

How it works?

Anatomy Driven Solution



Case I – Review the architecture of SOA Implementation

Current Architecture Focus

: SOA Implementation



Architecture
Model
(Diagrams)



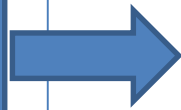
Case I – Review the architecture of SOA Implementation : sample artifacts, diagrams

Current Architecture Focus

: SOA Implementation



Architecture
Models
(Diagrams)



System requirements
Some use cases
Process models,
Data models,
UI models,
Component model
Service descriptions
Code implementation



Case I – SOA Implementation : Transformation to Enterprise Anatomy Model

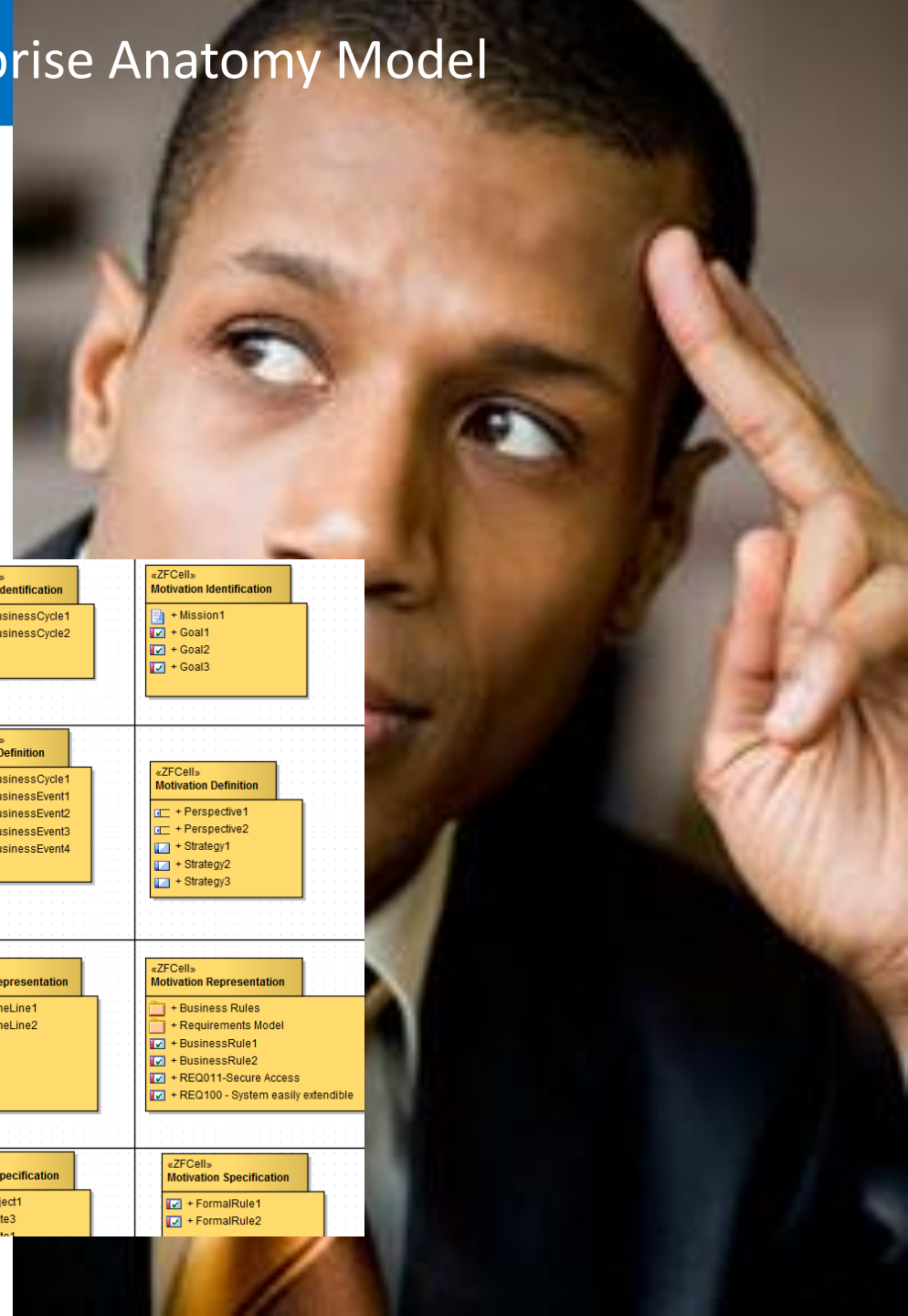
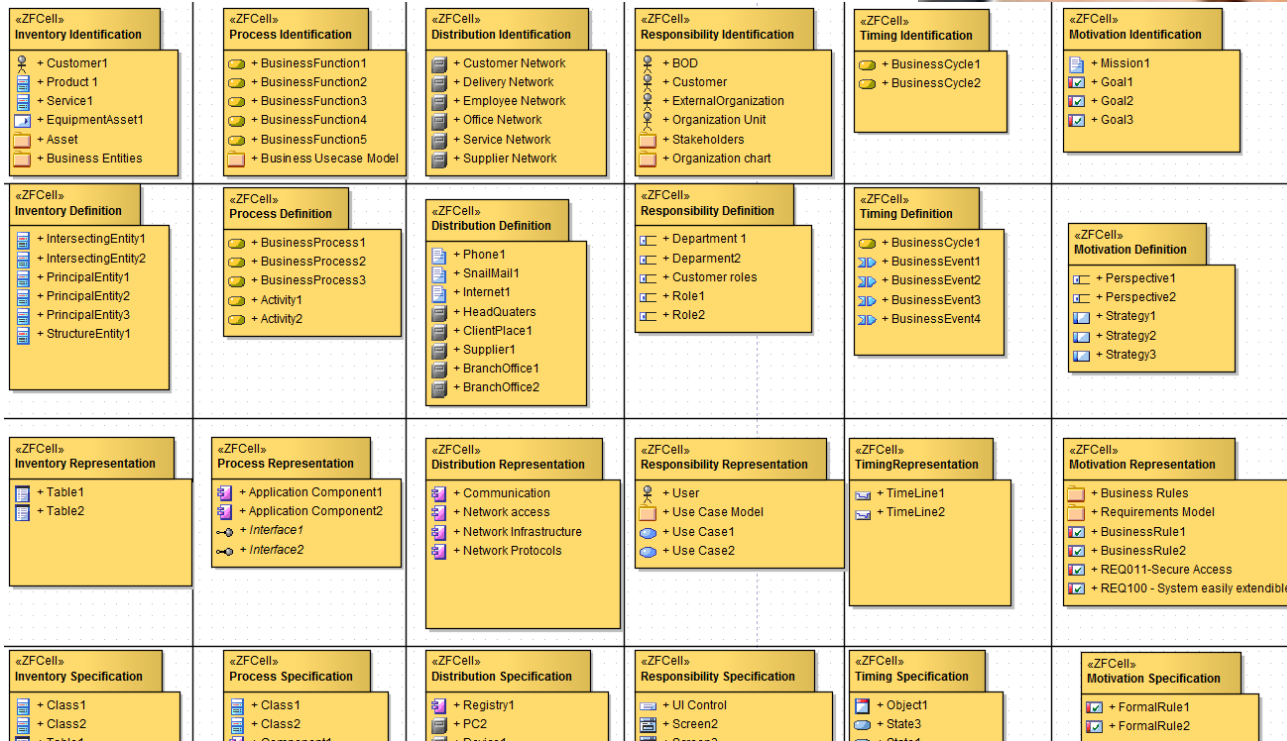
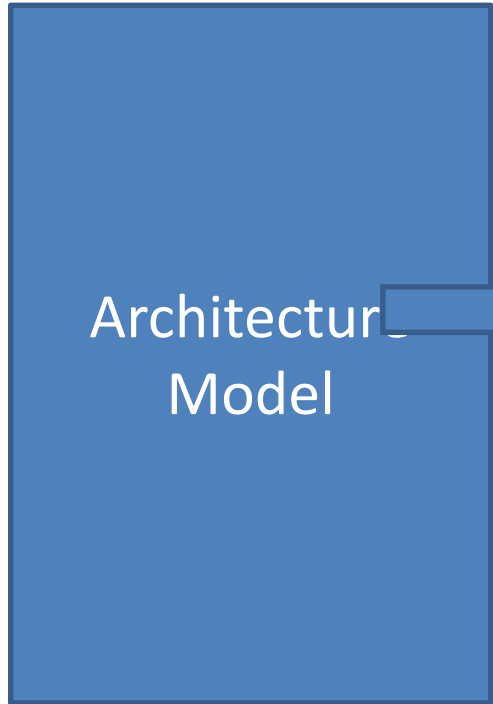
Current Architecture Focus

