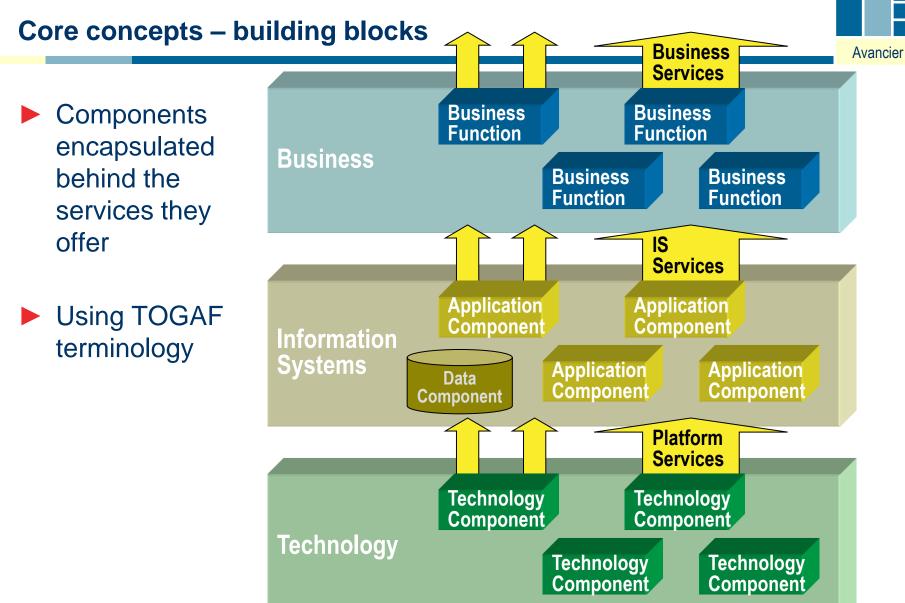


# **Avancier's TOGAF quick reference charts**

A graphical view of core TOGAF concept



# Business Strategy Business Business Business Goals

#### **50 TOGAF Deliverables and Concepts**





Design Patterns

Reference Models

Standards Info. Base

#### Aims

Request for Architecture Work

Architecture Requirements

Change Request

Requirements Impact Assessment

#### Architecture

Architecture Vision

Statement of Architecture Work

Architecture Definition Doc

Architecture Roadmap

Transition Architectures

## Implementation

Implementation & Migration Plans

Implementation Governance Model

Architecture Contracts

Compliance Assessments

## **Stakeholders** Description

Stakeholder Map Deliverable

Concern Artifact

Communic'n Building Block

View Point

ISO/IEC 42010

View

# Architecture levels

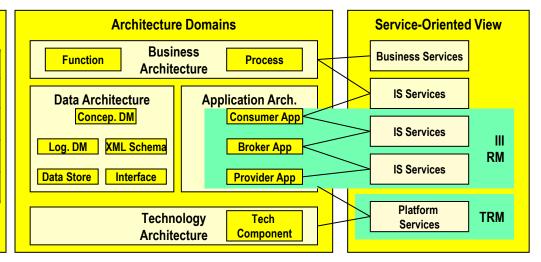
Enterprise Architecture

Segment Architecture

Capability Architecture

#### Enterprise Continuum

	Foundation	Common System	Industry	Organisation
Requirements and Context				
Architecture continuum	Foundation Architecture	Common Sys Architecture	Industry Architecture	Organisation Architecture
Solutions continuum	Foundation Solutions	Common Sys Solutions	Industry Solutions	Organisation Solutions
Deployed solutions				



