



Driving Innovation with Digital Enterprise Architecture





Market Development Manager BOC Group





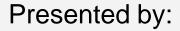


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## Driving Innovation with Digital EA





### INNOVATION LOOP MAPPING TO DIGITAL EA



### What Is Innovation? Types Of Innovation In A Nutshell

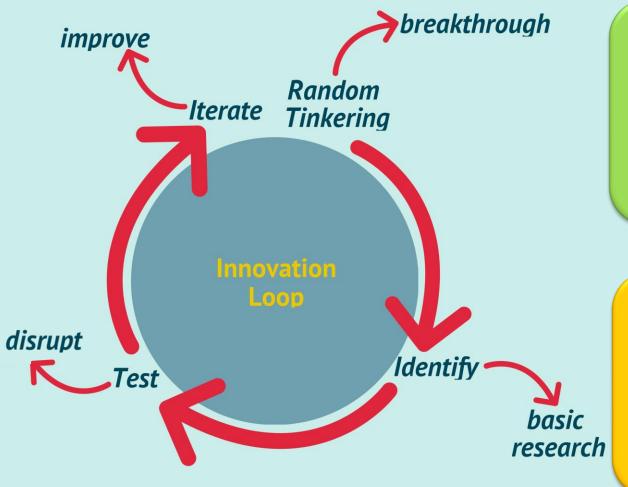
Innovation in the modern sense is about coming up with solutions to defined or not defined problems that can create a new world. Breakthrough innovations might try to solve in a whole new way, well-defined problems. Business innovation might start by finding solutions to well-defined problems by continuously improving on them.

#### **DIGITAL EA JOURNEY**

- Transition & Iteration
- Capability
   Improvements
- Innovation & Productivity
- Metrics & KPIs

### DIGITAL TRANSFORMATION

- EA Realization
- Solution Architecture
- Implementation Governance



### STAKEHOLDER'S MOTIVATION

- Vision and Mission
- Stakeholder's Concerns
- Drivers and Goals
- Requirements & Observation
- Strategies & Capabilities

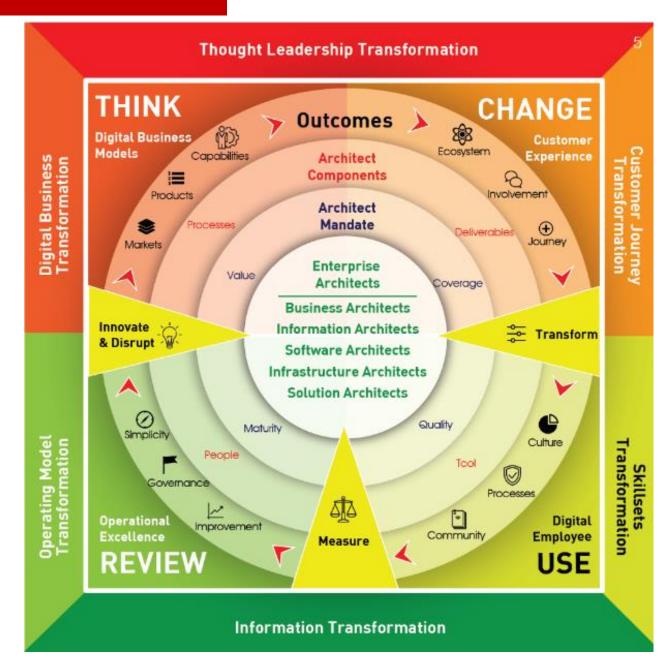
### BASELINE - TARGET - GAPS

- Business Architecture
- Information Architecture
- Software Architecture
- Infrastructure Architecture

### DRIVING INNOVATION WITH DIGITAL EA

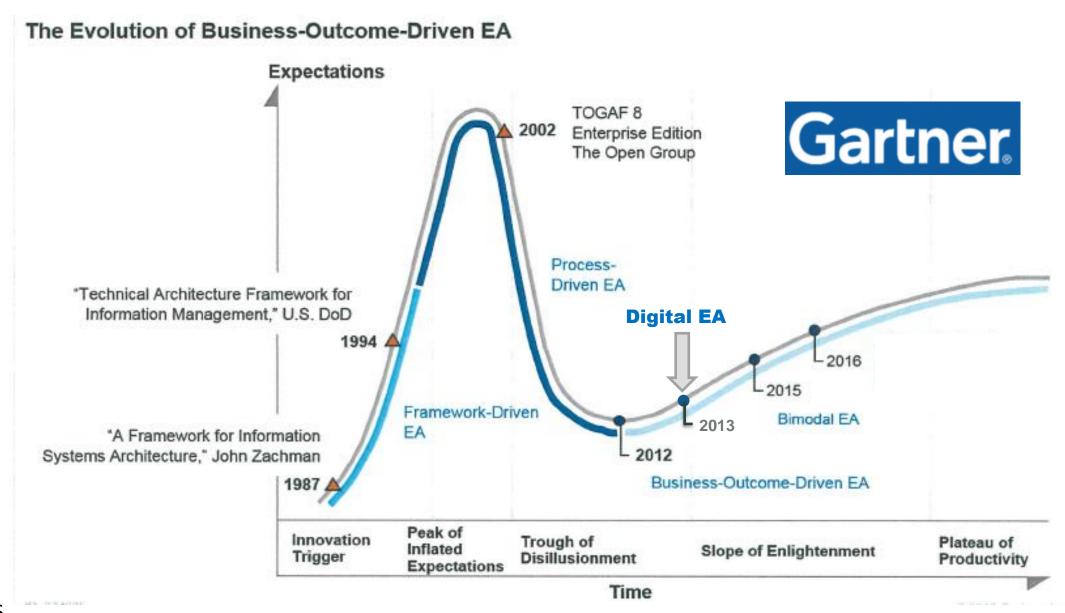


➤It provides a guidelines for **Enterprise Architects** to be successful in delivering valuable **TECHNOLOGY STRATEGY** and **INNOVATIONS** to the business while driving continuous Digital Transformation.



