



YAZILIM TEKNOLOJİLERİ ARAŞTIRMA ENSTİTÜSÜ

DİJİTAL DEVLET VE KURUMSAL MİMARİ

31 Mayıs 2016, Salı
Wyndham Ankara Oteli

Enabling Public Value in the Age of the Customer

Abdallah El Kadi

Ankara, May 31st, 2016



Innovative technology consulting for business

Agenda



**The Customer
Age**



**The Digital
Context**



**The
Transformation
Challenge**

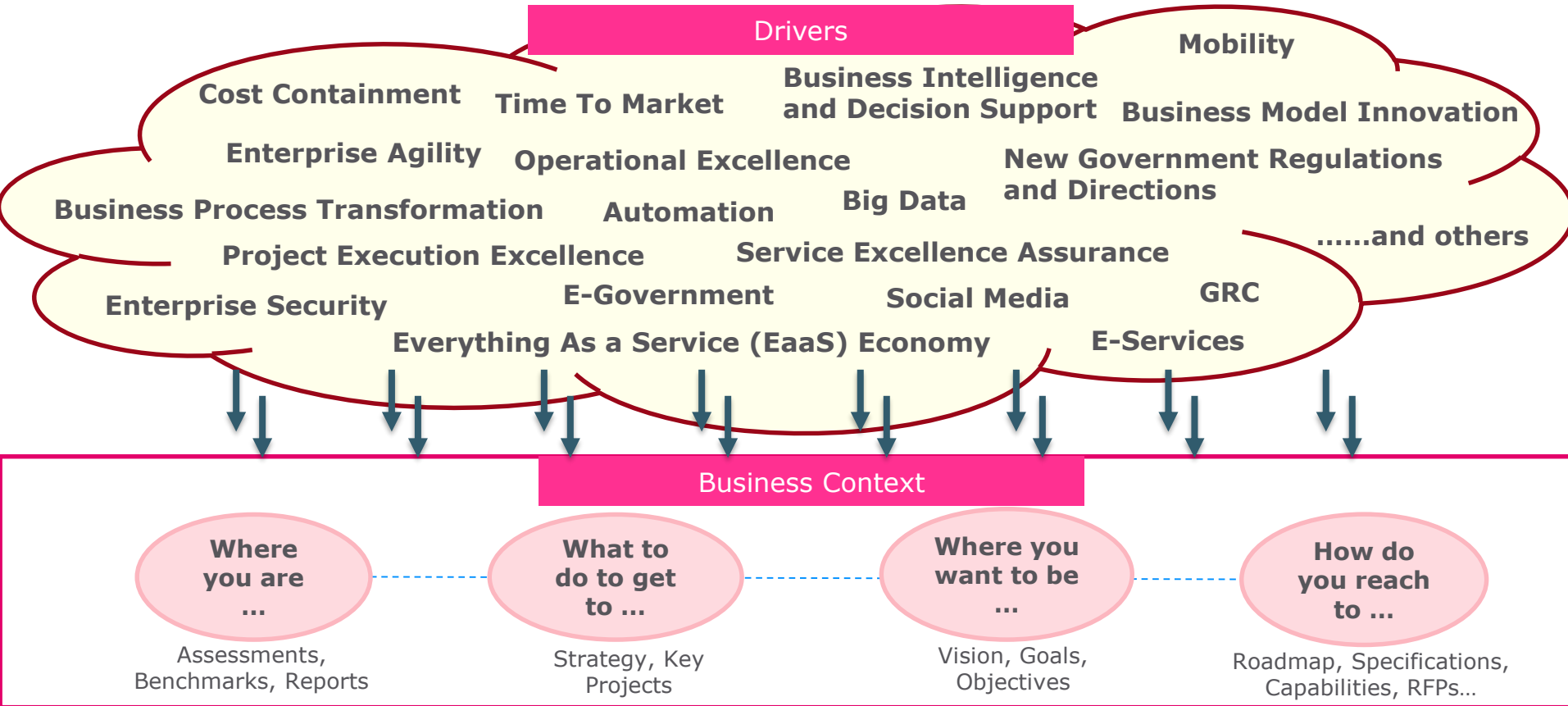


**Enterprise
Architecture
Enabled
Transformation**



Q&A

Business Transformation Context



EA practice is a tool to manage this entire journey

Business Transformation Evolution

Industrial Age



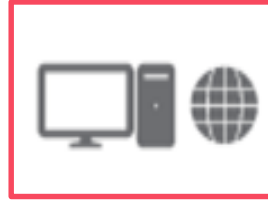
Mass manufacturing capacity makes industrial powerhouses successful

Distribution Age



Global connections and transportation systems make distribution key

Information Age

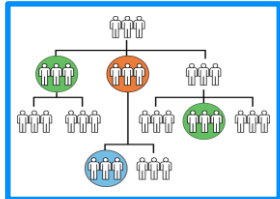
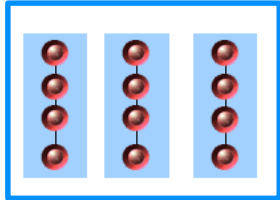


Connected networks and systems mean those that control information flow dominate

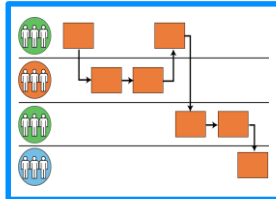
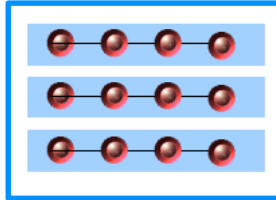
Customer Age



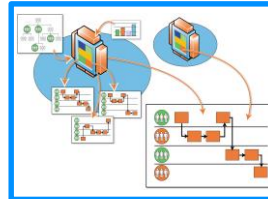
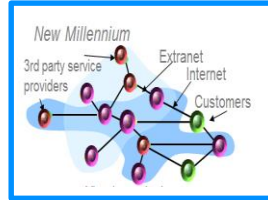
Empowered buyers demand a new level of customer obsession



Restructuring
1900 to 1980s



Process Re-Engineering
1980s to 1990s



Capability Re-Engineering
1990s to 2010



Value Re-Engineering
2010 to NOW

Key Trends Redefining the Competitive Landscape



Personalized World

Understanding and revamping the total customer experience

As everyday objects and experiences become digitized, new frontiers of personalized services centered on the individual opens up



Outcome Economy

Aggregating evolving interconnected technology capabilities to drive results

The outcome economy re-shapes long held notions of how superior products and services are defined



Ecosystem Re-Definition

Leveraging new disruptive technologies to redefine customer outcome

A new wave of disruptive technologies is changing the business ecosystem By altering the customer's behavior and needs



Data Velocity

Expending enterprise intelligence to predict & influence customer preferences

The new data domains resulting from the digitization of the entire customer journey is redefining the meaning of enterprise intelligence



Virtual Workforce

Redefining the human – machine relationship to extend value proposition

As the digital revolution gain momentum, human and machines need to collaborate more effectively making organizations recognize both as critical team members

Key paradigm shifts redefining our decisions



Efficiency

The focus of organizations is no longer on its own efficiency but rather on outcome of its efficiency (external value)



System of Records

The focus of automation has extended beyond the operational boundaries of the organization to address the interaction with the



Solutions

Technology adoption shifted from vertical solution thinking to horizontal platform thinking to enable innovation and support evolution



Value



System of Engagement

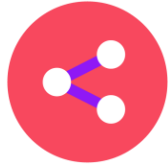


Platforms

Agenda



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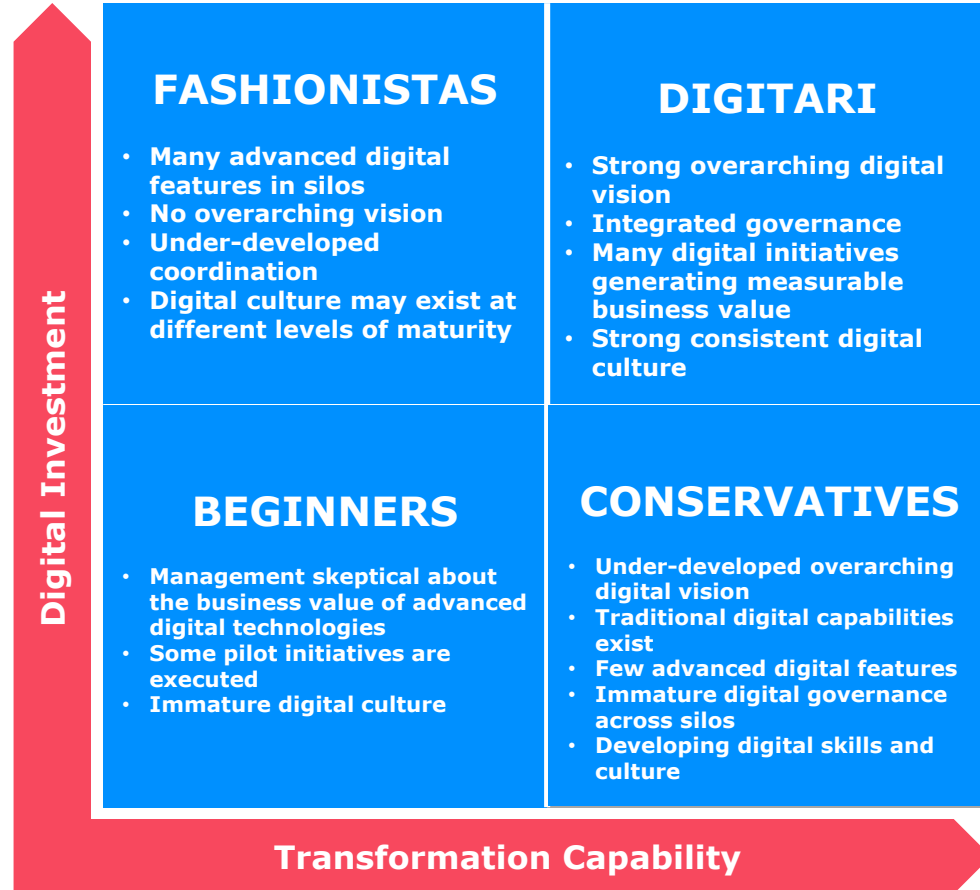
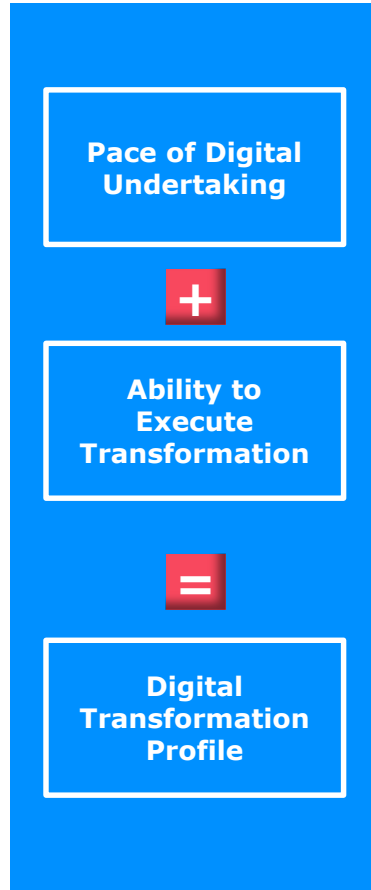


