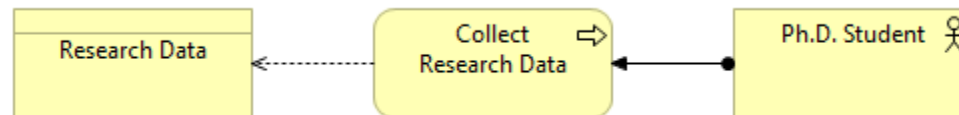


DM Forum activity "Data Management by Design" Workshop 1

Business Architecture in relation to Research Data Archiving

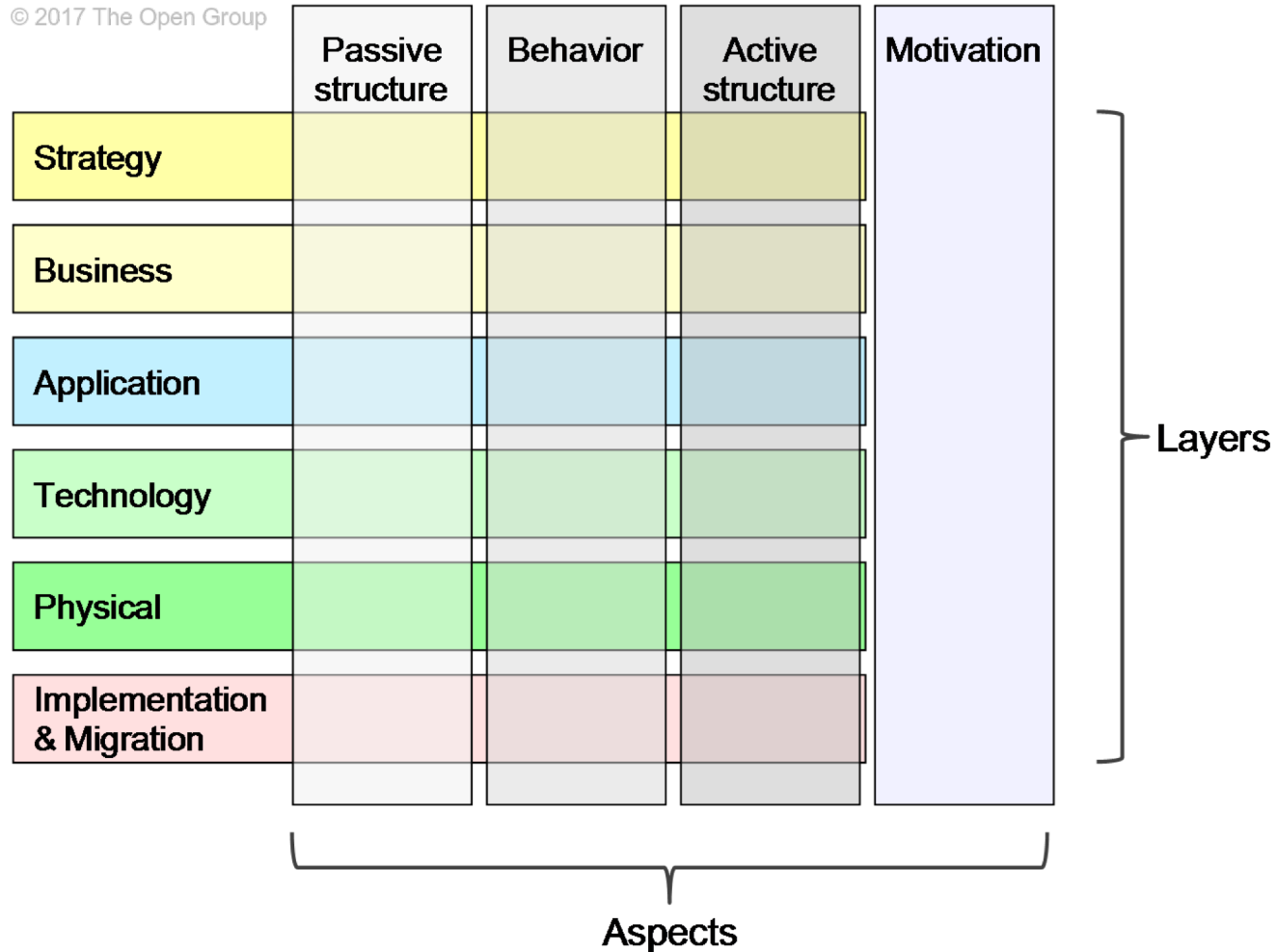
Why model architecture?

