



**Conference**

Organised By



The Business Technology Architect Association

# Accelerate Digital Innovation for Sustainable Development

**Presented by:**



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Supporting Partners:



# THE CONTEXT OF THE SUSTAINABLE DEVELOPMENT GOAL (SDG) 17-GOALS & ENVIRONMENT SOCIAL

## GOVERNANCE RESULTS

### Sustainable Development Goals

17 interlinked global goals



The **Sustainable Development Goals (SDGs)** is a shared blueprint with **17 interlinked global goals** designed **for peace and prosperity for people and the planet**, now and into the future. The SDGs were set up in 2015 by the [United Nations General Assembly](#) (UN-GA) and are intended to be achieved by 2030 and what is colloquially known as **Agenda 2030**.

### Environmental, social, and corporate governance



**Environmental, Social, and corporate Governance (ESG)** is a framework designed to be integrated into an **organization's strategy to unlock enterprise value**. **Value creation** occurs when the scope of the **organizational objective to create shareholder value** is expanded to include the **identification, assessment and management of sustainability-related risks and opportunities in respect to all organizational stakeholders** (including customers and employees) and the **environment**.



# THE CONTEXT OF SUSTAINABLE DEVELOPMENT GOALS (SDG-17 GOALS) WITH ENVIRONMENTAL, SOCIAL &



# THE REALIZATION OF SDG GOALS & ESG KPIs NEED TO BE SUPPORTED BY THE TECHNOLOGY STACKS

1. We need to know on family and income status

2. We need to know on foods demand & supply

3. We need to know on healthcare and lifestyle

4. We need to know on education level & result

5. We need to know on gender & employment

6. We need to know on clean water supply level

7. We need to know on energy usage & consumption volume

8. We need to know on GDP, Employment and Income level

## What Technology stacks come in mind to realize SDG Goals & ESG KPIs?

9. We need to know on industry & transportation

10. We need to know on jobs and income level

11. We need to know on landscape and population

12. We need to know on wastage and energy usage

13. We need to know on satellite weather climate

14. We need to know on marine live and fishery

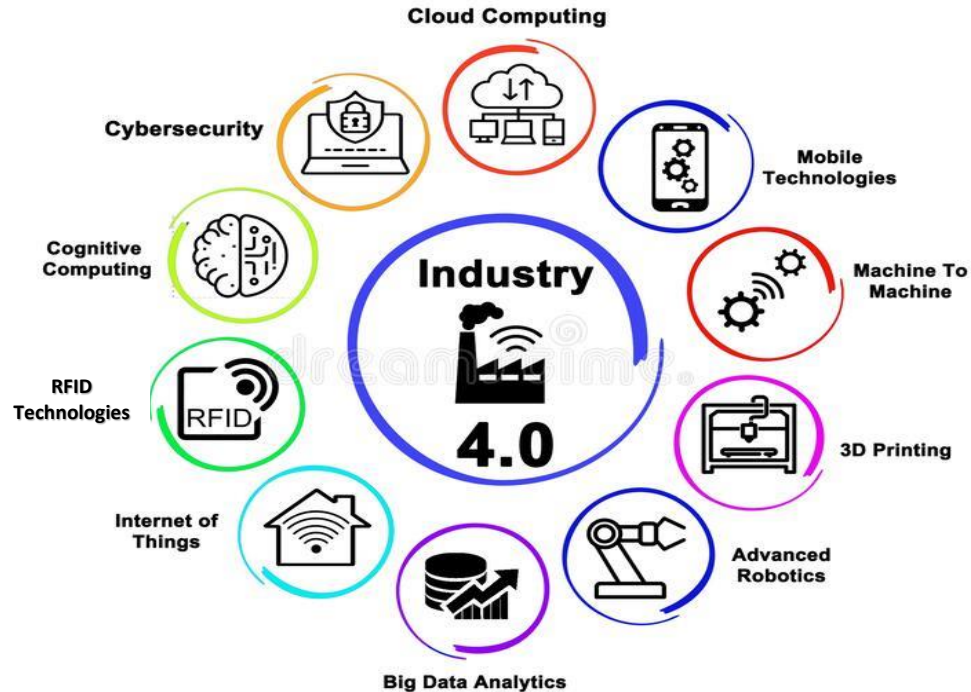
15. We need to know on flora and fauna statistics

16. We need to know on criminal and justice cases

17. We need to know on social activities and events

# THE TECHNOLOGY REQUIRED TO REALIZE SDG GOALS & ESG KPIs – ADOPTION OF IR4.0

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2. We need to know on foods demand & supply
3. We need to know on healthcare and lifestyle
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# THE EIGHT (8) OBSERVATIONS (PITFALLS) OF ESG REALIZATION TODAY

1.) Contact ESG Vendors for Solution

2.) Lack of Business & IT Strategy Integration

3.) Lack of Frameworks & Methods for sustaining ESG KPIs

8.) No Digital Enterprise Architecture (EA)