**Enterprise
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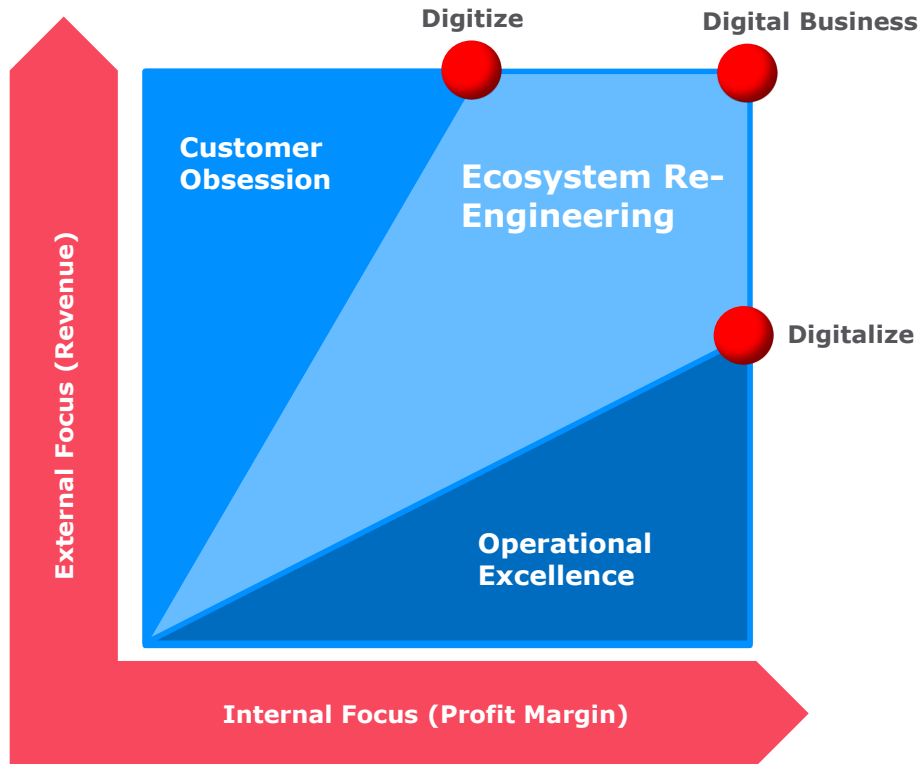


Q&A

Digital Transformation Profiles



Digital Transformation Themes



Digital Themes

Digitize

Applying technology to domains that enable enhancing the overall customer reach and experience around existing products and services

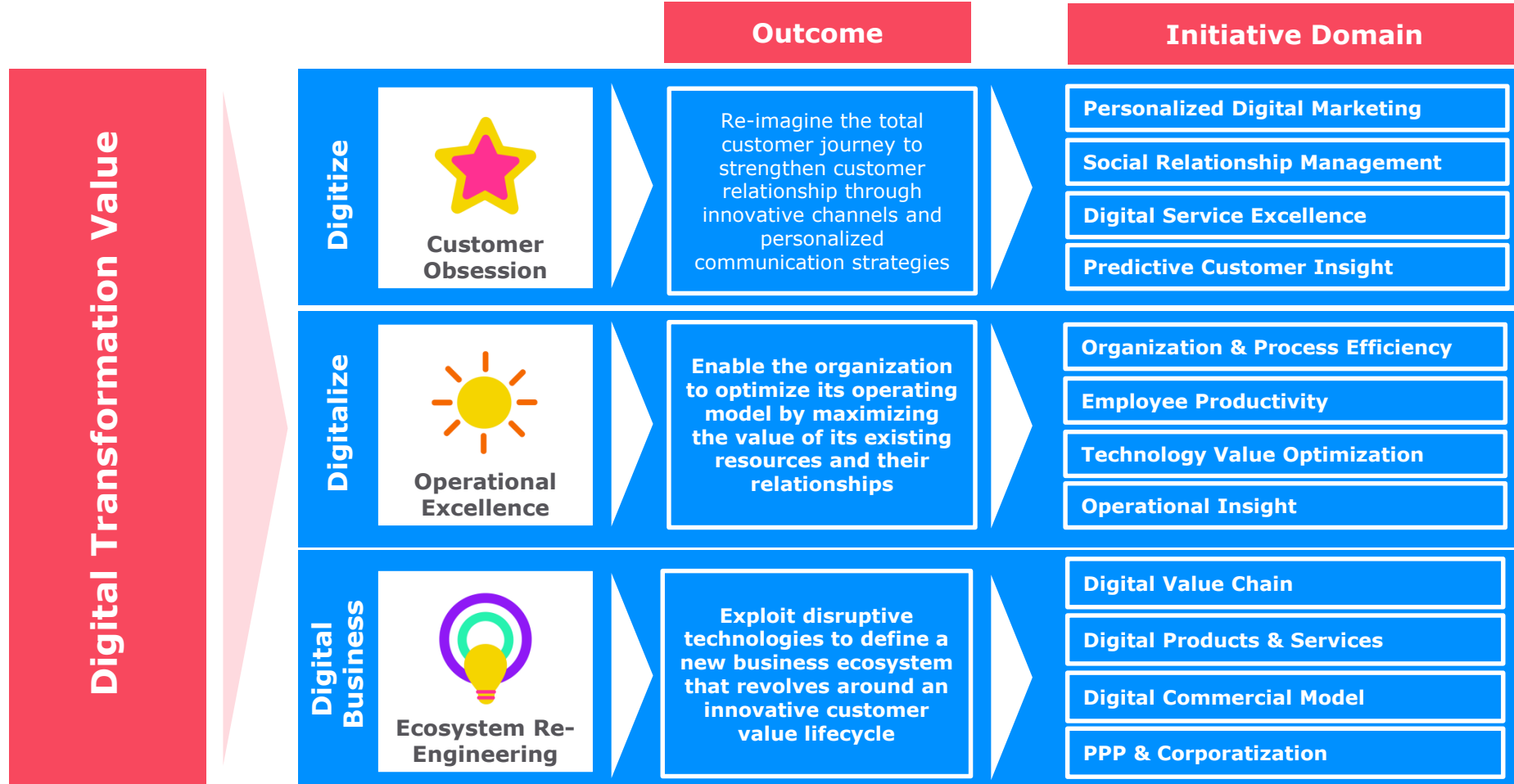
Digitalize

Implementing digital technologies that enable process efficiency, drive employee productivity and maximize technology value

Digital Business

Adopting digital technologies to create revenue and results via innovative strategies, products, processes and experiences by redefining the business ecosystem

Digital Transformation Value Model



Innovation Types

Configuration	Profit Model	Network	Structure	Process
	How to make money	How to connect with others to create value	How to align talent and assets	How to use superior methods to do your work
Offering	Product Performance	Product System		
	How to deploy distinguished features and functionality	How to create complementary products and services		
Experience	Service	Channel	Brand	Customer Engagement
	How to support and enhance the value of your offering	How to deliver your offering to your customers and users	How to represent your offering and value to customer	How to achieve faster and continuous interactions

Disruptive Technologies

Social Media



Social media and collaboration technologies enable new ways and drive exceptions of interacting, personalization and building relationships within and beyond the organization

Mobile



The uninterrupted trend towards using mobile devices impacts all areas of business and personal live by transforming how people interact, consume information and services, collaborate and work

Cloud



The possibility to virtualize and consume infrastructure, platforms and applications as a service enables new levels of scalability, flexibility and responsiveness

Big Data Analytics



Analytical methods and access to the right data enable the generation of new insights and decision-rich information in real time. Big Data approaches allow to make use of the rapidly increasing amount of data from multiple sources

Internet of Things



Connected devices of all kinds and cheap sensors integrated nearly everywhere constantly create large amounts of data that provide context specific understanding that can change the way products, services and messages are exchanged

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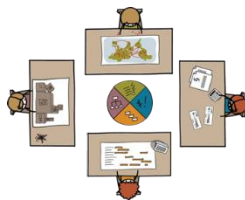
The story of transformation in the digital age

What's the **pain?**



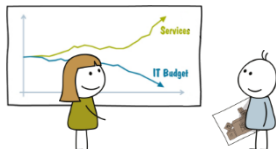
Constant change puts any transformation at risk.

What's the **plan?**



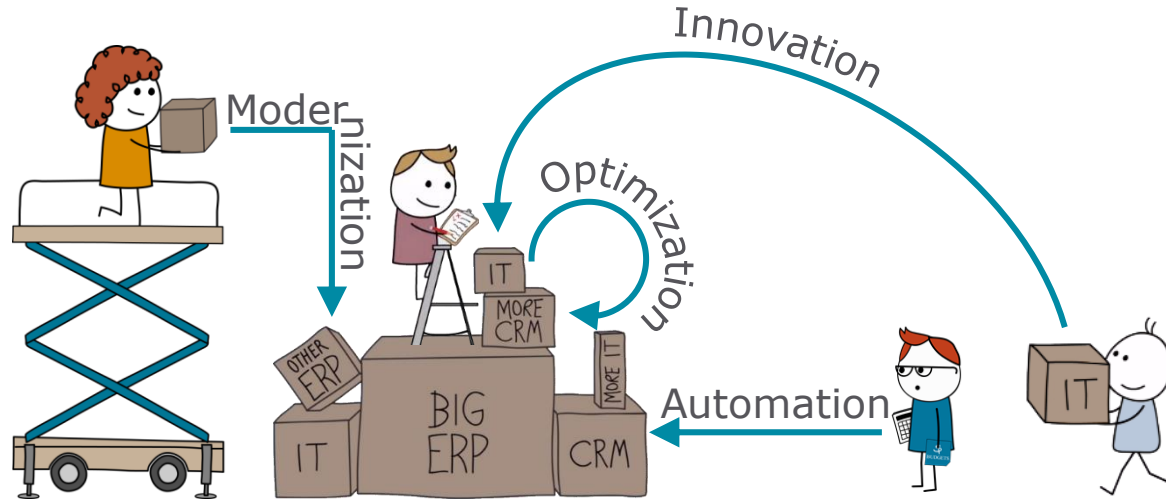
Make portfolio management a **collaborative practice**.

