

Empowering Digital Workforce with Digital Enterprise Architecture Capability & Competency

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ATD Corporate Profile



- ATD was incorporated in 2006 by a group of skilled and passionate industry thought leaders.
- To address a distinct gap in Business and IT integration.
- Asian Digital Enterprise Architecture (Digital EA) industry pioneer.
- ATD firmly believe that every organisations must be transformed digitally to build competitive advantages.

South-East Asia Presence:



Our specialised services consist of:



Architecting Transformation Digitally

ATD Corporate Profile – ATD Learning



ATD is proud to be the

- **IASA** authorised provider and distributor of all Enterprise Architecture training & certification programs in Asia Pacific
- **The Open Group TOGAF®** and **ArchiMate®** Accredited Training Provider and
- **ISACA COBIT®** Accredited Training Organization



Trust in, and value from, information systems



ATD Clients – EA Award’s Winners for ATD Consulting



The EA Winners of the Open Group President Awards in 2018, 2019 & 2023



MINISTRY OF FINANCE OF THE REPUBLIC OF INDONESIA (MoF RI)



Ministry of Housing & Local Government Malaysia



2018 Bangalore Awards THE Open GROUP Winners
MAMPU's 1GovEA is an example of driving Enterprise Architecture for a central government by leveraging the TOGAF® Architecture Development Method.

The core team ensured that the business objectives, financial commitment and capability building remained the focus areas during this transformation, which led to successful implementation and realization of benefits.



Name	Award Type	Country
23 National Housing Department (PN) [Photo]	Award of Distinction	Malaysia
24 Ministry of Urban Wellbeing, Housing and Local Government, Malaysia (KPCT) [Photo]	Award of Distinction	Malaysia
25 Moneylenders and Pawnbrokers Division (BPWG) [Photo]	Award of Distinction	Malaysia
26 Ministry of Urban Wellbeing, Housing and Local Government, Malaysia (KPCT) [Photo]	Award of Distinction	Malaysia



The Open Group Awards THE Open GROUP Kochi 2019
The BPS team has developed an innovative framework and managed and aggregated diverse datasets to provide the required business intelligence. The magnitude and diversity of the data and its variance lead to a data driven architecture that clearly merits this award.