Environmental, social, and corporate governance



4.) Business as Usual - IT Projects lack of Integration

7.) Lack of Integrated Roadmap Plan

6.) Compliance Oriented Approach & Activities

5.) Not part of the Digital Transformation Journey

# THE CONTEXT OF SUSTAINABLE DEVELOPMENT GOALS (SDG-17 GOALS) – GLOBAL AGENDA 2030



# THE ARCHITECTURE OUTCOMES OF EIGHT (8) OBSERVATIONS – HAIRBALLS ARCHITECTURE

1. We need to know on family and income status

2. We need to know on foods demand & supply

3. We need to know on healthcare and lifestyle

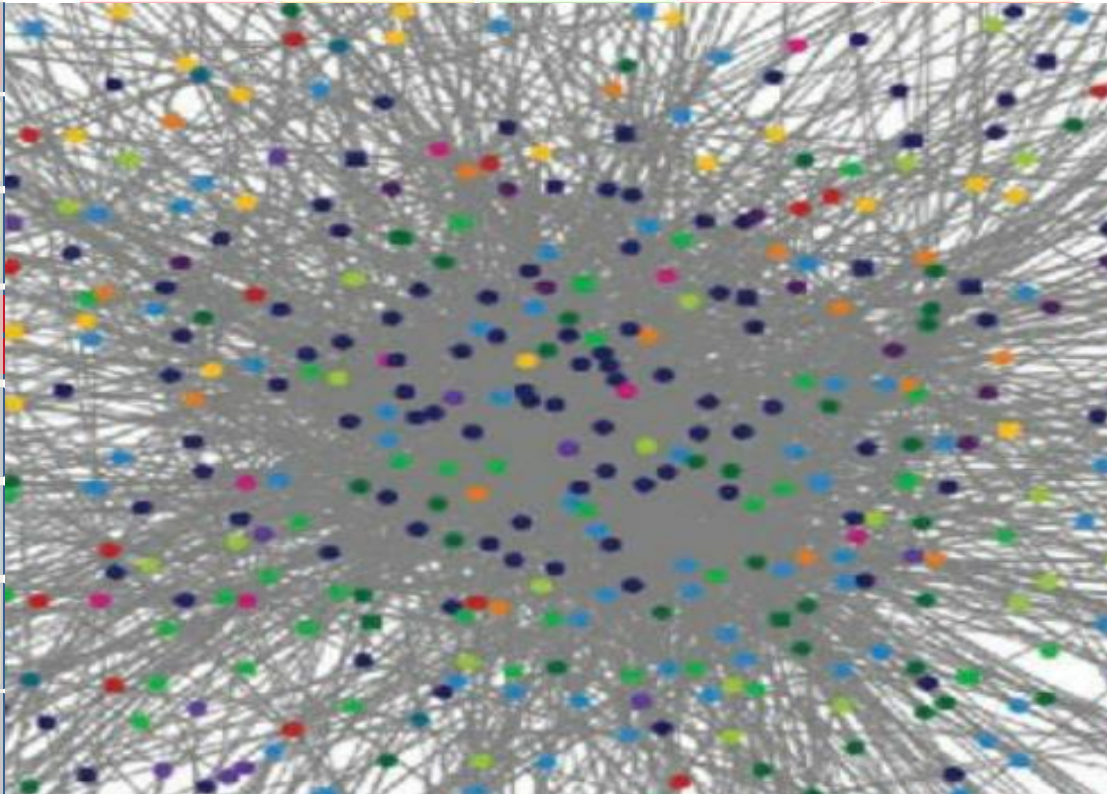
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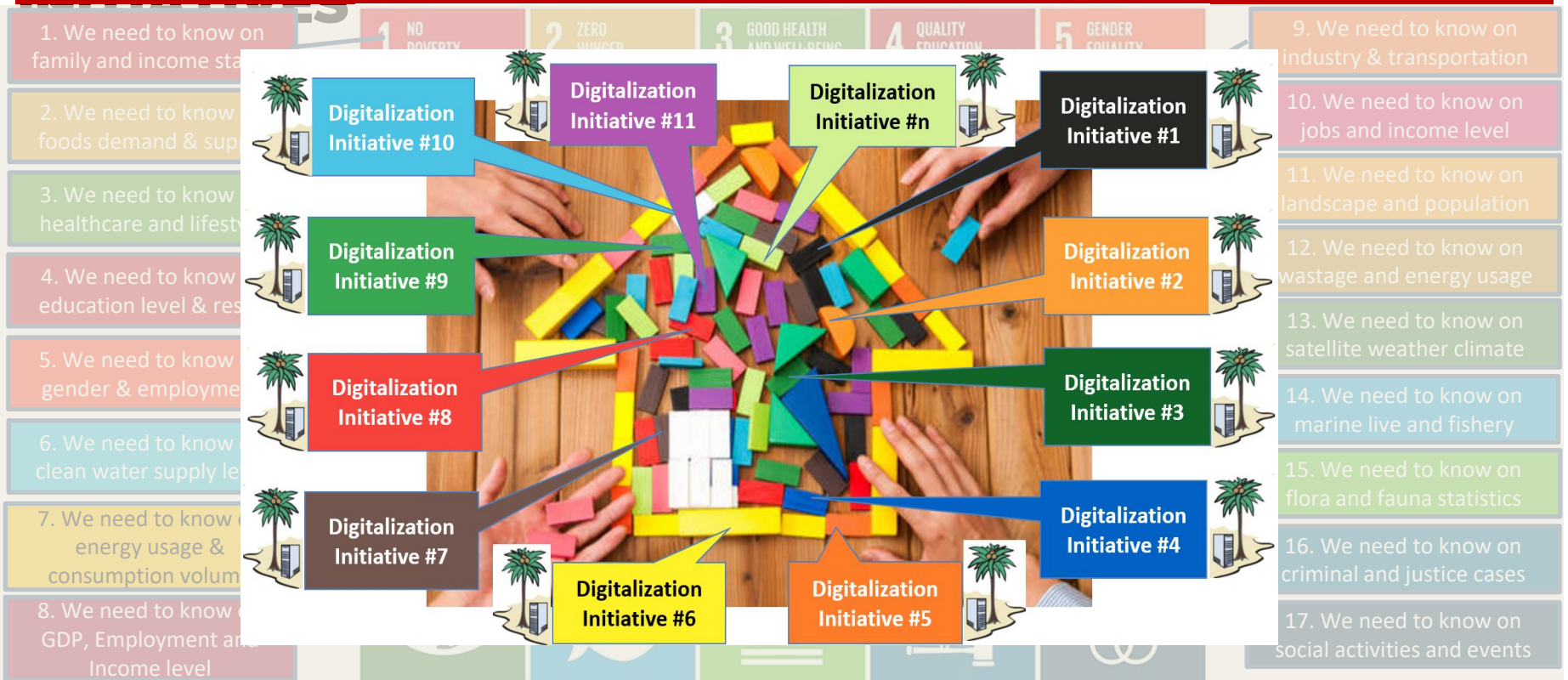
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# THE ARCHITECTURE OUTCOMES OF EIGHT (8) OBSERVATIONS – DUPLICATION OF DIGITAL