What's the **gain?**

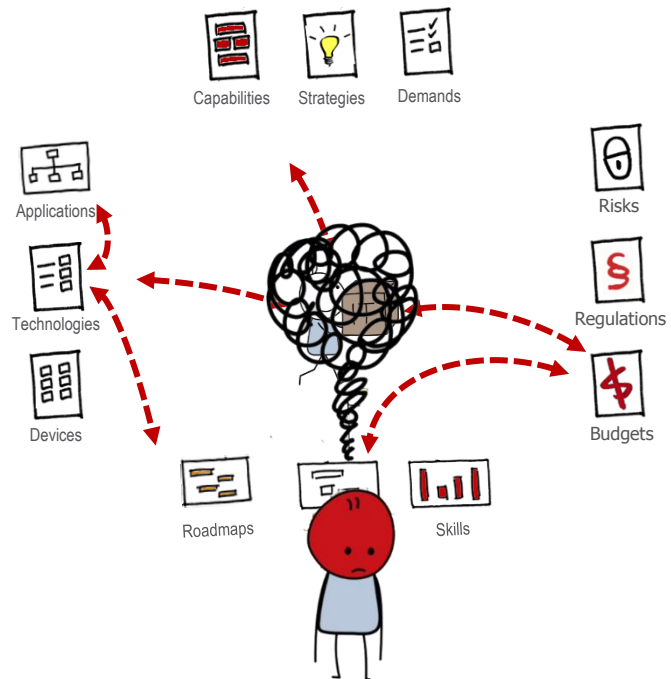


Effective transformation in a dynamic environment.

Many Drivers for Change...



Do you know all dependencies to consider?



Change – if not directed – will slow down your project and your business!

Project collisions
not resolved
due to
isolated views

Project failures
caused by
technological
changes

Increased
costs and risks
driven by
complexity

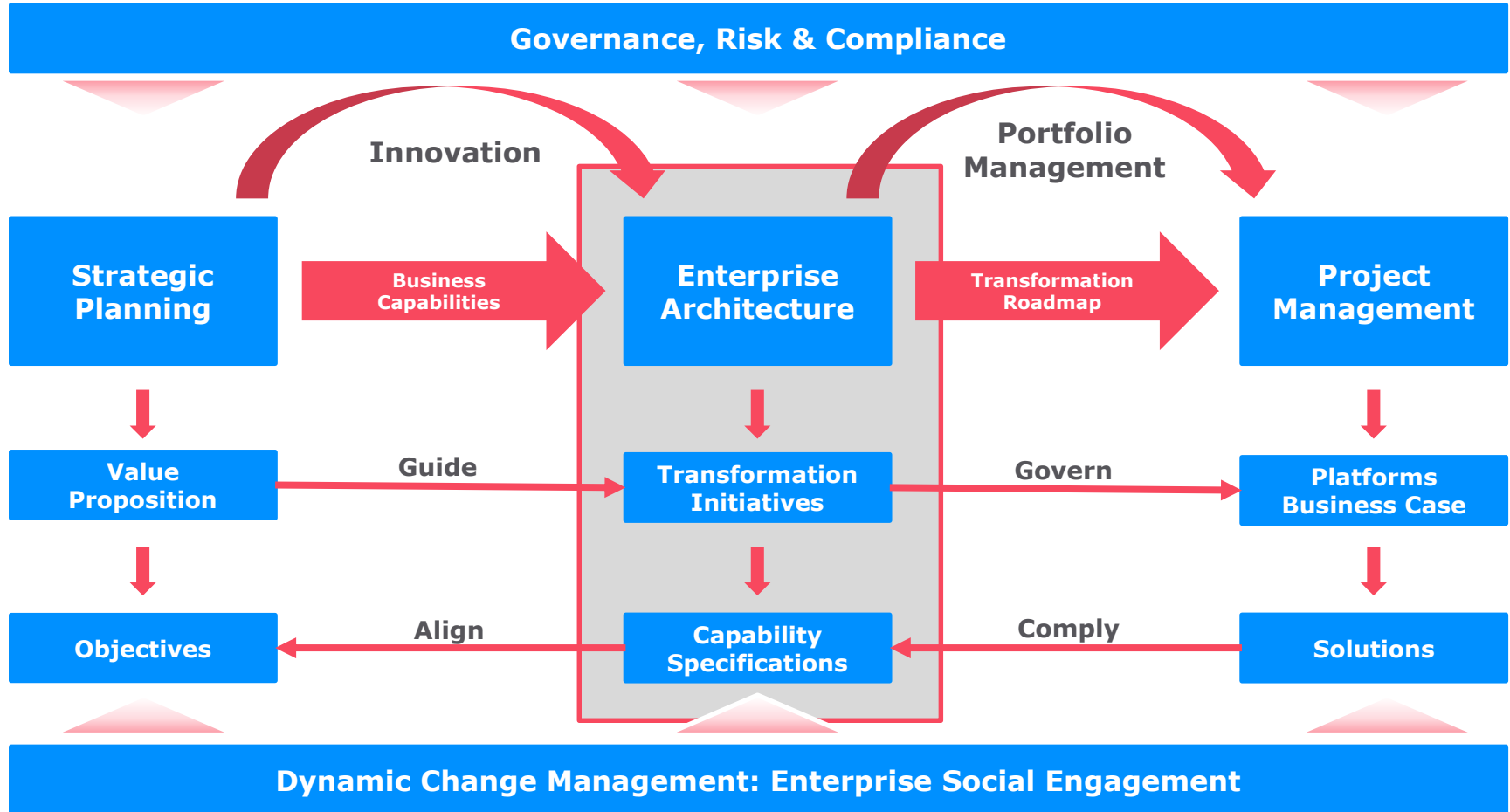
Double effort
caused by
similar demands

Redundancies
created
by unaligned
projects

Limited
reusability
due to
lack of insight



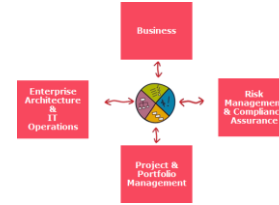
The solution : Transformation Management Office



Improved transparency leads to ...



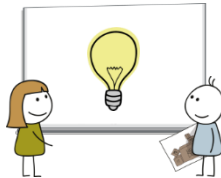
... lower
collision potential



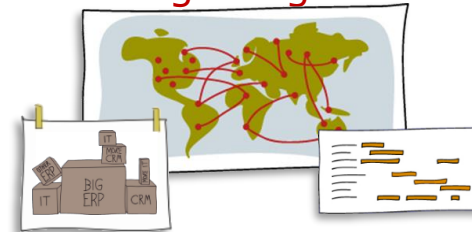
... informed
decision making



... more
budget for innovation



... better
strategic alignment



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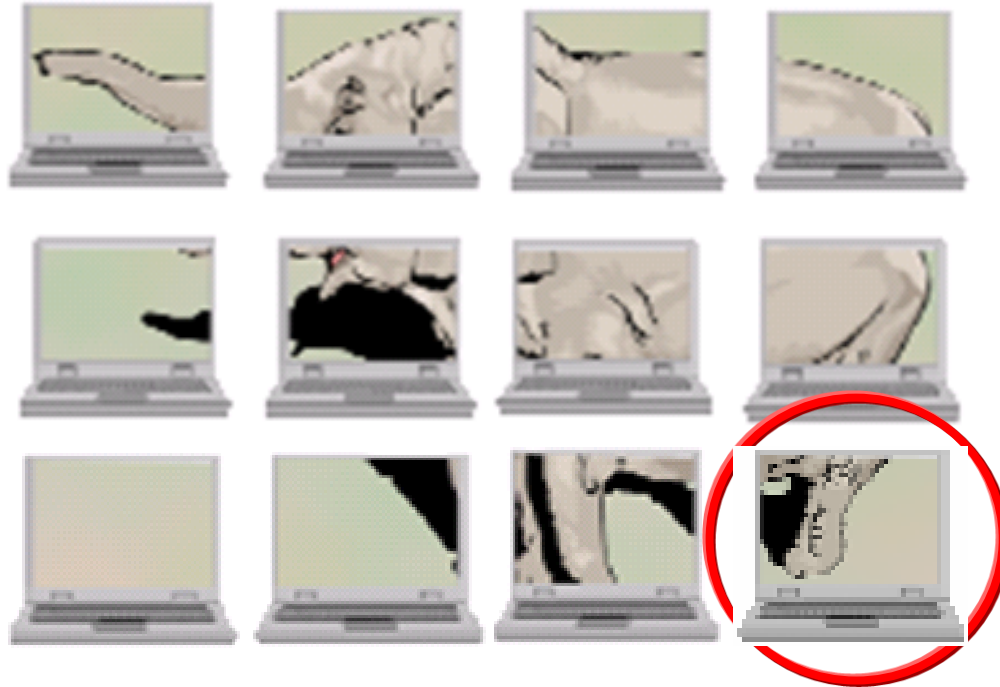


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Q&A

Enterprise Architecture Concept

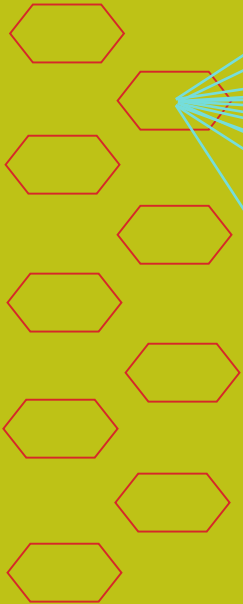


In order to pro-actively adapt to change in the short term while building a cohesive & integrated Architecture in the long term, you need to see the BIG PICTURE of the WHOLE to improve planning while having the capability to ZOOM into the DETAILS of the PART to accelerate implementation