Forrester® TOP-10 EA Awards 2020 & 2022



EA Artefacts Deliverables Reviewed & Endorsed by



MINISTRY OF URBAN WELLBEING, HOUSING AND LOCAL GOVERNMENT, MALAYSIA



BANK NEGARA MALAYSIA
CENTRAL BANK OF MALAYSIA



INSTITUT JANTUNG NEGARA
National Heart Institute



BURSA MALAYSIA



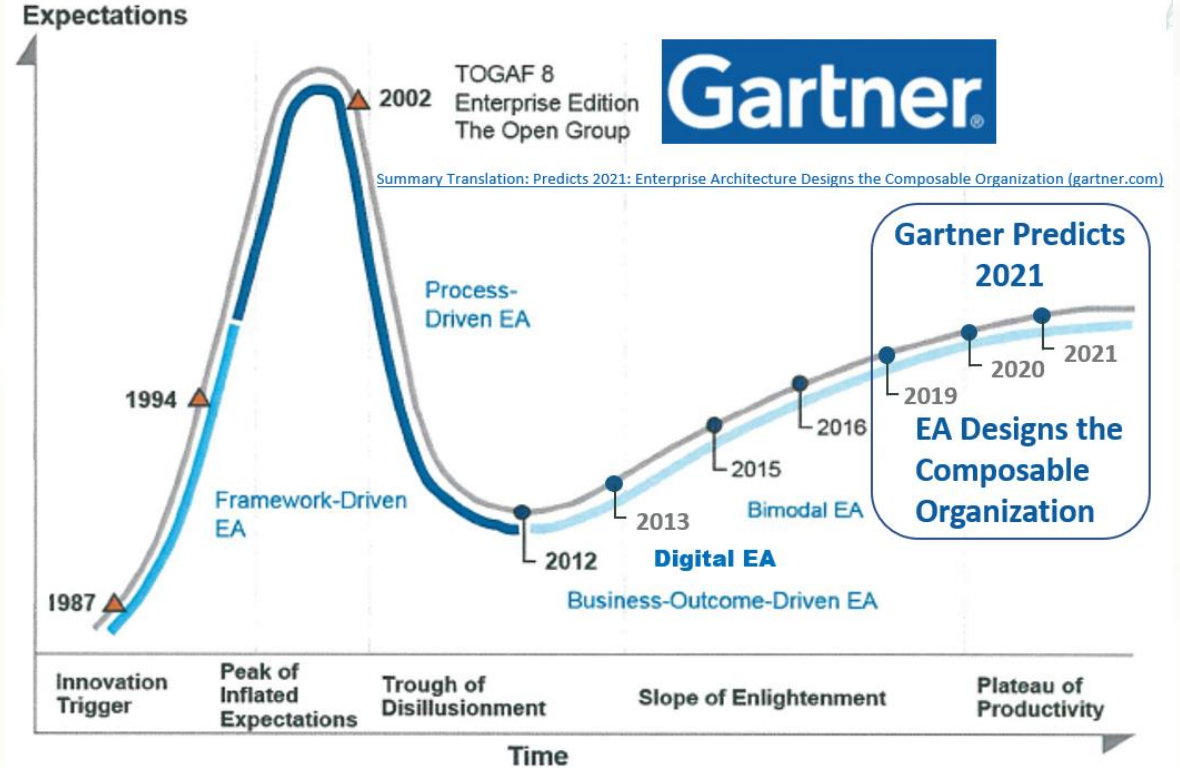
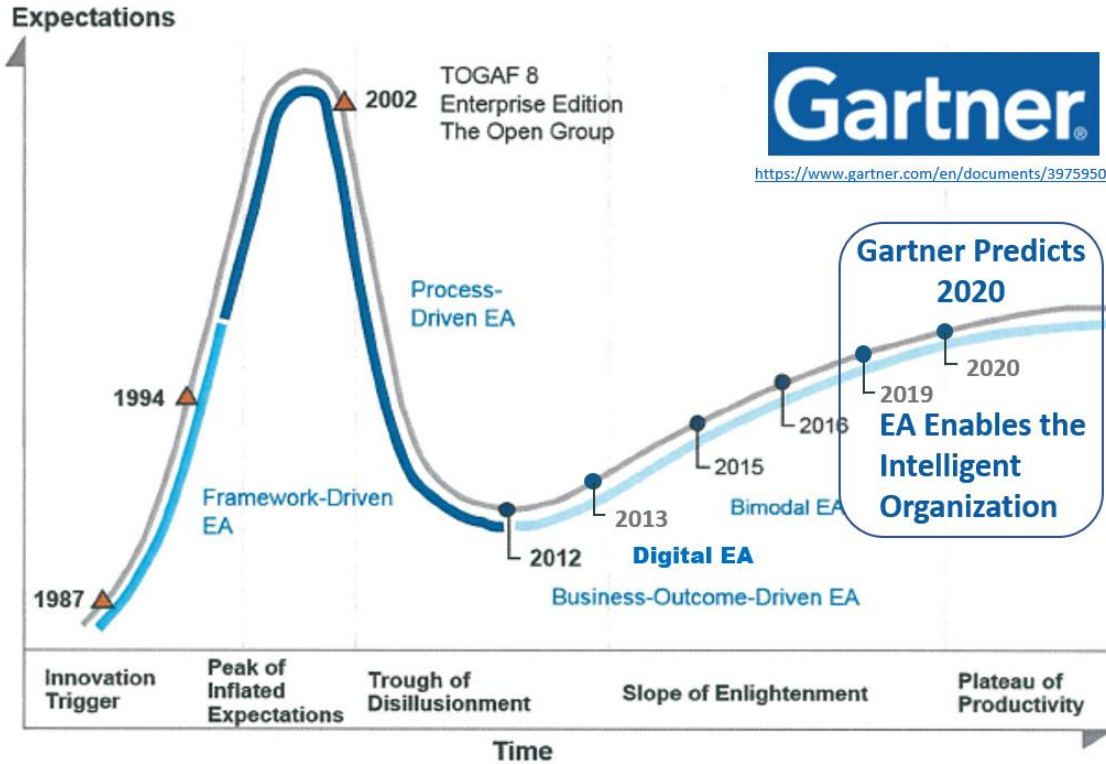
Permodalan Nasional Berhad