# THE ARCHITECTURE OUTCOMES OF EIGHT (8) OBSERVATIONS – PARTIALLY FIT OF BUSINESS & IT

1. We need to know on family and income status

2. We need to know on foods demand & supply

3. We need to know on healthcare and lifestyle

4. We need to know on education level & result

5. We need to know on gender & employment

6. We need to know on clean water supply level

7. We need to know on energy usage & consumption volume

8. We need to know on GDP, Employment and Income level

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

9. We need to know on industry & transportation

10. We need to know on jobs and income level

11. We need to know on landscape and population

12. We need to know on stage and energy usage

13. We need to know on satellite weather climate

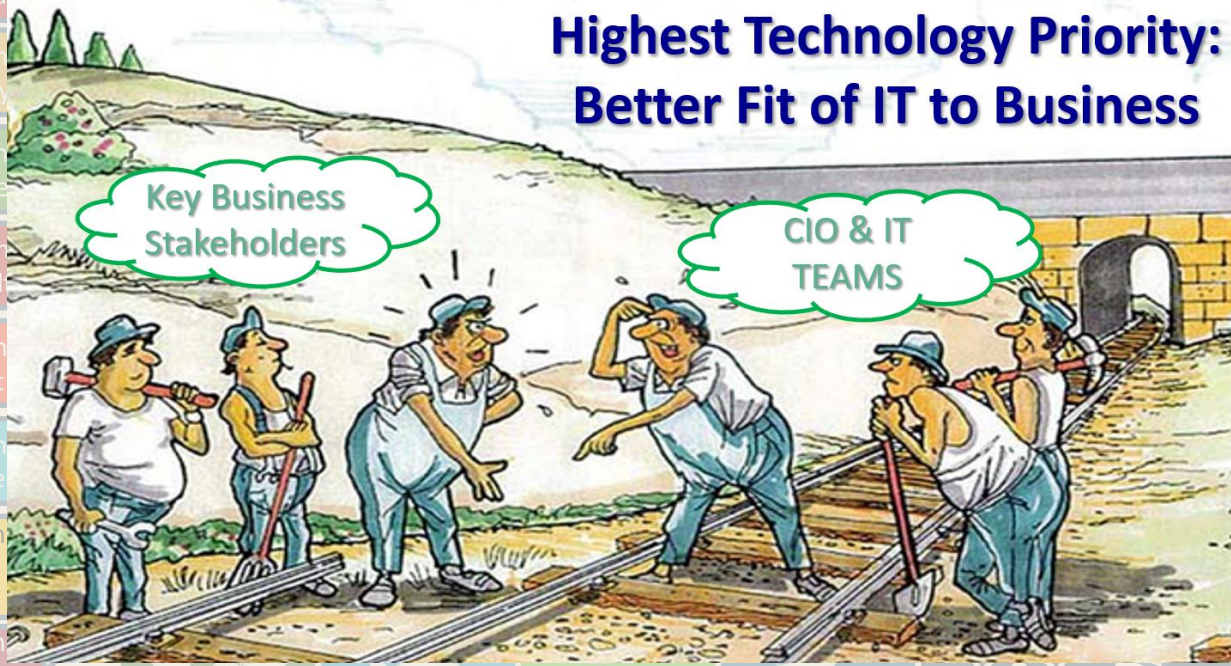
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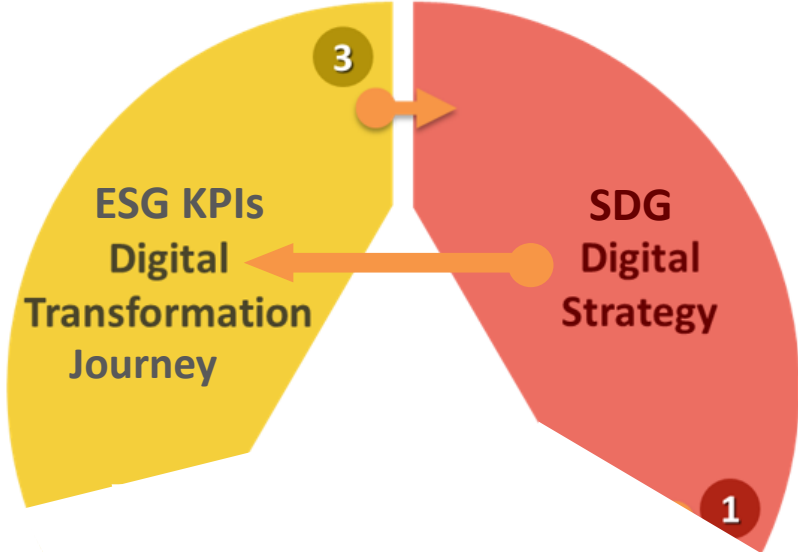
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## Highest Technology Priority: Better Fit of IT to Business