Enterprise Strategies & Direction



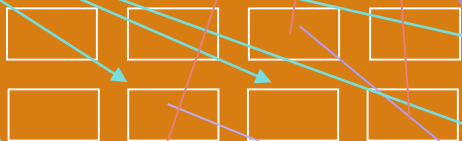
Projects & Initiatives



Business Processes & Services



Applications



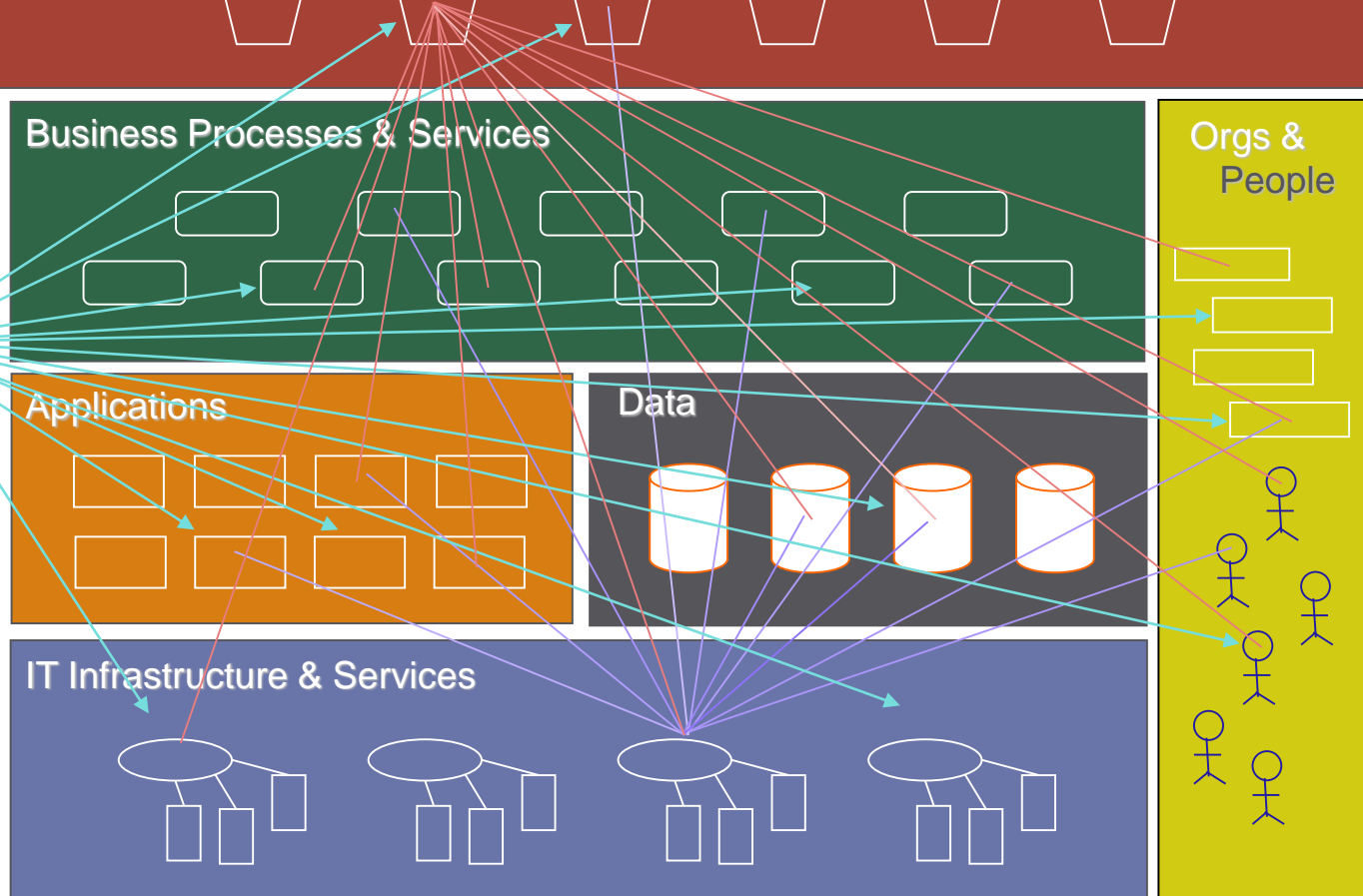
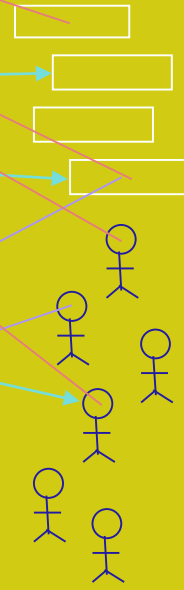
Data



IT Infrastructure & Services



Orgs & People



Enterprise Architecture Perspectives



Salesperson



Plumber

Electrician



Viewpoint

Viewpoint

Viewpoint

Viewpoint





Plan



Drives



Executed by

Strategic Goal	Strategic Objective	Strategic Initiative	Strategic Measure
Strategic Goal 1	Strategic Objective 1.1	Strategic Initiative 1.1.1	Strategic Measure 1.1.1.1
	Strategic Objective 1.2	Strategic Initiative 1.1.2	Strategic Measure 1.1.2.1
	Strategic Objective 1.3	Strategic Initiative 1.1.3	Strategic Measure 1.1.3.1
Strategic Goal 2	Strategic Objective 2.1	Strategic Initiative 2.1.1	Strategic Measure 2.1.1.1
	Strategic Objective 2.2	Strategic Initiative 2.1.2	Strategic Measure 2.1.2.1
	Strategic Objective 2.3	Strategic Initiative 2.1.3	Strategic Measure 2.1.3.1

Strategic Objectives

Executed through

Strategic Objective	Initiative A	Initiative B	Initiative C	Initiative D
Strategic Objective 1	20%			
Strategic Objective 2		15%	10%	
Strategic Objective 3			55%	20%
Strategic Objective 4	10%	20%	10%	

Initiatives



Manage

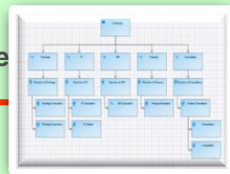
Strategic Objective	Activity A	Activity B	Activity C	Activity D
Strategic Objective 1	X			
Strategic Objective 2		X	X	
Strategic Objective 3			X	X
Strategic Objective 4	X	X	X	

Policies

Process Group	Process Group Desc.	Owner
Process Group A	Desc PG A	Org. Unit A
Process Group B	Desc PG B	Org. Unit A
Process Group C	Desc PG C	Org. Unit B
Process Group D	Desc PG D	Org. Unit C

Process Groups

Responsible



To overcome Or take advantage of

Challenges	Description	Strategic Goal
Challenge A	Desc Challenge A	Strategic Goal A
Challenge B	Desc Challenge B	Strategic Goal A
Challenge C	Desc Challenge C	Strategic Goal B
Challenge D	Desc Challenge D	Strategic Goal C

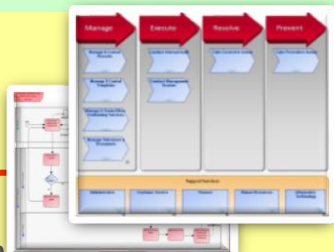
Challenges & Opportunities



Execute



Abide by



Use

Used by

Activity	Role A	Role B	Role C	Role D
Activity 1	X	A	C	
Activity 2		B/A	I	
Activity 3	I	C	C	X
Activity 4	C		R/A	

Roles

Belong to

Based on

Role	Responsibility	Step A	Step B	Step C	Step D
Role 1		X	X	X	
Role 2				X	X
Role 3			X		
Role 4		X		X	

Responsibilities



Enable

Use

Run on

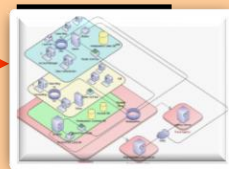


Run on

Application	Application A	Application B	Application C	Application D
Server 1	X	X	X	
Server 2			X	X
Server 3		X		
Server 4	X		X	