: SOA Implementation



New Focus : Enterprise Anatomy Driven Solution

: SOA Implementation



New Architecture Focus

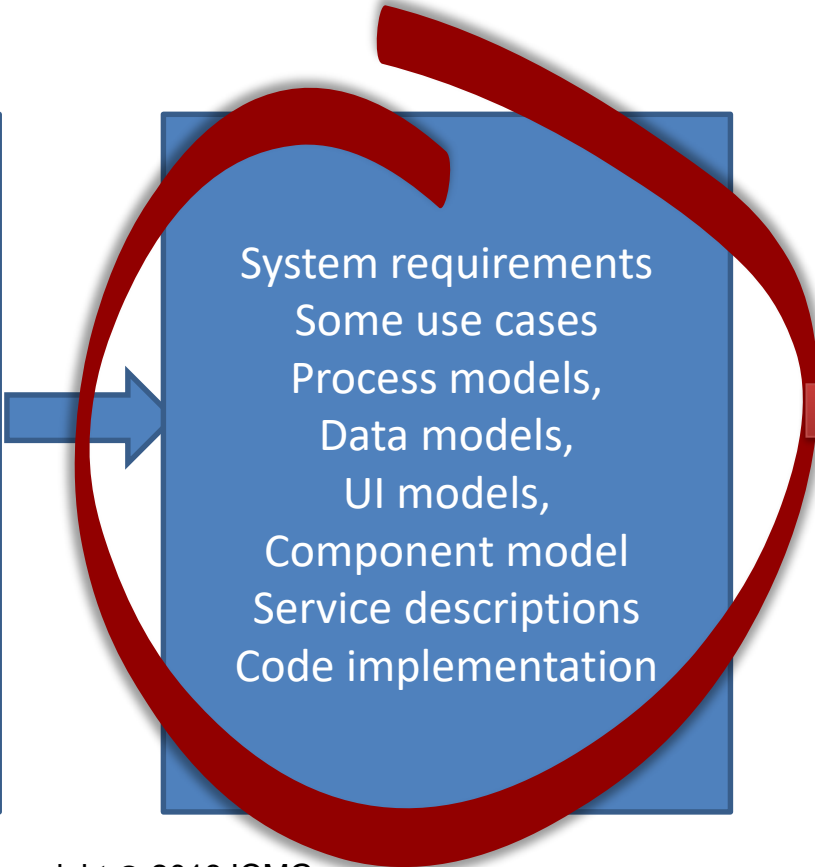
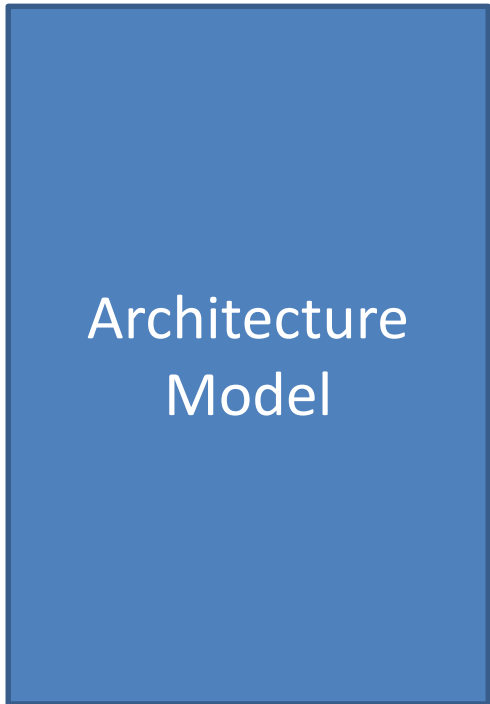
Elements based on variables and perspective

The Zachman Framework	DATA What (Things)	FUNCTION How (Process)	NETWORK Where (Location)	PEOPLE Who (People)	TIME When (Time)	MOTIVATION Why (Motivation)
SCOPE (Contextual) Planner	«ZFCell» Inventory Identification <ul style="list-style-type: none"> + Customer1 + Product 1 + Service1 + EquipmentAsset1 + Asset + Business Entities <i>(from Executive Perspective)</i>	«ZFCell» Process Identification <ul style="list-style-type: none"> + Business Product1 + Business Product2 + Business Product3 + Business Product4 + Business Function5 + Business Usecase Model <i>(from Executive Perspective)</i>	«ZFCell» Distribution Identification <ul style="list-style-type: none"> + HeadQuarters + Location + SupplierLocation1 + BranchOffice1 + BranchOffice2 <i>(from Executive Perspective)</i>	«ZFCell» Responsibility Identification <ul style="list-style-type: none"> + BOD + ExternalOrganization + Organization Unit + Stakeholders + Organization chart + Customer <i>(from Executive Perspective)</i>	«ZFCell» Timing Identification <ul style="list-style-type: none"> + BusinessCycle1 + BusinessCycle2 <i>(from Executive Perspective)</i>	«ZFCell» Motivation Identification <ul style="list-style-type: none"> + Mission1 + Goal1 + Goal4 + Goal2 + Goal3 <i>(from Executive Perspective)</i>
BUSINESS MODEL (Conceptual) Owner	«ZFCell» Inventory Definition <ul style="list-style-type: none"> + IntersectingEntity1 + IntersectingEntity2 + PrincipalEntity1 + PrincipalEntity2 + PrincipalEntity3 + StructureEntity1 	«ZFCell» Process Definition <ul style="list-style-type: none"> + Activity3 + Activity4 + Order Fulfillment + Process3 + Recruitment process + Hiring Process + Hiring Process - Copy + Business Process3 + Activity1 	«ZFCell» Distribution Definition <ul style="list-style-type: none"> + Customer Network + Delivery Network + Employee Network + Office Network + Service Network + Supplier Network 	«ZFCell» Responsibility Definition <ul style="list-style-type: none"> + Department 1 + Department2 + Customer roles <i>(from Business Management Perspective)</i>	«ZFCell» Timing Definition <ul style="list-style-type: none"> + BusinessCycle1 + BusinessEvent1 + BusinessEvent2 + BusinessEvent3 + BusinessEvent4 <i>(from Business Management Perspective)</i>	«ZFCell» Motivation Definition <ul style="list-style-type: none"> + Perspective1 + Perspective2 + Strategy1 + Strategy2 + Strategy3 <i>(from Business Management Perspective)</i>
SYSTEM MODEL (Logical) Designer	<i>(from Business Management Perspective)</i> «ZFCell» Inventory Representation <ul style="list-style-type: none"> + Table1 + Table2 <i>(from System Perspective)</i>	<i>(from Business Management Perspective)</i> «ZFCell» Process Representation <ul style="list-style-type: none"> + App + Billing App + CRM App + Interface1 + Interface2 <i>(from System Perspective)</i>	<i>(from Business Management Perspective)</i> «ZFCell» Distribution Representation <ul style="list-style-type: none"> + Elements + Network Elements + Application Servers + HTTP Servers + LAN Components + Load Balancers + Mail Server + Network Model 	«ZFCell» Responsibility Representation <ul style="list-style-type: none"> + Role1 + Role2 + Role3 + Use Case Model + responsibility 1 + responsibility 2 + responsibility 3 <i>(from System Perspective)</i>	«ZFCell» TimingRepresentation <ul style="list-style-type: none"> + TimeLine1 + TimeLine2 <i>(from System Perspective)</i>	«ZFCell» Motivation Representation <ul style="list-style-type: none"> + Business Rules + Requirements Model + BusinessRule2 + REQ011-Secure Access + REQ100 - System easily extendible + Rule1 <i>(from System Perspective)</i>
TECHNOLOGY MODEL (Physical) Builder	«ZFCell» Inventory Specification <ul style="list-style-type: none"> + Table1 + Table2 + DDL <i>(from Technology Perspective)</i>	«ZFCell» Process Specification <ul style="list-style-type: none"> + Component1 + Component2 + Class libraries + Component View <i>(from Technology Perspective)</i>	«ZFCell» Distribution Specification <ul style="list-style-type: none"> + Network Infrastructure + Network access + Network Protocols + PC2 + Device1 + Processor1 	«ZFCell» Responsibility Specification <ul style="list-style-type: none"> + UI Control + UI Control + Screen1 + Screen2 + Screen3 + Order Screen 	«ZFCell» Timing Specification <ul style="list-style-type: none"> + Object1 + State3 + State1 + State2 <i>(from Technology Perspective)</i>	«ZFCell» Motivation Specification <ul style="list-style-type: none"> + FormalRule1 + FormalRule2 <i>(from Technology Perspective)</i>

Case I – SOA Implementation : How to migrate and transform?