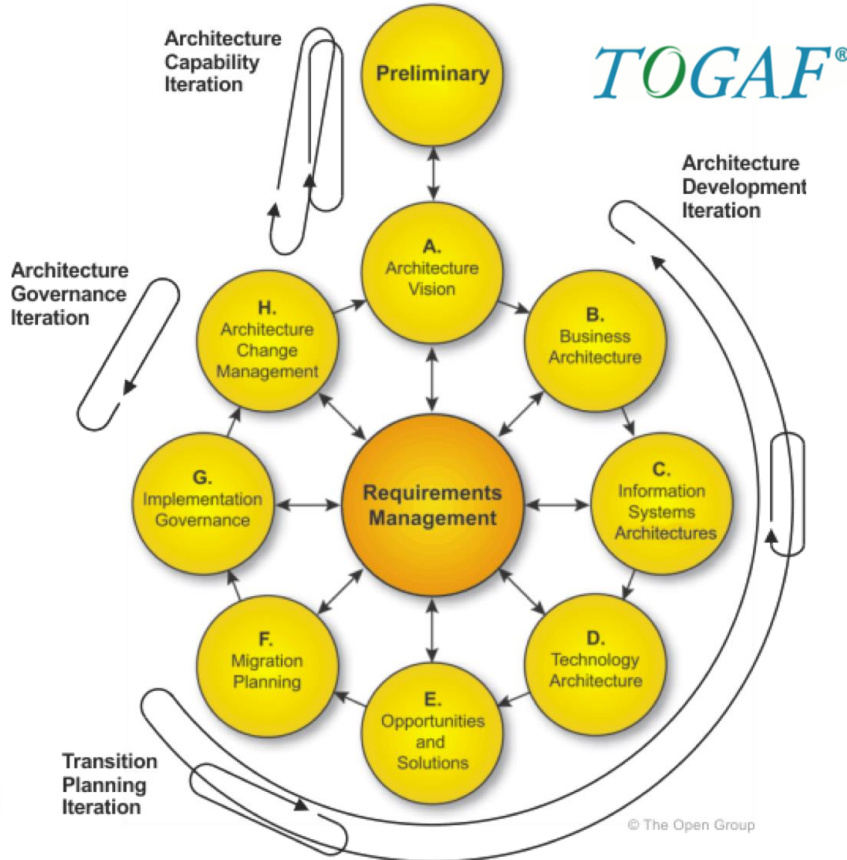
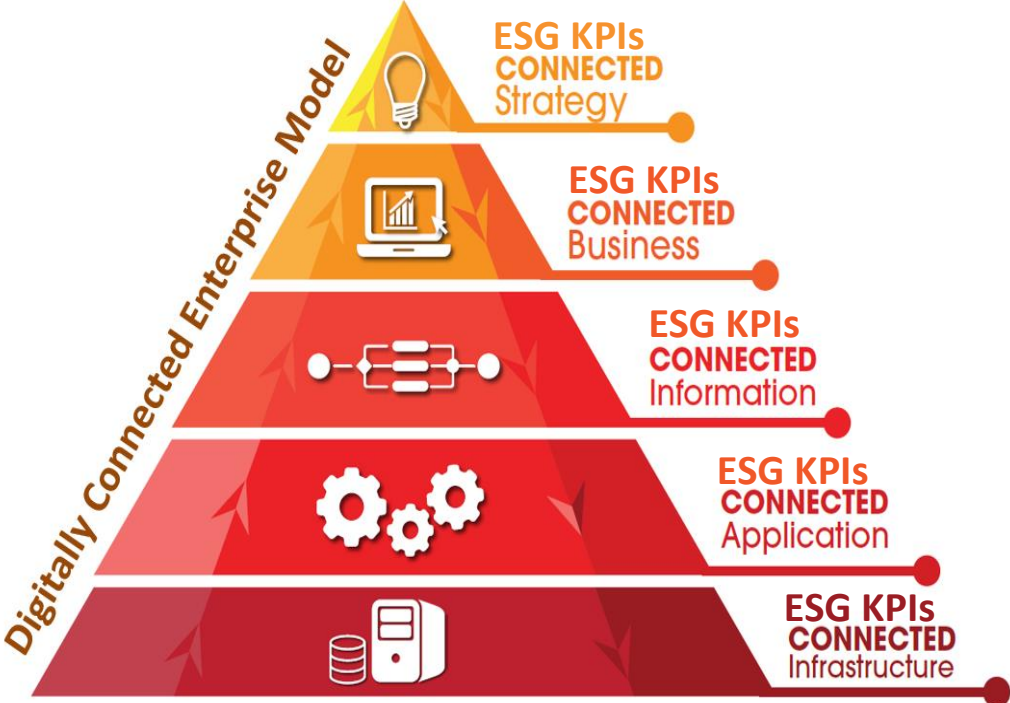
# DIGITAL STRATEGIES REALIZATION & DRIVING SUCCESSFUL DIGITAL TRANSFORMATION IN FULFILING TARGET ESG KPIs with DIGITAL EA