- Using a model to describe our business makes the descriptions concrete
 - You can agree or disagree with a particular part of a model
- An architectural model can help us reach a common understanding



The ArchiMate framework

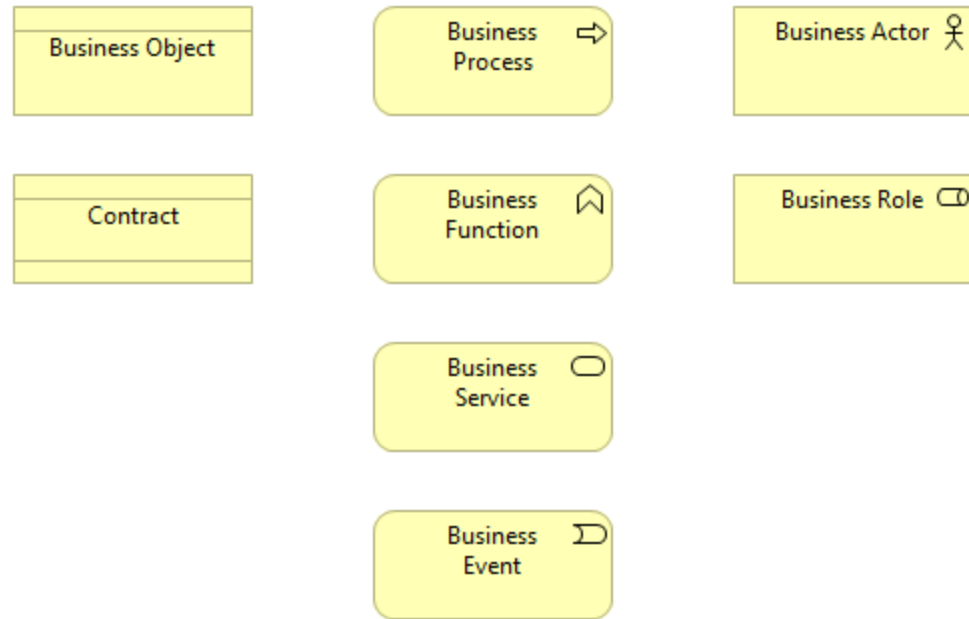
© 2017 The Open Group



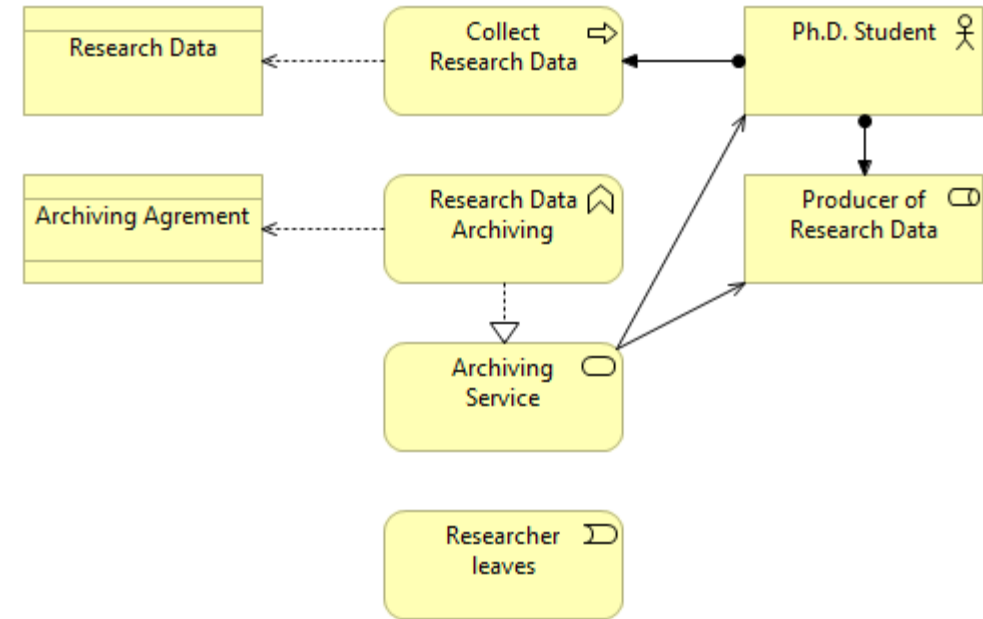
Today we only use a subset of ArchiMate

- Business layer – to model what a university is and does
 - Application layer – to sketch the IT systems we use
 - Motivation – to model the reasoning that drives requirements
 - Strategy – to explain how we intent to get there
-
- All of this in the context of archiving research data at a university