### THE START OF DIGITAL EA JOURNEY SINCE 2013





### GARTNER MADE PREDICTION IN 2014 ON EA ADOPTION BY 2025



### NOW, pushed by COVID19 pandemic Future of EA 2025: Evolving From Enterprise to Ecosystem

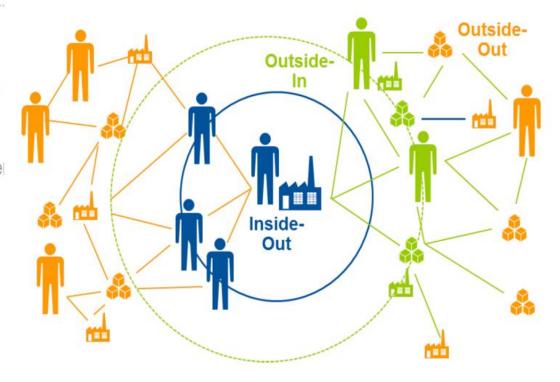
Published: 7 October 2014

Analyst(s): Marcus Blosch, Betsy Burton

Digital business is altering and broadening industries, businesses and people. EA practitioners will expand their perspectives beyond an "enterprise" to deliver business outcomes and leading response to disruptive trends with the context of a broader ecosystem of custome partners and competitors.

By 2025, organizations will predominantly focus EA on delivering business outcomes from the perspectives of their business ecosystem.





### WHAT GARTNER SAYS ON EA IN 2016



# Enterprise Architecture as the Gateway to Digital Transformation - Takeaways from the Gartner EA Summit 2016 Gartner

Author: Jean-Patrick Ascenci Source of articles: Gartner

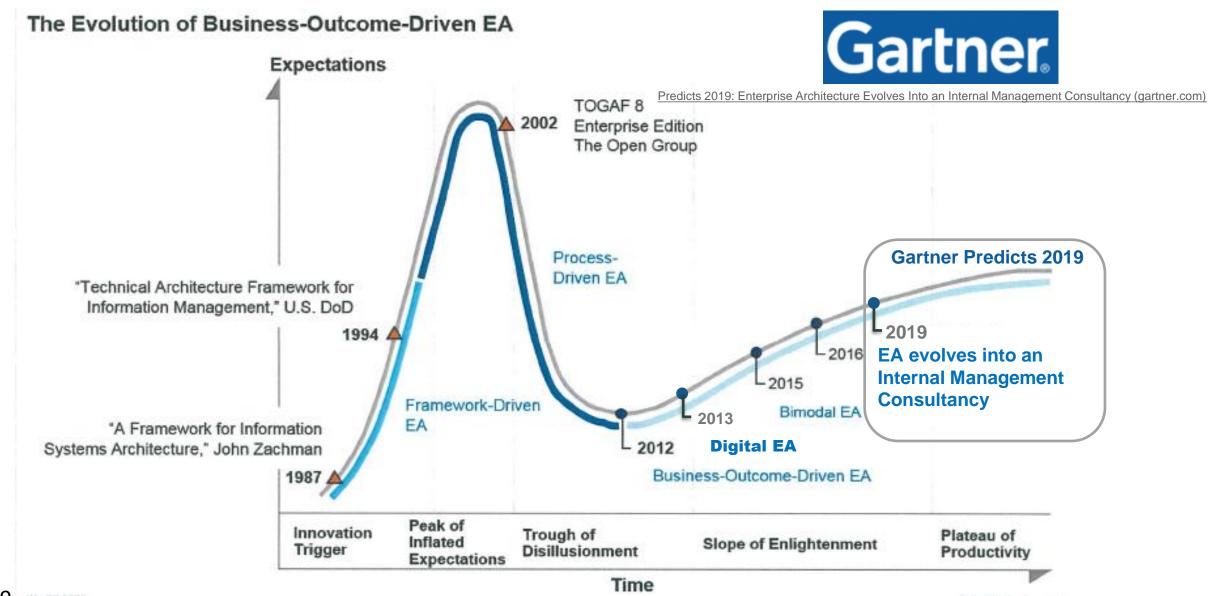
Posted on May 23, 2016 by Jean-Patrick Ascenci

Last week, CAST attended the <u>Gartner EA Summit</u>, held at National Harbor. It was two days of jam-packed sessions and workshops about Enterprise Architecture, but what stuck out the most was the value of this very unique discipline as a catalyst for Digital Transformation.

EA and <u>Digital Transformation</u> were the core focus of many presentations, including Mike J. Walker's session "Leverage EA to Understand the Value and Impacts of Digital Disruption." Mike stressed that this ever-evolving discipline is becoming a vital component to corporate strategy, delivering high-performing and sustainable business outcomes.

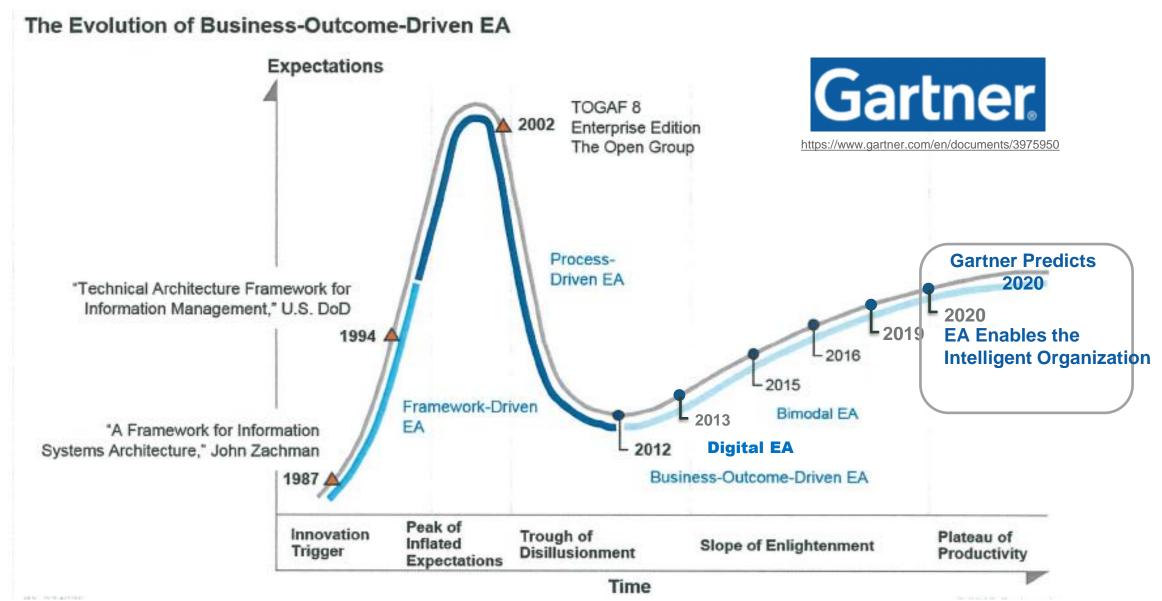
### GARTNER EA PREDICTS 2019 – MANAGEMENT CONSULTANCY





