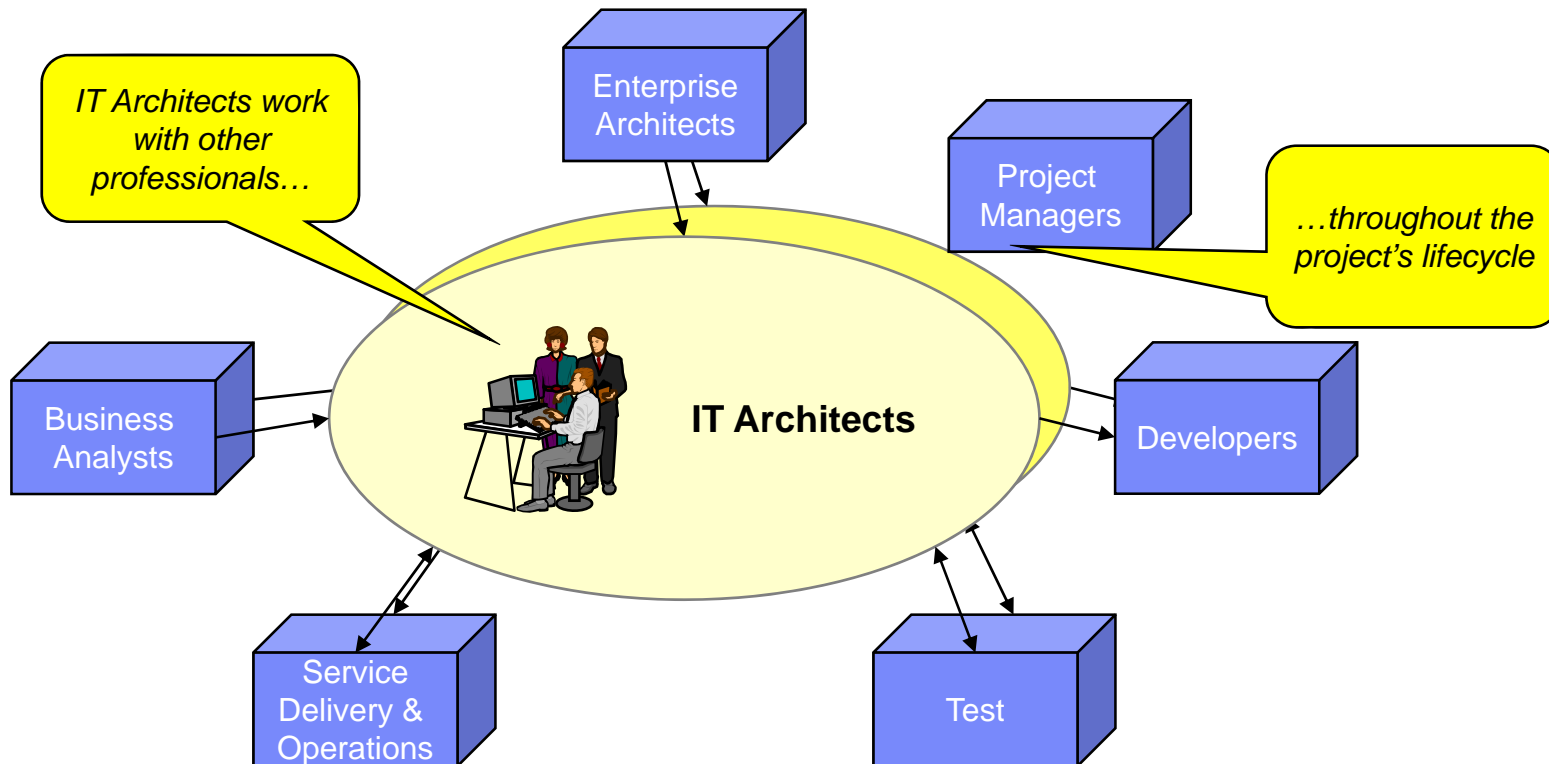


Architects working together with other IT and business professionals

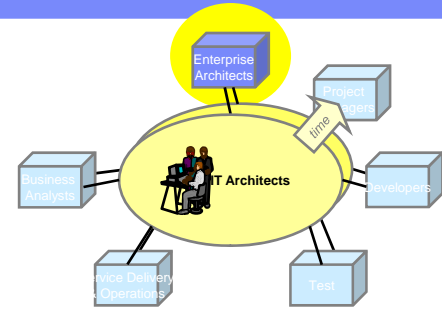
Dr. Marcel Schlatter
IBM Distinguished Engineer
Member of the IBM Academy of Technology
marcel.schlatter@ch.ibm.com

