DIGITAL TRANSFORMATION



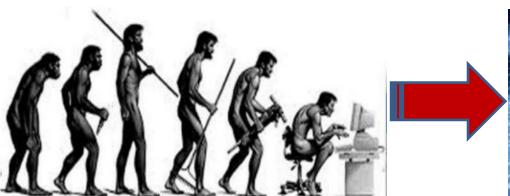
Digital Transformation Trends and Best Practices through Creation of Digital Enterprise Map

Aaron Tan Dani,

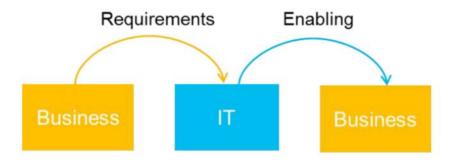
Chairman of Iasa Asia Pacific <u>aarontan@iasahome.org</u>
Chairman of EA-SIG, Singapore Computer Society <u>aarontan@scs.org.sg</u>
Chief Architect of ATD Solution <u>aarontan@atdsolution.com</u>

The Driving Force of Digital EA: Moving from the Era of Computerization to Digitalization

The Era of Automation



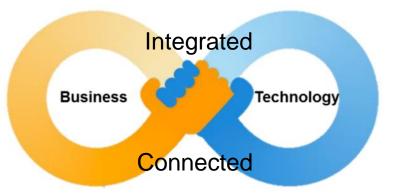
From 1980 to 2010



The Era of Digitalization (Industry 4.0)



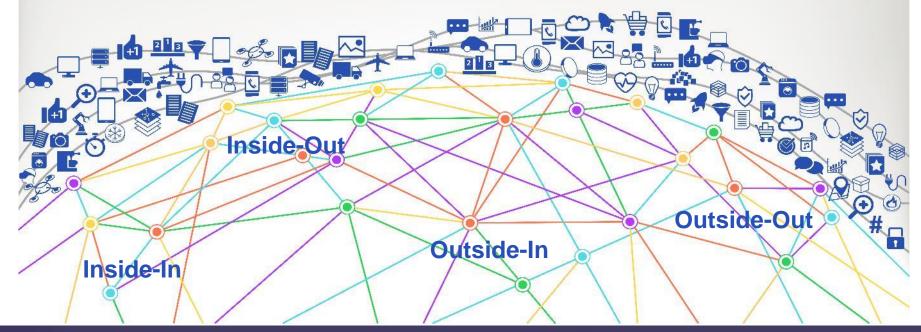
From 2010 onwards

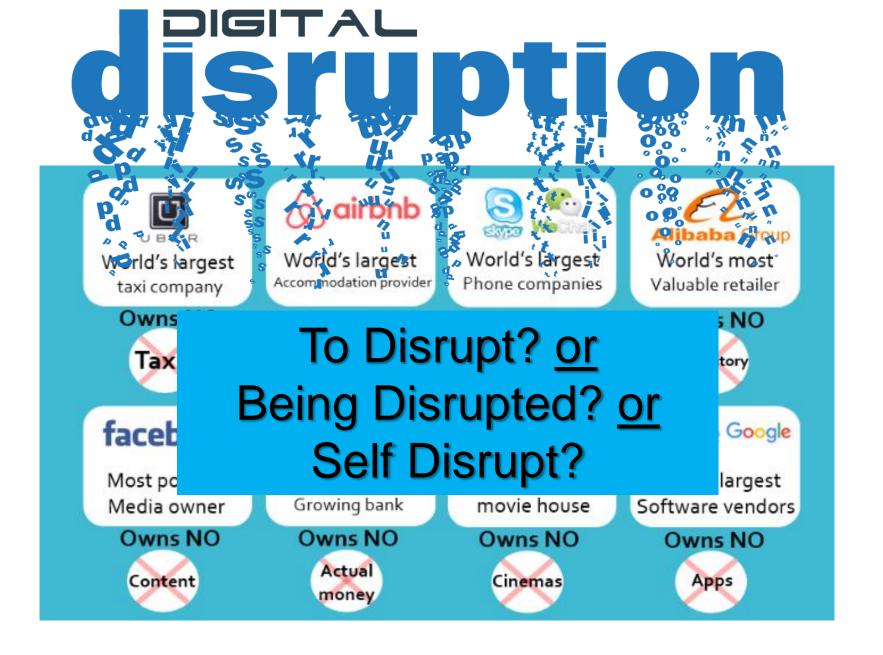


The Era of Digitalization

"Industry 4.0 is NOT about new technology nor business discipline, it is a NEW Culture to achieve outcomes through <u>digitalization</u> that were impossible in the past"

Industry 4.0





Enterprise Architecture (EA) as the Shield for Digital Disruptions



WHY GARTNER ANALYSTS RESEARCH EVENTS CONSULTING ABOUT

Search

Insight For Your Role

Enterprise Architecture & Technology Innovation

Attention: Digital disruption is here, and you're on the front line.

Digital enterprises require revolutionary archite Enterprise Architecture & Technology Innovation practitioners must fortify legacy capabilities and vanguard technologies such as the Internet of (IoT).

Learn which tactics, technologies and technique help you monetize information assets, shrewdly smart machines and deliver other critical busine outcomes.

Gartner.

WHY GARTNER ANALYSTS RESEARCH EVENTS CONSULTING ABOUT

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Gartner Says Big Data Disruptions Can Be Tamed With Enterprise Architecture

Analysts to Discuss the Role of Enterprise Architecture in the Age of Big Data at Gartner Enterprise Architecture Summit, May 14-15 2012 in London, UK and May 23-24 in National Harbor, MD

Enterprise architecture (EA) practitioners have a major role in ensuring their organizations maximize the business opportunities posed by big data, according to Gartner, Inc.

Big data makes organizations smarter and more productive by enabling people to harness diverse data types previously unavailable, and to find previously unseen opportunities. However, Gartner analysts said big data poses big challenges as well — and that's where enterprise architects can help. As navigators of strategic change, the task for EA practitioners is to chart the right course for big data across the most critical dimensions of the organization: business, culture, talent and technology.

What Gartner Says about EA...

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

Source of articles: Gartner

Author: Jean-Patrick Ascenci

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.

What Gartner Predicts about EA Adoption by 2025

Future of EA 2025: Evolving From Enterprise to Ecosystem

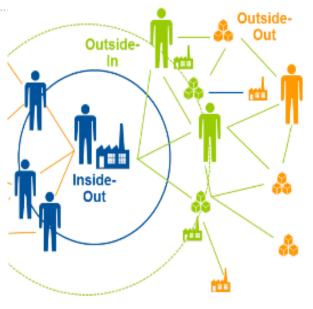
Published: 7 October 2014

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 customers, partners and competitors.