Current Architecture Focus

: SOA Implementation

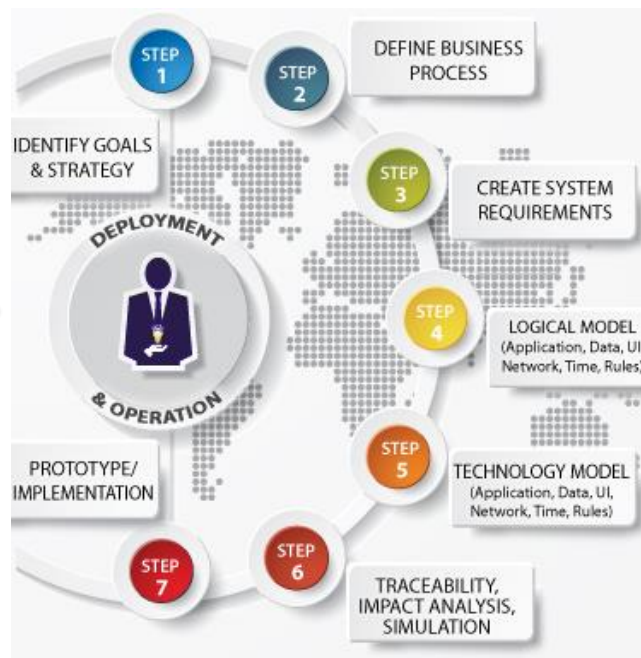
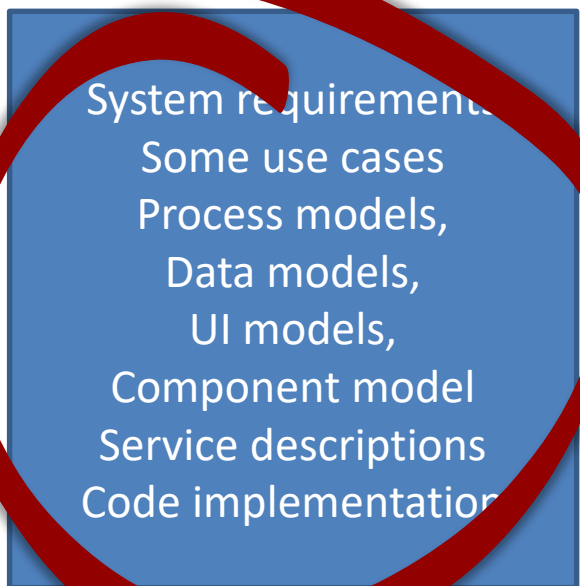


New Architecture Focus

The Zachman Framework	DATA What (Things)	FUNCTION How (Process)	NETWORK Where (Location)	PEOPLE Who (People)	TIME When (Time)	MOTIVATION Why (Motivation)
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BUSINESS MODEL (Conceptual) Owner	«ZFCel» Inventory Definition + intersectingEntity1 + intersectingEntity2 + PrincipalEntity1 + PrincipalEntity2 + StructureEntity1 <i>(from Business Management Perspective)</i>	«ZFCel» Process Definition + Activity3 + Activity4 + Order Fulfillment + Process3 + Hiring Process + Hiring Process - Copy + Business Process3 <i>(from Business Management Perspective)</i>	«ZFCel» Distribution Definition + Customer Network + Delivery Network + Employee Network + Office Network + Service Network + Supplier Network <i>(from Business Management Perspective)</i>	«ZFCel» Responsibility Definition + Department 1 + Department2 + Customer roles <i>(from Business Management Perspective)</i>	«ZFCel» Timing Definition + BusinessCycle1 + BusinessEvent1 + BusinessEvent2 + BusinessEvent3 + BusinessEvent4 <i>(from Business Management Perspective)</i>	«ZFCel» Motivation Definition + Perspective1 + Perspective2 + Strategy1 + Strategy2 + Strategy3 <i>(from Business Management Perspective)</i>
SYSTEM MODEL (Logical) Designer	«ZFCel» Inventory Representation + Table1 + Table2 <i>(from System Perspective)</i>	«ZFCel» Process Representation + Billing App + CRM App + Interface1 + Interface2 <i>(from System Perspective)</i>	«ZFCel» Distribution Representation + Elements + Network Elements + Application Servers + HTTP Servers + LAN Components + Load Balancers + Mail Server + Network Model <i>(from System Perspective)</i>	«ZFCel» Responsibility Representation + Role1 + Role2 + Role3 + Use Case Model + responsibility 1 + responsibility 2 + responsibility 3 <i>(from System Perspective)</i>	«ZFCel» Timing Representation + TimeLine1 + TimeLine2 <i>(from System Perspective)</i>	«ZFCel» Motivation Representation + Business Rules + Requirements Model + BusinessRule2 + REQ011-Secure Access + REQ100- System easily extendible + Rule1 <i>(from System Perspective)</i>
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We apply anatomy driven methodology to create elements and composites

Current Architecture Models



New Architecture Models

The Zachman Framework	What Inventory Data	How Process Flow	Where Distribution Network	Who Responsible Agent	When Temporal Logic	Why Motivational Rationale
EXECUTIVE PERSPECTIVE	42FCds Inventory Identification F = Customer M = Product 1 S = Service 1 C = Responsibility E = Asset M = Business Entity	42FCds Process Identification M = Address Fulfillment M = Business Product 2 M = Business Product 3 M = Business Product M = Address-Product M = Business Location Model	42FCds Distribution Identification M = HeadQuarters M = Location M = Region/Location1 M = BranchOffice1 M = BranchOffice2	42FCds Responsibility Identification F = CEO F = BusinessOrganization F = OrganizationUnit M = Responsibility M = OrganizationChart M = Customer	42FCds Timing Identification M = BusinessCycle M = BusinessEvent	42FCds Motivation Identification M = Mission M = Goal M = New product dev M = Cost M = Goal
BUSINESS MANAGEMENT PERSPECTIVE	42FCds Inventory Definition M = InventoryEntity M = InventoryType M = Principal1 M = Principal2 M = Principal3 M = StructureData1	42FCds Process Definition M = Order Fulfillment M = Process M = RecruitmentProcess M = Hiring Process M = Hiring Process - Copy M = Supplier Process	42FCds Distribution Definition M = Customer Network M = Delivery Network M = Employee Network M = Hiring Process - Copy M = Supplier Network	42FCds Responsibility Definition F = Department 1 F = Department 2 F = CustomerRole M = CustomerRole	42FCds Timing Definition M = BusinessCycle1 M = BusinessEvent1 M = BusinessEvent2 M = BusinessEvent3	42FCds Motivation Definition M = Purpose1 M = Purpose2 M = Strategy1 M = Strategy2 M = Strategy3
ARCHITECT PERSPECTIVE	42FCds Inventory Representation M = Table1 M = Table2	42FCds Process Representation M = Hiring App M = CRM App M = System M = HeadQuarters M = ClientPlace M = Supplier M = BranchOffice1	42FCds Distribution Representation M = Internet M = Intranet M = BranchMail M = System M = HeadQuarters M = ClientPlace M = Supplier M = BranchOffice1	42FCds Responsibility Representation F = Role1 F = Role2 F = Role3 M = Role4 M = Role5 M = Responsibility 1 M = Responsibility 2 M = Responsibility 3	42FCds Timing Representation M = TimeLine1 M = TimeLine2	42FCds Motivation Representation M = Business Rules M = Requirements Model M = BusinessRule2 M = HRM1 - Access Across M = HRM2 - System only scenario M = Rule1
ENGINEER PERSPECTIVE	42FCds Inventory Specification M = Table1 M = Table2 M = XML	42FCds Process Specification M = Component M = Component2 M = Class-Instance M = ComponentView	42FCds Distribution Specification M = Network Infrastructure M = Network Access M = Network Process M = PCP M = Server1 M = Server2 M = Server3 M = Server4 M = Server5	42FCds Responsibility Specification M = Control M = UI Control M = Control M = Control M = Control M = Control M = Control M = Control M = Control M = Control	42FCds Timing Specification M = Object1 M = Object2 M = Object3 M = Object4 M = Object5	42FCds Motivation Specification M = FormulaRule1 M = FormulaRule2