**1** The **Outcome Statement** about organization's Digital Positioning in terms of **Goals, Capability** and **Drivers** in the context of the technology adoption

**3** The **continuous transformation** of the **existing business** through **technology innovations** and **exploitations**

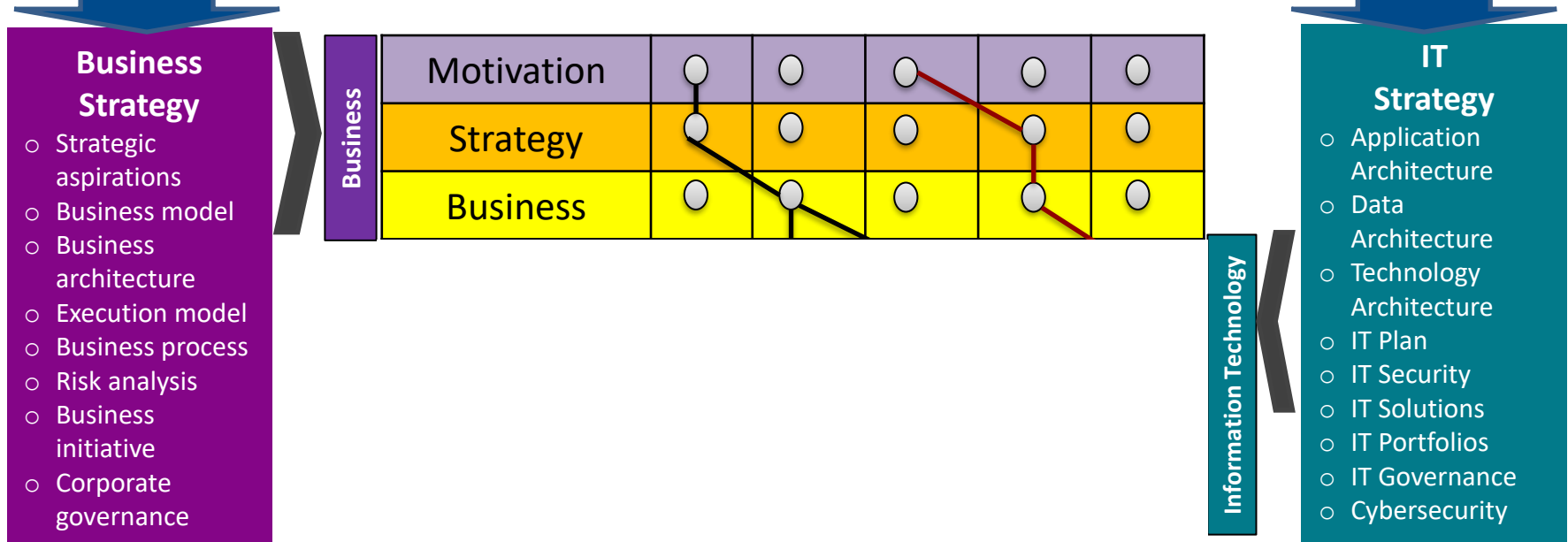
# DIGITAL EA VISION – DIGITALLY CONNECTED ENTERPRISE MODEL

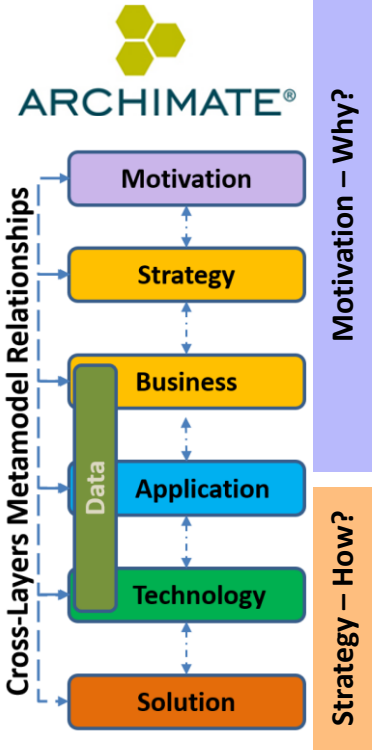


# BUSINESS & IT STRATEGY INTEGRATION WITH DIGITAL EA & 3Cs

Digital EA Addresses 3Cs of Business & IT Strategy Integration  
Collating the Dots | Connecting the Dots | Correcting the Dots