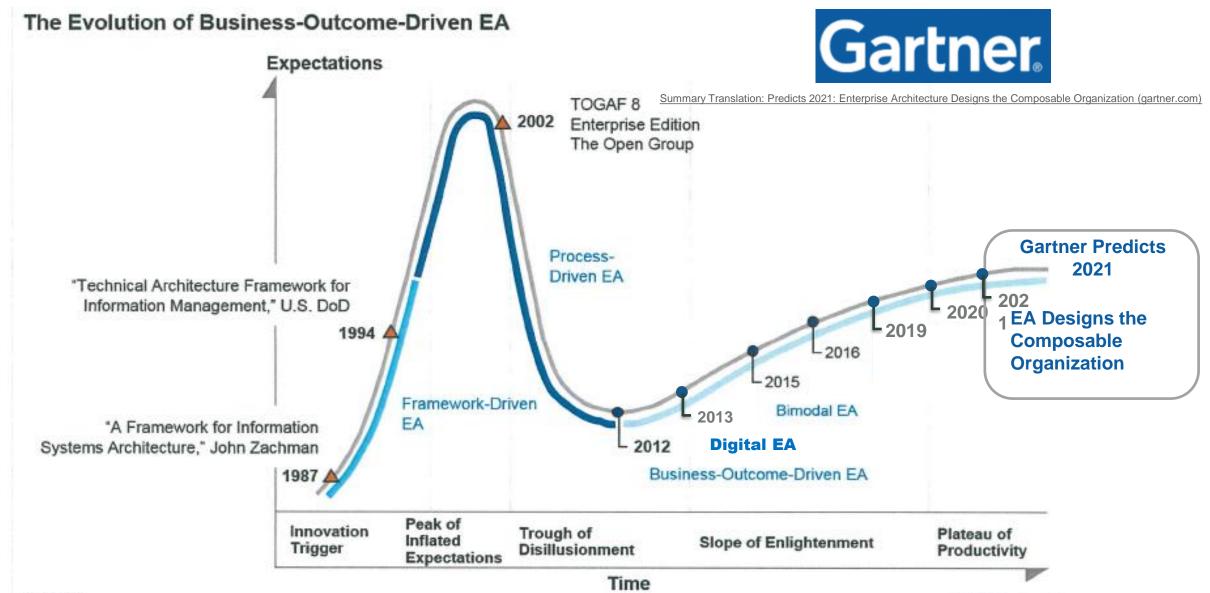
### GARTNER EA PREDICTS 2020 – INTELLIGENT ORGANIZATION