Business layer subset

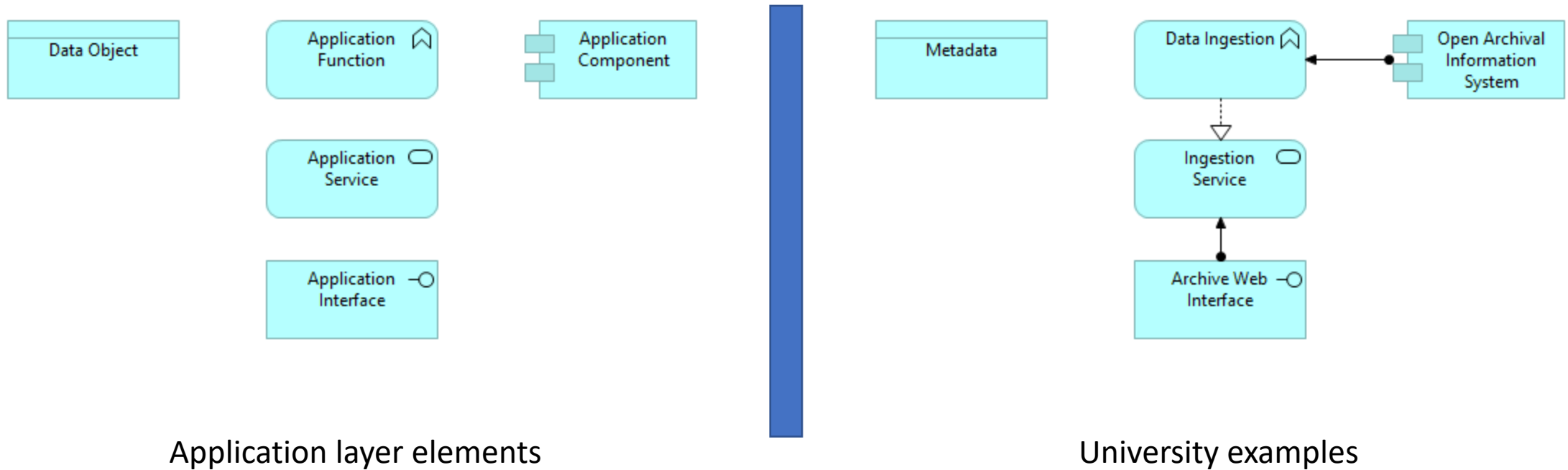


Business layer elements

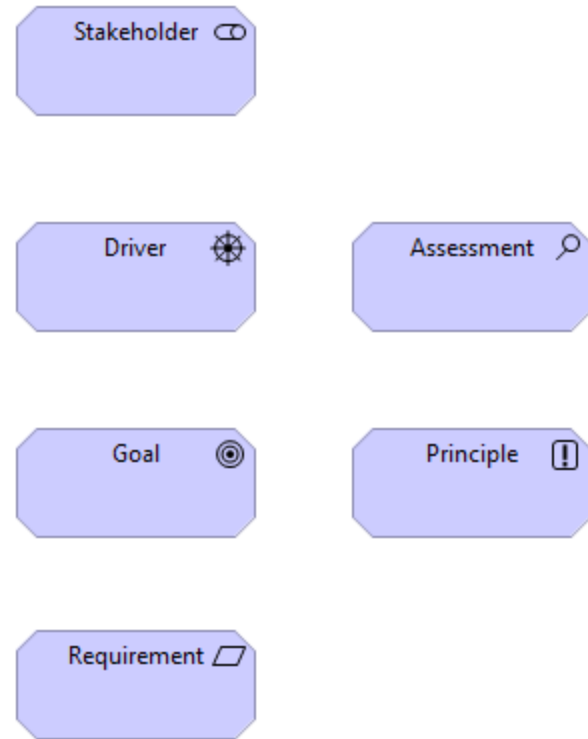


University examples

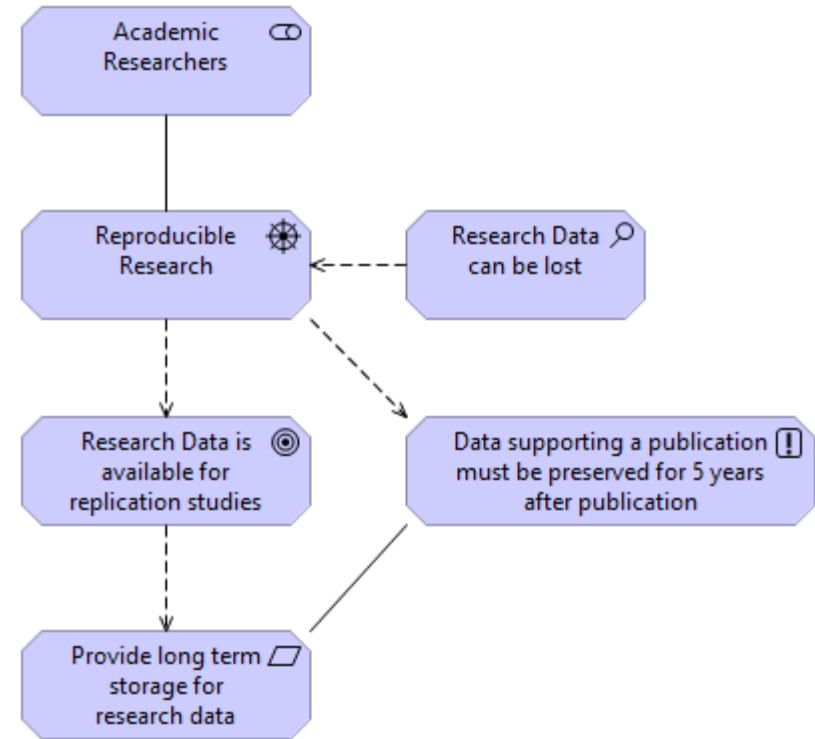
Application layer subset



Motivation subset