A significant aspect of a successful IT project is close co-operation between professionals within and across all parts of the business and IT organisation, across the full lifecycle of the project

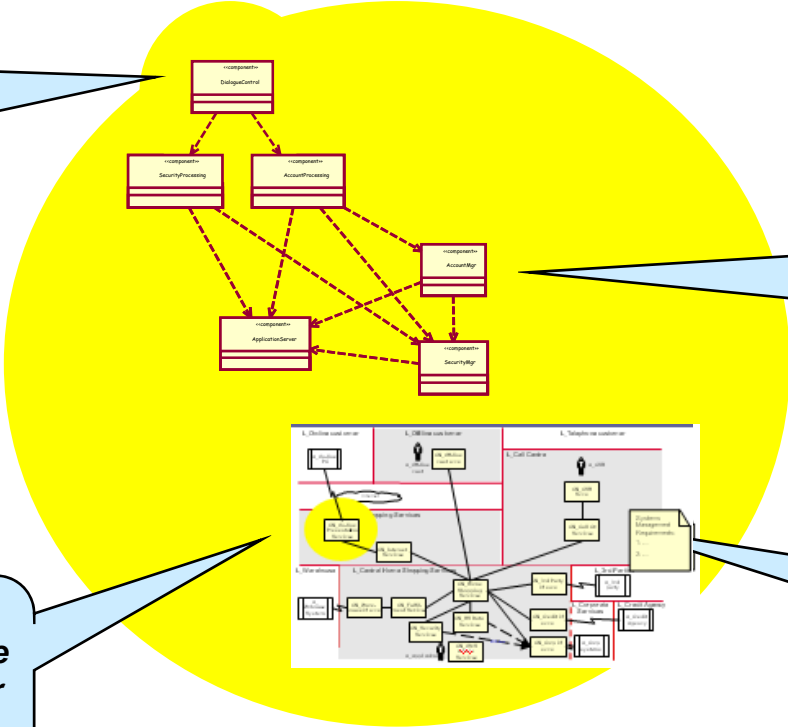


Let's discuss each of these relationships in turn, before commenting a little more on the IT Architect's role...

IT Architects work closely with Enterprise Architects, to ensure they exploit IT in a “joined up way” across the enterprise



“This is the way we want to construct our components”



“This is the way we want to construct our IT solutions”

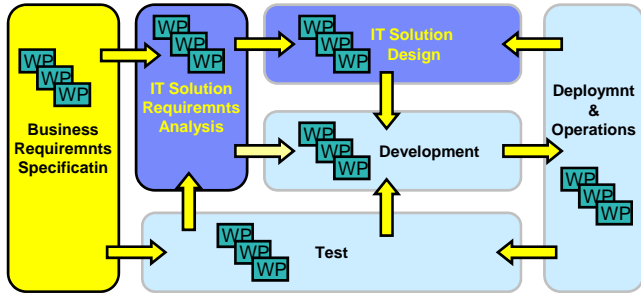
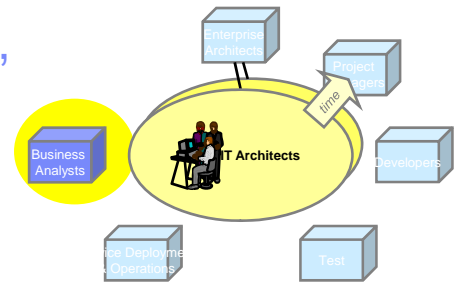
“This is the way we want to deploy our components”

“This is the way we want to deploy our IT solutions”

IT solutions built according to Reference Architectures...