### The Architecture Development Method



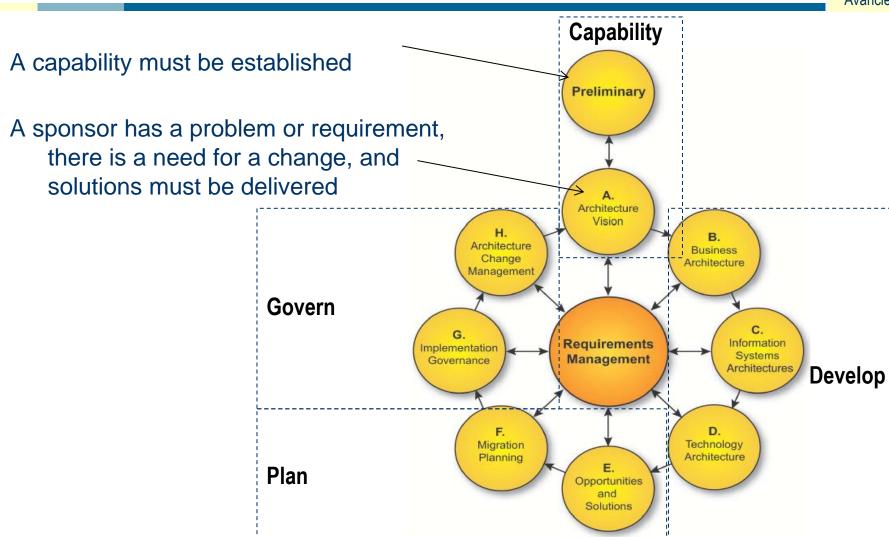
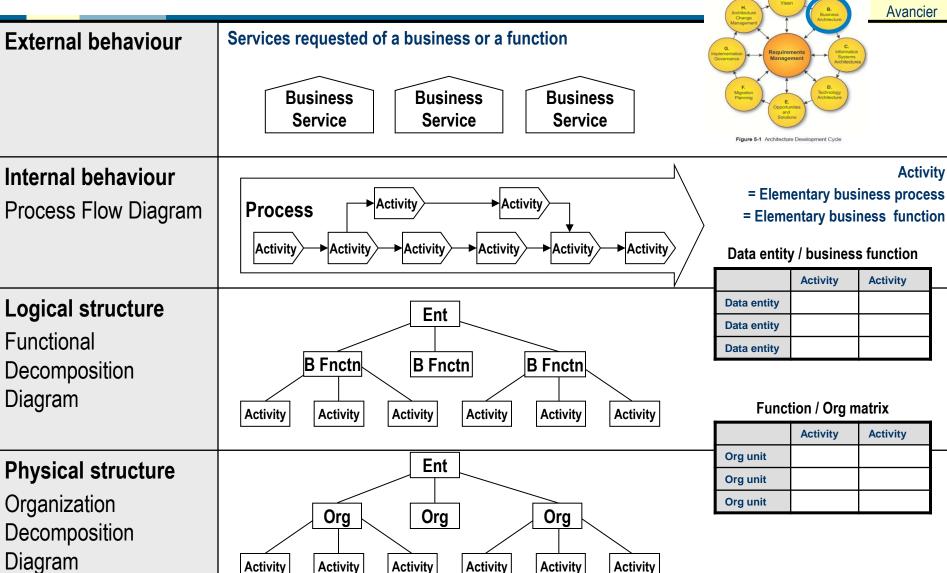
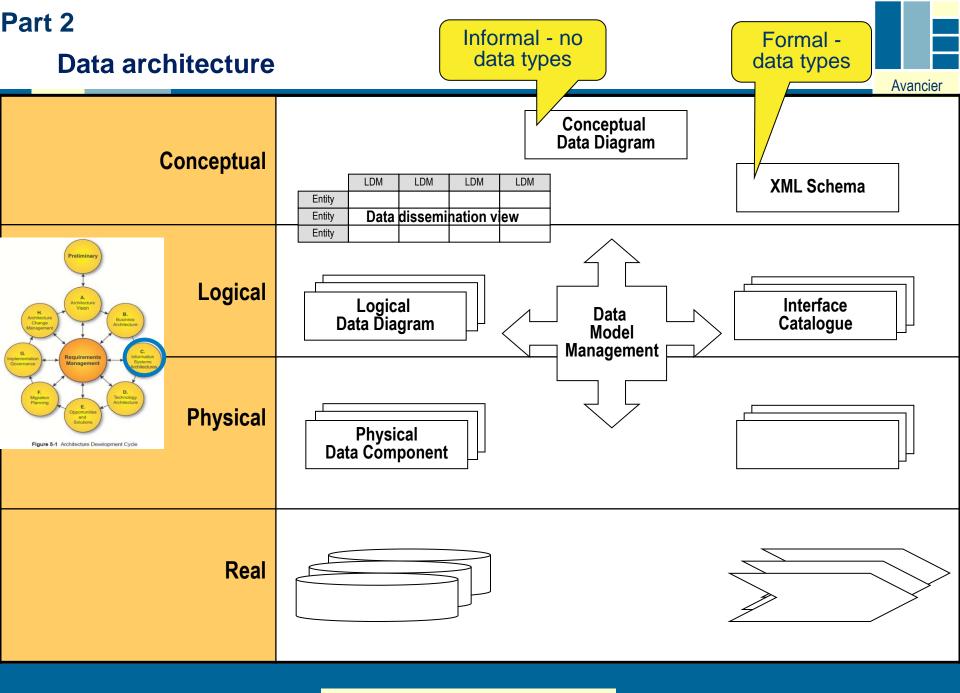