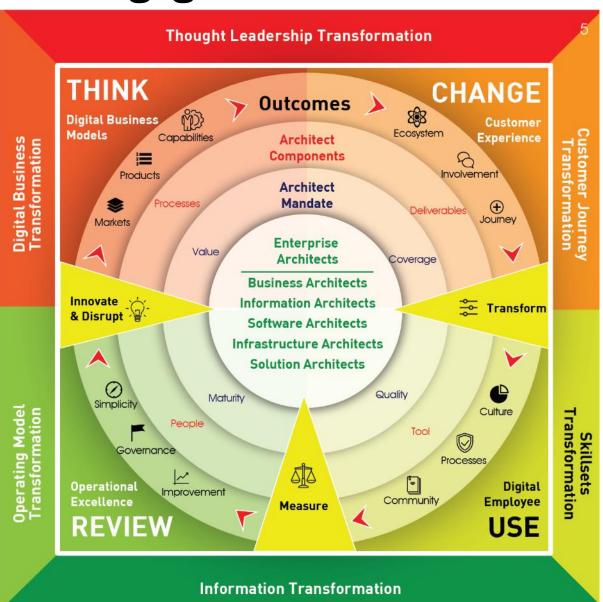
By 2025, organizations will predominantly focus EA on delivering business outcomes from the perspectives of their business ecosystem.



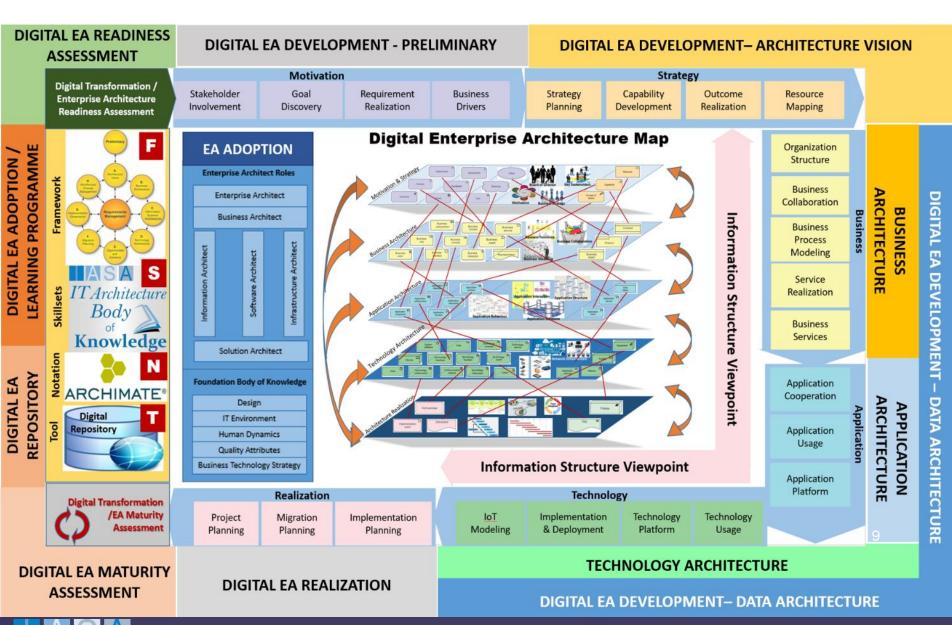


The IASA's Architects Engagement Model

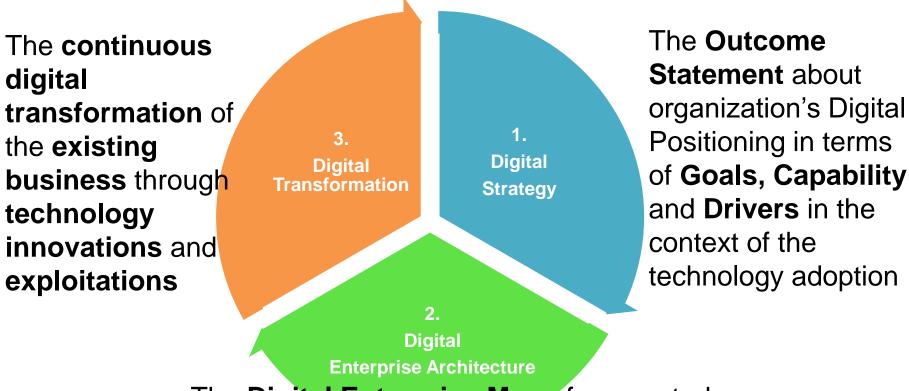
> It provides a guidelines for architects to be successful in delivering valuable technology strategy for the business to drive continuous transformation



Digital EA Map - Digital EA Methodology

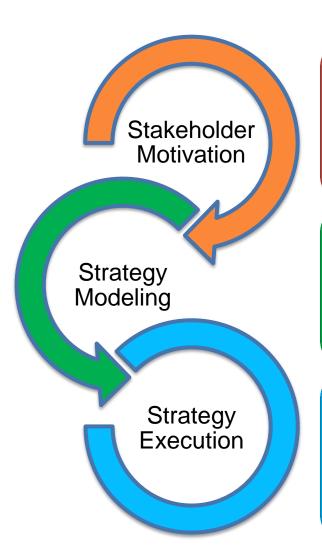


Connected Digital Enterprise Building Blocks



The **Digital Enterprise Map** of connected **Business, Data, Application** and **Technology** domains to support **Digital Transformation**

The Aspects of Digital Strategy



Define the stakeholder concerns that give rise to the need for a Digital Strategy

- Why are we doing it?What gives rise to the need for a digital strategy?
 - What challenges are we trying to address?
 - What constraints are we looking to remove?