### GARTNER EA PREDICTS 2021 – COMPOSSABLE ORGANIZATION





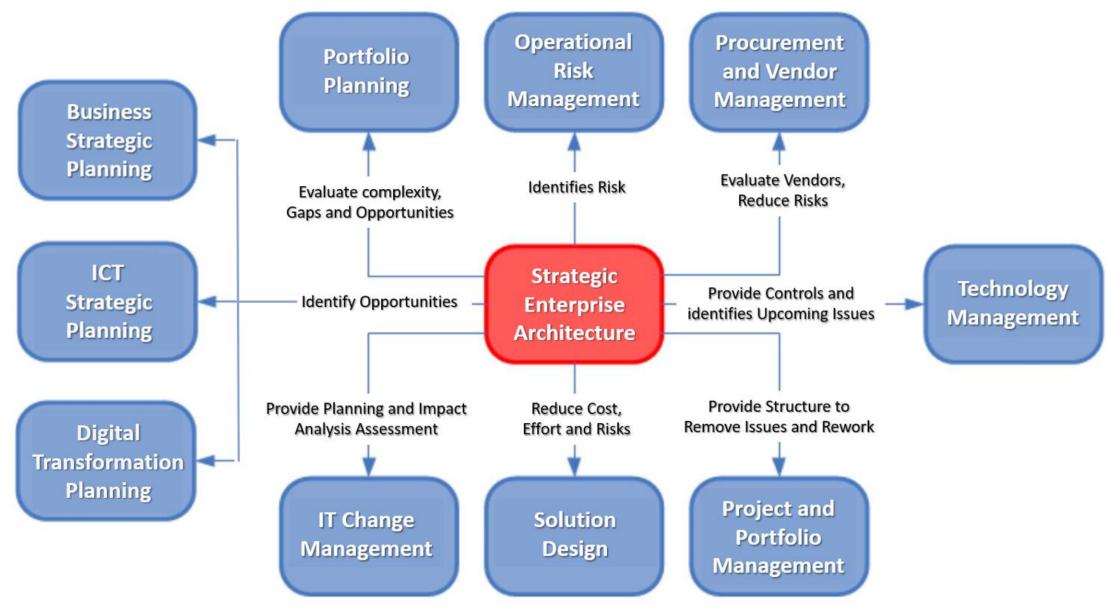
### DIGITAL EA ADDRESSING VARIOUS KEY STAKEHOLDERS' CONCERNS





### STRATEGIC EA FUNCTIONS AS COMMAND & CONTROL IN ENTERPRISE





#### EA DOMAINS FOCUS IN DRIVING TRANSFORMATION & INNOVATION





### **Awareness**

Right Information

Knowing what is going on

### Flexibility

Right Options

Confronting Expected Changes



### **EA to Drive the Digital Transformation**



### **Productivity**

Right Processes and Operations

Executing Well Day-to-Day

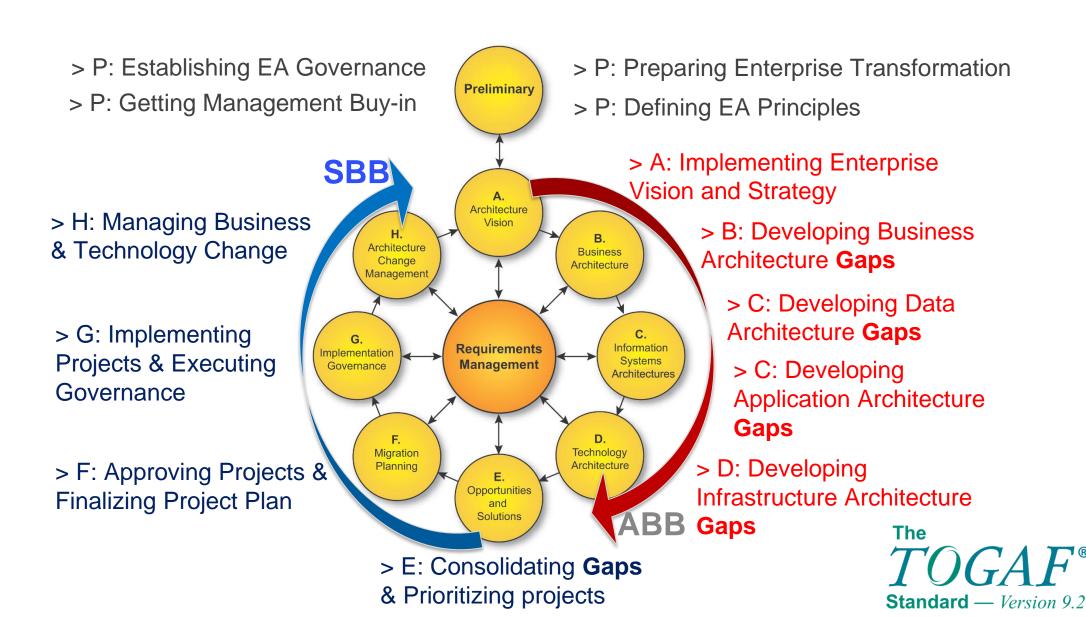
### **Adaptability** Right Reactions

Confronting Unexpected Changes



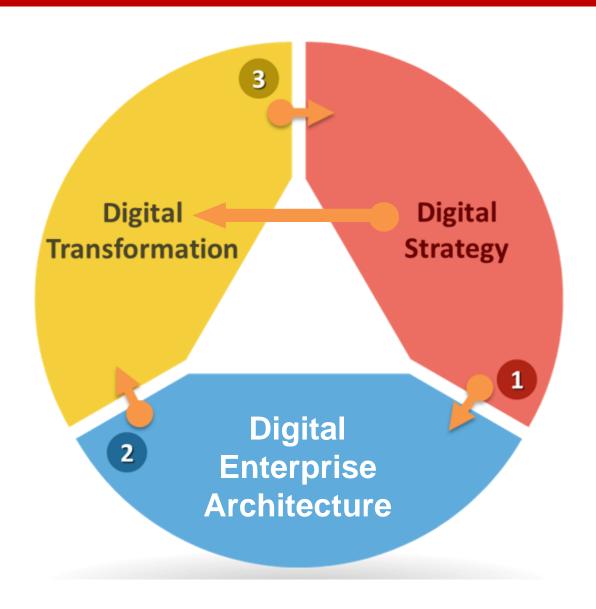
### DIGITAL EA LIFECYCLE WITH MANY TRANSITION & INTERATION JOURNEY





### TRANSFORMATION & STRATEGY REALIZATION WITH DIGITAL EA



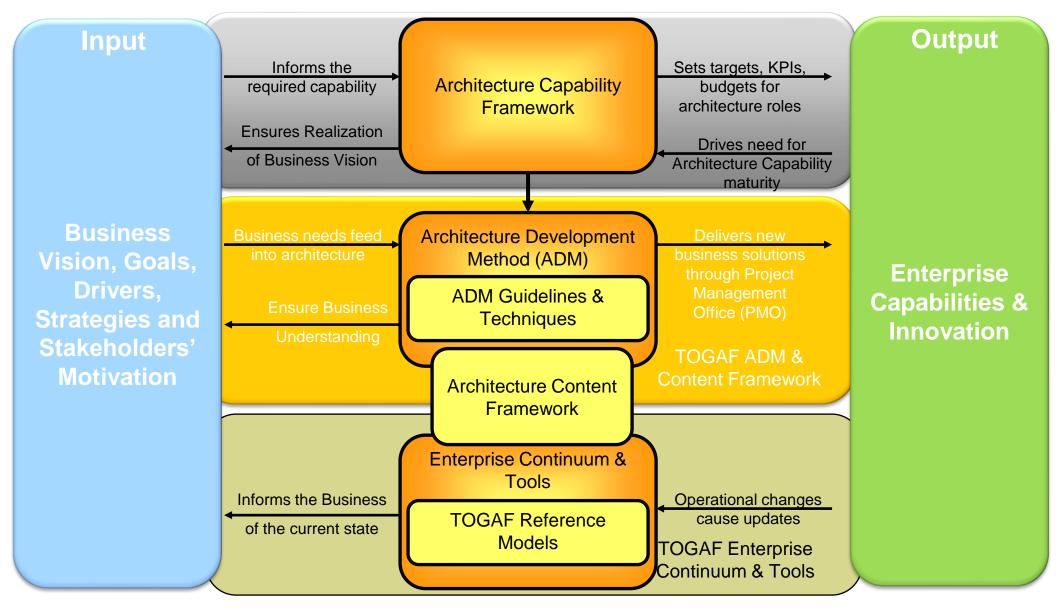


- The Outcome Statement about organization's Digital Positioning in terms of Goals, Capability and Drivers in the context of the technology adoption
- The Digital Enterprise Map of connected Business, Data,
  Application and Technology domain to support Digital
  Transformation
- The continuous transformation of the existing business through technology innovations and exploitations