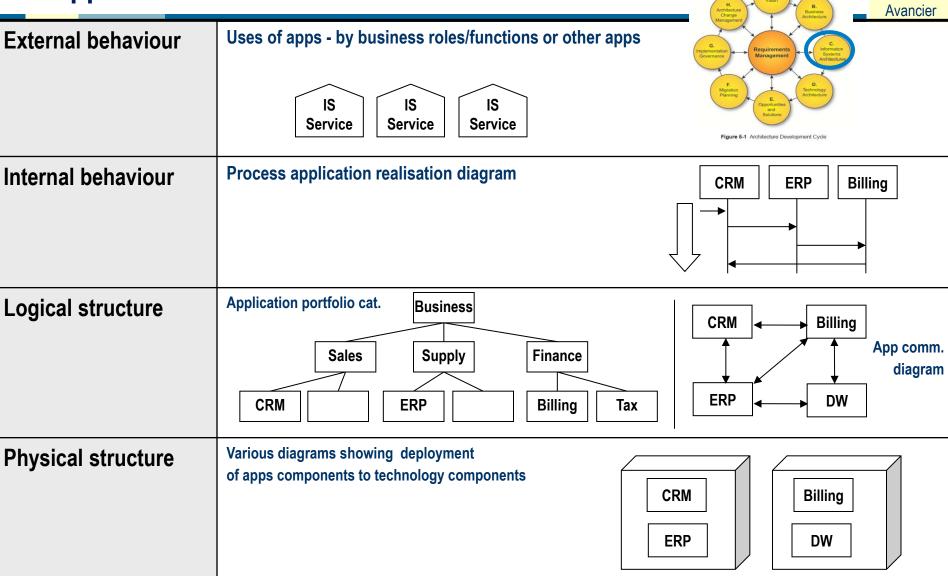
Figure 5-1 Architecture Development Cycle