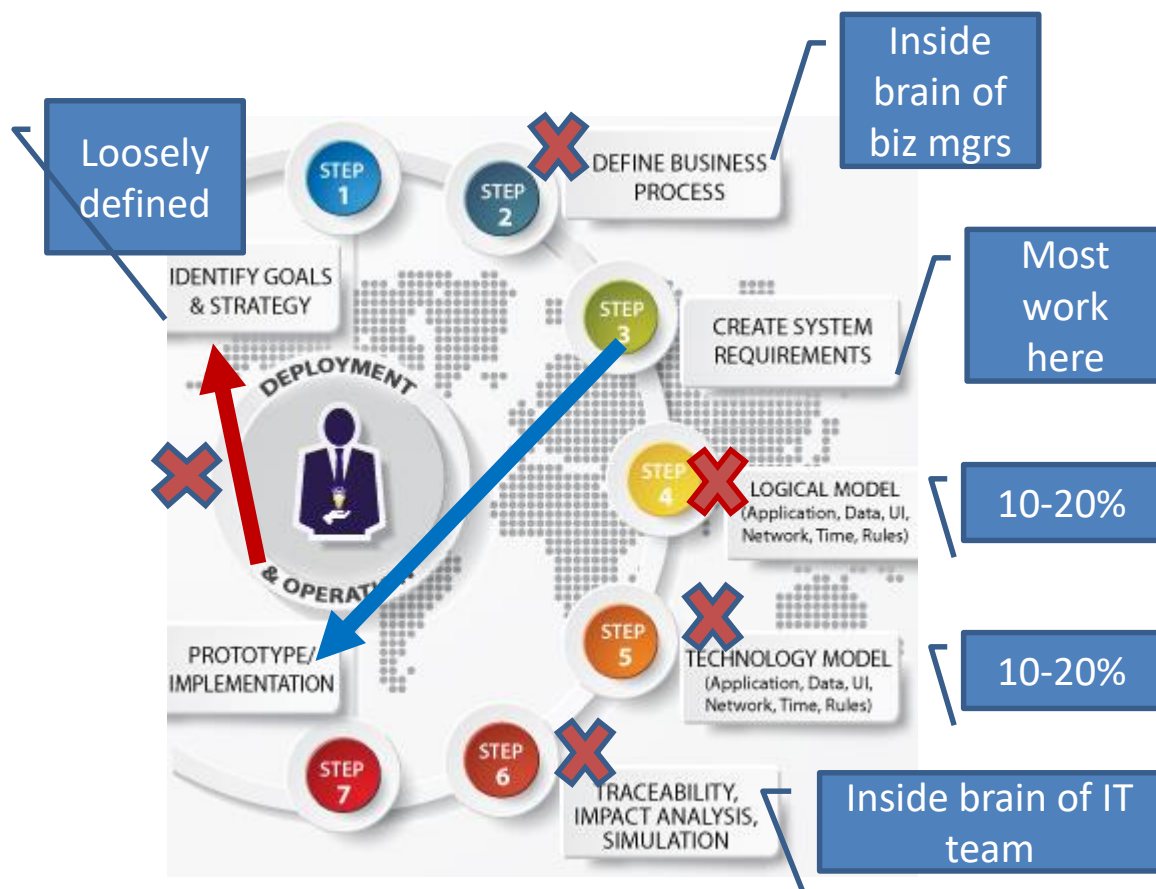
We have created methodologies to
change and transform this easily

Architecture Driven Solution



ICMG IT Architecture Methodology





ICMG IT Architecture Methodology

In 2017, after evaluating around 300 IT Projects around ICMG IT Architecture Methodology, it's interesting to know that <10% of projects had business process models, System requirements completeness is 40-50%, Logical models (Functional, Data, UI, Network,, Time, Rules) is 10-20% coverage, same is true for Technical (Specification) Models (Functional, Data, UI, Network, Time, Rules), Traceability, impact analysis, simulations are seen as luxuries. Most of the cases, development teams are using new buzzwords that promises results by ignoring step1, step2, step4, step5, step6.

The customer's customers are not happy with first release...(that is huge gap between what is intended and what is delivered..)..they are not happy with 2nd release either...after few iterations and some more releases ...the newly created systems are ready for the tag "legacy"..Are new systems becoming legacy faster

Inventory Sets – Information, Flow and Management

Executive Perspective
(Business Context Planners)

Business Mgmt Perspective
(Business Concept Owners)

Architect Perspective
(Business Logic Designers)

Engineer Perspective
(Business Physics Builders)

Technician Perspective
(Business Component Implementers)

Enterprise Perspective
(Users)

Inventory (Data)

Inventory Identification

e.g. Product Types, Business Processes, Territories, Chain, Enterprise, Venues, Accounts

List: Inventory Types

Inventory Definition

e.g. primitive

e.g. Business Entity, Business Relationship

Inventory Representation

e.g. System Entity, System Relationship

Inventory Specification

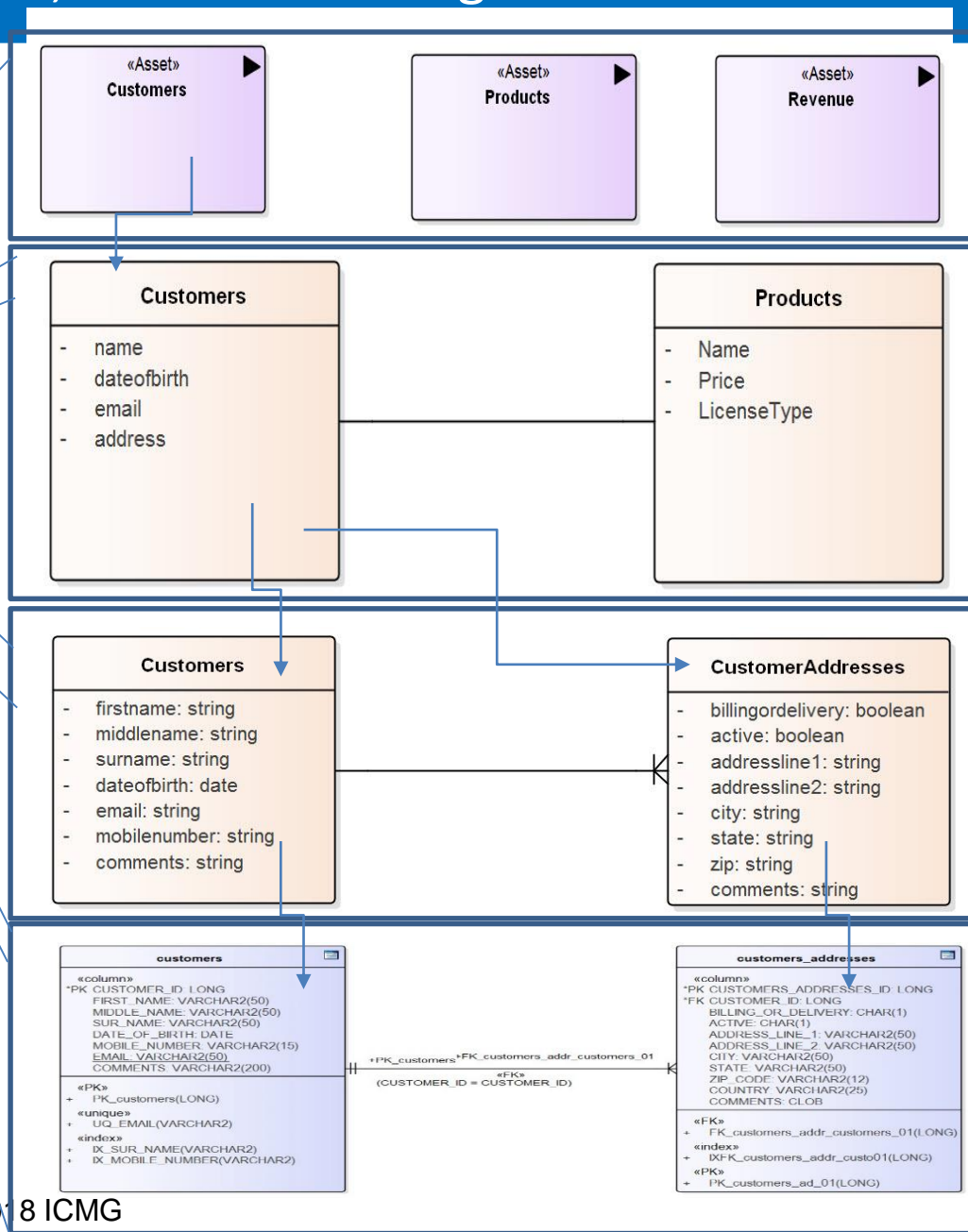
e.g. Technology Entity, Technology Relationship