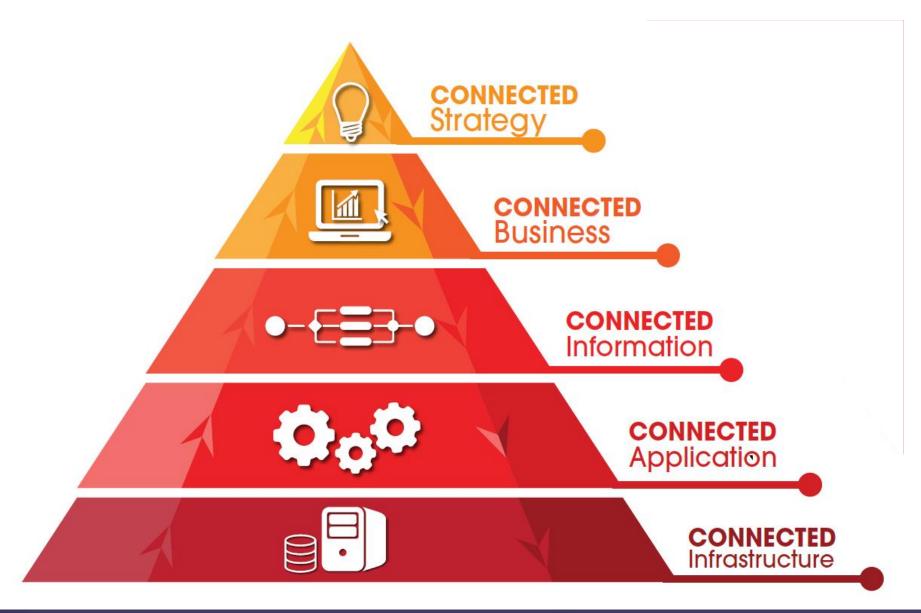
Detail the core objectives of the strategy to address the concerns

- What is our long-term digital strategy?
- How do we communicate our strategy?
- How will we measure the achievement of the objectives?

Roadmap series of integration actions to achieve the core objectives

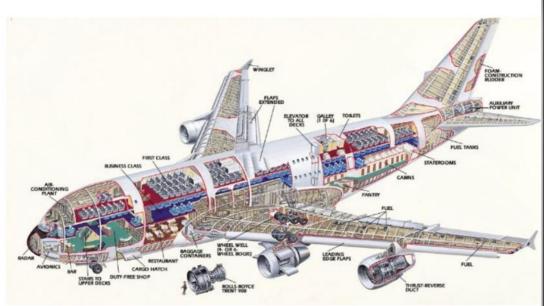
- What is the schedule for implementation?
- What are the technology, system, resource and organisation prerequisites to achieving success?
- How can this work be formulated into a realistic and achievable plan?

ATD's Vision – Digitally Connected Enterprise





Aircraft & iPad Circuit Board Analogy for Metamodel & Reference Architecture



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



Dr Nicolas Figay Follow

Expert and researcher within the field of Standards based PLM i...