Hardware

Linked to



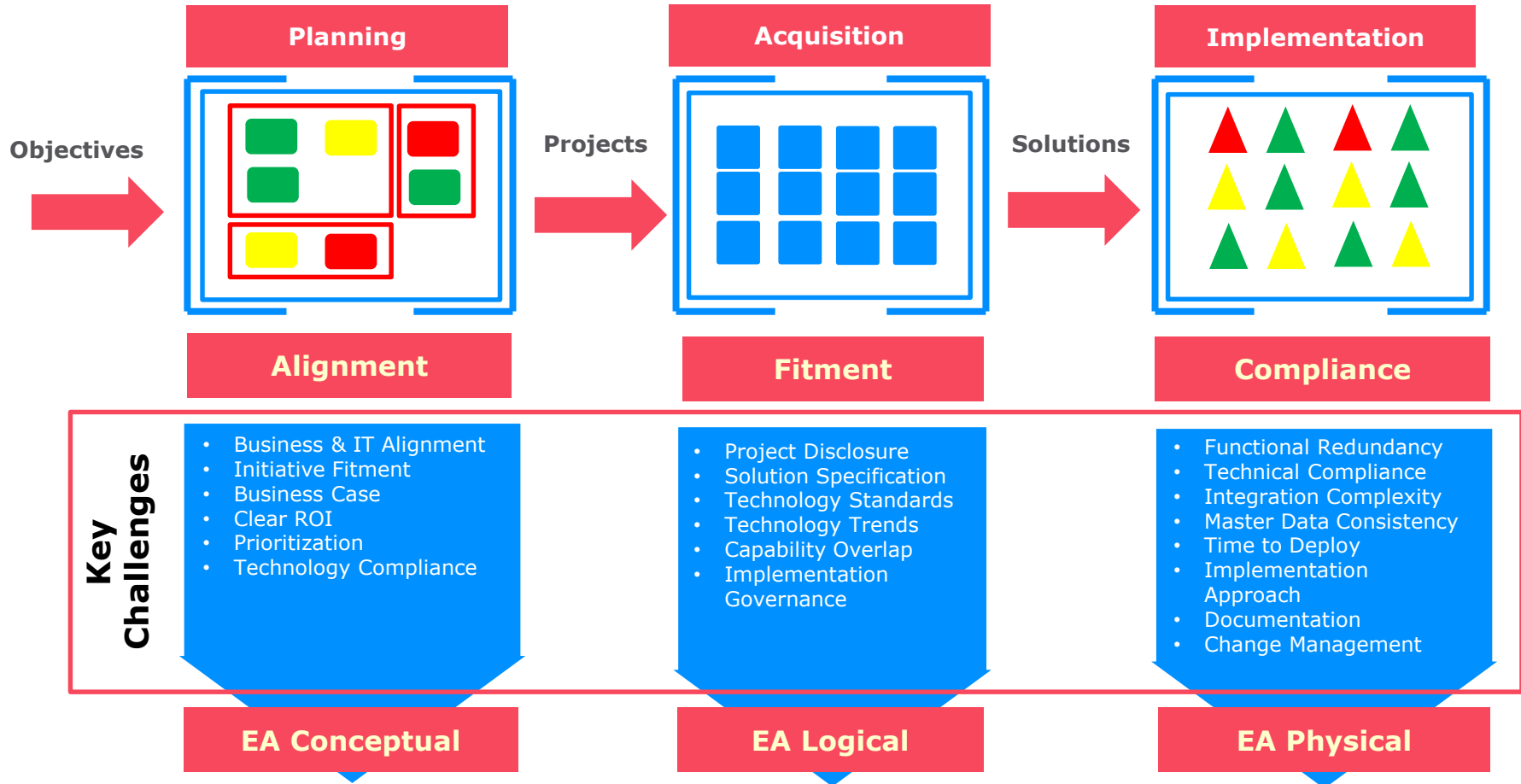
Uses

Uses

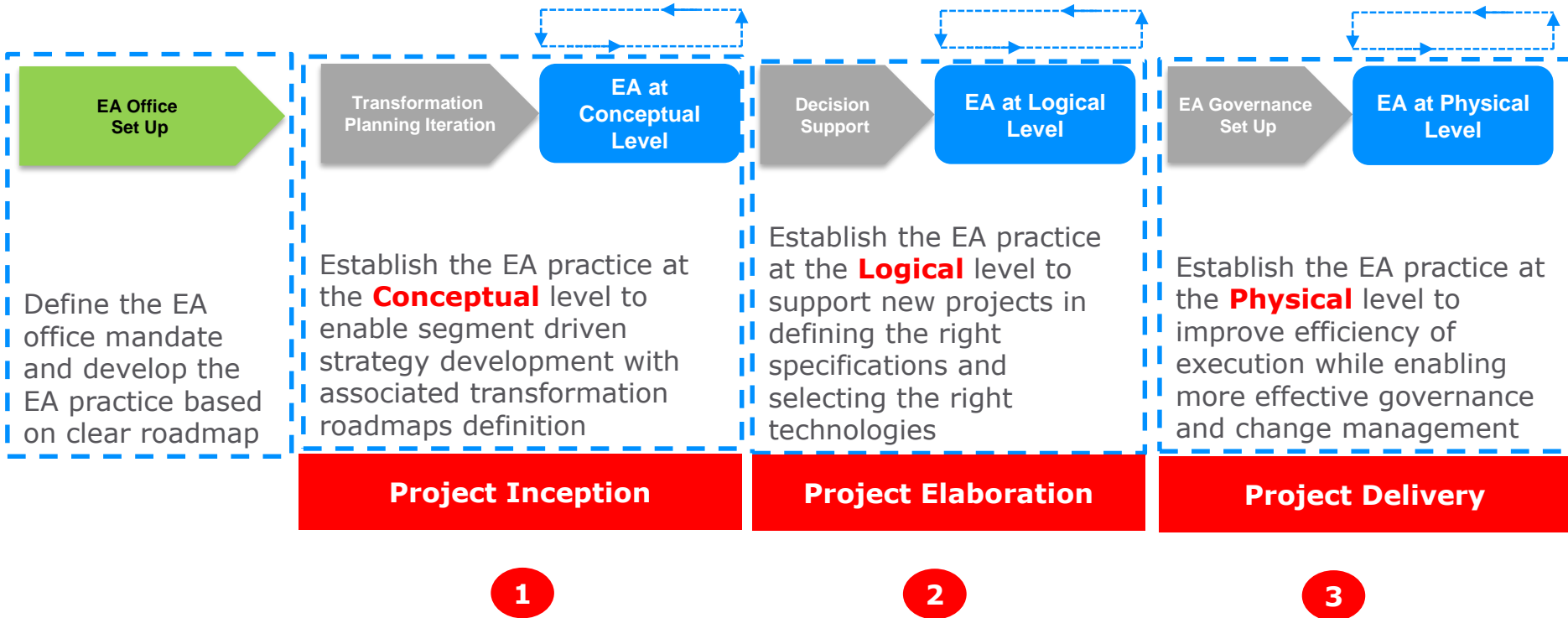
Technology	Component	Comp A	Comp B	Comp C	Comp D
Technology 1		X	X	X	
Technology 2				X	X
Technology 3			X		
Technology 4		X		X	

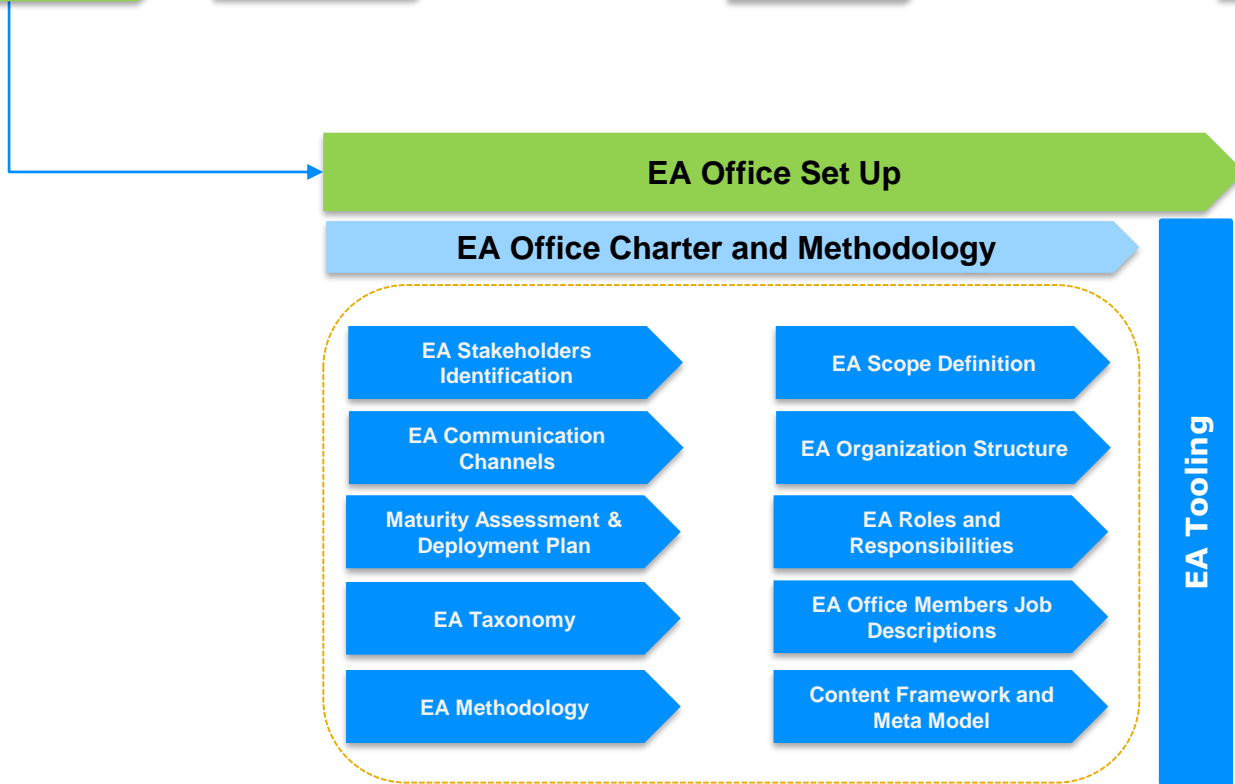
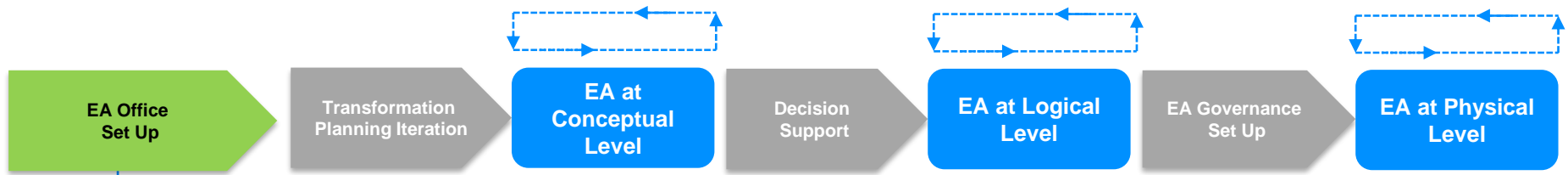
Technology