...that are themselves constructed from standard components

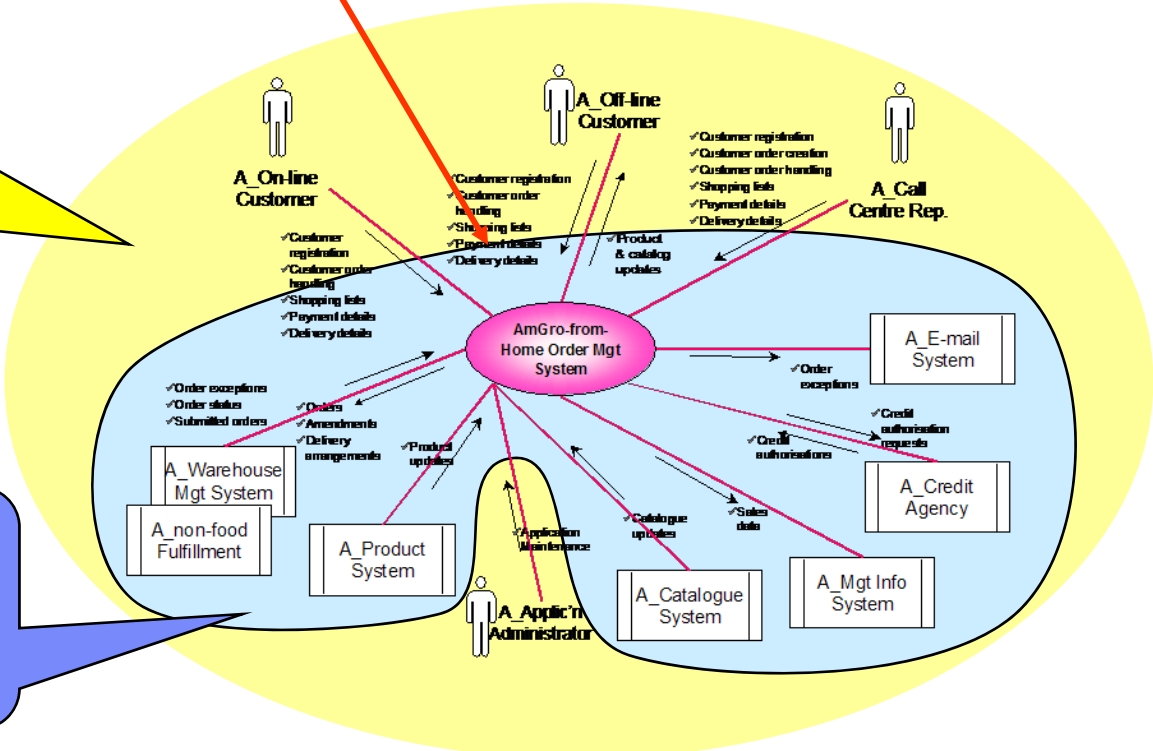
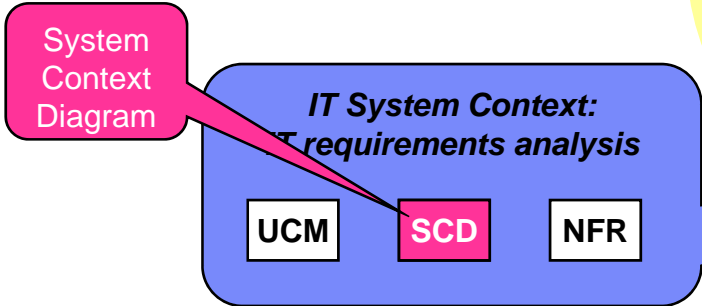
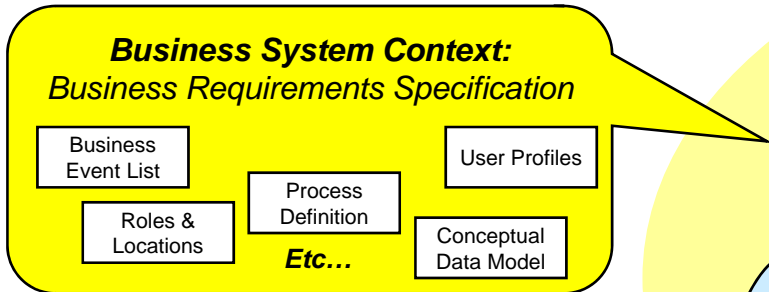
IT Architects work in close co-operation with Business Analysts, ensuring the viability of the automated aspects of the business's requirements