### TOGAF® EA FRAMEWORK INPUTS & OUTPUTS

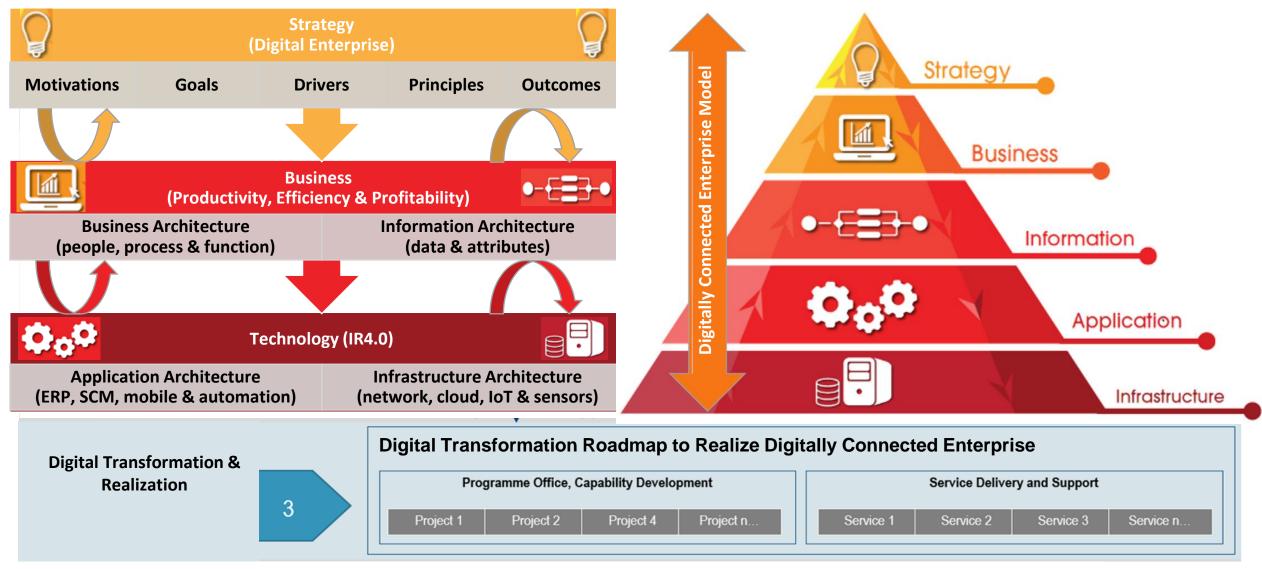






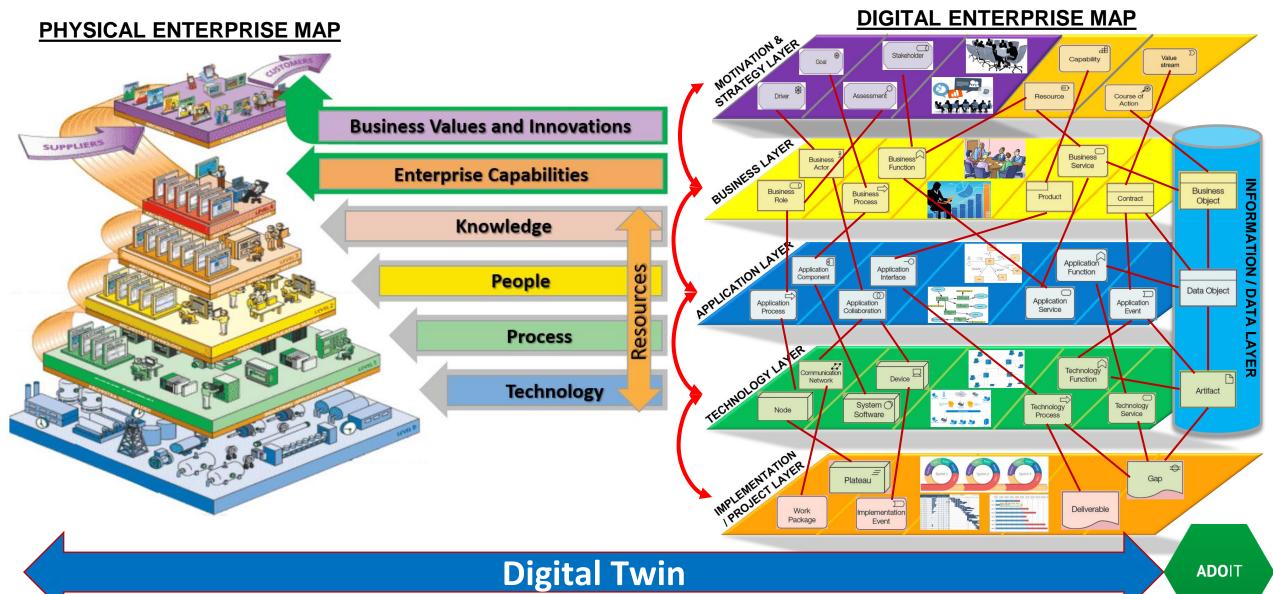
### DIGITAL TRANSFORMATION & REALIZATION THROUGH DIGITAL EA





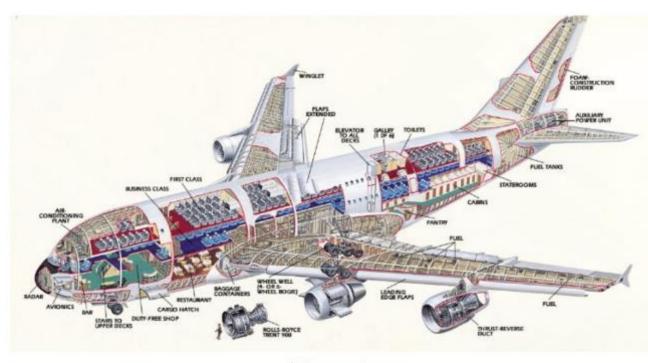
### DIGITAL EA MODELLING LAYER IN REAL ENTERPRISE TODAY





### ENTERPRISE METAMODEL ANALOGY – CONNECTED PARTS





A380 components

### When ArchiMate meets PLM for Aircraft OEM like Airbus

Published on January 7, 2017

https://www.linkedin.com/pulse/archimate-meeting-plm-aircraft-oem-like-airbus-dr-nicolas-figay