Business Transformation Lifecycle



Enterprise Architecture Implementation Roadmap

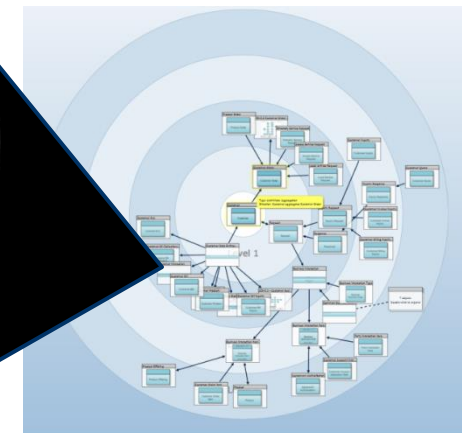
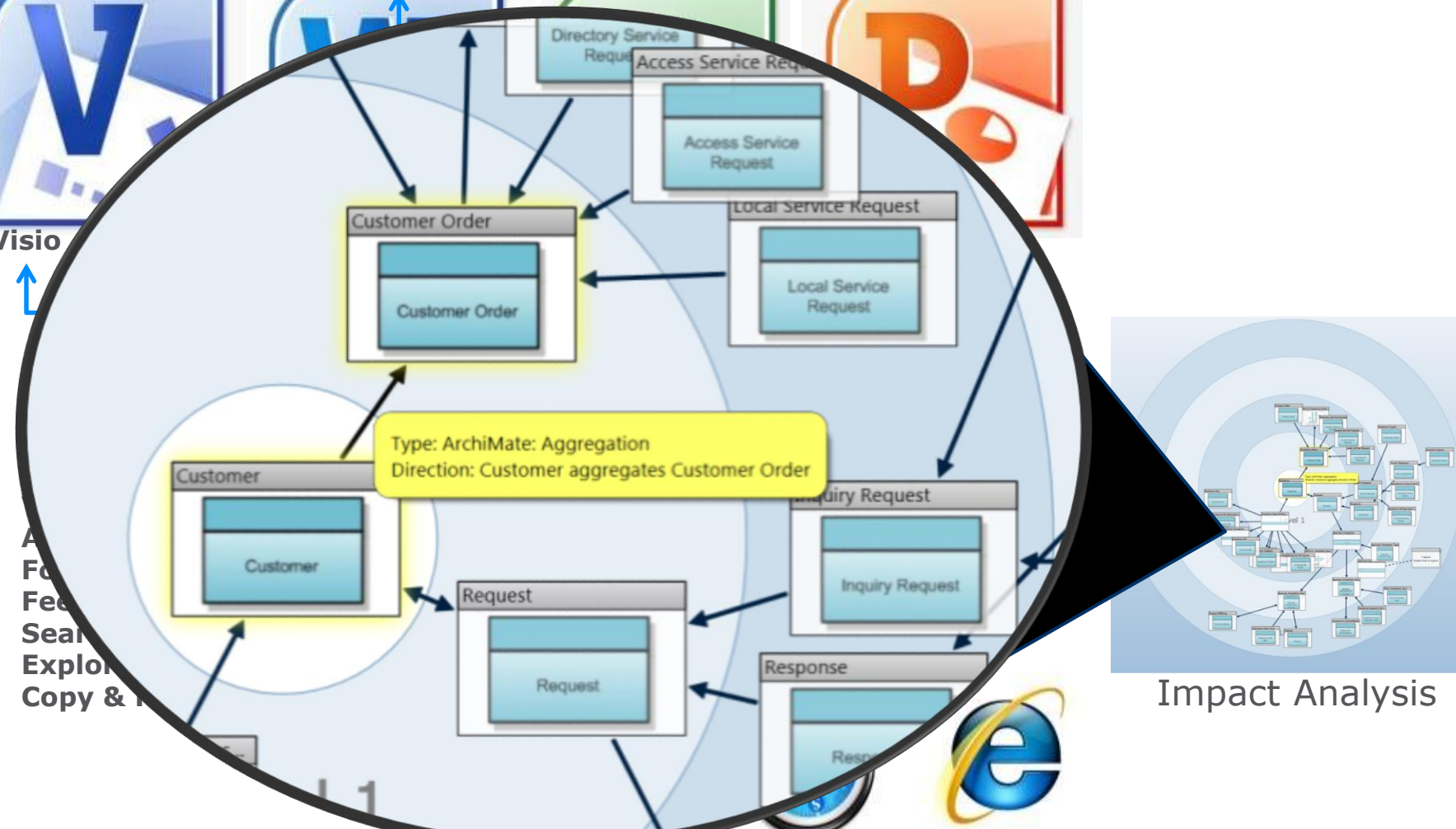






Visio
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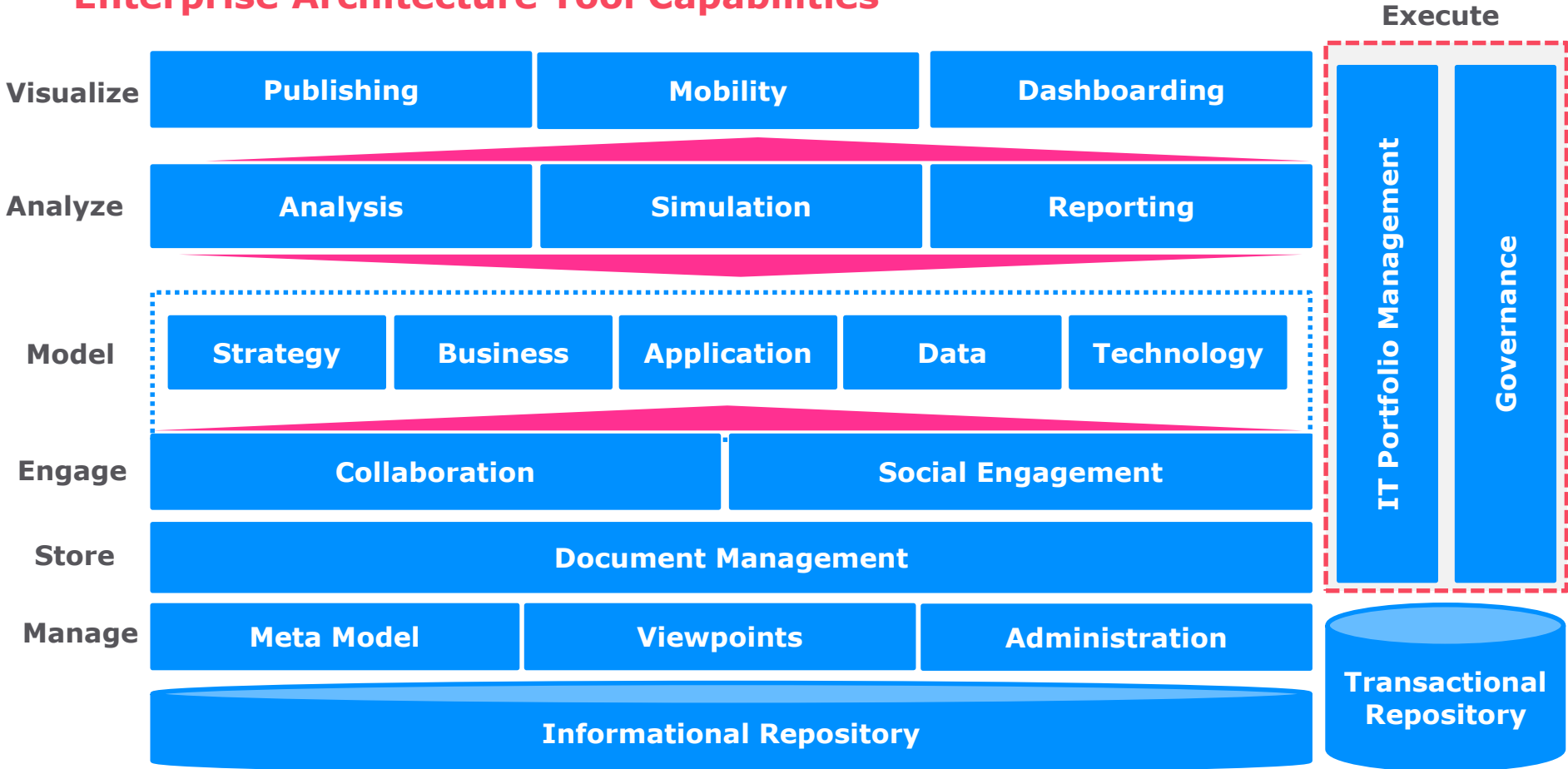
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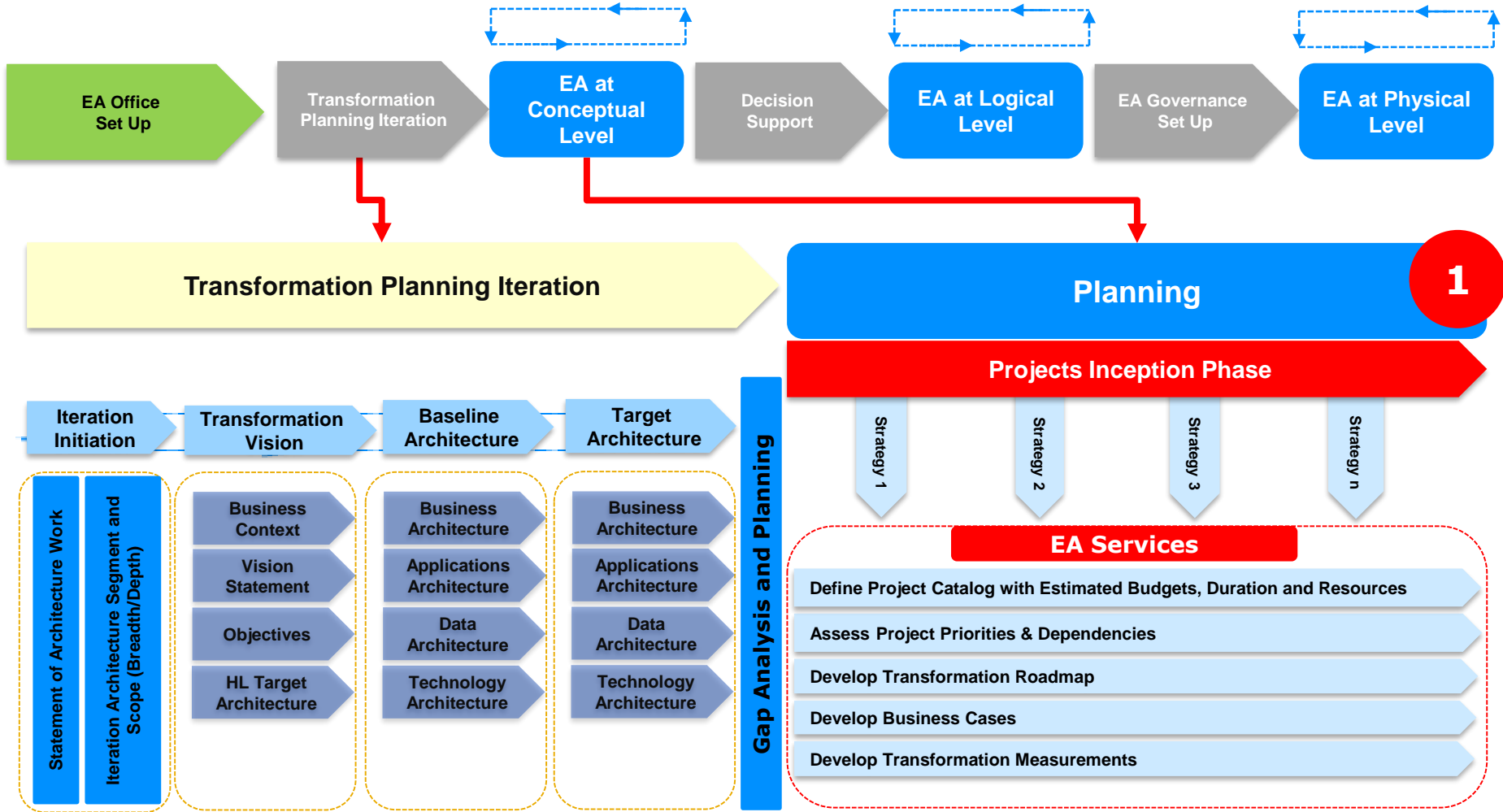