Motivation elements



University examples


Strategy subset


Capability 

Course of Action 

Strategy elements



Data Management 

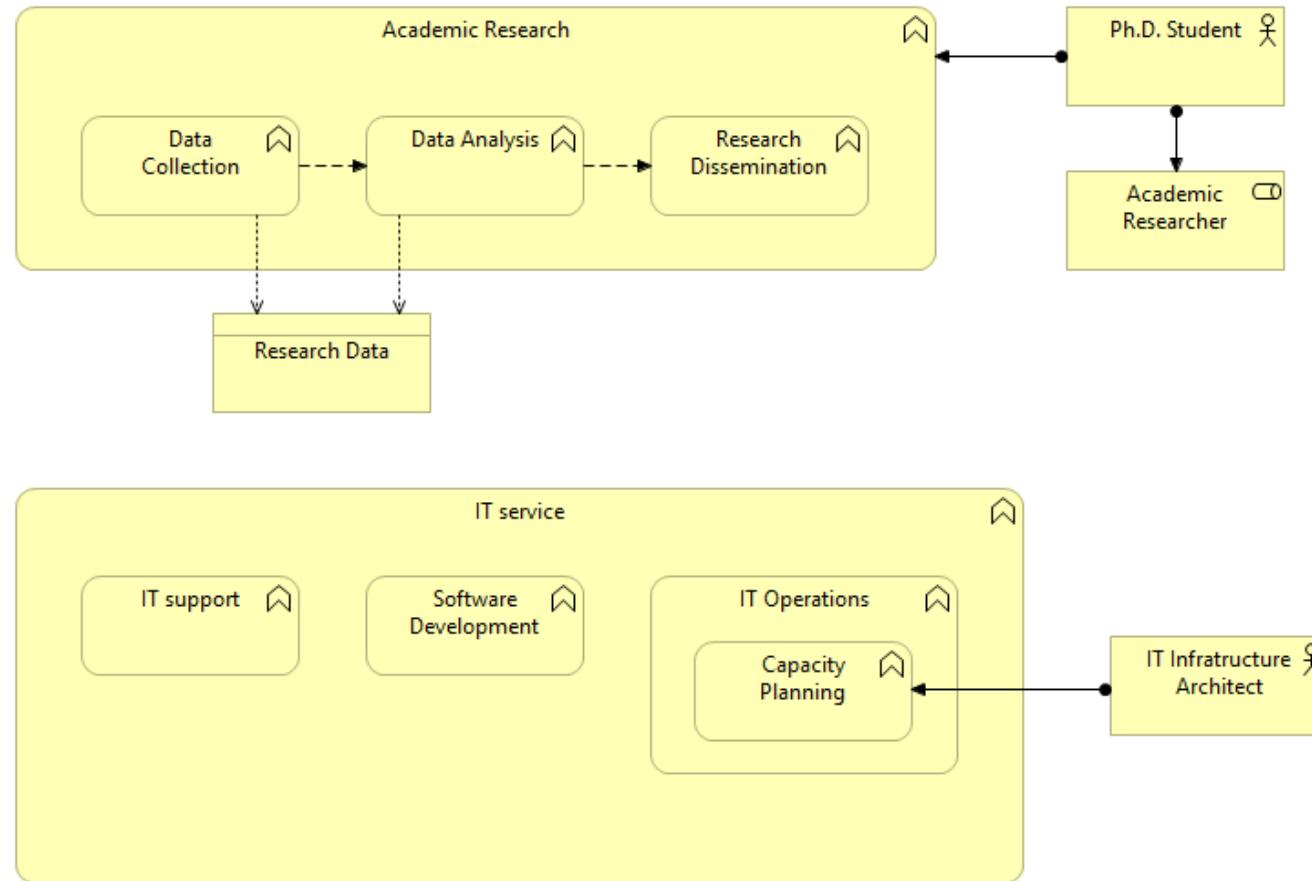
Implement
Managed Archiving
of Research Data 

University examples

Basics of Business Architecture Modeling

- What we do -- function
- How we do it -- process
- Business functions will tend to be similar across a sector
- Business processes will tend to differ among businesses in the sector
- If we do something for somebody it is a service