#### **Business architecture**



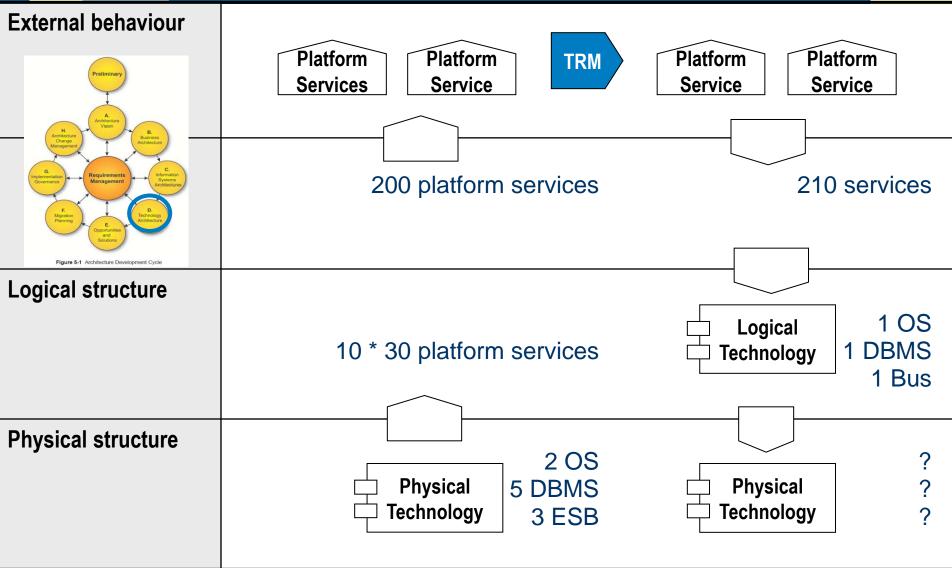


### **Application architecture**



## **Technology architecture - rationalisation**





#### **Deliverables**

Avancier

Architecture Building Blocks
Architecture Contracts

**Architecture Definition Document** 

Architecture Principles

Architecture Repository

Architecture Requirements

Architecture Roadmap

Architecture Vision

Business Principles, Goals & Drivers

Capability Assessment

Change Request

Communications Plan

Compliance Assessment

Implementation and Migration Plan

Implementation Governance Model

Organizational Model for Enterprise Architecture

Request for Architecture Work

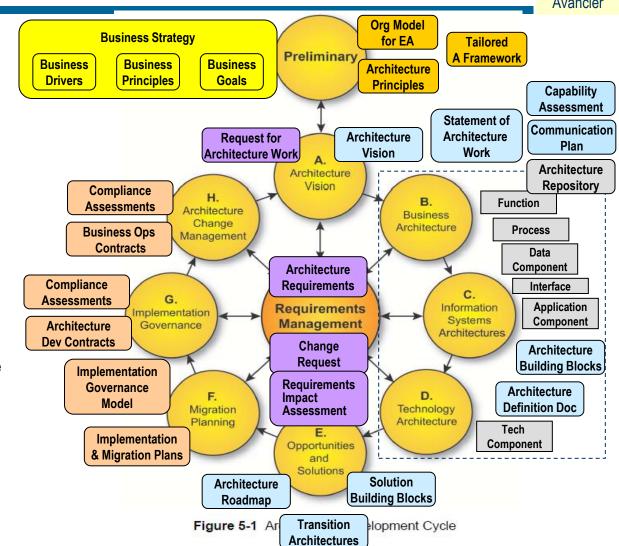
Requirements Impact Assessment

Solution Building Blocks

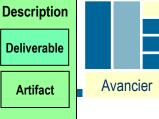
Statement of Architecture Work

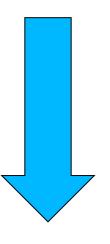
Tailored Architecture Framework

Transition Architectures



#### The Drift of Deliverables





#### **Business Strategy**

Business Drivers Business Principles Business Goals

#### Architecture

Architecture Vision

Statement of Architecture Work

Architecture Definition Doc

Architecture Roadmap

Transition Architectures

#### **Implementation**

Building Block

Implementation & Migration Plans

Implementation Governance Model

Architecture Contracts

Compliance Assessments

#### **Directives**

Architecture Principles

Design Patterns

Reference Models

Standards Info. Base

#### **Aims**

Request for Architecture Work

Architecture Requirements

Change Request

Requirements Impact Assessment

## Part 4 **Artefacts Preliminary Phase** artefacts **Principles Catlagg Phase B Business Architecture** artefacts Organization/Actor Catalog Role Catalog **Business Service/Function Catalog** Driver/Goal/Objective Catalog **Location Catalog** Process/Event/Control/Product

Catalog

Contract/Measure Catalog **Business Interaction Matrix** 

**Business Footprint Diagram** 

Product Lifecycle Diagram

Business Service/Information Diagram

**Functional Decomposition Diagram** 

Goal/Objective/Service Diagram

Organization Decomposition Diagram

**Business Use-Case Diagram** 

Process Flow Diagram

**Event Diagram** 

Actor/Role Matrix

Phase A: Architecture Vision Stakeholder Map Matrix Value Chain Diagram Solution Concept Diagram Phase C Data Architecture artefacts Data Entity/Data Component Catalog

Data Entity/Business Function Matrix

Application/Data Matrix

Conceptual Data Diagram

**Data Dissemination Diagram** 

Data Security Diagram (or matrix)

Logical Data Diagram

**Data Migration Diagram** 

Data Lifecycle Diagram

Class Hierarchy Diagram

artefacts Application Portfolio Catalog Interface Catalog

**Artifact** Building **Block Phase C Application Architecture** 

Application/Organization Matrix

Application and User Location

**Enterprise Manageability Diagram** 

Process/Application Realization

Software Engineering Diagram

**Application Migration Diagram** Software Distribution Diagram

System Use-Case Diagram

**Application Communication Diagram** 

Role/Application Matrix Application/Function Matrix **Application Interaction Matrix** 