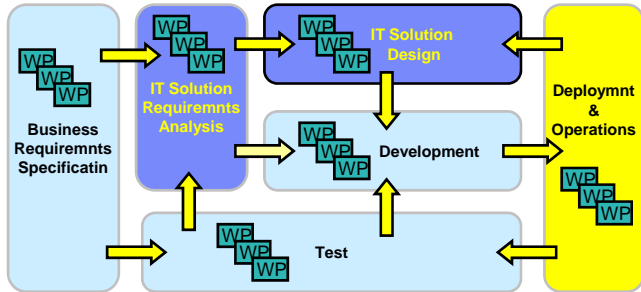
Crucial: Business Analysts and IT Architects work together to define the "automation boundary"

Business Analyst: specifies requirements

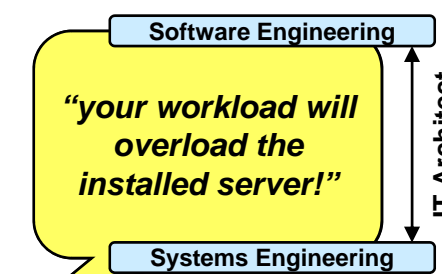
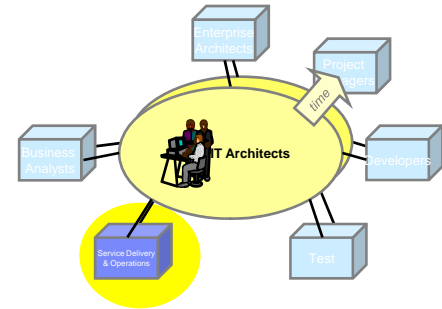
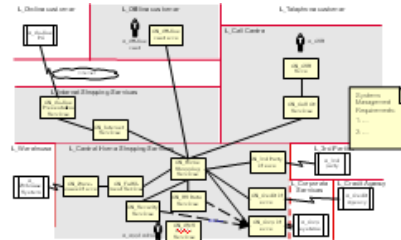
IT Architect: analyzes requirements



IT Architects must be confident that their designs can be deployed, and can be operated within the existing (or target) delivery environment (→ **Service Delivery and Operations**)

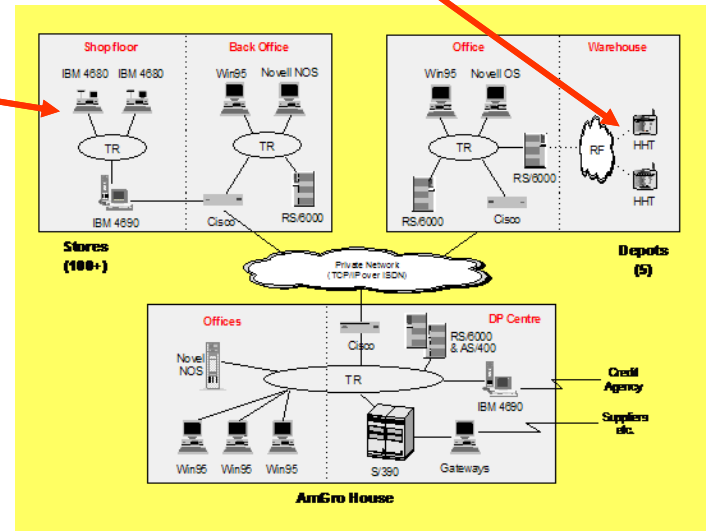
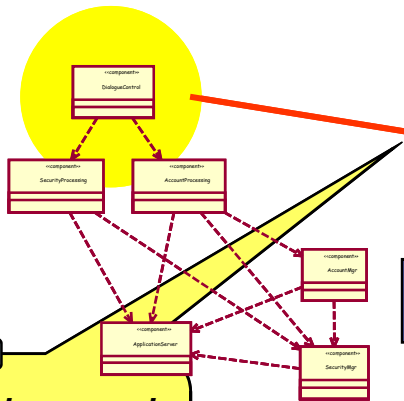