Business functions, actors, and objects are mostly universal



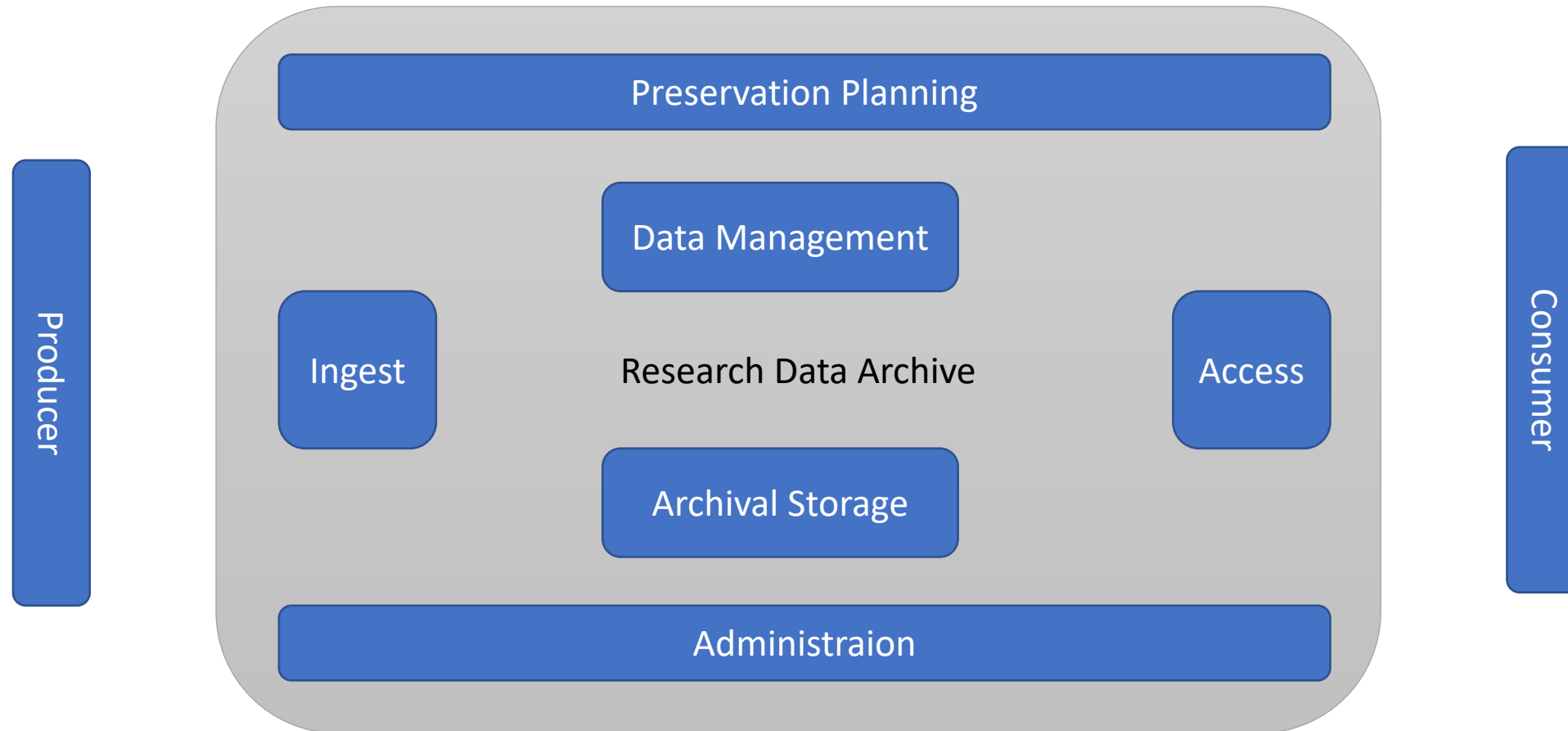
Open Source ArchiMate Modelling Tool



Archi

Research Data Archive

Open Archival Information System ISO-OAIS ISO-STD 14721



Scope of the workshop

- The business context of a research data archive at a university
 - Requirements and the motivation behind them
 - Interaction with other business functions and the motivation behind them
- The rights and obligations surrounding it
 - What rights must it secure to function and from whom?
 - What obligations must fulfil to provide value and why?
- Its interactions with the rest of the university
 - With which business entities should it interact and why?
 - Identify the stake holders, their goals and resulting requirements

Workshop part 1 - Contract

- The Research Data Archive Contract is an agreement that specifies the rights and obligations of the Research Data Archive
 - Right to re-assign or assume control of the data
 - Obligation to control the data
 - Right to store the data
 - Obligation to store the data
 - Right to make the data available for a purpose
 - Obligation to make the data available for a purpose
 - Right to delete the data
 - Obligation to delete the data
 - ...

Workshop part 2 - Governance

- With which business functions should the research data archive interact and why?
- Identify stake holders, their goals and requirements