



**ANNEX 27**

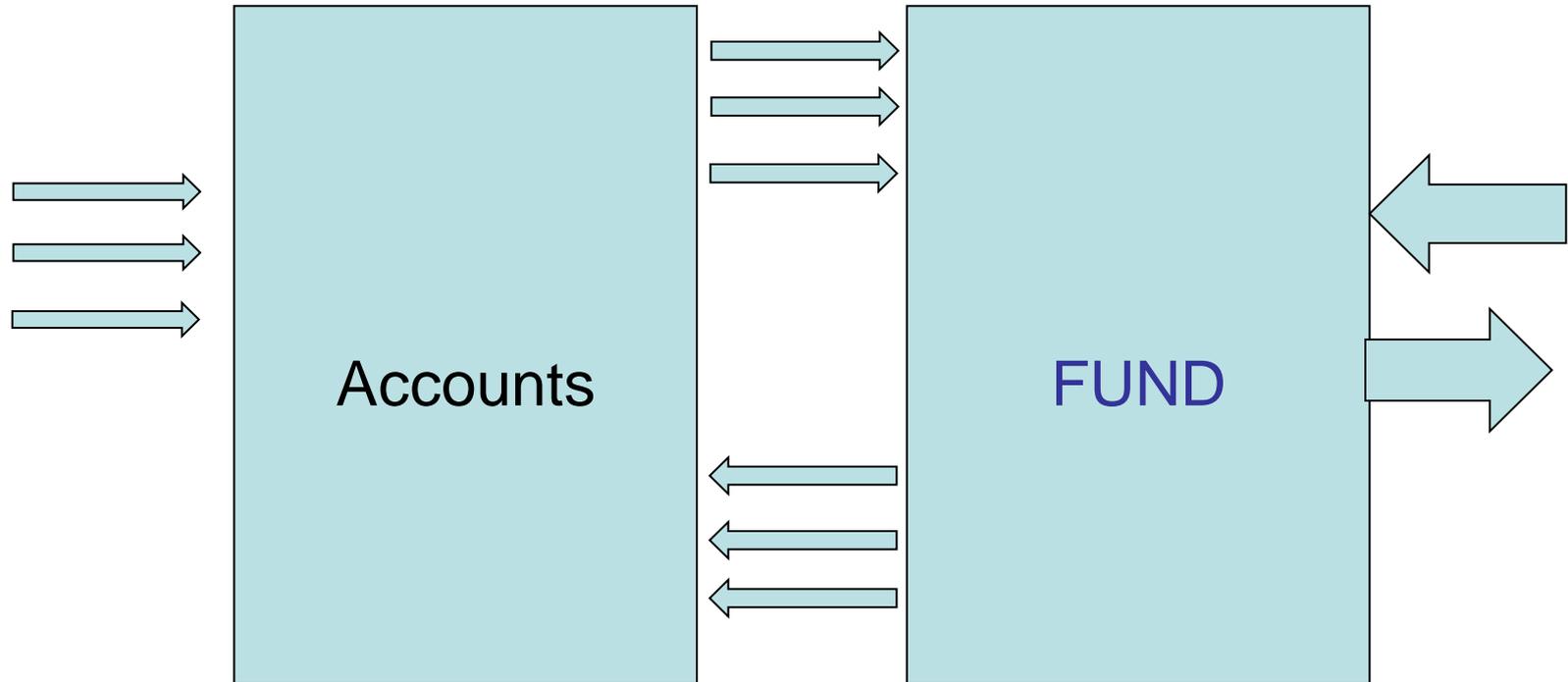
**Annex1 of Annex 3**  
***Twinning Project AZ/13/ENP/SO/24***

