

Case exercise

Case Exercise

- **Target: Describe and analyse enterprise architecture, or selected part of enterprise architecture, in a case company (or other organization)**
- **It is recommended to use TOGAF enterprise architecture development and analyzing method, TOGAF ADM (Architecture Development Method).**
- Analyse whole enterprise architecture, or selected part (listed below) of enterprise architecture, in one case company
 - Business architecture
 - Information architecture
 - Systems/Applications architecture
 - Technical architecture
- You can also choose to analyse only few phases of architecture development instead of the whole development cycle
- Any of the application classification models can be used in analyzing the initial or target architectures

Suggested steps to proceed

- organize a group of 5 people
- organize the group => allocate tasks to each person
- find a case company/organization to be studied
- review The Open Group Architecture Framework (TOGAF) Version 8 material
- choose what you want to describe and analyze in the target organization's enterprise architecture, for instance:
 - The whole enterprise architecture or one or more elements of enterprise architecture (business architecture, information architecture, application architecture, technical architecture)
 - The development process of enterprise architecture in the case organization
 - You can also choose to analyse only few phases of architecture development instead of the whole development cycle
 - Any of the application classification models can be used in analyzing and describing the initial or target architectures

Suggested steps to proceed II

- **Mile stone 1 on lecture October 9th (max 1 page):**
 1. prepare to report what scope you have chosen
 2. describe the role of each person in the group
- describe the selected elements of enterprise architecture
- analyse the selected elements of enterprise architecture and/or the development process of these selected elements of enterprise architecture
- analyse the selected elements of enterprise architecture and/or the development process of these selected elements of enterprise architecture
- evaluate and comment the tools itself (e.g. TOGAF) which you used in describing the enterprise architecture
- Present results – in one hand each group acts as a presenter and in the other hand as an opponent

Expected results

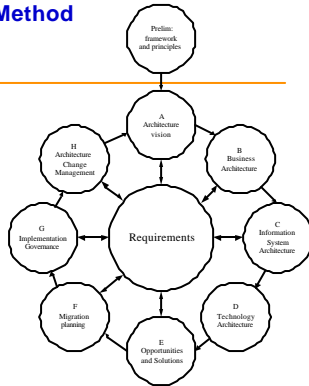
- **Written report (scope 5-10 pages) by November 1st**
- **Presentation of the report on lecture November 6th**
- **Written report should be delivered to the lecturers (e-mails below) and to the opponent group by November 1st**
- 1. Analysis of the selected part of the enterprise architecture or enterprise architecture development process in the case organization
- 2. Comments of used tools (e.g. TOGAF and/or chosen application classification model) in describing and in analyzing. Was the tool useful? Could it be enhanced? Pros and cons of the tool?
- **Exercise to be presented on November 6th**
 - 20 minutes presentation
 - 15 minutes opponent discussion
 - 10 minutes free discussion with the class

Examples of topics to be analyzed

- **Description of selected architecture elements and how those are integrated**
 - Business architecture
 - Information architecture
 - Systems/Applications architecture
 - ERP, CRM, payroll, warehouse management, reporting etc.
 - Technical architecture

- Stakeholder views in TOGAF are:
 - Users
 - System and Software Engineers
 - Operators, Administrators and Managers
 - Acquirers
- The architecture views to correspond with the above stakeholder views include (Open Group 2002):
 - Business Architecture Views
 - Data Architecture Views
 - Applications Architecture Views
 - Technology Architecture Views

TOGAF Architecture Development Method (ADM)



TOGAF Architecture Development Method (ADM)

- TOGAF's Architecture Development Method (ADM) is a cyclic and iterative method to support the enterprise architecture building process
- TOGAF Architecture Development Method (ADM) describes a step-by-step approach to develop an enterprise architecture
- ADM is a generic model and each organization should decide if they want to customize it for specific needs or exploit the generic model
- Developing an enterprise architecture with the ADM is an iterative process, which consist of eight stages

Phases of TOGAF Architecture Development Method (ADM) I

1. **Architecture Vision**
 - In the first phase the strategic business requirements are defined and relevant stakeholders identified. Also an architecture vision to meet these requirements is determined.
2. **Business Architecture**
 - In the second phase the current baseline business architecture is described and target business architecture developed
 - This phase is used to analyze the gaps between the baseline and the target business architectures.
3. **Information systems architecture**
 - The objective of the third phase is to develop target architectures
 - Information architecture
 - Define the major types and sources of data necessary to support the business, but this does not mean database design or the design of any logical or physical storage systems
 - Applications architecture
 - Define what major applications are required to process the data and support the business

Phases of TOGAF Architecture Development Method (ADM) II

4. **Technical architecture**
 - This phase consists of eight sub-phases: create baseline, consider different views, create architectural model, select services portfolio, confirm business objectives are met by architecture model, determine criteria for specifications, define architecture completely and conduct gap-analysis (Morganwalp 2003)
5. **Opportunities and solutions**
 - Identifies the strategic change and the top-level projects to be undertaken in moving from the current environment to the target architecture
6. **Migration planning**
 - developing the various project plans for projects, which have to be implemented. This phase is also for prioritizing these plans.
7. **Implementation governance**
 - to formulate recommendations and plans for each implementation project and then implement and deploy the systems
8. **Architecture Change Management**
 - includes creating a maintenance procedure for the new baseline that has been implemented in the previous phase

TOGAF Architecture Development Method (ADM)

- More detailed description of TOGAF's Development Method is provided in TOGAF version 8 as attached