Diagram

Diagram

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**Description** 

**Deliverable** 

**Project Context Diagram** Benefits Diagram Phase D Technology Architecture artefacts Technology Portfolio Catalog Technical Reference Model **Technology Standards Catalog** 

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Phase E Opportunities and

Application/Technology Matrix

**Environments and Locations Diagram** 

Platform Decomposition Diagram

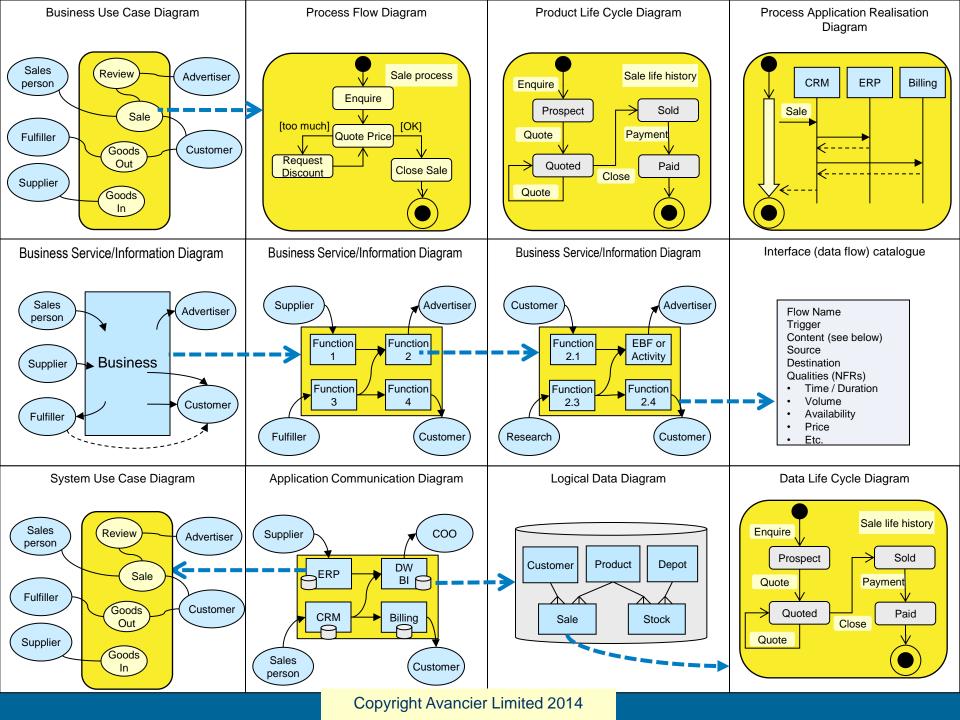
Networked Computing/Hardware

Communications Engineering Diagram

**Processing Diagram** 

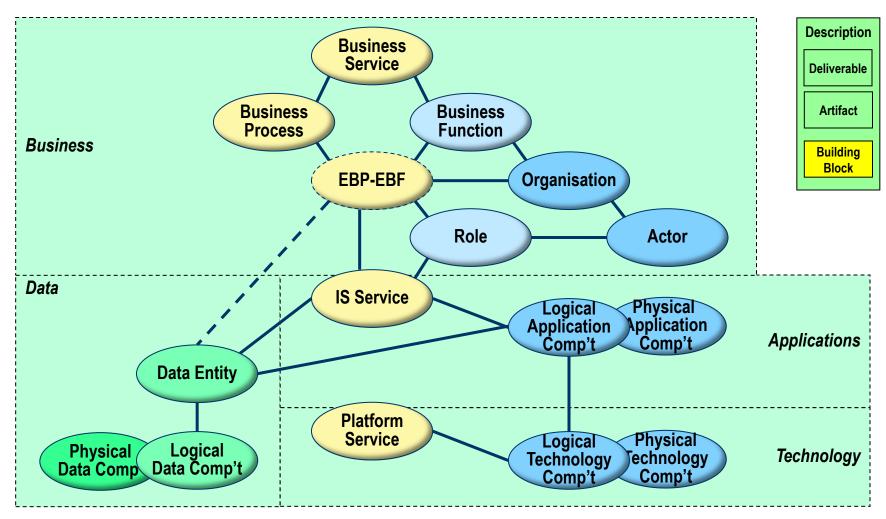
Diagram

**Solutions Artefacts** 



### **Building Blocks - Meta model - simplified**





TOGAF has logical and physical version of data, app and technology components





	Behaviour	Structure
External	A discrete event or operation that is required of or provided by a system. Definable in a service contract with no reference to the logical control flow of the processes that deliver it.	A structured collection of services (to the left) that is presented to consumers and provided by one or more components (below).