Operational Model

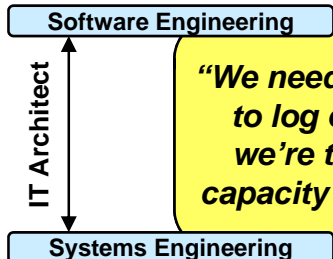


Service Delivery...
...and Operations

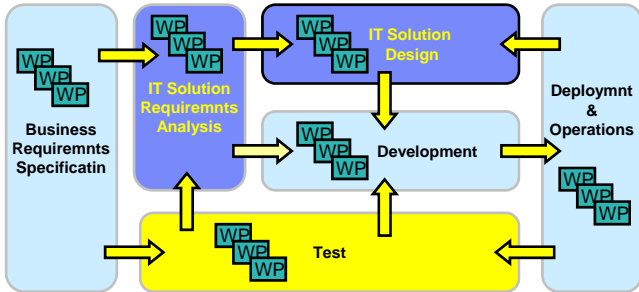
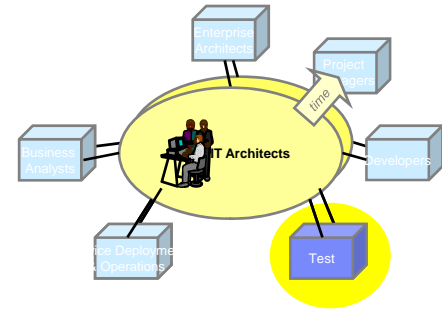
Component Model



Current IT Environment

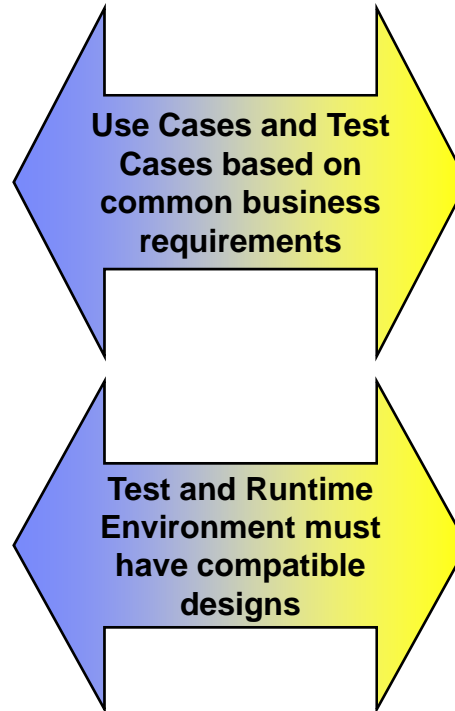


IT Architects work closely with those responsible for testing the IT System's functional (and non functional) capabilities



Two way street !

Item	Type	Unit	Quantity	Priority	Comments
DL1	Admin	Summary	1	High	Review
DL2	Admin	Workflow	1	High	Review
DL3	Admin	Workflow	1	High	Review
DL4	Admin	Workflow	1	High	Review
DL5	Admin	Workflow	1	High	Review
DL6	Admin	Workflow	1	High	Review
DL7	Admin	Workflow	1	High	Review
DL8	Admin	Workflow	1	High	Review
DL9	Admin	Workflow	1	High	Review
DL10	Admin	Workflow	1	High	Review