## Digitally Connected Enterprise Model with Digital EA





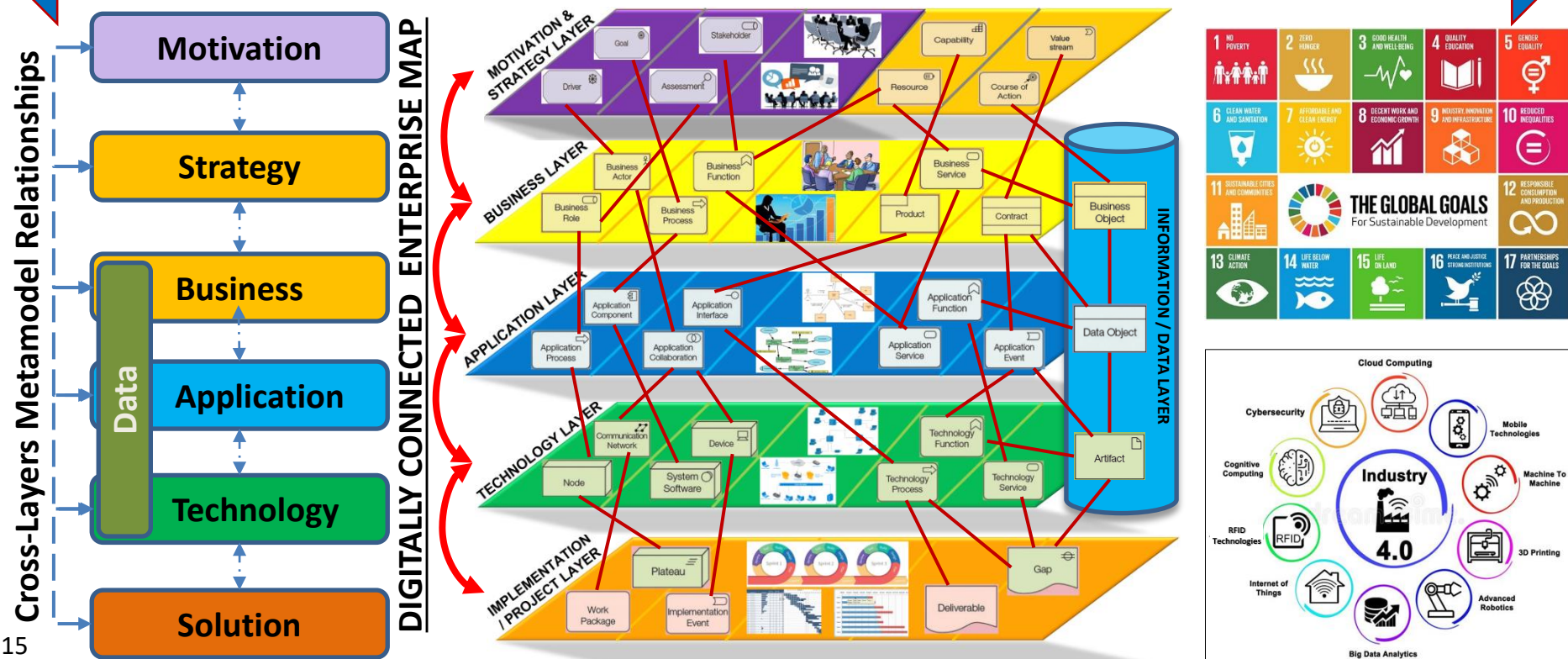
# The Connected Enterprise Model - Why, How, With What & When by What?

Implementation  
 – When by  
 What?