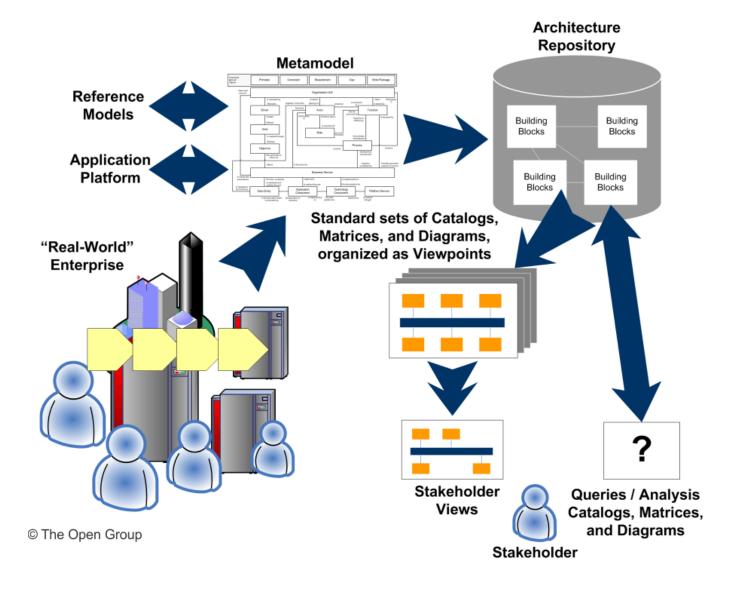




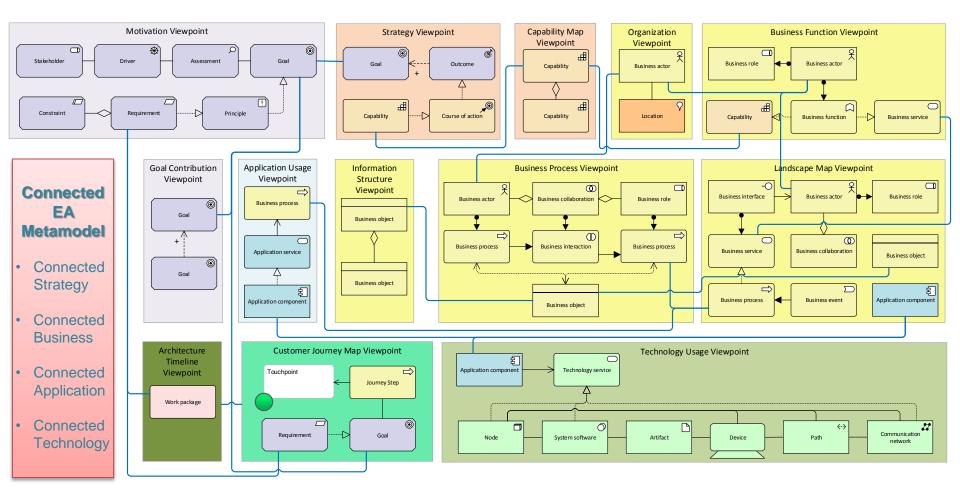




Digital EA Centralized Repository

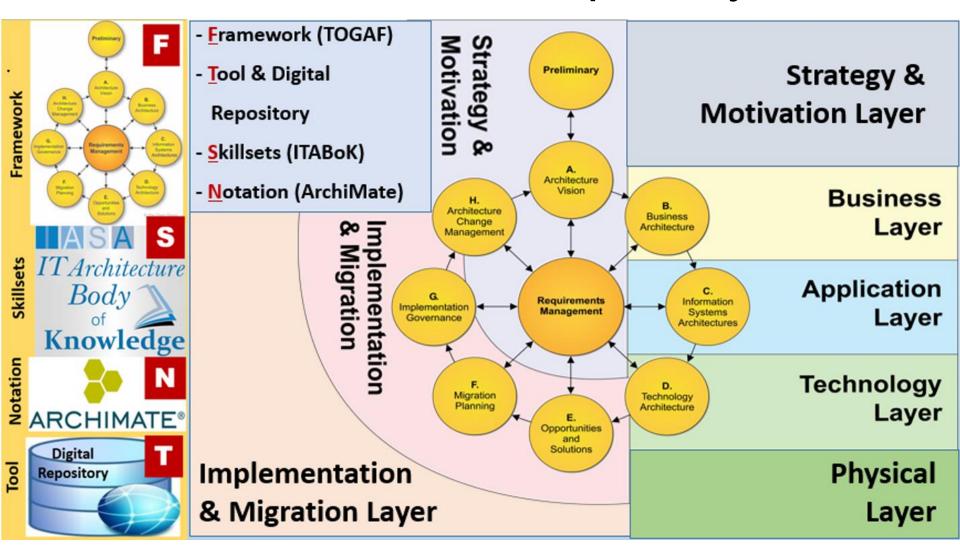


A Typical Example of Digital Metamodel to define Digital Enterprise Map



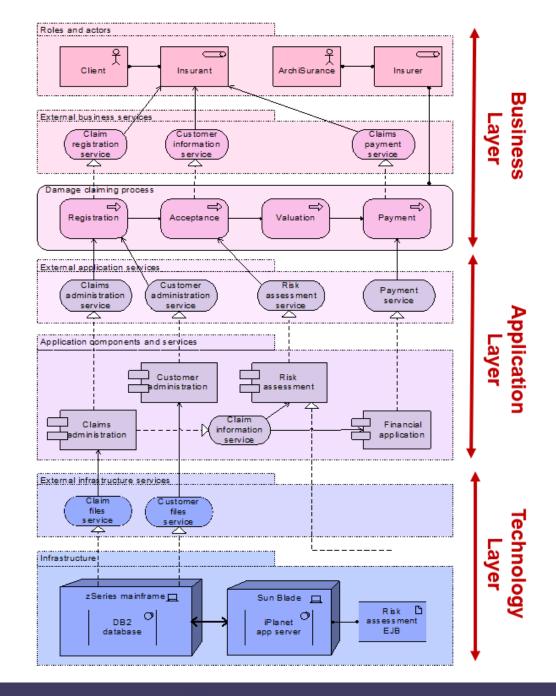
Why EA? Moving from "Hair-Ball Architecture" to "Digital EA Map" (illustrated in Lego Blocks)

The Mapping of TOGAF 9.2, ArchiMate 3.0.1 & ITABoK Ver. 3.0 to Define Enterprise Layers

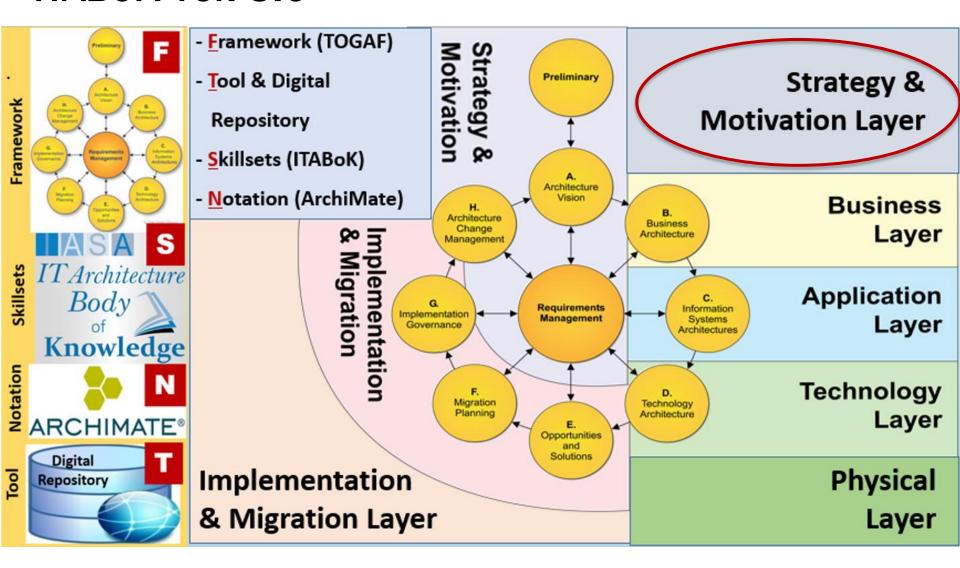


The Enterprise Architecture Digital Map described in ArchiMate

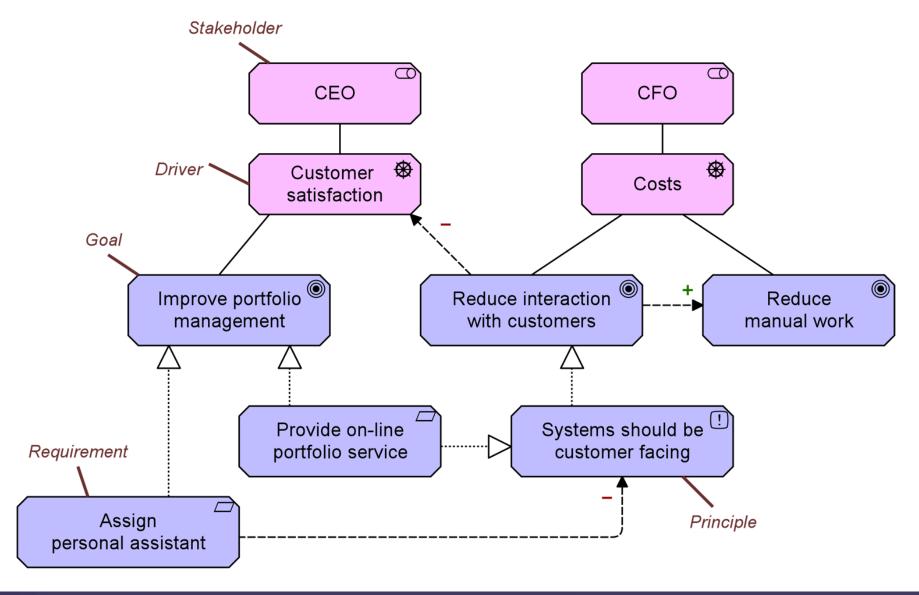
- It provides <u>full</u>
 <u>traceability</u> from
 <u>Business</u> to <u>Application</u>
 to <u>Technology</u> and vice
 versa
- It represents the Model
 of Digital Enterprise as
 they evolve over time