Test Cases

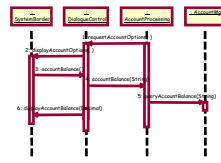
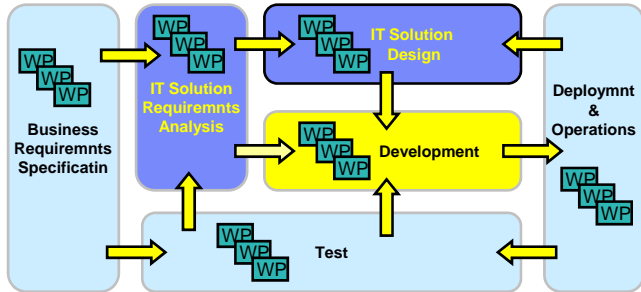
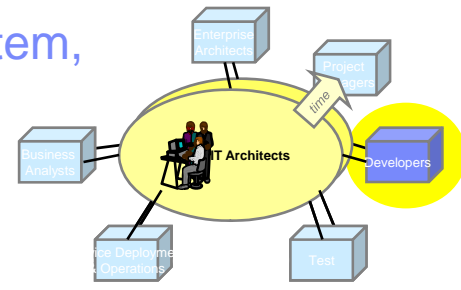


Test Strategies



Test Environments

IT Architects provide the “structure and form” of a complex IT system, enabling **developers** to concentrate on the specification and development of the solution’s **parts**

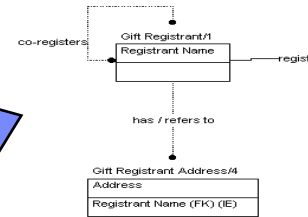


Interaction Diagram (Detailed Design)