Inventory Configuration

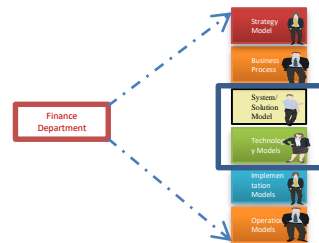
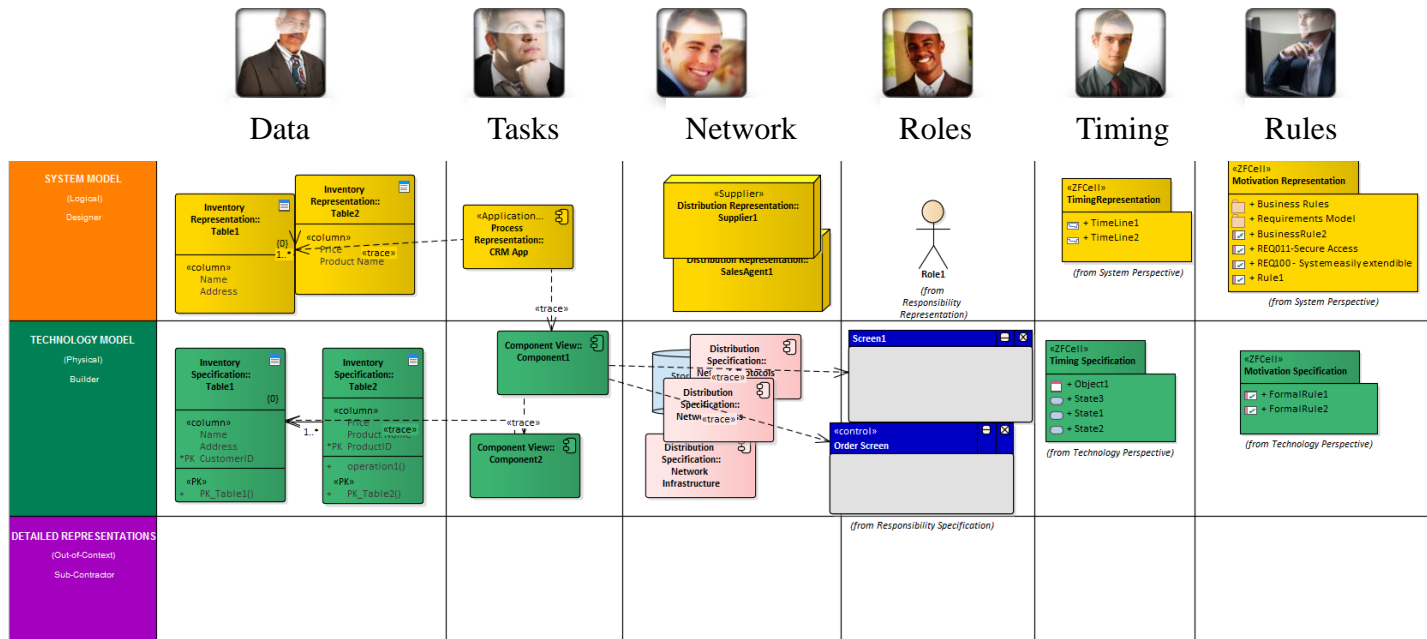
e.g. Tool Entity, Tool Relationship

Inventory Instantiations

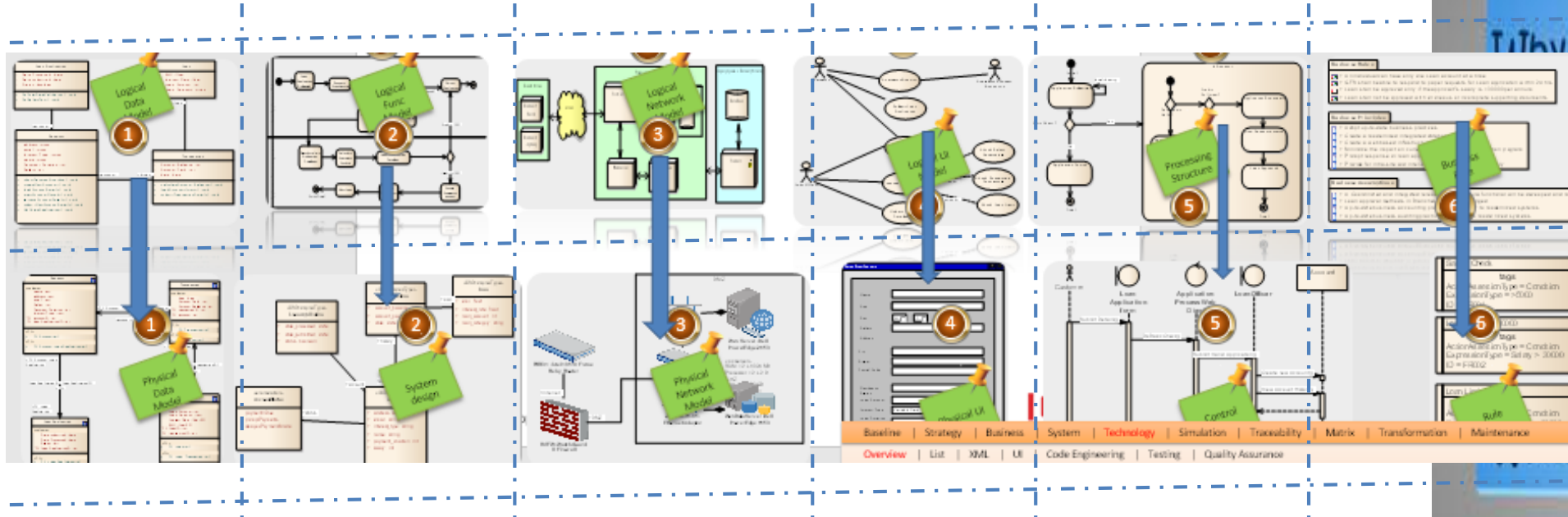
Operations Entities, Operations Relationships



IT Architecture Models – set 1



Logical Models & Technical Models



IT Architecture Models – set 3

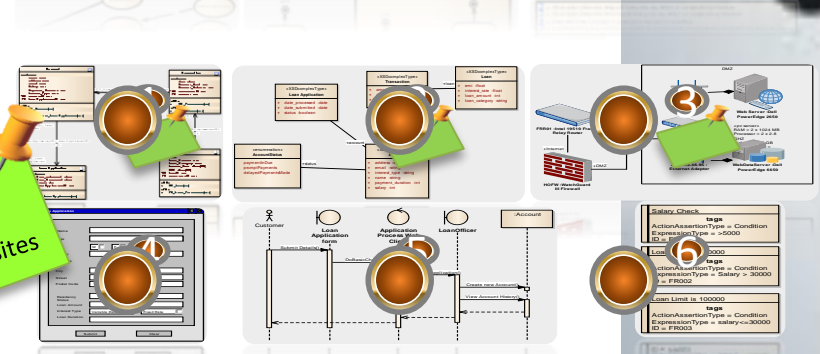
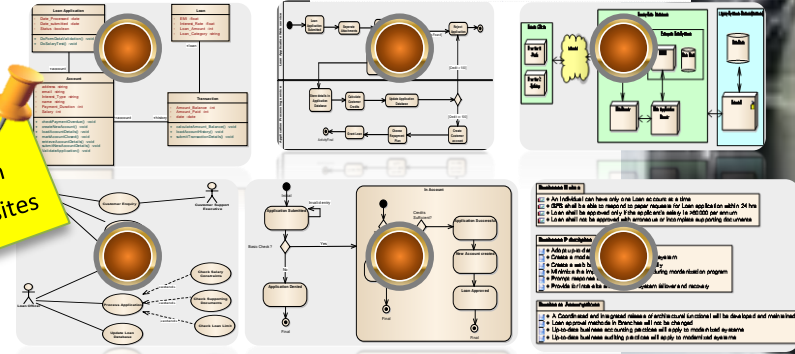
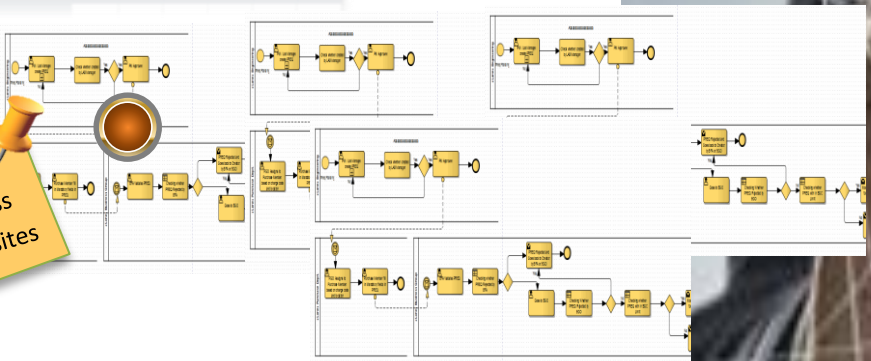
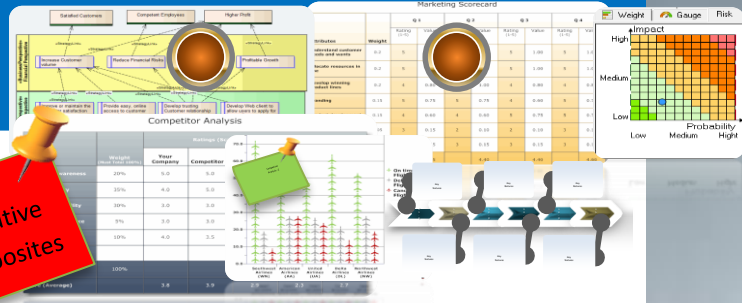
The Jobshop Framework	What Functionalities	How Processes/Flows	Where Physical Network	Who Resources	When Timing/Events	Why Business Rationale
EXECUTIVE PERSPECTIVE	A2FC06 Inventory Identification <ul style="list-style-type: none"> Customer Product Inventory Supplier Business Entities 	A2FC06 Process Identification <ul style="list-style-type: none"> Business Unit Business Product Business Process Business Location Model 	A2FC06 Distribution Identification <ul style="list-style-type: none"> Customer Network System Network Supplier Network Supplier Network 	A2FC06 Responsibility Identification <ul style="list-style-type: none"> DOO Business Operation Organization Unit Responsibility Organization chart Customer 	A2FC06 Timing Identification <ul style="list-style-type: none"> Business Cycle Business Cycle 	A2FC06 Motivation Identification <ul style="list-style-type: none"> Mission Goals New product dev Cost GenD
BUSINESS MANAGEMENT PERSPECTIVE	A2FC06 Inventory Definition <ul style="list-style-type: none"> Inventory Data Inventory Type Inventory Location Inventory Status Inventory Unit 	A2FC06 Process Definition <ul style="list-style-type: none"> Business Unit Business Product Business Process Business Location Model 	A2FC06 Distribution Definition <ul style="list-style-type: none"> Customer Network System Network Supplier Network Supplier Network 	A2FC06 Responsibility Definition <ul style="list-style-type: none"> DOO Business Operation Organization Unit Responsibility Organization chart Customer 	A2FC06 Timing Definition <ul style="list-style-type: none"> Business Cycle Business Cycle 	A2FC06 Motivation Definition <ul style="list-style-type: none"> Mission Goals New product dev Cost GenD
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Executive Composites