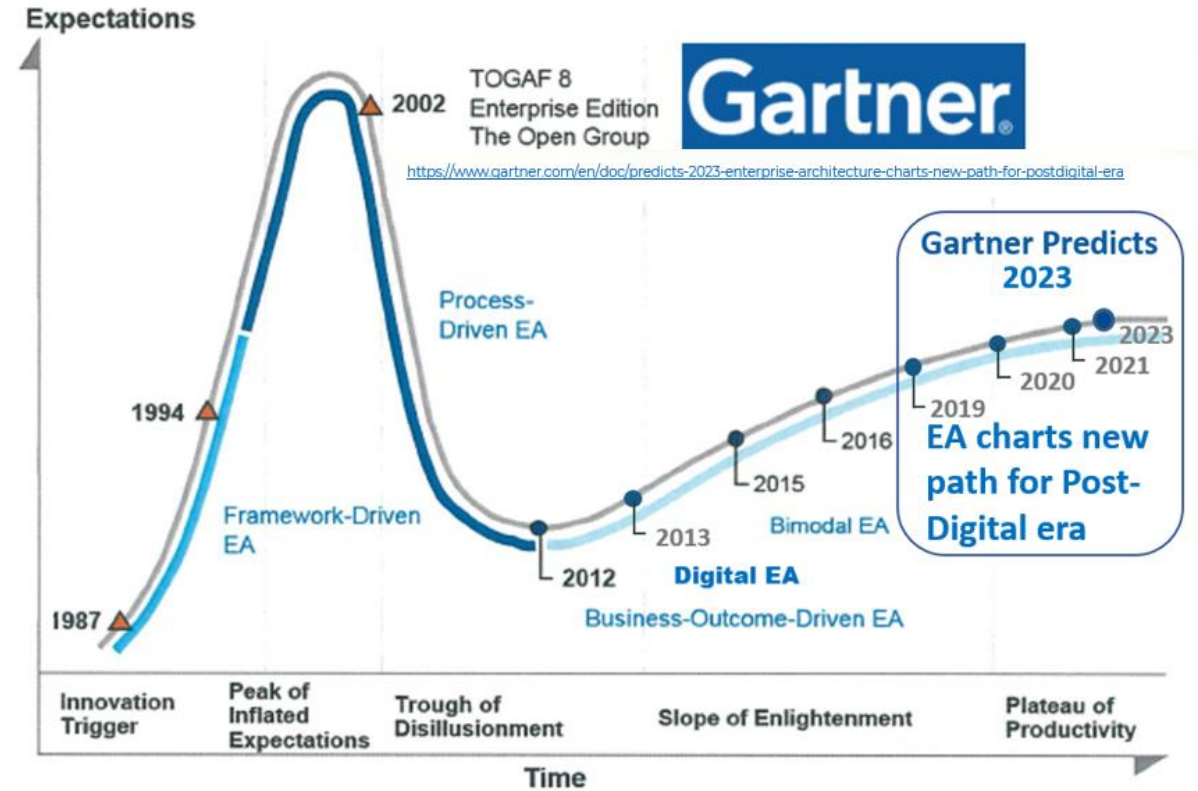
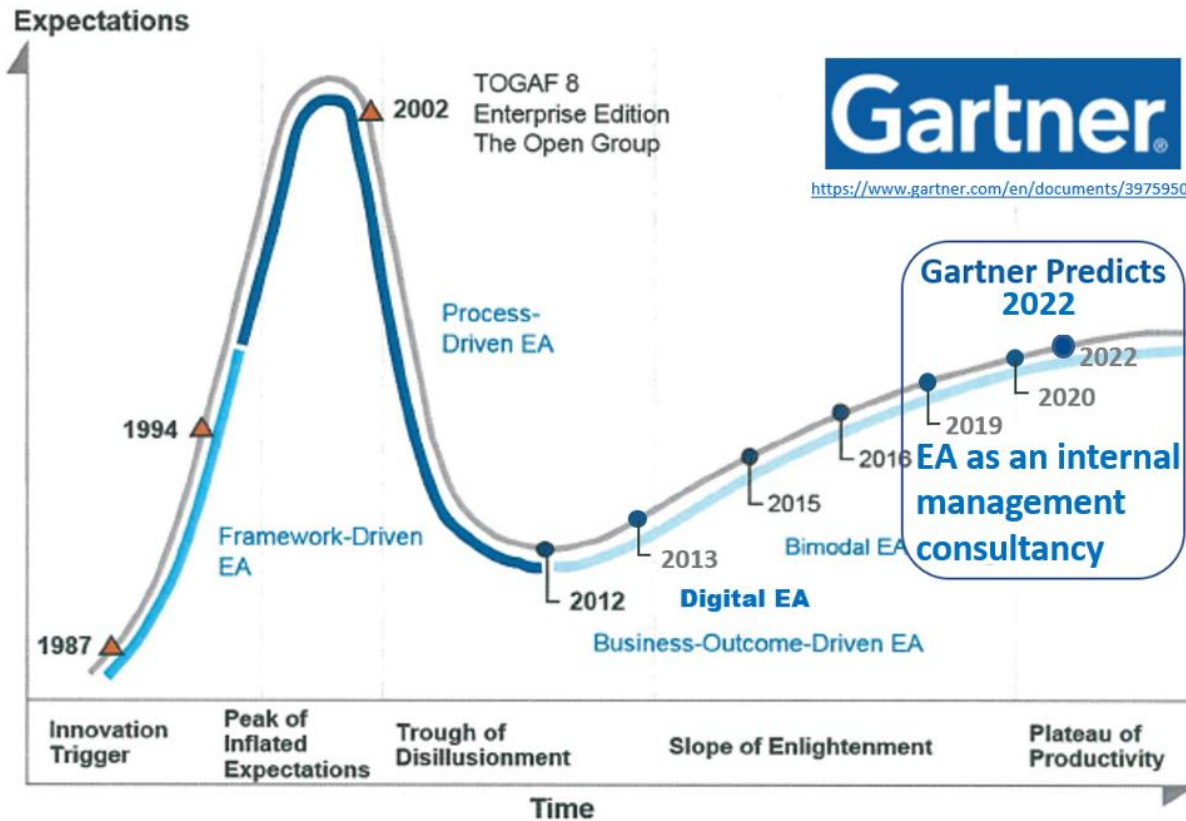
Driving Transformation