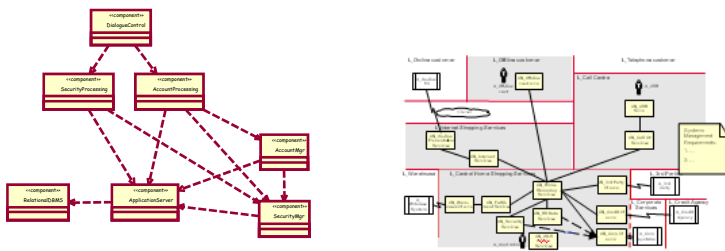
Code Specifications

Code



Logical Data Model

Data base



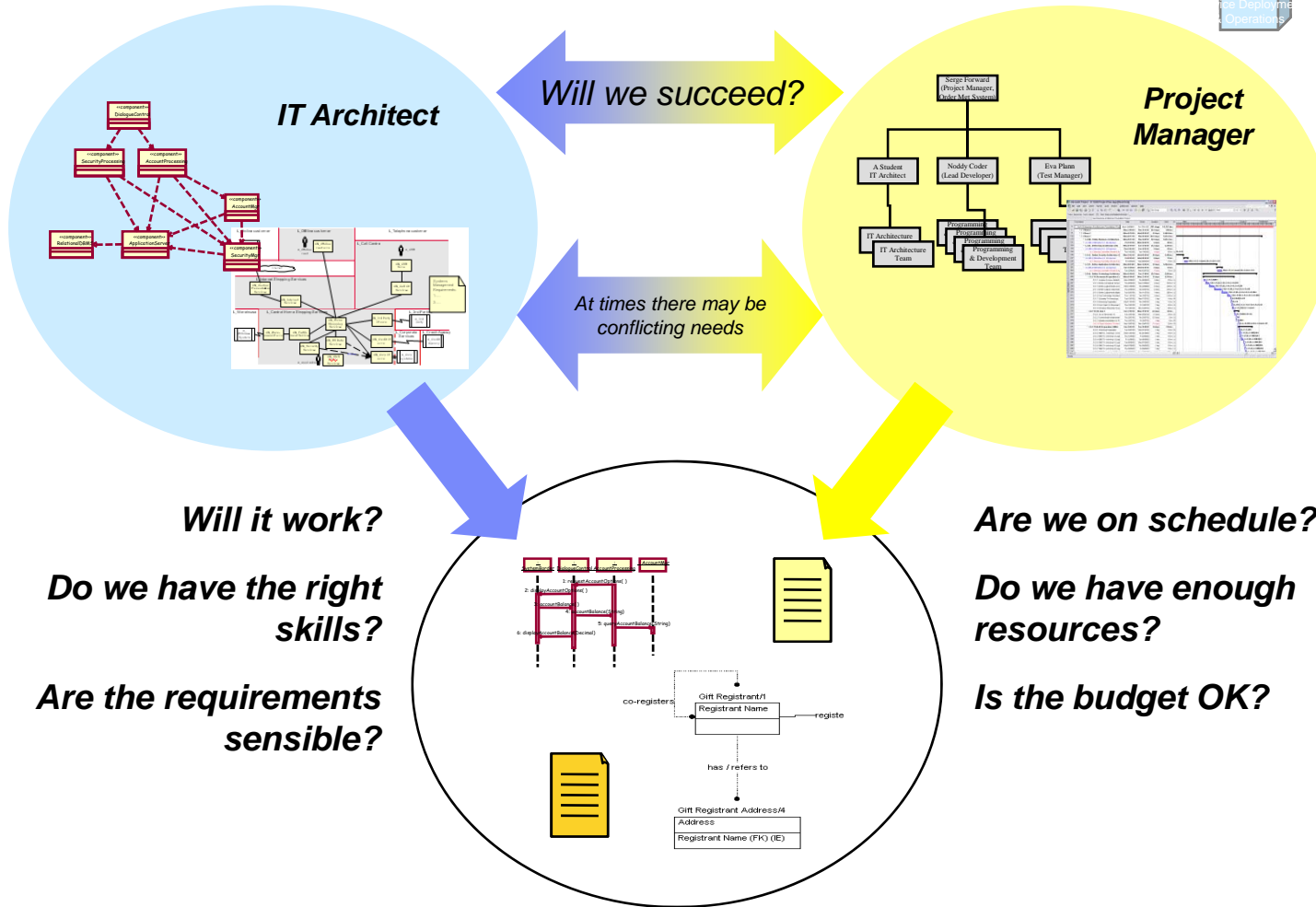
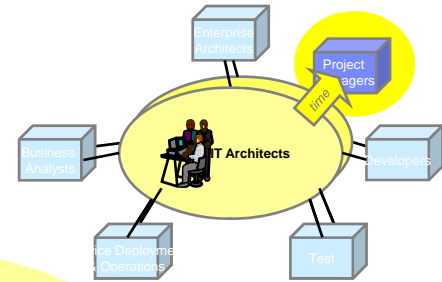
Item	Type	Unit Size	Number	Volatility	Currency
DL1	Asset	Share	100,000,000	Fixed	USD
DL2	Asset	Share	100,000,000	Fixed	USD
DL3	Asset	Share	100,000,000	Fixed	USD
DL4	Asset	Share	100,000,000	Fixed	USD
DL5	Asset	Share	100,000,000	Fixed	USD
DL6	Asset	Share	100,000,000	Fixed	USD
DL7	Asset	Share	100,000,000	Fixed	USD
DL8	Asset	Share	100,000,000	Fixed	USD
DL9	Asset	Share	100,000,000	Fixed	USD
DL10	Asset	Share	100,000,000	Fixed	USD