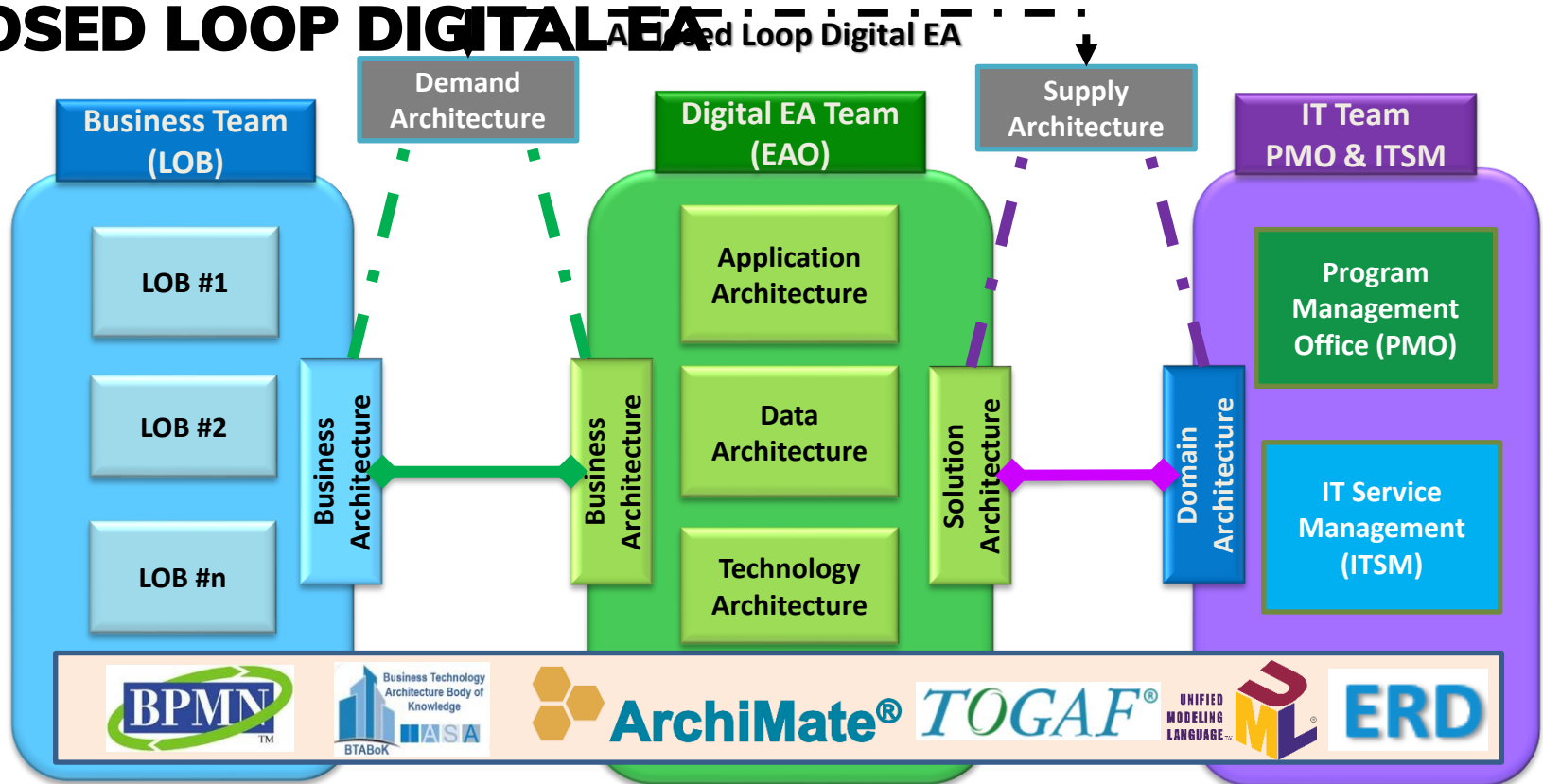
Solution  
 Technology Layer  
 Application Layer  
 Business Layer