Why EA?

Gartner® Enterprise Architecture (EA) Predicts 2020 & 2021



Gartner® Enterprise Architecture (EA) Predicts 2022 & 2023



EA Charts New Path for Post Digital Era by Gartner®

The Mandate: Enterprise Architecture leaders are required to support digital business design and strategy development and realization that address:

1) Business Architecture to support **VUCA** planning

*“By 2027, 50% of extra-large organizations will use **business architecture** to advance **strategic planning** in the face of **Volatility, Uncertainty, Complexity and Ambiguity (VUCA)**.”*

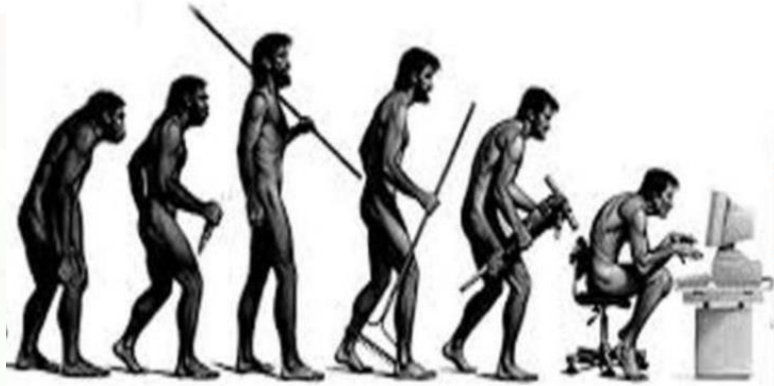
2) ESG Strategy development and realization

*“By 2026, **business-outcome-focused EA teams** supporting **Environmental, Social & Governance (ESG)** initiatives will outnumber those focused on IT management alone.”*