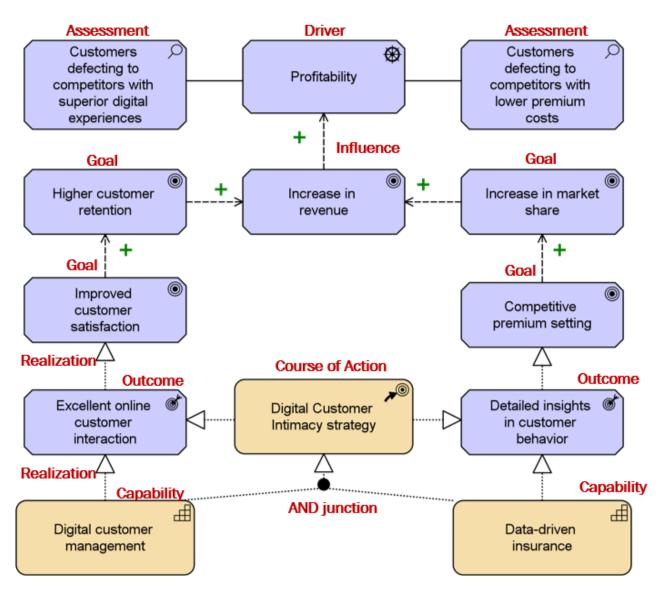
The Mapping of TOGAF 9.2, ArchiMate 3.0.1 & ITABok Ver. 3.0



Example of Digital Map for Motivation View

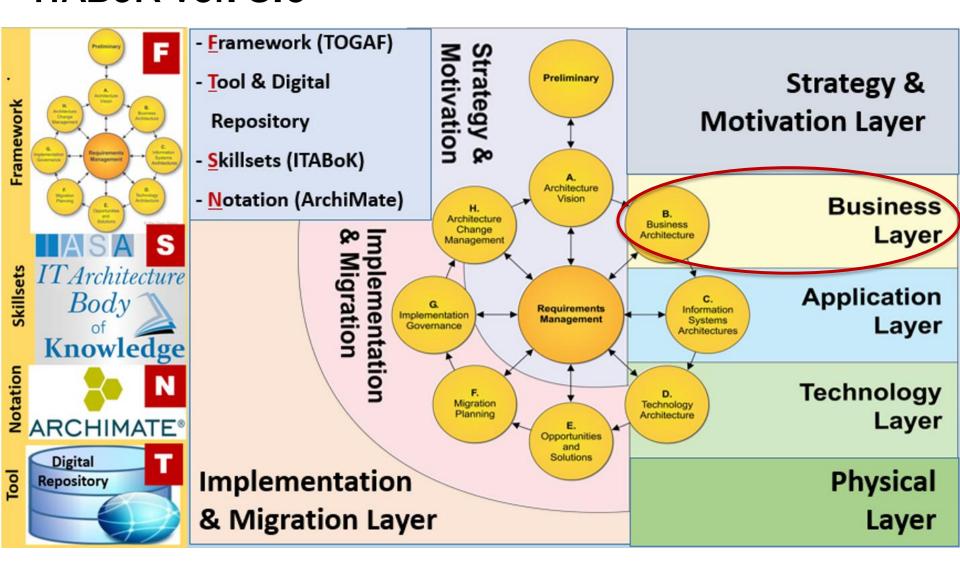


Example of Digital Map for Strategy View



The Digital Customer Intimacy strategy requires to develop a number of new capabilities and resources, including digital customer management, data acquisition, and data analysis.

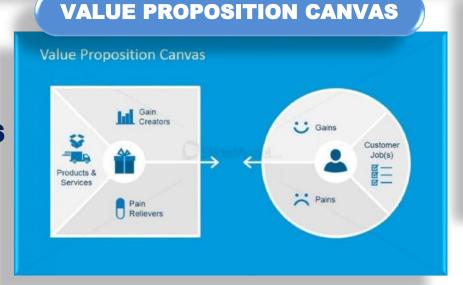
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Customer Centricity - Digital Transformation

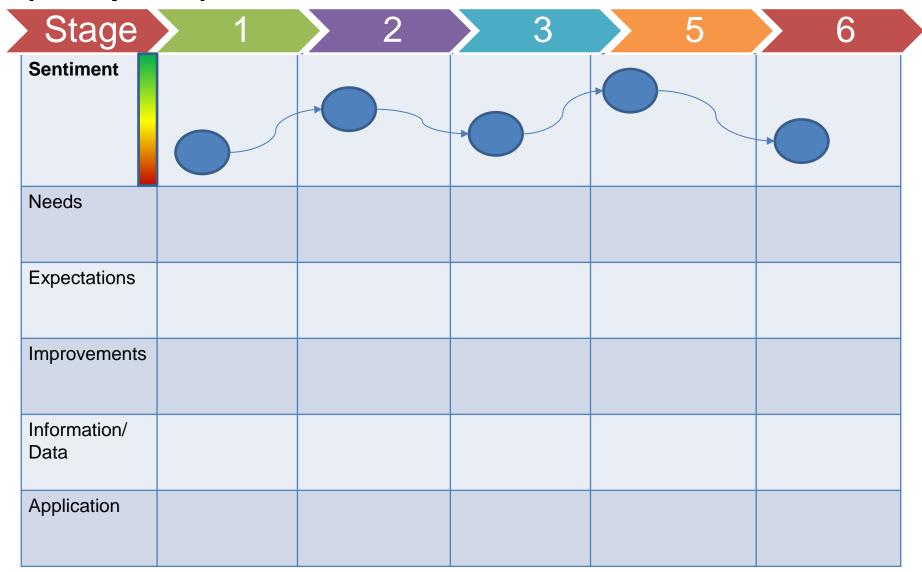


JOURNEY MAP TOOLS





Digital Customer Journey Map Viewpoint (Template)



Digital Customer Journey - Discovery Map Example



Digital Customer Journey – Persona Identification Example

Dato' Dr Hazreen Hasbullah

Chief Digital Transformation Officer
Meritouse Financial Ltd



Age:

43

Gender:

Male

Salary:

\$15,000

Home Location:

Country Heights, Kajang

Education:

PhD in Digital Transformation, University of Michigan

Family:

Married with 3 kids

Goals: To help organization in embarking digital transformation.

Challenge: Digital disruption, lack of internal capability, business IT integration.

Values:

Leadership, Influential, Supportive

Fears:

Fears of failure

Product/Service Owned:

Advising digital direction or strategy development.

Marketing Message:

Digital Customer Journey – Empathy Map Example

THINK AND FEEL?

Think: Implementation of EA could help the organization/enterprise to achieve the goals **Feel:** Excited, Motivated, Anticipation

HEAR?

- Hear good review about the implementation
- The best consulting services in achieving digital transformation with EA adoption best practices



SAY & DO?

Say: New experience to explore together and work together

Do: Support our business and recommend

our service

SEE?

- Digital transformation of the organization will be success.
- Help the organization to have better work place and structured work processes.