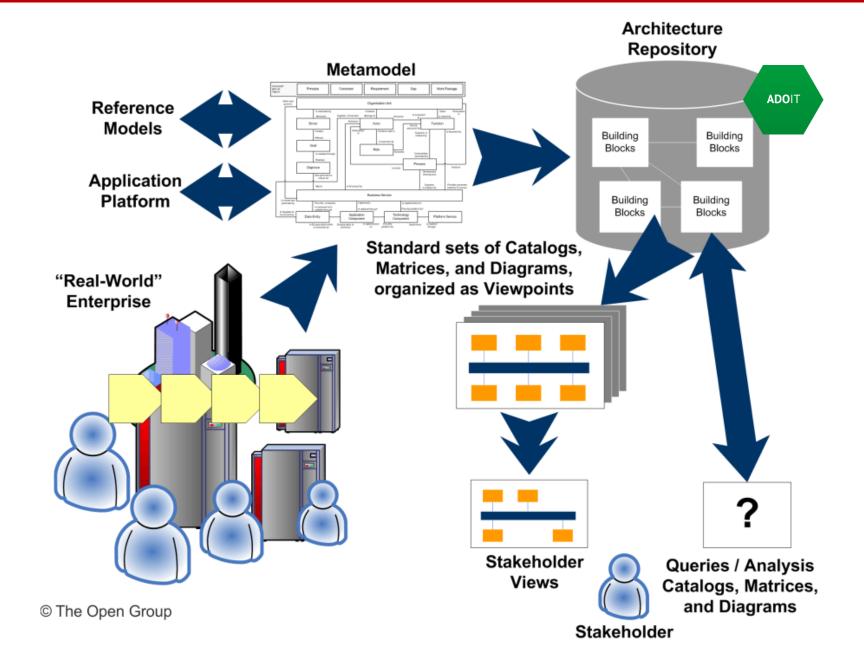






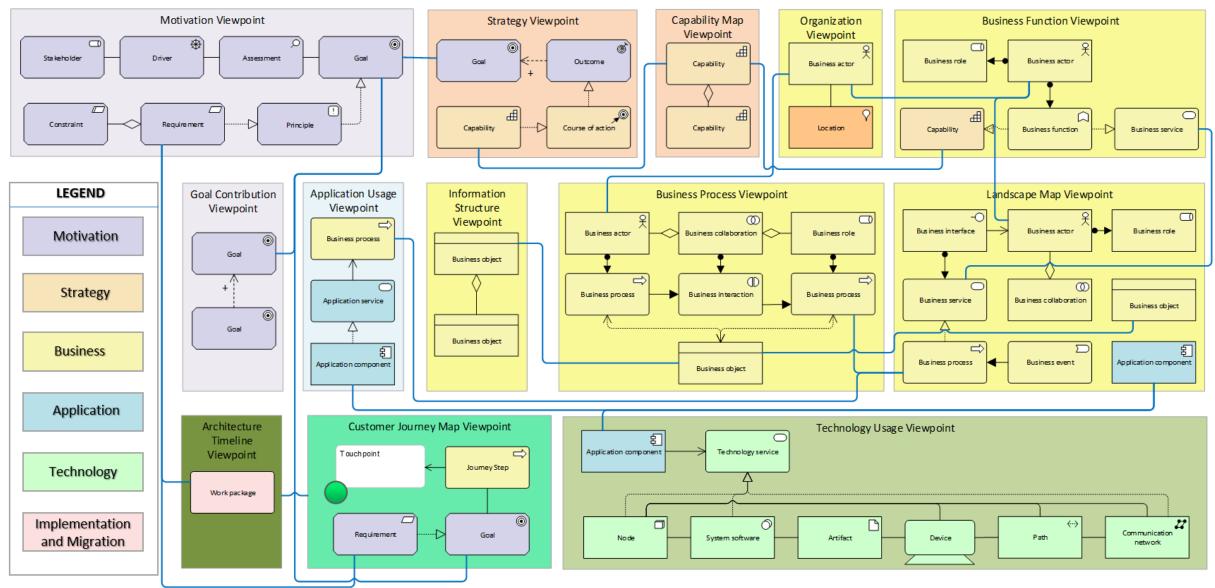
### ENTERPRISE METAMODEL RELATIONSHIP & DIGITAL EA REPOSITORY





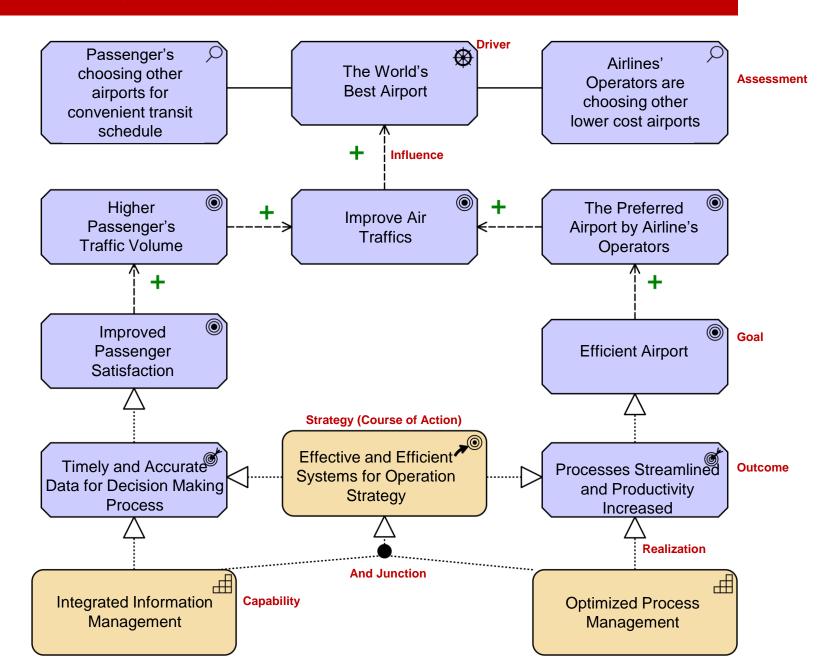
### DIGITAL EA METAMODEL EXAMPLE – CONNECTED ENTEPRISE COMPONENTS





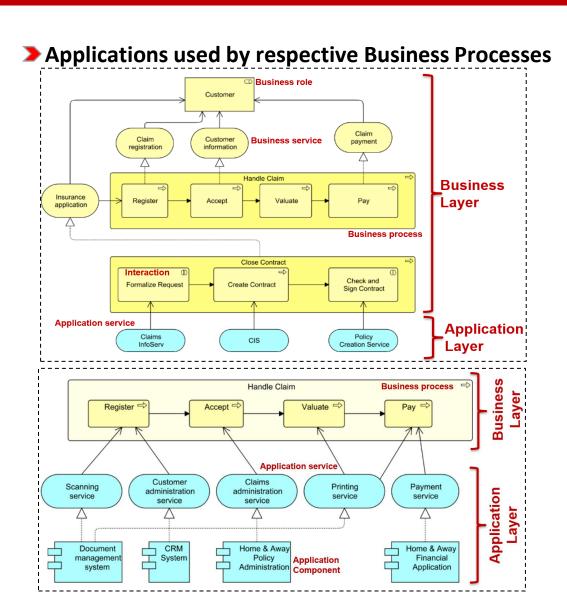
### DIGITAL STRATEGY MODELING USING – EXAMPLE