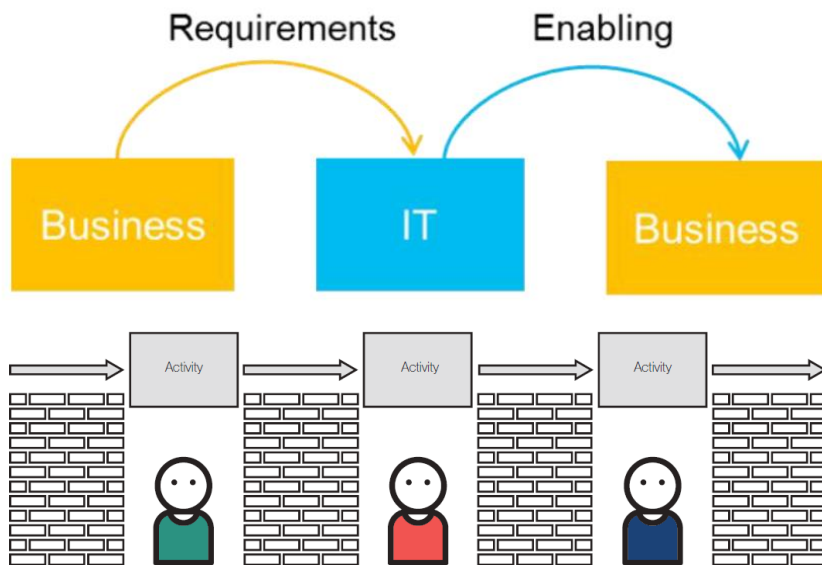


Moving from computerization to digitalisation

The Era of Computerisation