Business Composites

System Composites

Tech Composites



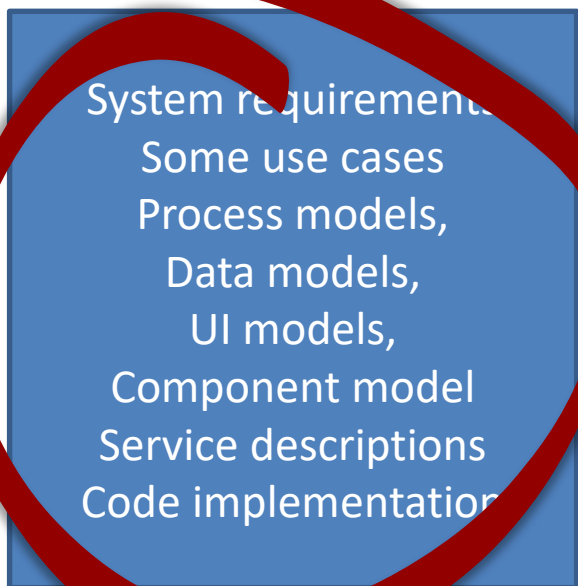
you can address multiple
opportunities

Create New Solutions



Step 1 - We apply anatomy driven methodology to create elements and composites

Current Architecture Models



New Architecture Models

The Zachman Framework	What Inventory Data	How Process Flow	Where Distribution Network	Who Actor/Role/Agent	When Temporal Logic	Why Motivation/Intention
EXECUTIVE PERSPECTIVE	<ul style="list-style-type: none"> 42FCels Inventory Identification 42FCel1 42FCel2 42FCel3 42FCel4 42FCel5 42FCel6 42FCel7 42FCel8 42FCel9 42FCel10 	<ul style="list-style-type: none"> 42FCels Process Identification 42FCel1 42FCel2 42FCel3 42FCel4 42FCel5 42FCel6 42FCel7 42FCel8 42FCel9 42FCel10 	<ul style="list-style-type: none"> 42FCels Distribution Identification 42FCel1 42FCel2 42FCel3 42FCel4 42FCel5 42FCel6 42FCel7 42FCel8 42FCel9 42FCel10 	<ul style="list-style-type: none"> 42FCels Responsibility Identification 42FCel1 42FCel2 42FCel3 42FCel4 42FCel5 42FCel6 42FCel7 42FCel8 42FCel9 42FCel10 	<ul style="list-style-type: none"> 42FCels Timing Identification 42FCel1 42FCel2 42FCel3 42FCel4 42FCel5 42FCel6 42FCel7 42FCel8 42FCel9 42FCel10 	<ul style="list-style-type: none"> 42FCels Motivation Identification 42FCel1 42FCel2 42FCel3 42FCel4 42FCel5 42FCel6 42FCel7 42FCel8 42FCel9 42FCel10
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Step 2 – Reorganize existing artifacts for the next solution

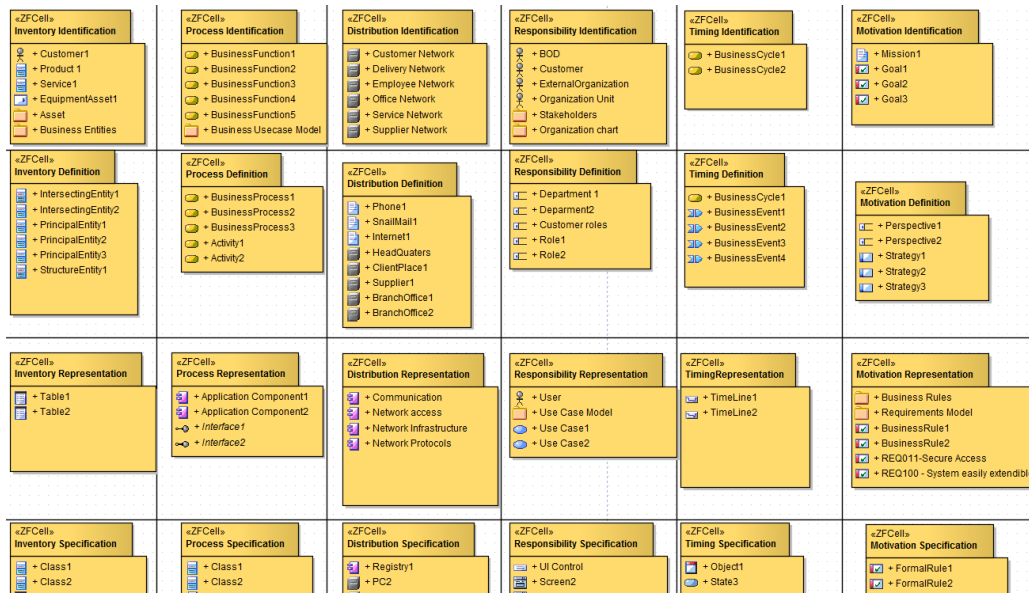
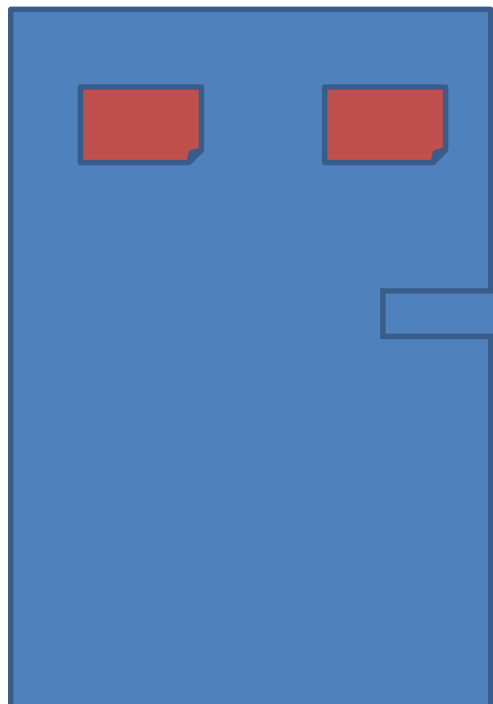
: SOA Implementation