	Starter, Main course Service	Interface Menu
	Order, Cook, Serve Process	Component Chef, Cook, Oven
Internal	What a system does. A logical sequence of activities that is performed by components and can be encapsulated behind a service contract.	What a system is made of. A subsystem that performs activities and can be encapsulated behind an interface.

## **Enterprise Continuum**



Two-dimensional Classification schemes or "Taxonomies"

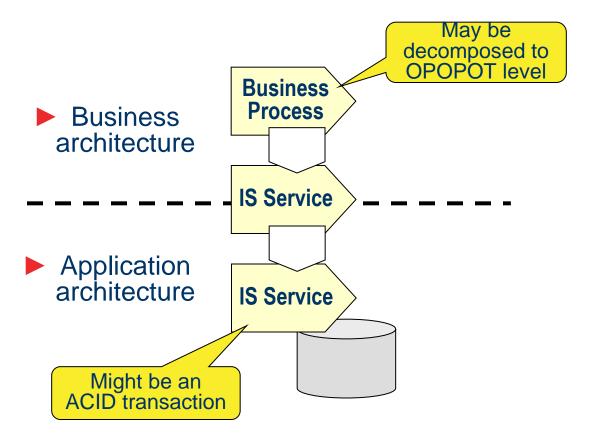
TOGAF's Enterprise Continuum	Foundation		Common System	Industry	Organisation
Requirements and Context	Ideal		Generic to s		
Architecture continuum	to				
Solutions continuum	Real				
Deployed solutions					

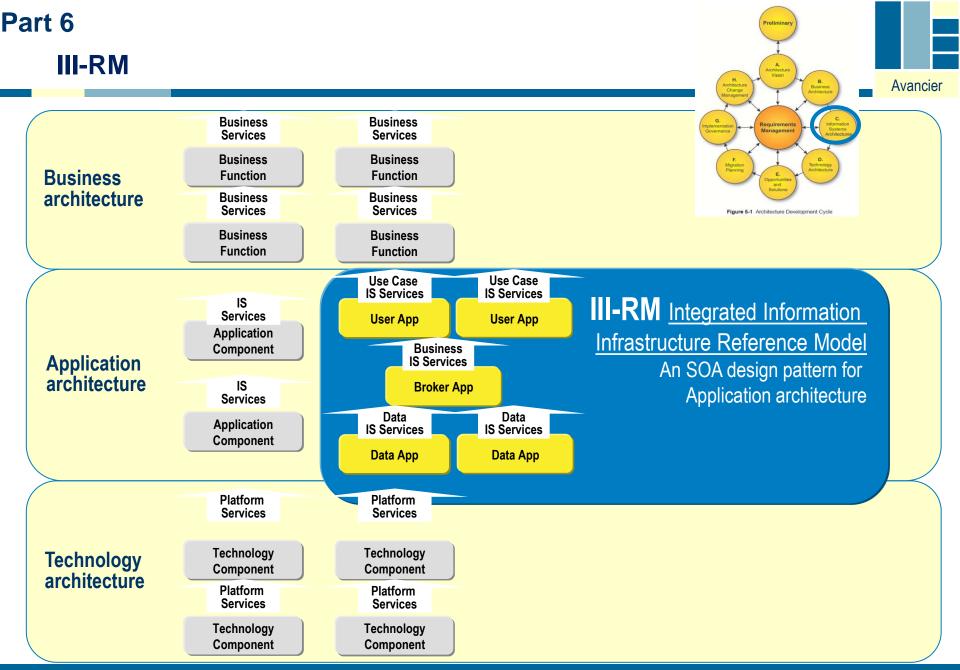
Zachman Framework	What	How	Where	Who	When	Why
Contextual	1					
Conceptual	Ideal					
Logical	to Real					
Physical	, itea					
Real						