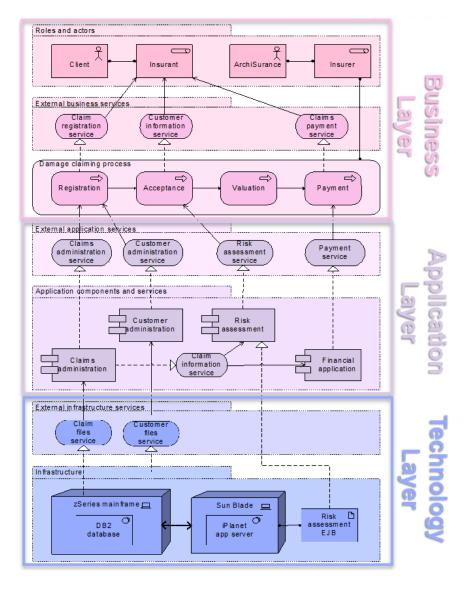




### DIGITAL EA LAYER BUSINESS & TECHNOLOGY – EXAMPLE (CONT'D)







### MODELING "MOMENTS OF LIFE"/CUSTOMER JOURNEY MAPPING WITH ENTERPRISE ARCHITECTURE GAPS EXAMPLE

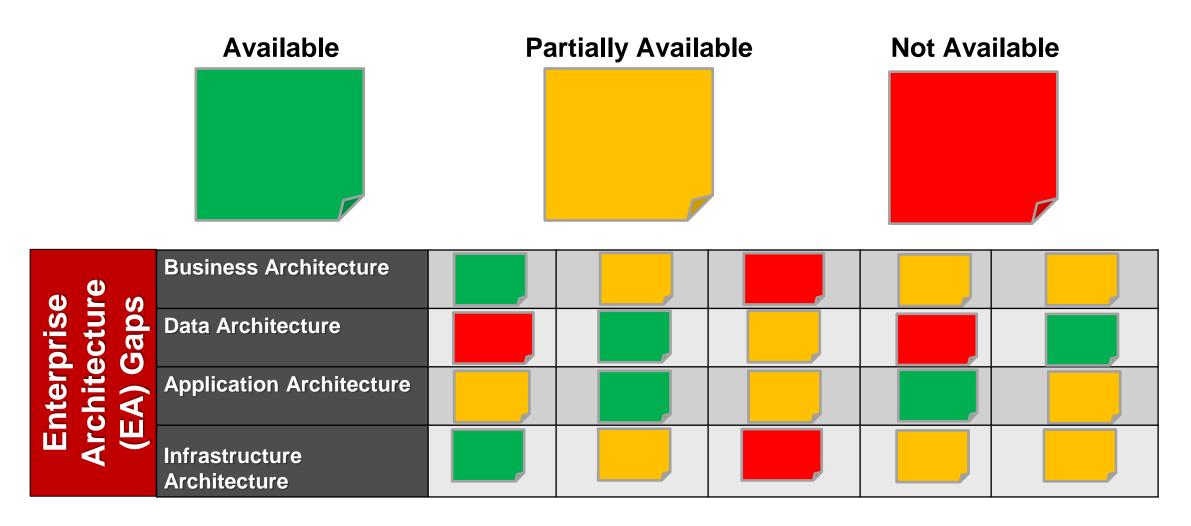


	Phases	Awareness	Consideration	Acquisition	Service	Loyalty
	Channels					
	Retail Outlet	< <touchpoint>&gt;</touchpoint>				
	Online					,
	Kiosk		,			
	Thoughts			0		
	Emotions					
Enterprise Architecture Gaps	Business Architecture	?	?	?	5	?
	Data Architecture	?	?	?	5	?
	Application Architecture	?	?	?	3	?
	Infrastructure Architecture	?	?	?	?	?

### HEATMAPPING FOR EA GAPS ANALYSIS EXAMPLE

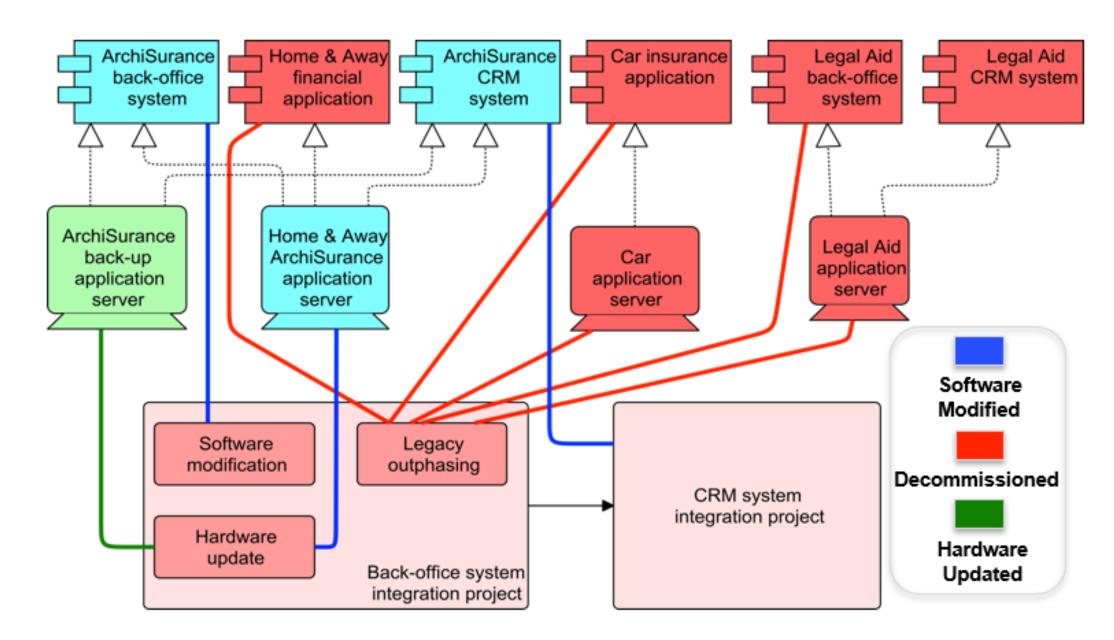


### Use different colors to indicate availability (Heatmapping)



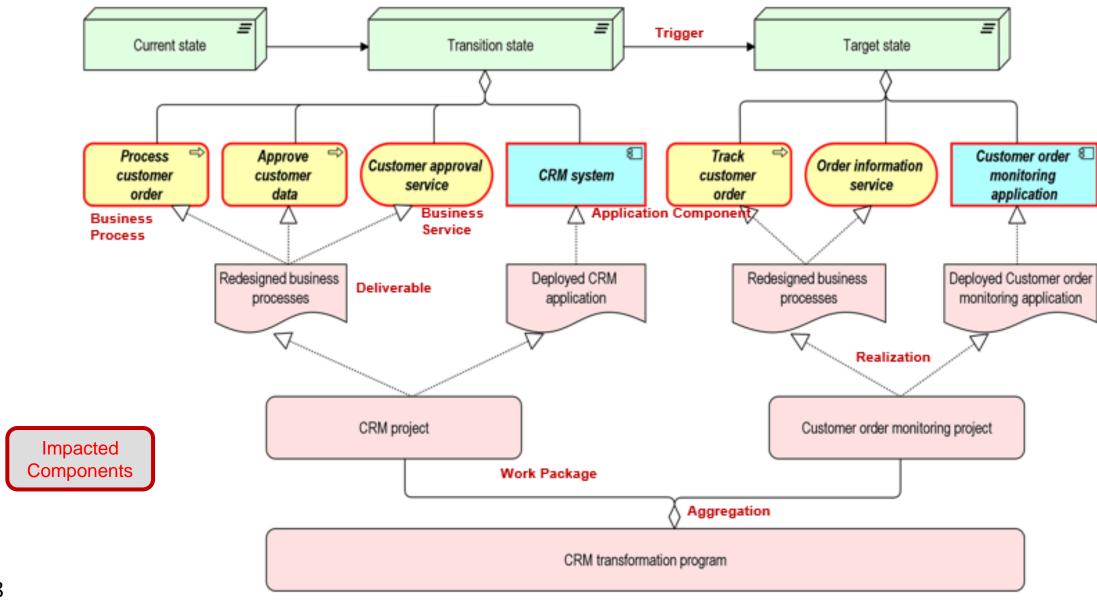
### 3. DIGITAL TRANSFORMATION & REALIZATION – EXAMPLE (CONT'D)