Project 1

: SOA Implementation

Project 2

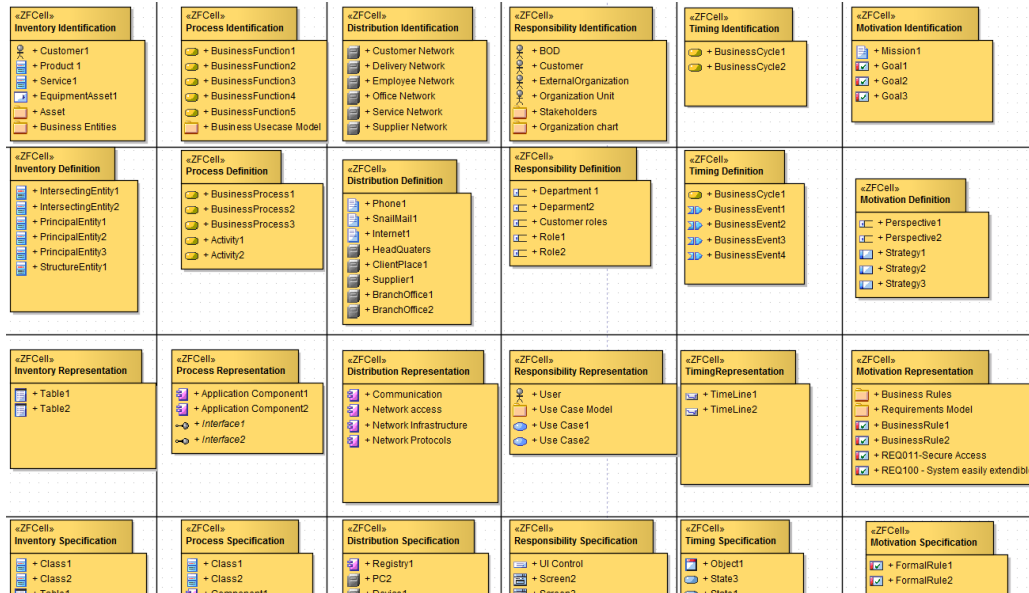
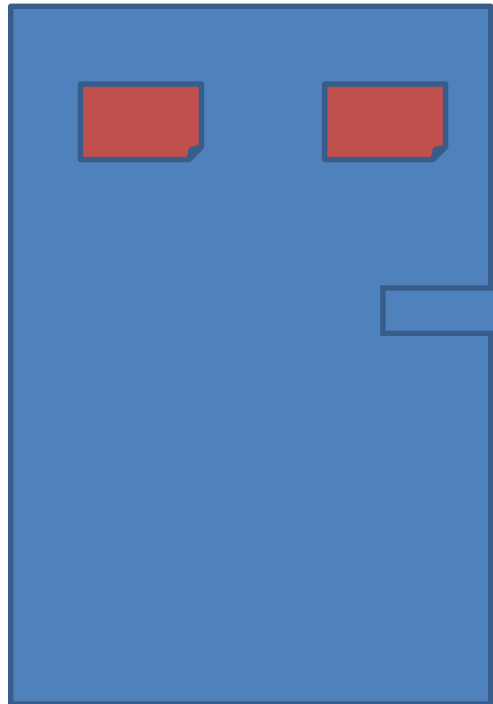
Cloud, SaaS solution



New initiatives– Reorganize existing artifacts along with incremental new elements, we can address new solutions

: SOA Implementation

: SOA Implementation

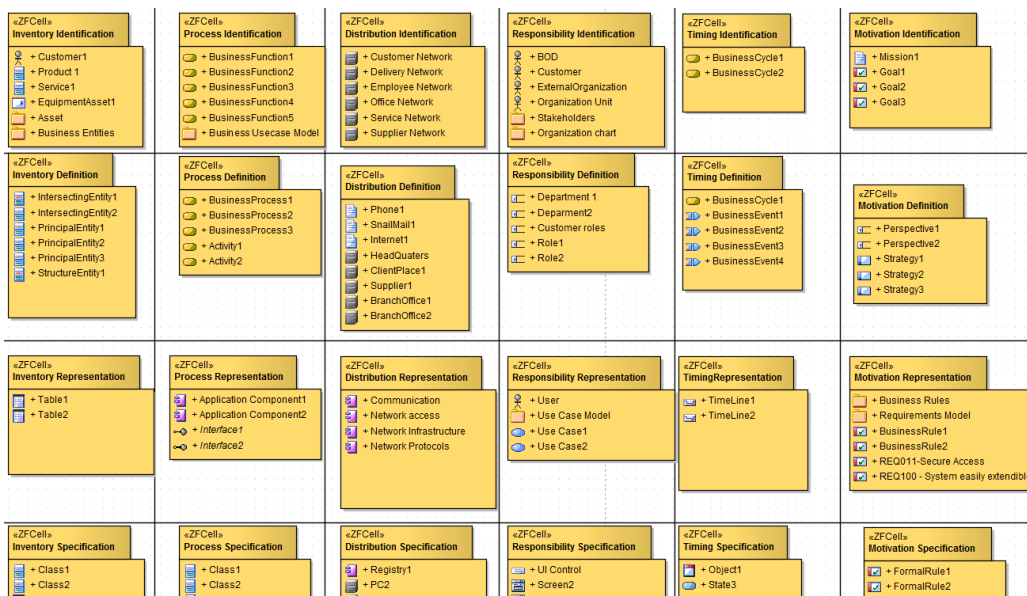


- Project 2
Cloud, SaaS solution
- Project 3
Mobile App
- Project 4
IoT enabled ATMs

New initiatives– Reorganize existing artifacts along with incremental new elements, we can address new solutions

: SOA Implementation

: SOA Implementation



Project 2

Cloud, SaaS solution

Project 3

Mobile App

Project 4

IoT enabled ATMs

Project 4

CAPS - Collection Activities Processing System

Project 5

Digital Interactive Facilities

Project 6

Private Banking (PB) Risk systems

Project 7

Risk Design Authority (Risk DA)

Project 8

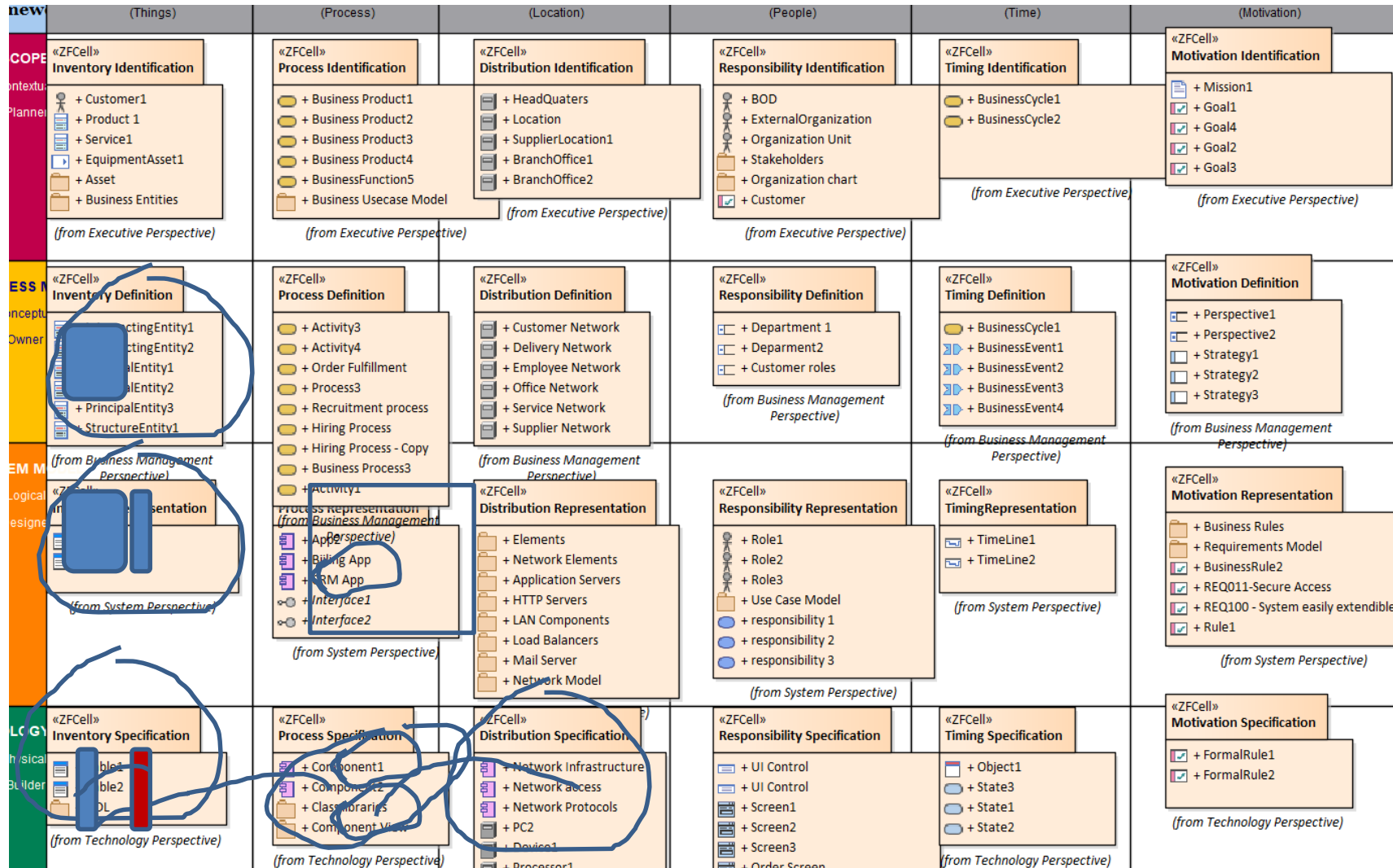
Application Simplification
 moves from 220 to 60 core systems

