, IT-Strategy and IT-Standards
  - procurement, provision and operation of the IT-infrastructure
  - data security
  - software development and -servicing
  - IT-training and consulting
- IT-expenses 2008: 24 Mio Euro
  - 9.5 Mio Euro personnel expenses
  - 14.5 Mio Euro tangible expenses
- App. 150 employees

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# **IT - Department**

Control Objectives for Information and related Technology
(Version 4 respectively 4.1)

- internationally acknowledged standard for the overall steering and control of the IT
  - developed by the Information Systems Audit and Control Association (ISACA)
- procedure for an overall check and assessment of the IT and its processes
- COBIT is a process-oriented model and therefore independent of the technology used or the branch

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# COBIT

## COBIT guarantees

- an overall assessment of the IT according to the requirements of a professional IT-System
- reliable application of the Information Technology
  - due to use of generally applicable IT-process-oriented control objectives and audit-tools
- fulfilment of IT-Governance Objectives
  - constant alignment of the IT with business objectives and processes
  - supporting the fulfilment of business objectives
  - responsible and lasting use of IT-resources
  - increasing the satisfaction of customers and associates
  - minimizing IT-risks

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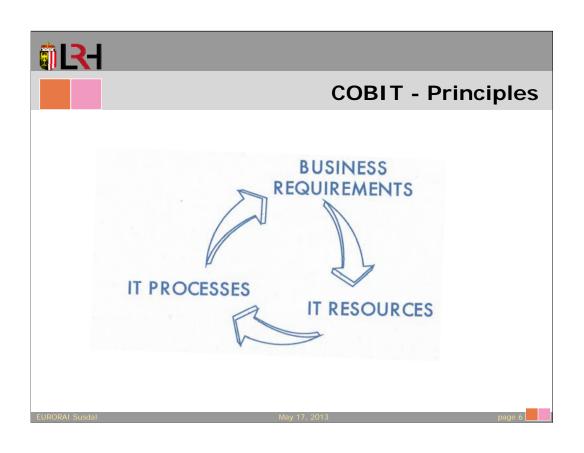
#### COBIT

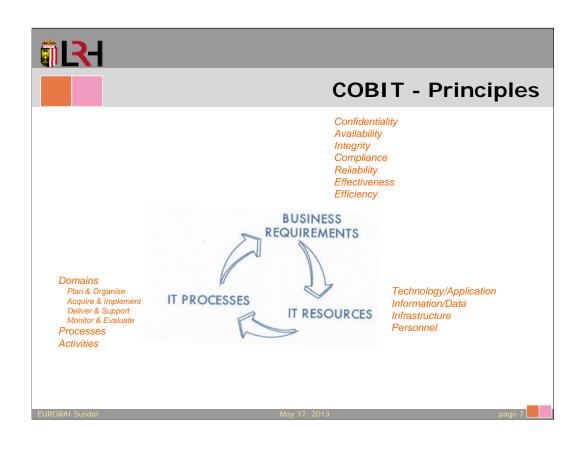
- COBIT is an internationally acknowledged standard for security, quality and compliance of Information Technology
- auditing is done by people who have acquired the competence within a special training by ISACA
- ISACA offers the following certifications:
  - CISA (Certified Information System Auditor)
  - CISM (Certified Information Security Manager)
  - CGEIT (Certified in the Governance of Enterprise IT)
  - CRISC (Certified in Risk and Information Systems Control)
- the process model COBIT 4 contains 4 domains with 34 ITprocesses; it can be broken down into 300 activities and controls

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# **COBIT Framework**

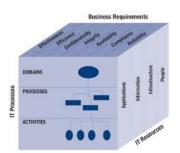
The structural design of COBIT is represented by the **COBIT Framework**. It contains **three central areas** which are essential for successful IT-Governance:

#### IT processes

**Business Requirements concerning IT** 

#### IT resources

and shows the various divisions (types, categories)



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## **COBIT Domains and Control Objectives**

#### domain = cluster of main processes of a company

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Plan and Organise (10 processes)

- compliance of company and IT-strategy
- optimal use of IT-resources in the company
- understanding within the organisation of the IT-objectives
- provision of the proper resources and the IT-environment
- assessment of the IT-risks

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Acquire and Implement (7 processes)

- budget and time management regarding new projects
- procurement and implementation
- support of business objectives
- functionality of Change Management
- risks of adjustment to new systems





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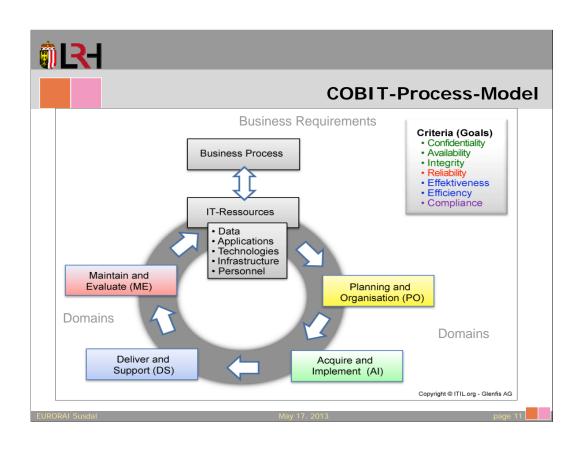
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# **COBIT Domains and Control Objectives**

- Deliver and Support (13 processes)
  - services delivered
  - optimization of IT-cost
  - productivity and security when using the system
    - security standards
    - user trainings
  - confidentiality, integrity and availability of data
- Monitor and Evaluate (4 processes)
  - control system in order to identify problems as soon as possible
  - effectiveness and efficiency of internal controls
  - link to business objectives
  - measuring and reporting of risks, controls and performance
  - auditing the compliance with legal requirements
    - guaranteeing compliance

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## **COBIT Results**

#### IT-Strategy

- missing overall strategy
- insufficient coordination with overall strategy of the Administration of Upper Austria
- unclear basic position (innovator or promoter of the established ways)
- unused synergies with other IT-organisations within the Administration of Upper Austria
- further emphasis on outcome-orientation
- no strategic controlling

#### Structures and Processes

- existence of double structures
- suboptimal process design
- incomplete process map
- inefficient process steering
- inadequate project management
- specific problems with the implementation of the electronic file

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# **COBIT Results**

#### IT – Technology

partly not up-to-date (specific recommendations for improvement)

#### Security

concrete security problems and appropriate recommendations for improvement

#### Service Quality

- customer survey was done
- better coordination of service quality and customer needs
- concrete recommendations for improvement concerning servicing and service desk
- response time partly too long

#### Personnel

wages are not up to market value

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