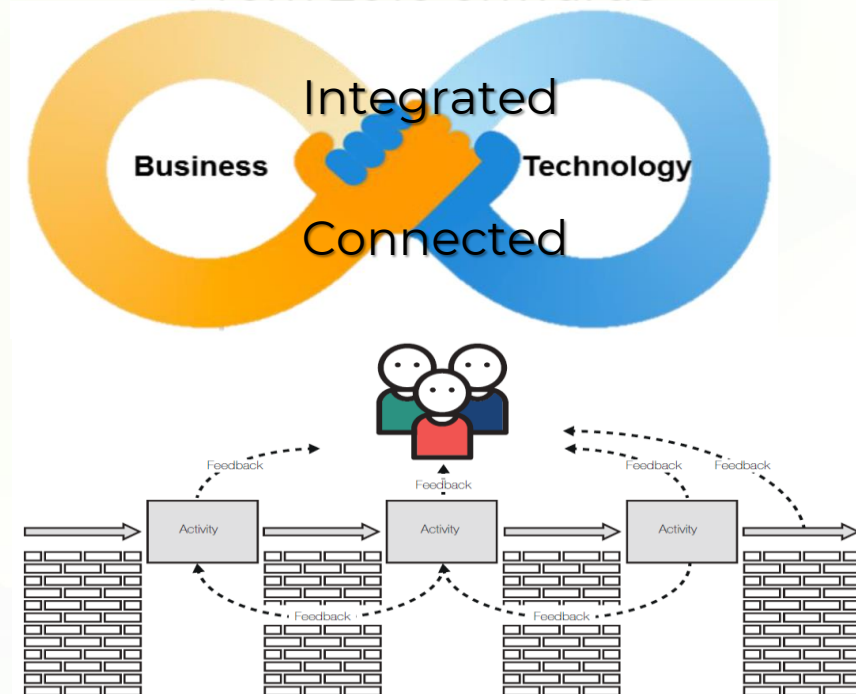
From 1980 to 2010



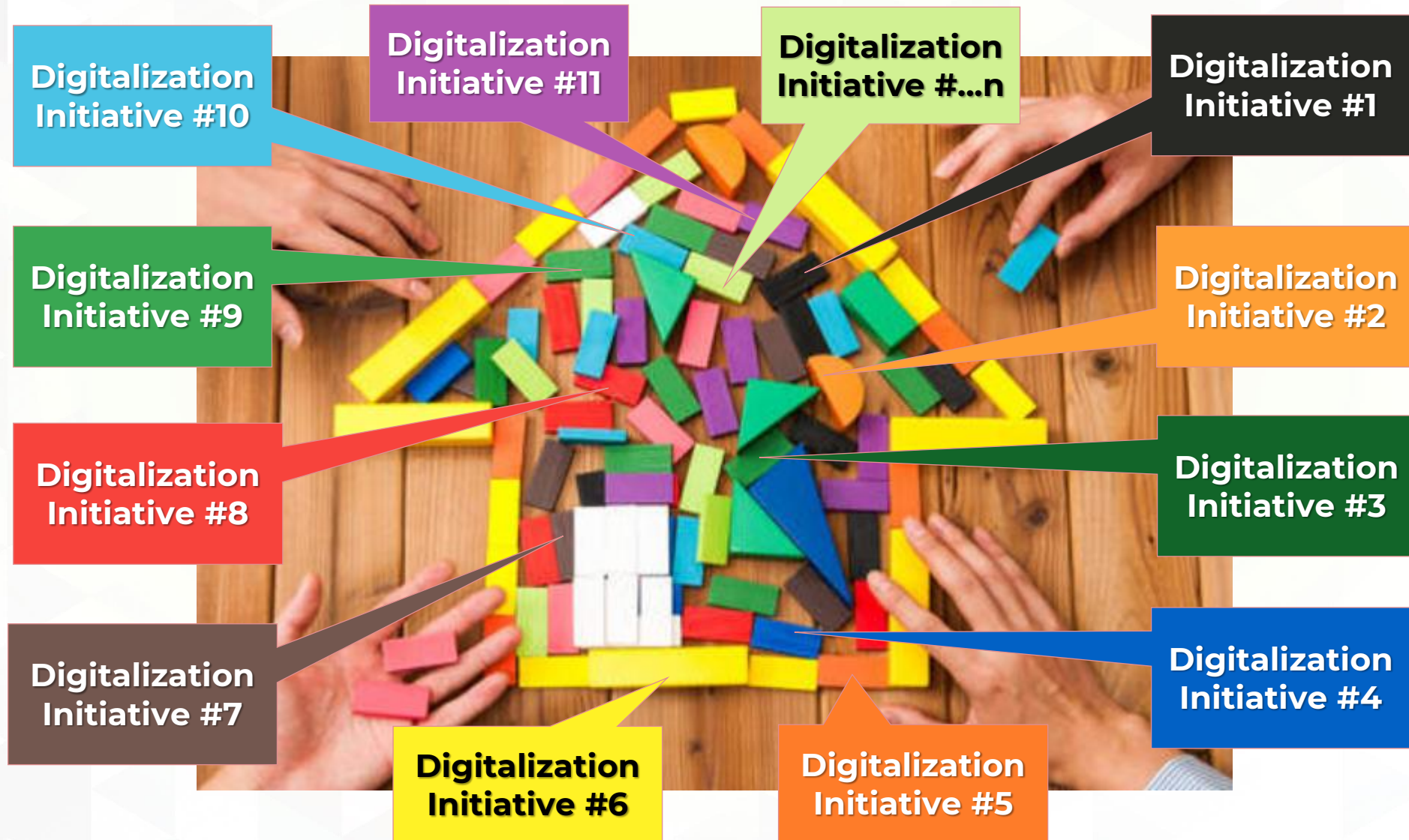
The Era of Digitalisation



From 2010 onwards