### 3. DIGITAL TRANSFORMATION & REALIZATION – EXAMPLE (CONT'D)

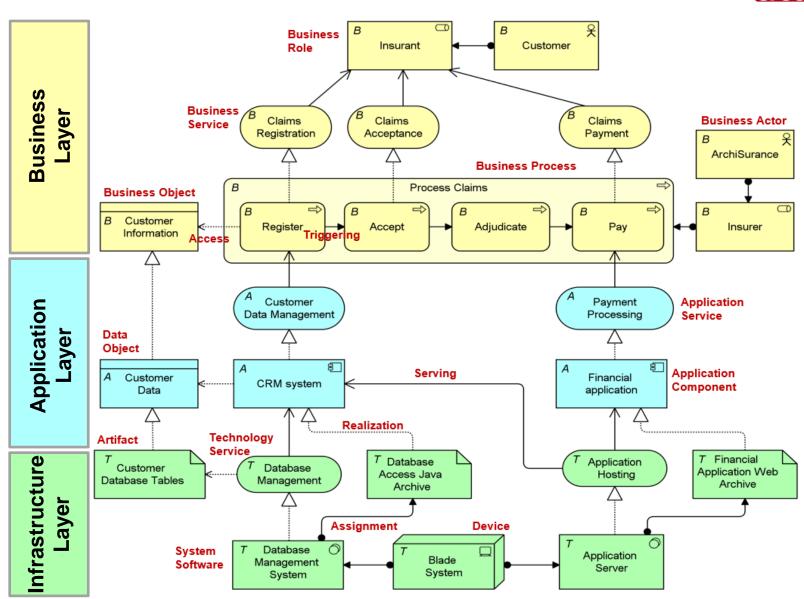




#### DIGITALLY CONNECTED ENTERPRISE TRACEABILITY WITH DIGITAL EA

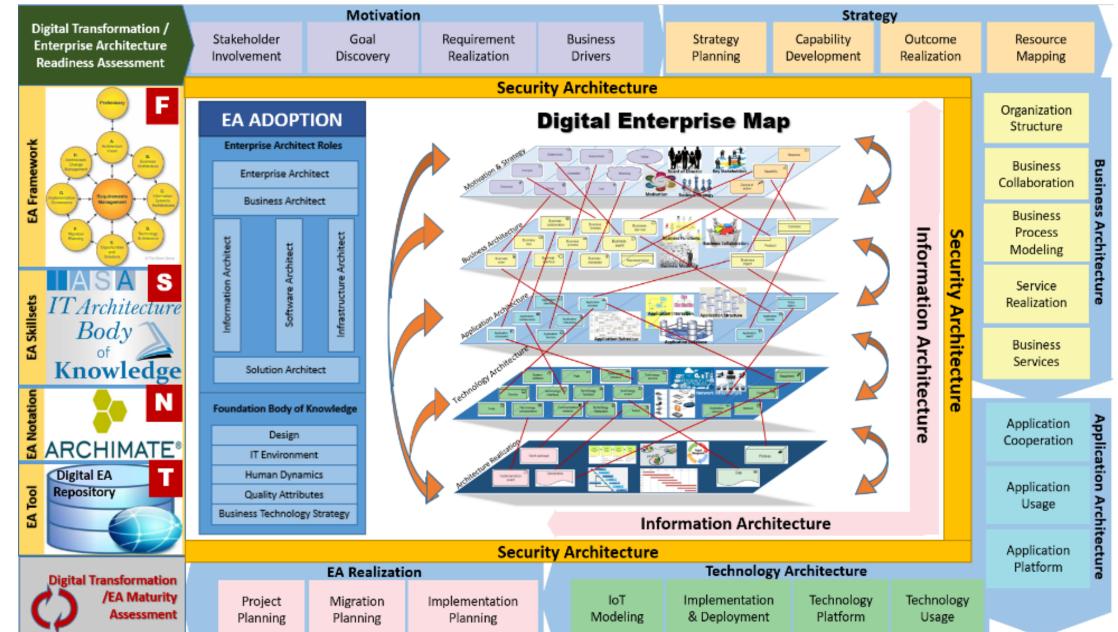


➤ This example shows how the cross-layer relationships among Business, Data, Application and Infrastructure Architecture layers, to show how the interdependencies and impact analysis in one architecture view.



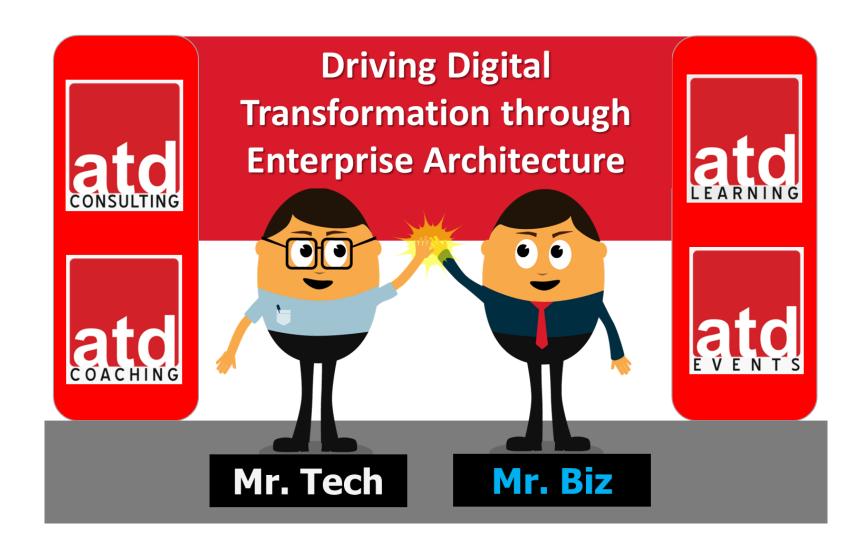
### DIGITAL ENTERPRISE ARCHITECTURE JOURNEY





### END OF SLIDE – DISCUSSION, QUESTION & ANSWER









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