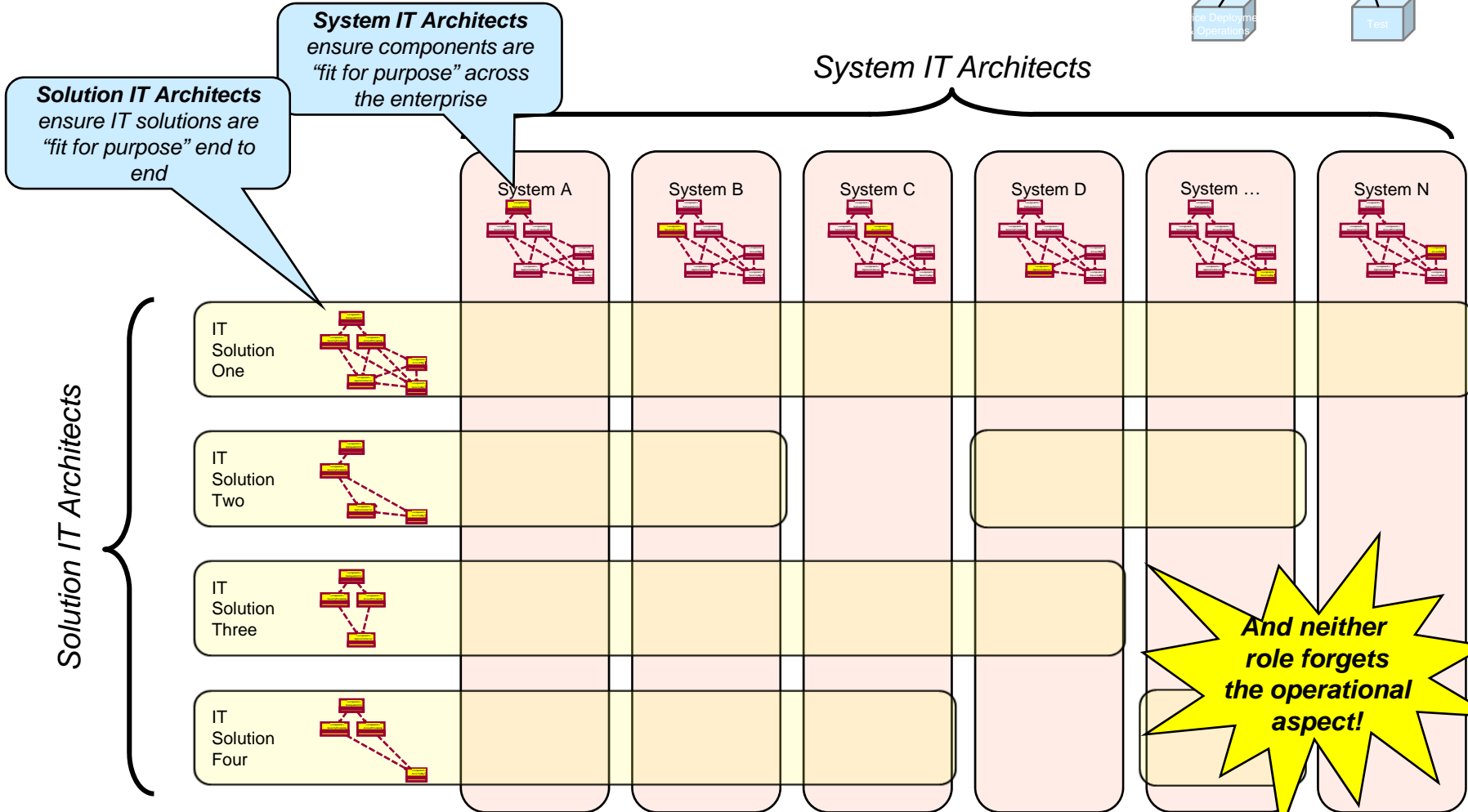
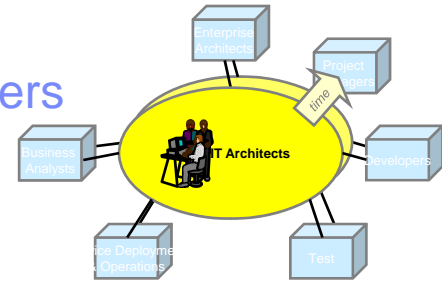
Physical Database Design

System Config'n

IT Architects are the project managers' "best friends": one caring for the **content** of the project, while the other cares for the **running** of the project, working in tandem



There is often a distinction between IT Architects responsible for the design of specific business solutions “end to end”, with others focused on specific part of IT, across all business solutions



Glossary of acronyms

- AOD
- AT
- CM
- DU
- EA
- IT
- IS
- NFR
- OM
- RA
- SCD
- SLC
- SLCA
- UCM
- WP

Glossary of acronyms

- AOD Architecture Overview Diagram
- AT Architectural Thinking
- CM Component Model
- DU Deployment Unit
- EA Enterprise Architecture
- IT Information Technology
- IS Information Systems
- NFR Non Functional Requirement
- OM Operational Model
- RA Reference Architecture
- SCD System Context Diagram
- SLC Service Level Characteristic
- SLCA SLC Analysis
- UCM Use Case Model
- WP Work Product