Impact Analysis



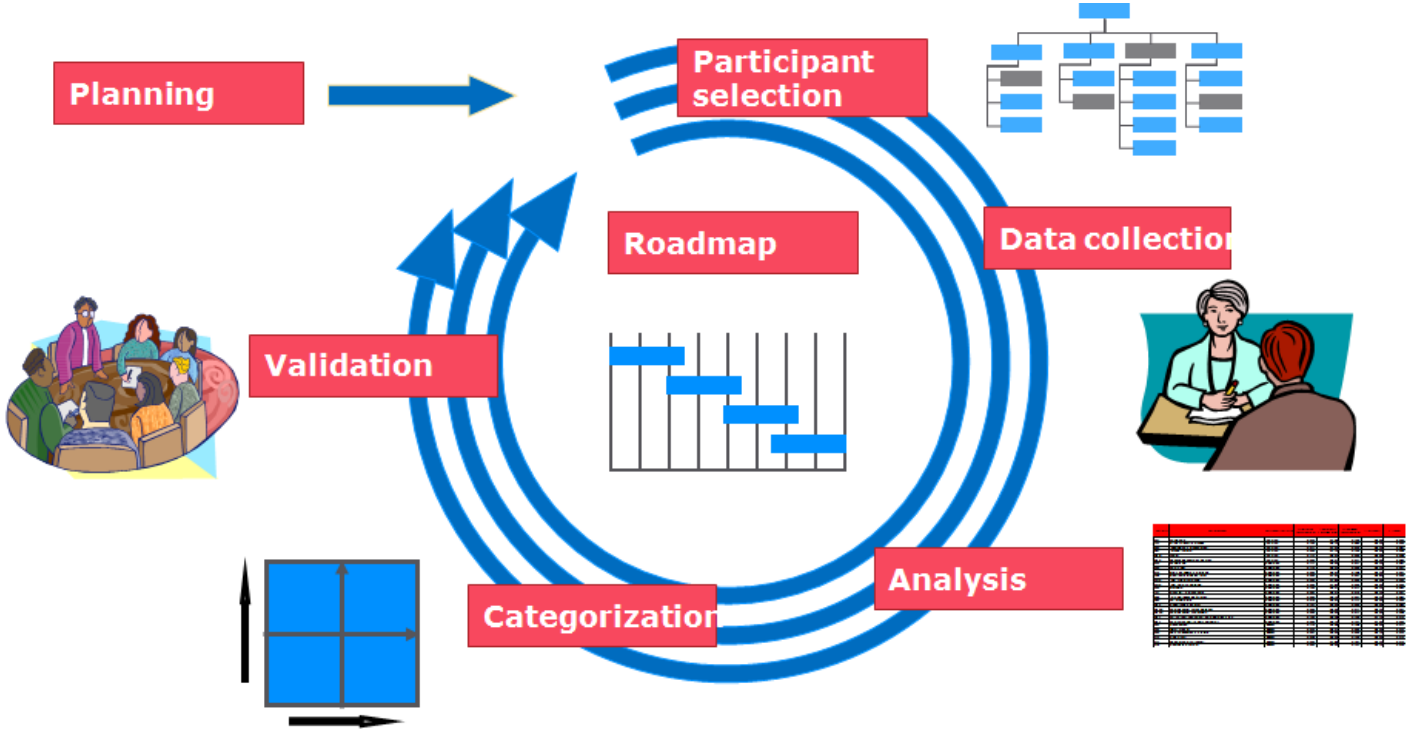
Enterprise Architecture Tool Capabilities





EA Conceptual Lifecycle

1



- Sustain
- Decommission
- Remediate
- Re-Platform
- Replace
- Consolidate
- Enhance/ Expand
- Review Contract

EA Implementations Case Studies

Planning

Oil & Gas

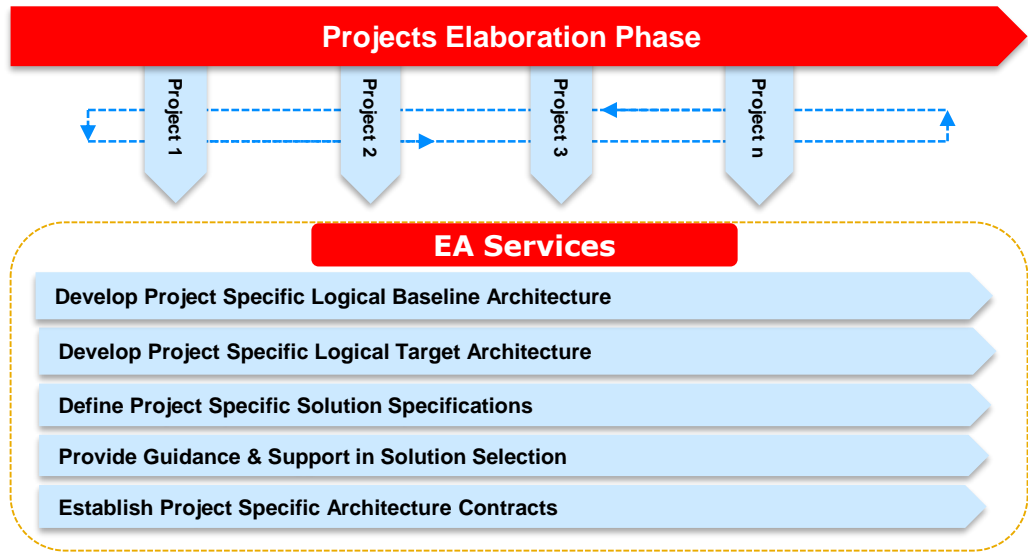
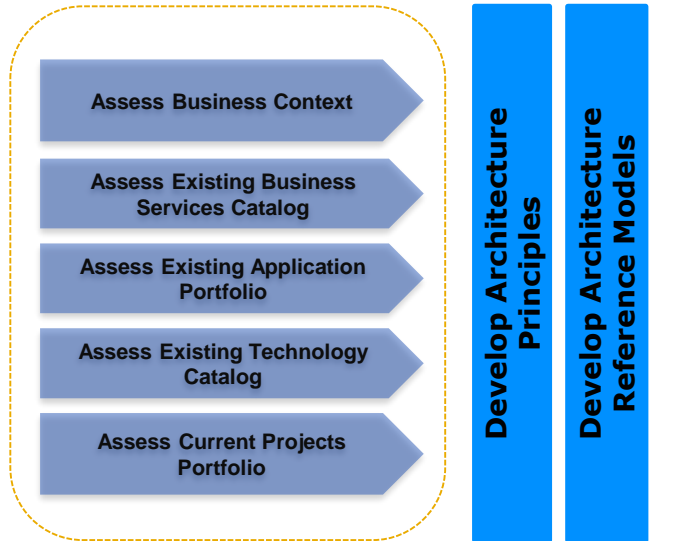
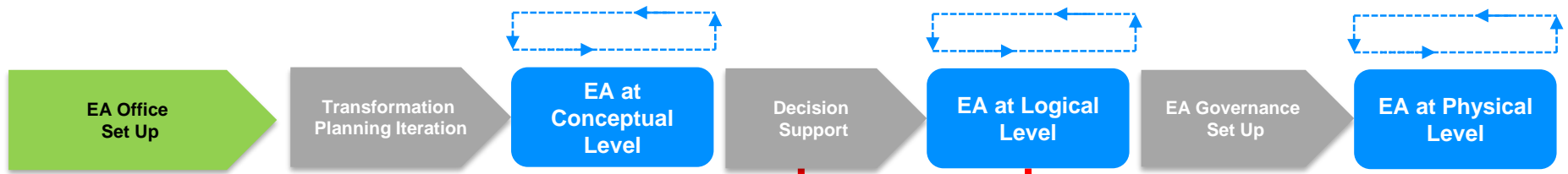
- Redundant solutions
- High operations and maintenance cost
- Complex and non responsive integrations
- Technical obsolescence
- Low application functional fitment

Implemented EA to streamline application portfolio and reduce TCO

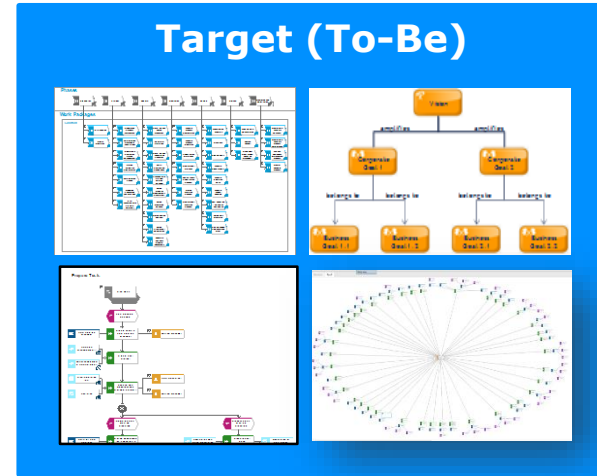
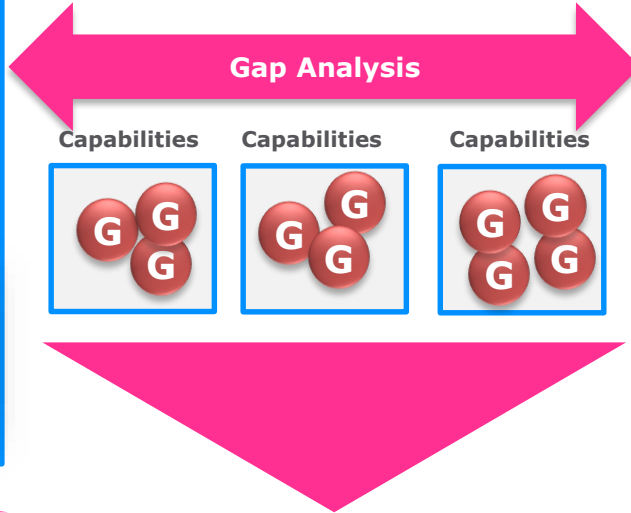
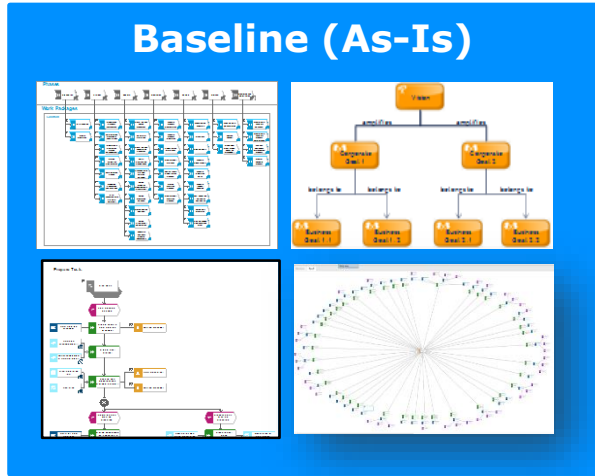
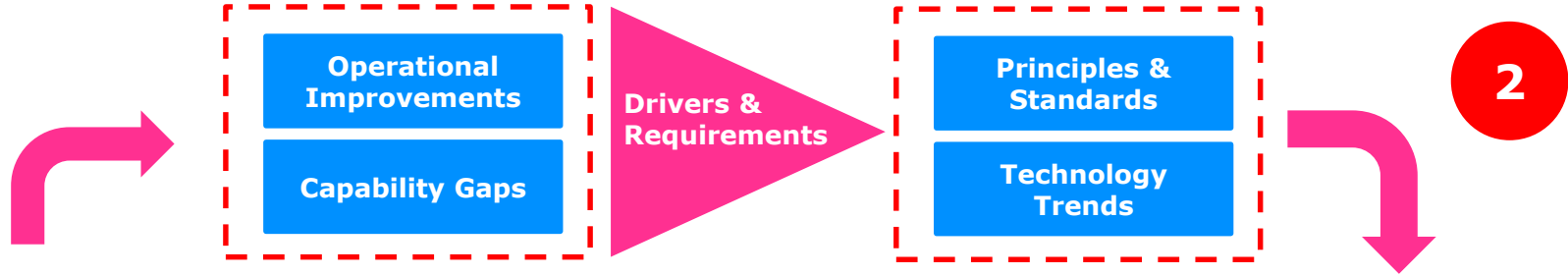
- Documented all applications with attributes
- Conducted Full functional / technical survey of applications
- Defined clear application portfolio tactics
- Conduct TCO analysis for all applications
- Implemented Application Portfolio Management tool
- Develop a comprehensive portfolio alignment roadmap to reduce TCO