Case study – Supporting multi-channel access

Web, Mobile App, Smart Watch
using the same logical data model



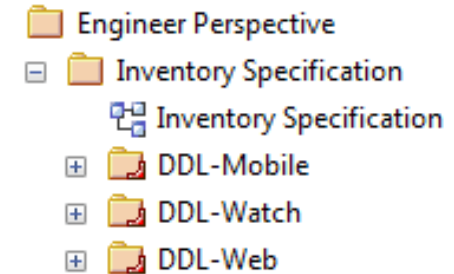
How to use Product Anatomy (IT) for supporting variations, changes and managing complexity



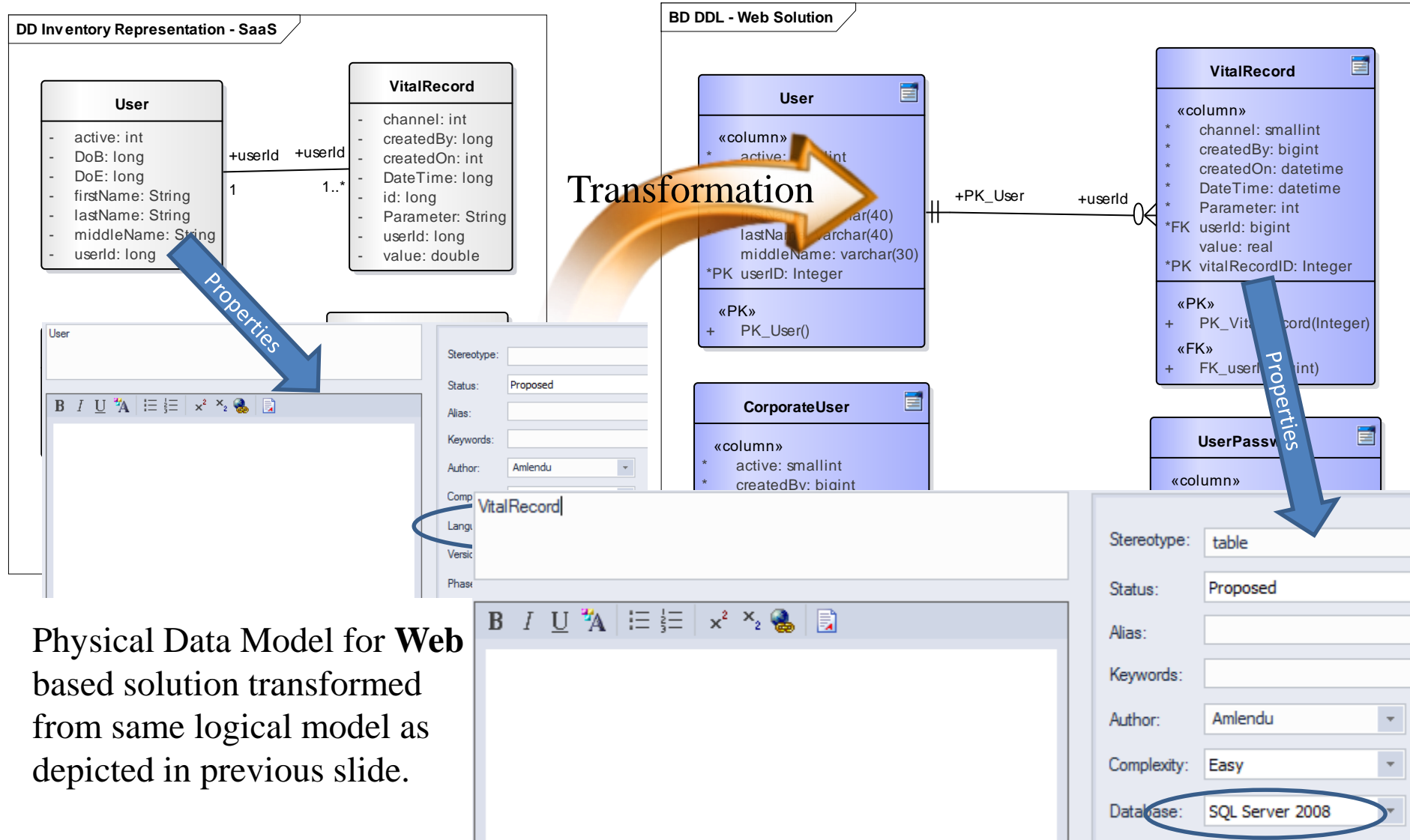
DDL Transformation from Logical Model

- After transformation package depicts in the picture

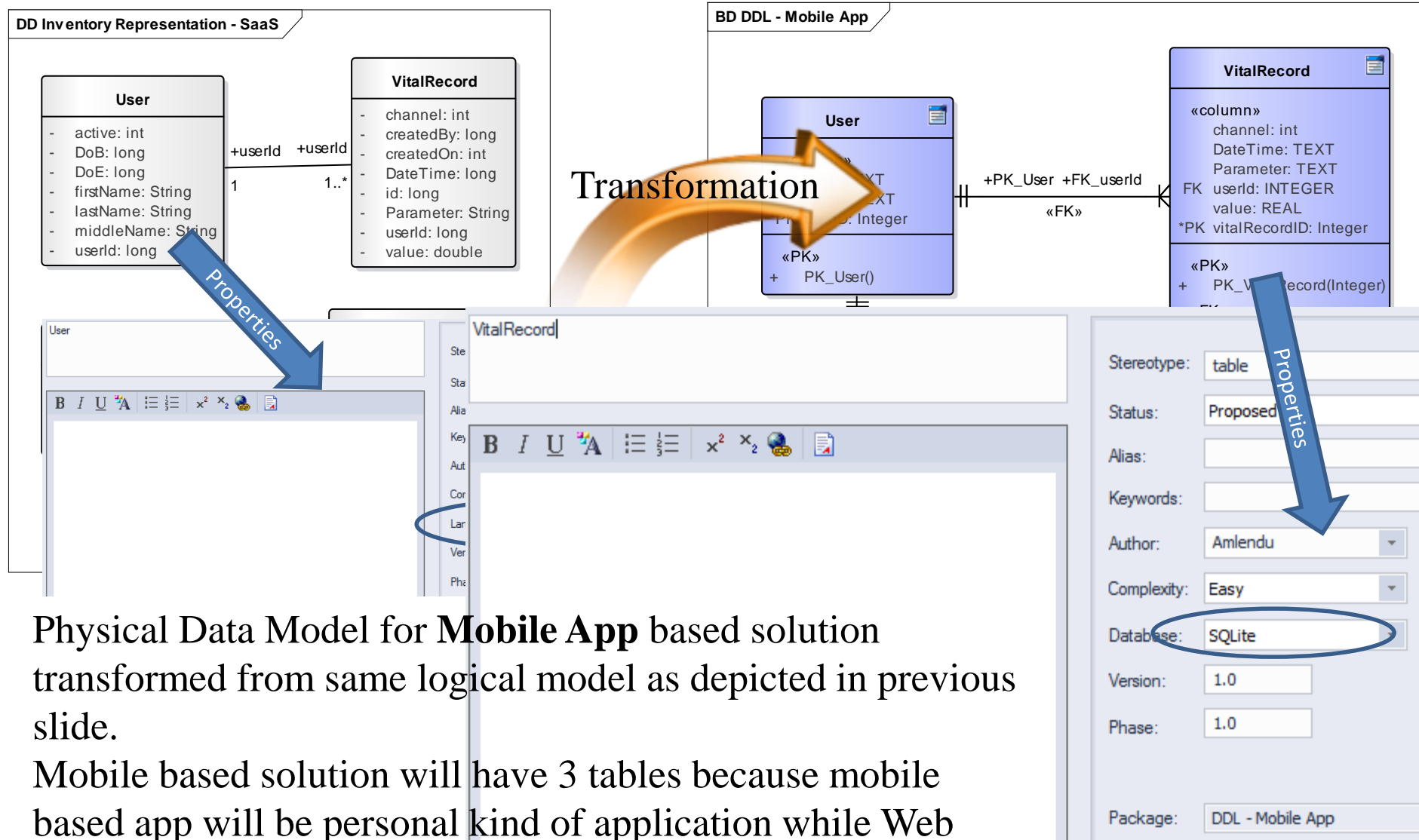
- DDL-Mobile
- DDL-Watch
- DDL-Web



- Currently transformation script has following limitation
 - Each type of DDL requires separate transformation process
 - DDL generates for default Database and that is not mentioned in properties , require manual change
 - Attribute types does not replace in physical model and it is remain same as logical model, require manual change



Physical Data Model for **Web** based solution transformed from same logical model as depicted in previous slide.



Physical Data Model for **Mobile App** based solution transformed from same logical model as depicted in previous slide.

Mobile based solution will have 3 tables because mobile based app will be personal kind of application while Web Based solution will be personal as well as corporate.