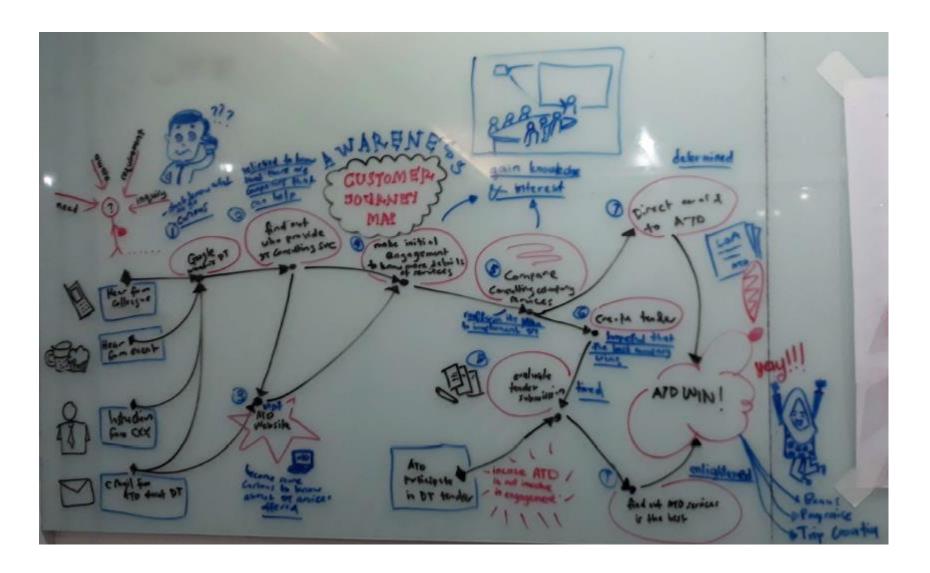
PAIN

- Budgeting
- Time constraint

GAIN

- Clear definition of goals and organization
- Awareness of Digital Transformation

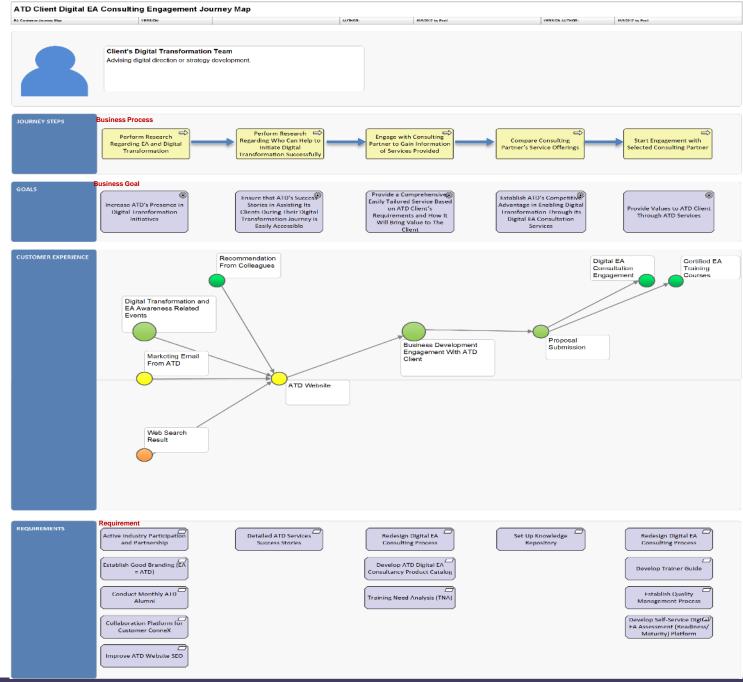
Digital Customer Journey – Story Boarding Example



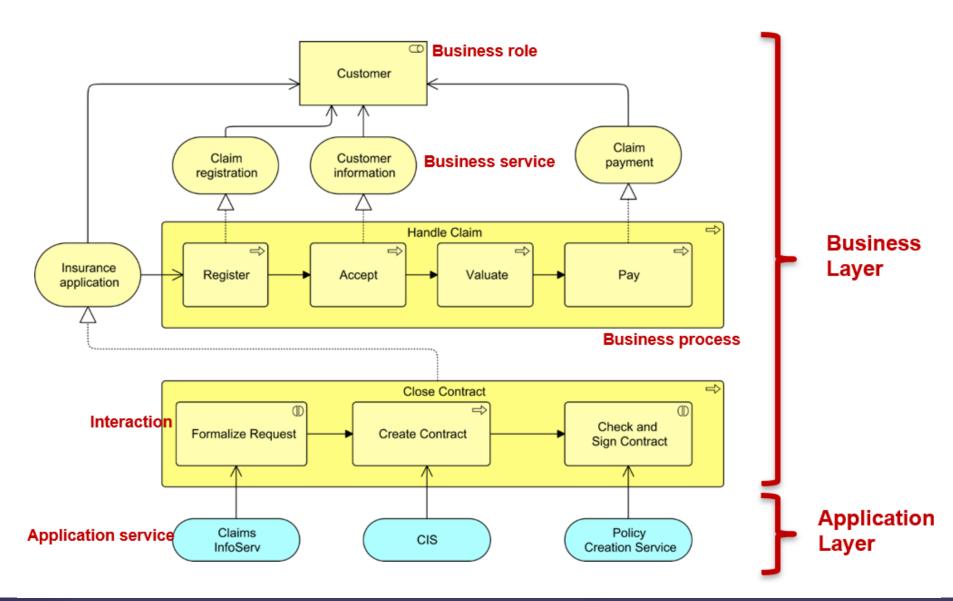
Digital Customer Journey – Touch Points Map Example



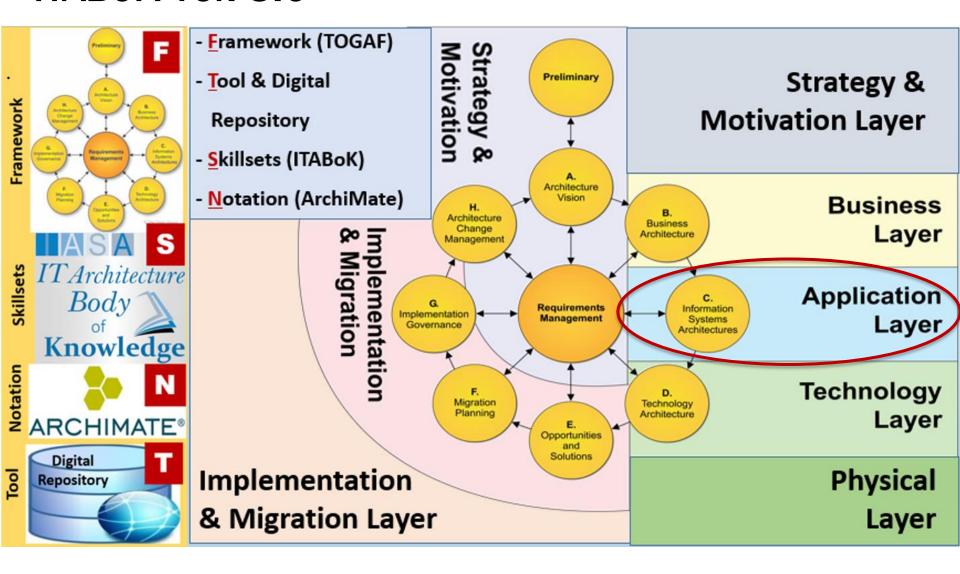
Customer Journey Example Engagement Journey Map