**Valdis Supe**  
Expert

**The principle of IT system development  
for 2 pension level**

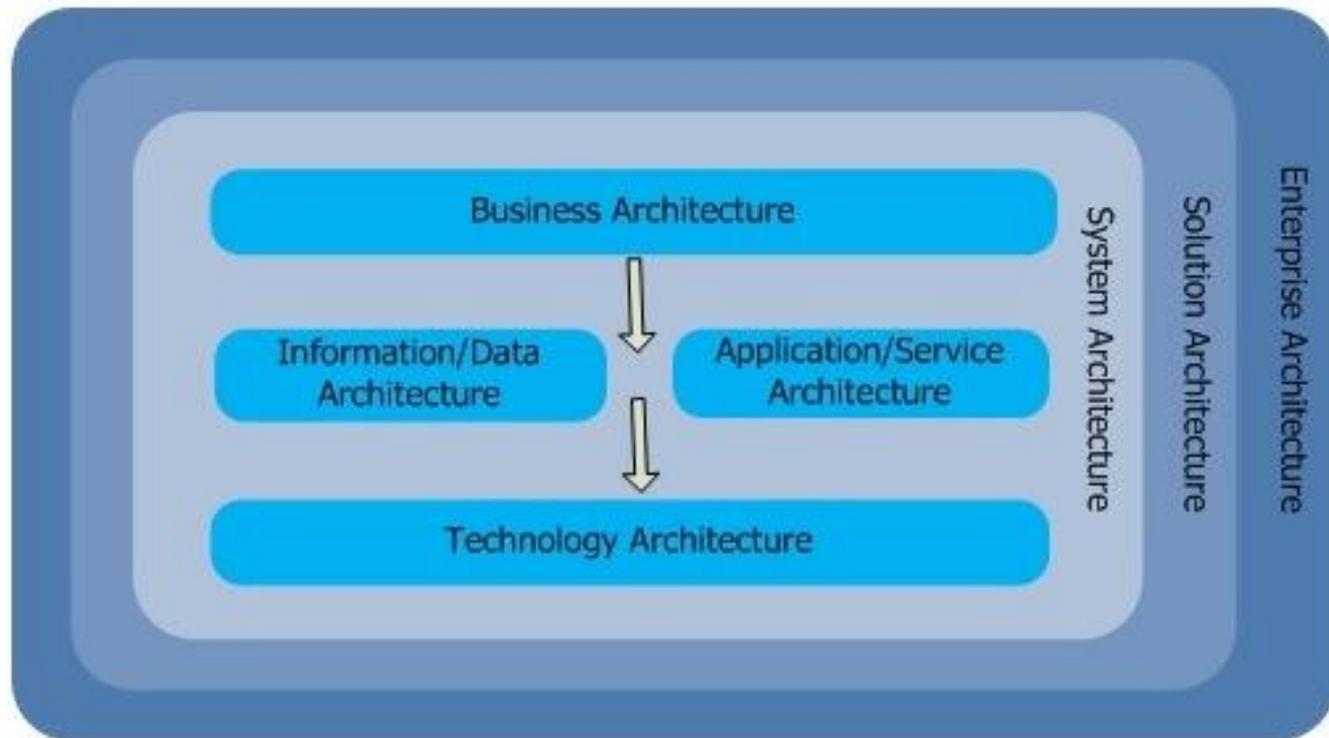
The 17th of June, 2015

It looks like a simple process,  
but...



You are designing a system for  
30 years (minimum) -  
most important are  
IS architecture and Data model

# IT architecture



# Identifying Common IT Architecture Tasks

- **Eliminate resource silos**
- **Identify data requirements**
- **Identify and integrate existing resources**
- **Define technical standards**
- **Identify security requirements**
- **Justify changes**

# Standardizing Technology

- **User workstation environments**
- **Software development**
- **Database management systems**

# Consolidating and Centralizing Technology Resources

- **IT personnel**
- **Servers**
- **File storage**
- **Directory services**
- **Network**

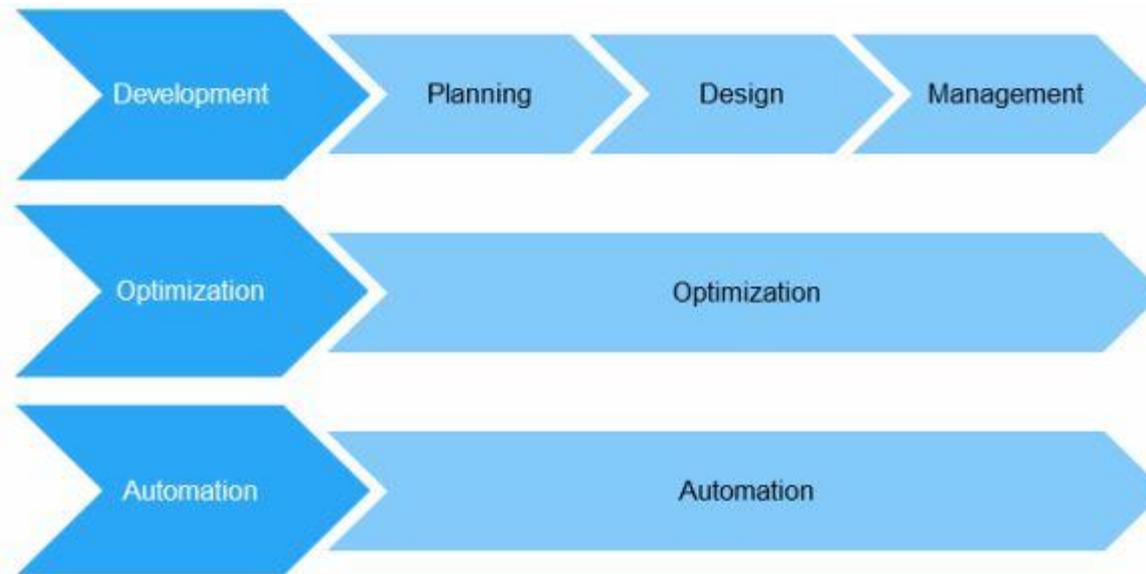
# Collaborating Across the Enterprise

- **Social networking**
- **Groupware**
- **Enterprise portal**

# Automating System Maintenance

- **Operating system patches/updates.**
- **Application updates**
- **Anti-malware updates and scans**

# Development life cycle



# Data model

Feature	Conceptual	Logical	Physical
Entity Names	✓	✓	
Entity Relationships	✓	✓	
Attributes		✓	
Primary Keys		✓	✓
Foreign Keys		✓	✓
Table Names			✓
Column Names			✓
Column Data Types			✓

You must think about ...

# System migration process

- Technical aspects
- Documentation

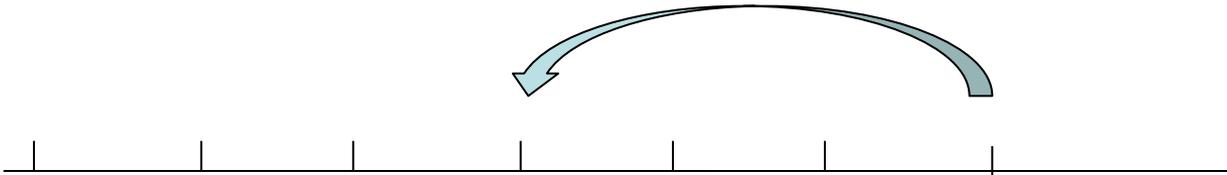
# Data processing Processes

The data      is stored  
                  is used in calculations  
                  is stored in archive  
                  is deleted

# You work with 2 Flows

Data flow (can be edited)

Cash flow (cannot be edited)



# Many variables

Salaries

Taxes

Funds/banks

Investment plans

Profit

Money

Law



# Question



Gesellschaft für  
Versicherungswissenschaft  
und -gestaltung e.V.