# EXAMPLE - DIGITAL EA MODEL FOR REALIZATION OF SDG & ESG

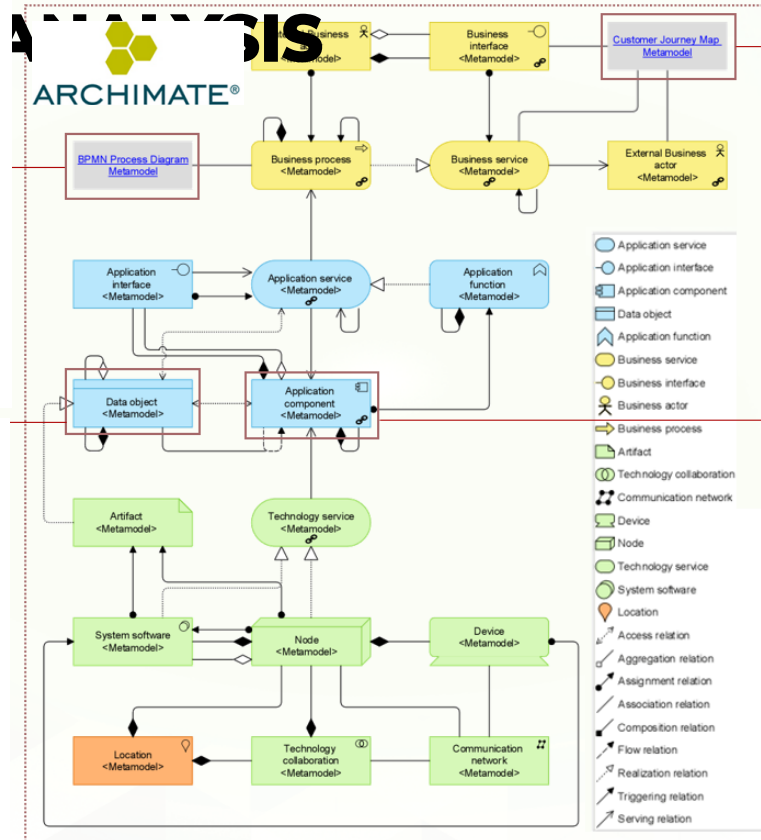
## Digital Twin of Enterprise



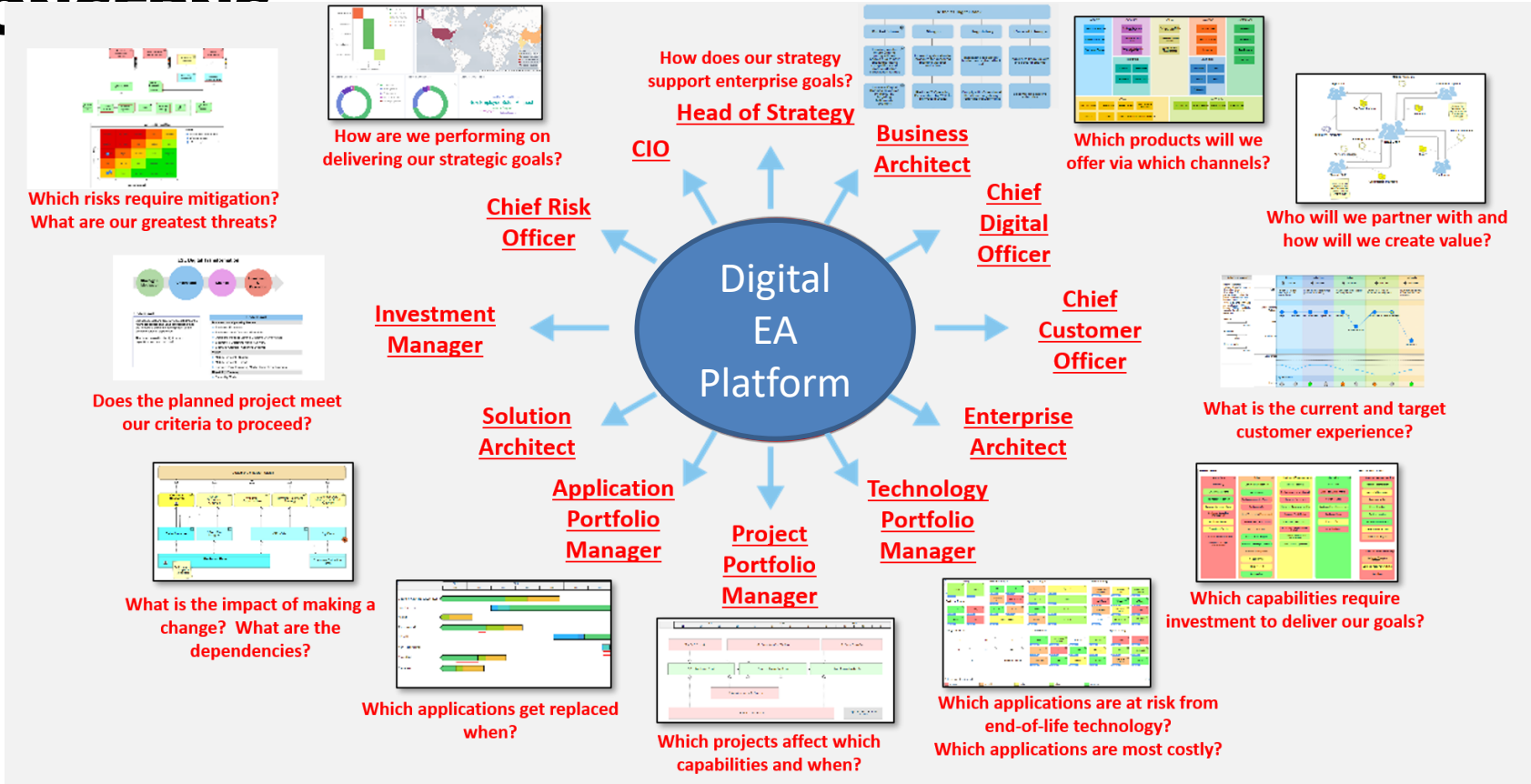
# THE MODEL OF CONNECTED ENTERPRISE DIVISIONS ACROSS TEAMS & LINE OF BUSINESSES (LOB) – A CLOSED LOOP DIGITAL EA



# EXAMPLE OF THE CONNECTED ENTERPRISE METAMODEL USING CJM, ArchiMate®, BPMN, ERD & UML for ROUND-

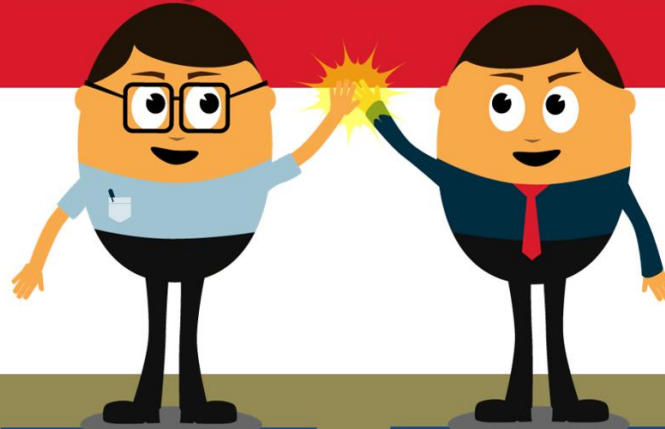


# DIGITAL EA TO ADDRESS VARIOUS STAKEHOLDERS' CONCERNS



# END OF PRESENTATION

Driving Digital  
Transformation through  
Enterprise Architecture



Mr. Tech

Mr. Biz