## **Process automation hierarchy**



A simple model for process decomposition and automation





#### **TOGAF-speak for these ideas**



#### Information Consumer Applications

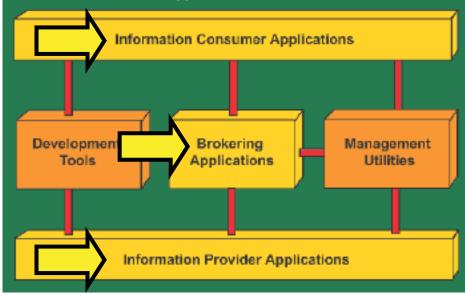
 deliver content to the user of the system, and provide services to request access to information in the system on the user's behalf

#### Brokering Applications

 manage the requests from any number of clients to and across any number of Information Provider Applications

#### Information Provider Applications

- provide responses to client requests and rudimentary access to data managed by a particular server
- The overall set creates an environment that provides a rich set of end-user services for transparently accessing heterogeneous systems, databases, and file systems.
- TOGAF v9

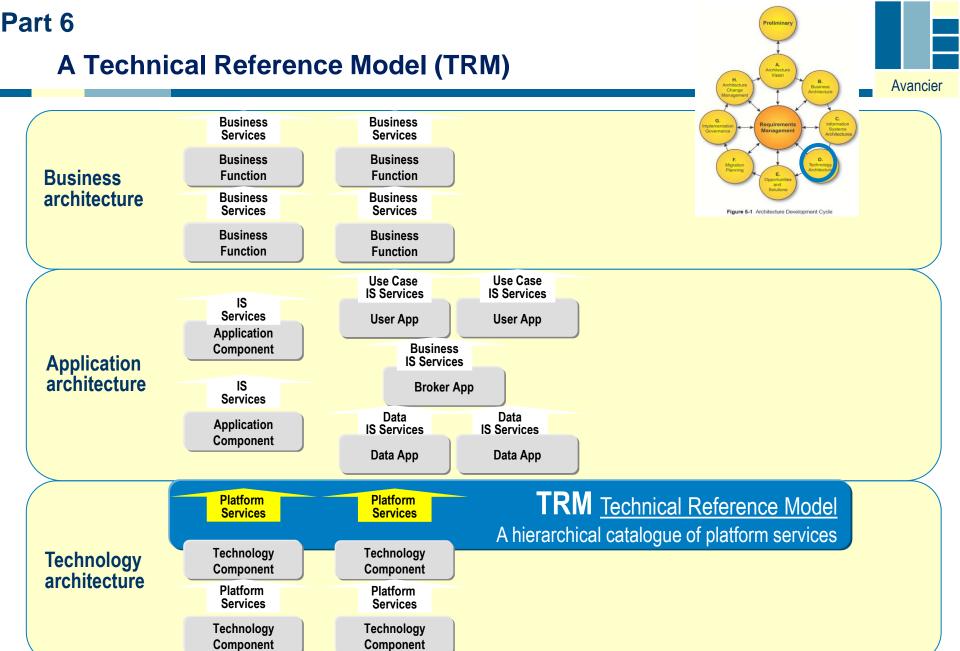












#### **TOGAF** uses abstraction



to classify and divide up architecture descriptions.

In Architecture Deve	lopment Method	In Enterprise Continuum		
Composition	Omission	Idealisation	Generalisation	
High level	Business	ldeal	Generic	
Enterprise / Strategy	Business	Requirements	Foundation	
x Segments	Data	Architecture building blocks	Common System	
x * y Capabilities	Applications	Solution building blocks	Industry	
	Technologies	Deployed Solutions	Organisation	
Low level Technology		Real	Specific	

## **Postscript**

## **Kinds of abstraction: summary**



Omission	Composition	Generalisation	Idealisation		
Vacuous	Coarse-grained composite	Universal	Concept	Architecture	
Sketchy	Mid-grained composite	Fairly generic	Logical Model	Detailed Design	
Elaborate	Fine-grained composite	Fairly specific	Physical Model	Dotallog Boolgil	
Complete Elementary part		Uniquely configured	Physical Material <	Implementation	
Elaboration	Decomposition	Specialisation	Realisation		
	Composite  **  Part	Generalised thing  Specialised thing	Ideal or Logical  Real or Physical		