- Federated application data collection
- Clear data maintenance and update accountability
- Unified functional / technical analysis approach
- TCO based analysis for business case
- Roadmap aligned with strategic direction and leveraging quick wins

- Planned 35% reduction in TCO
- 10% reduction from Quick wins (within 1st year)
- Complete application visibility
- Effective decision support reporting with impact analysis
- Improved technology standards and trends compliance
- Clear target architecture (3 years horizon)
- Clear roadmap to implement target architecture
- Measurable business case



EA Logical Lifecycle



Business Transformation Requirements

Solution Specifications (RFP)

Architecture Contract

EA Implementations Case Studies

Acquisition

Telecom Operator

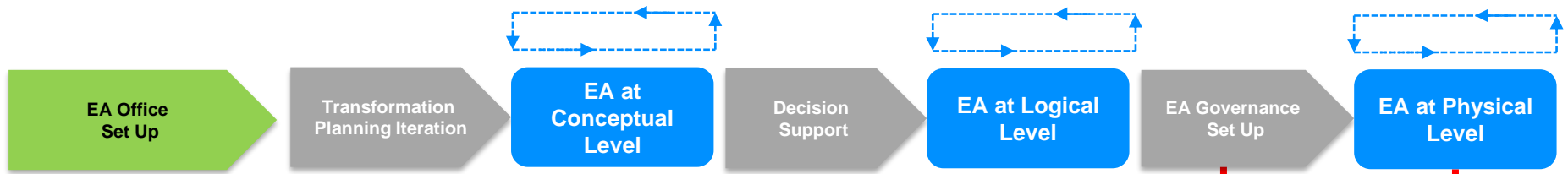
- Projects initiated by business with no visibility to IT
- Redundant technologies to deliver the same capabilities
- Different technical standards
- No understanding of Technology Lifecycle

Implemented EA to bridge the gap between business objectives and technology selection

- Standardized RFP Process using EA driven approach
- Developed and published IT standards
- Developed and published technology reference model

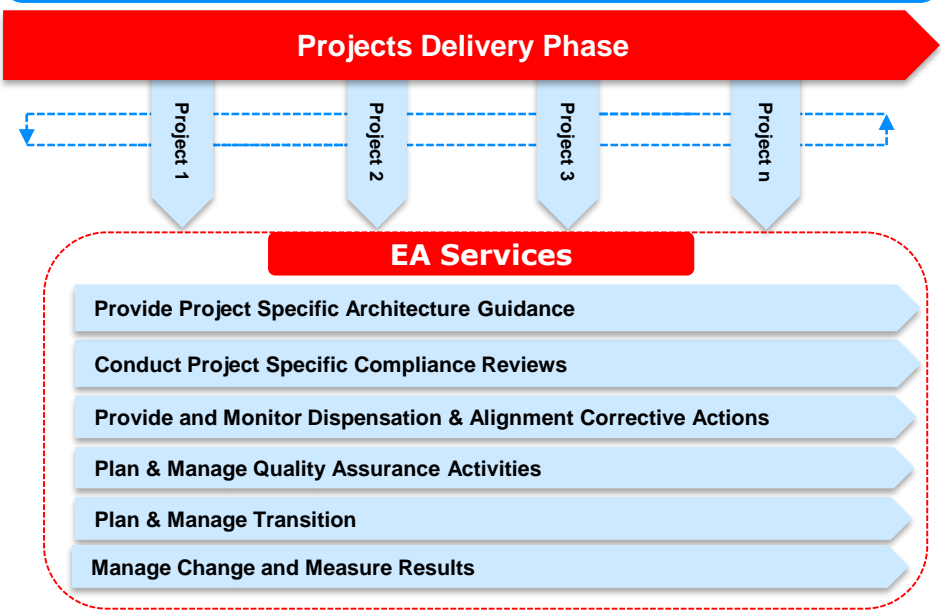
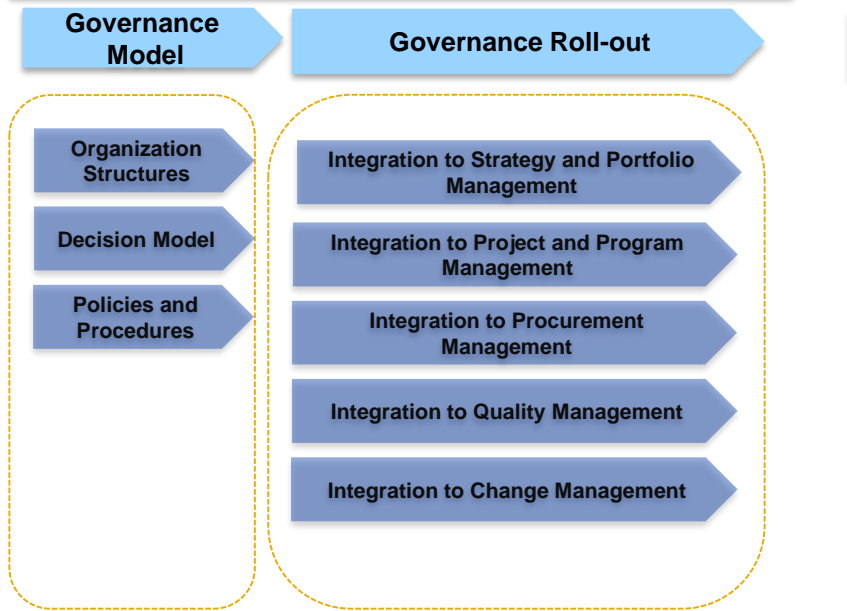
- Simple RFP template
- Minimal number of EA viewpoints selected with the business
- Simple EA tool
- Quick turnaround time (2 weeks)
- Federated EA effort
- Architecture board
- IT standards and reference model alignment and communication

- Increased project disclosure
- Unified RFP process / content
- Improved solution specification
- Reduced time to proposal
- Reduced cost of proposal
- Improved business and IT collaboration
- Reduced redundancy of IT capabilities
- Improved technical compliance



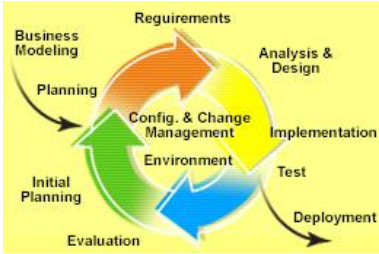
Architecture Governance Set Up

Implementation 3



EA Physical Lifecycle

RUP Methodology



Organized by 

Discipline

Divided into 

Phases

Based on 

Best Practice

Supported by



Tool



Deliverables



Intranet

Generate

Publish

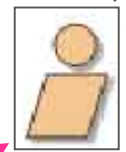
Expressed as



Workflow

Performs

Activity



Role

Follows



Artifacts

Create

Described by



Workflow Details

Executed by



Artifact Principles



Checklist



Template

Has

Uses

Stored in

	Motivation (Why)	People (Who)	Function (How)	Data (What)	Time (When)	Network (Where)
Scope View	Vision: Needs	Vision: Stakeholders	Vision: Features	Business entities	Business workflows	
Context View	Business rules	Actors	Use cases	Business object model	Use case flow of events	Network configurations
Designer's View	Constraints, multiplicities, workflow activities	Boundary classes	Use case realizations	Persistent classes	Interaction diagrams	Deployment model
Business View	End user support	Components	Data model	Process model	Process-to-node mapping	
Detailed View	UI design classes	Design classes	Columns, types, keys, indexes	State machines		

Framework

EA Implementations Case Studies

Implementation

Government Department

- Contractual problems
- Inconsistent technical design
- Poor technical documentation
- Very poor testing results
- High iteration in designs and tests
- Ineffective training and change management

Implemented EA to ensure technical consistency and effective documentation

- Unified SDLC methodology
- Standardized EA meta model and viewpoints
- Implemented EA tool
- Implemented EA Compliance Assurance
- Strengthened Training and Change Management

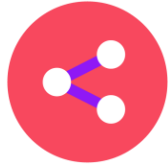
- Common SDLC methodology based on best practices
- Unified documentation taxonomy using standards like UML, TOGAF and Archimate
- Enforced EA tool collaboration
- Adopted EA driven testing
- Adopted EA driven training and change management

- Replaced development company in 6 months with internal team
- Developed and published all design documentations
- Reduced design documents iterations
- Reduced testing defects
- Created project portal to communicate solution to stakeholders
- Generated training manuals

Agenda



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**The Digital
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**The
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**Enterprise
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Q&A