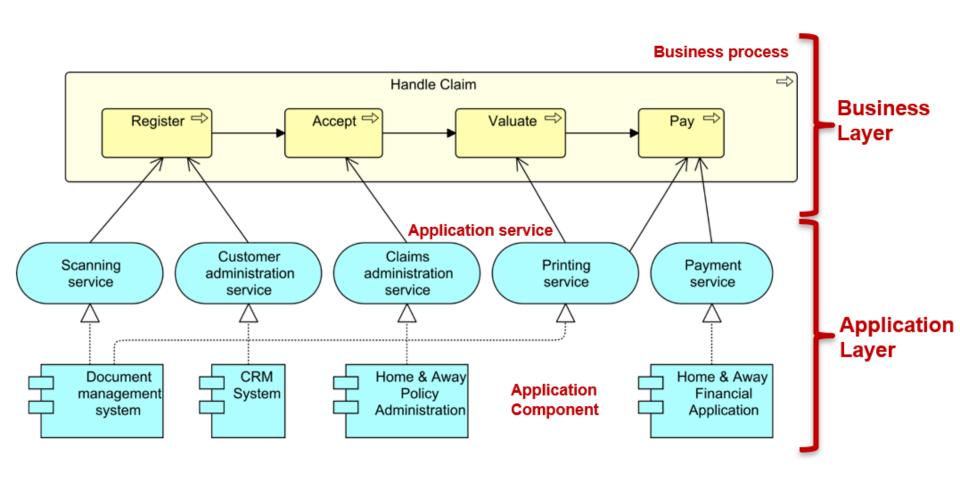
Example of Digital Map at Business Layer



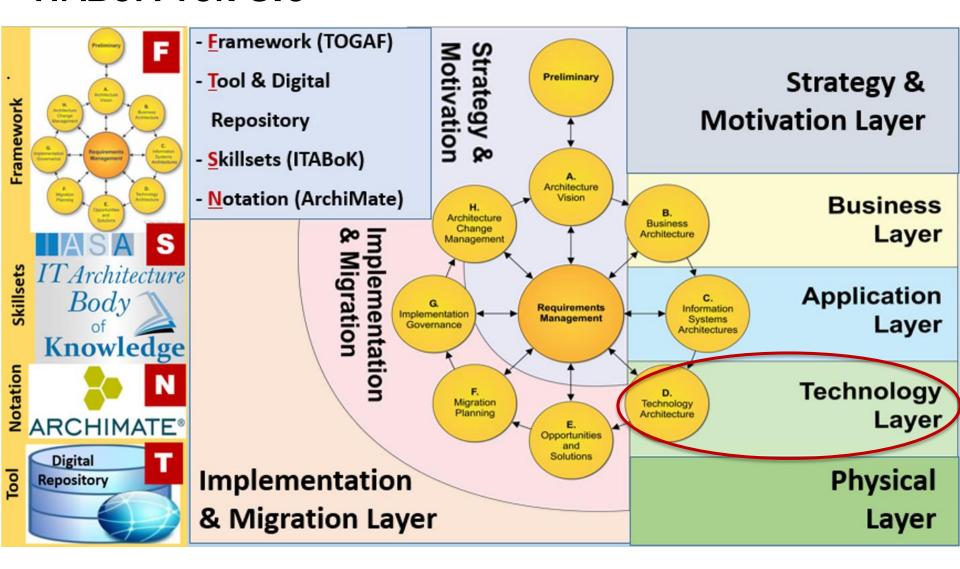
The Mapping of TOGAF 9.2, ArchiMate 3.0.1 & ITABok Ver. 3.0



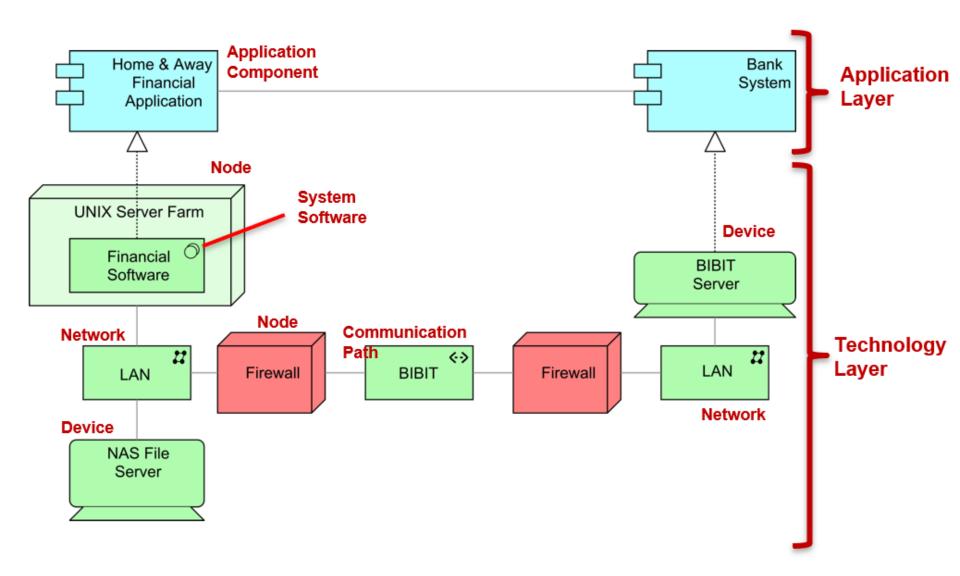
Example of Digital Map at Application Layer



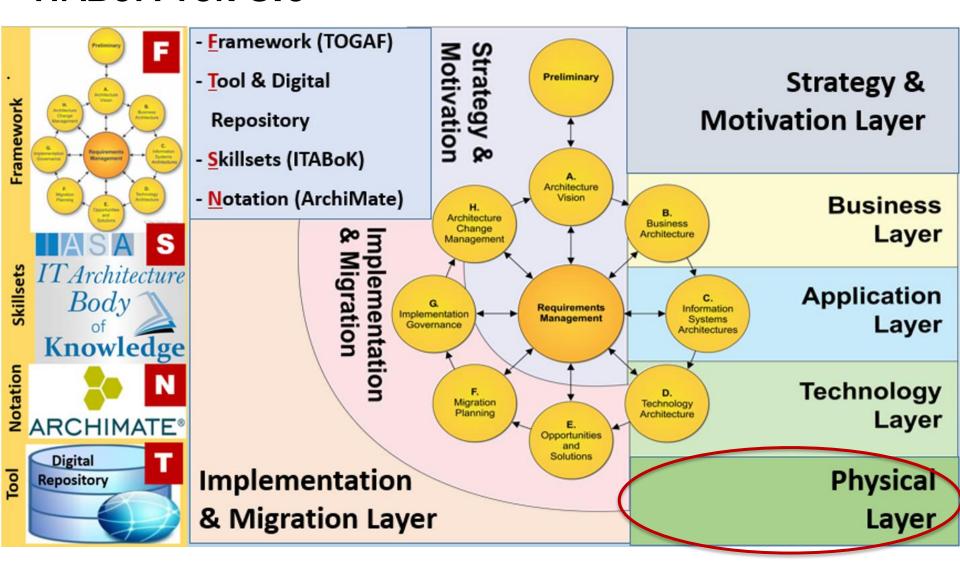
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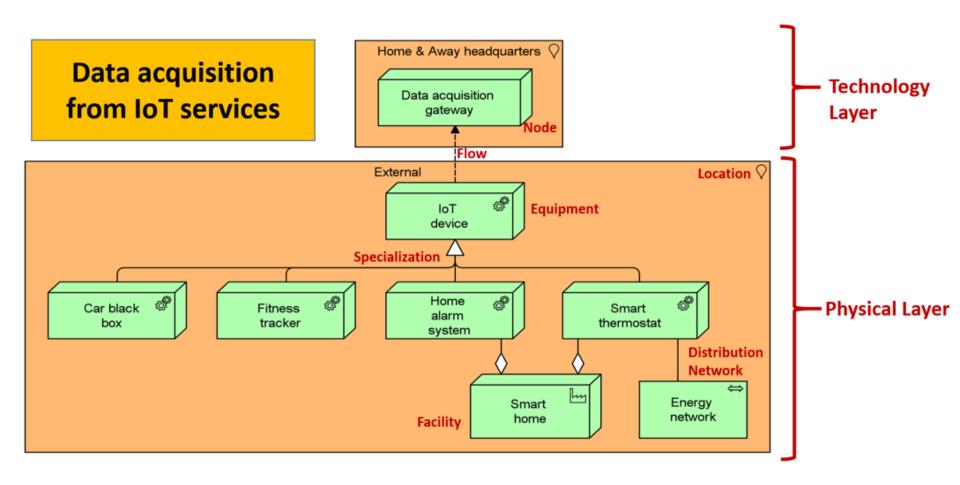
Example of Digital Map at Technology Layer



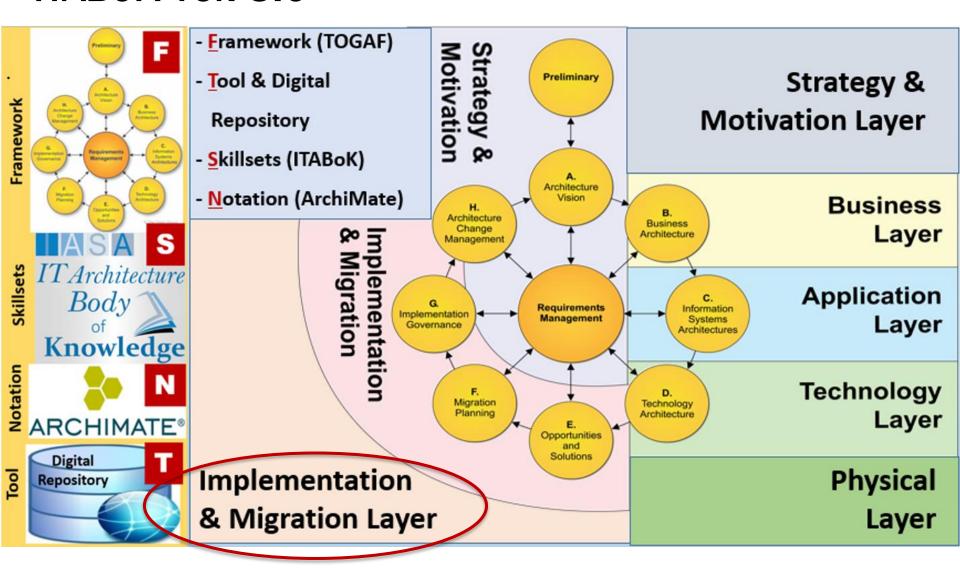
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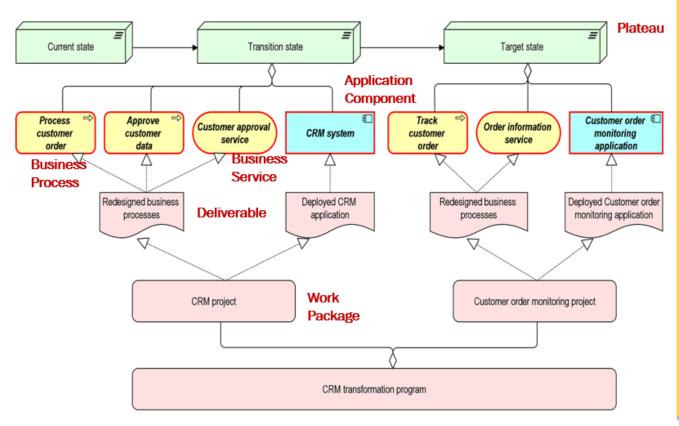
Example of Digital Map at Physical Layer (IoT)



The Mapping of TOGAF 9.2, ArchiMate 3.0.1 & ITABok Ver. 3.0



Example of Digital Map at Implementation & Migration Layer



This model shows **Transformation Program** that is composed of two successive projects, each with distinct deliverables that achieve a sequence of plateaus. The **first** project implements the CRM application, and the **second** implements customer order monitoring.

Thank You