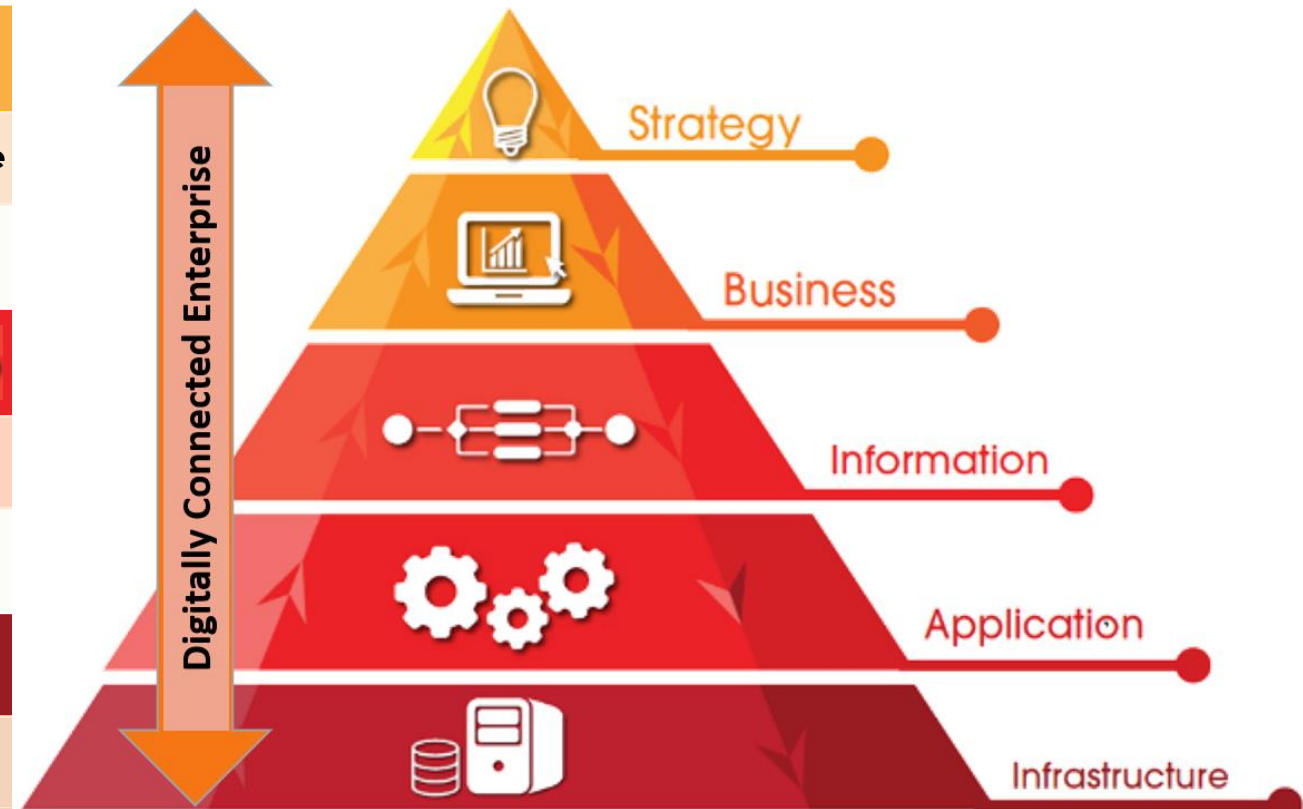
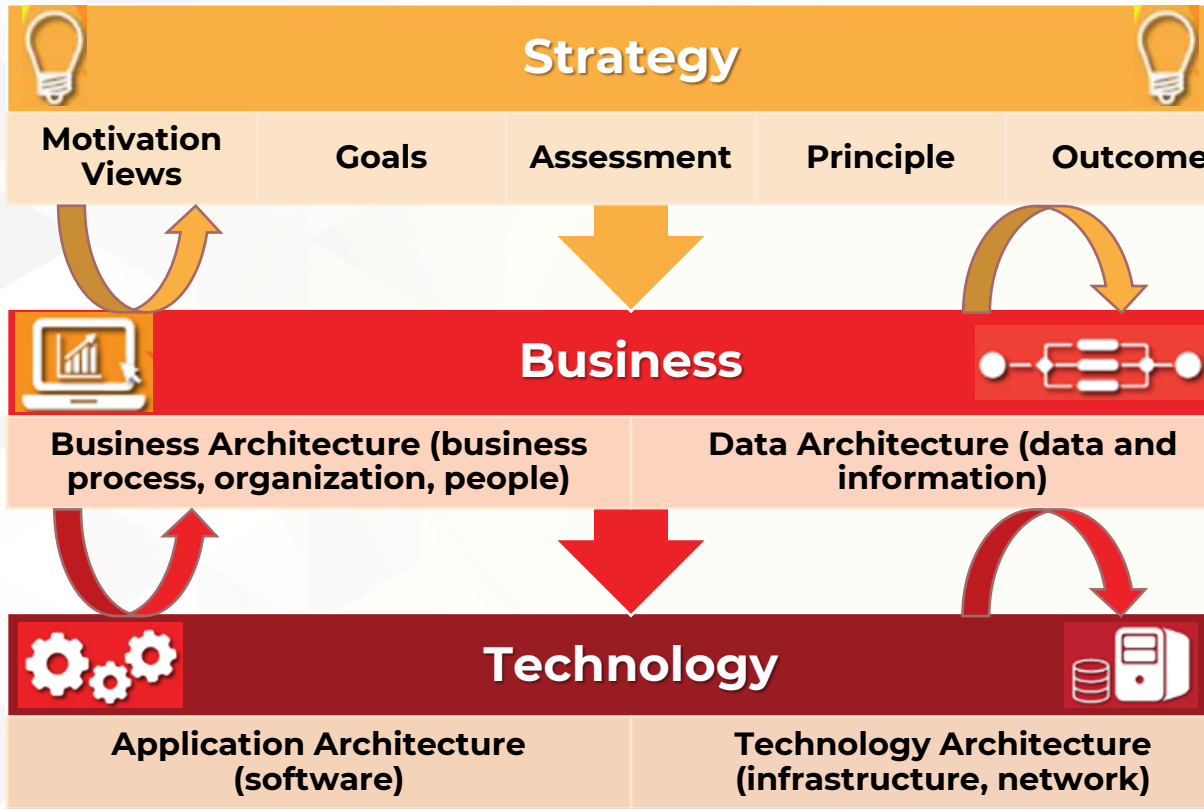


The reality on where we are now in the Post-Pandemic Era...

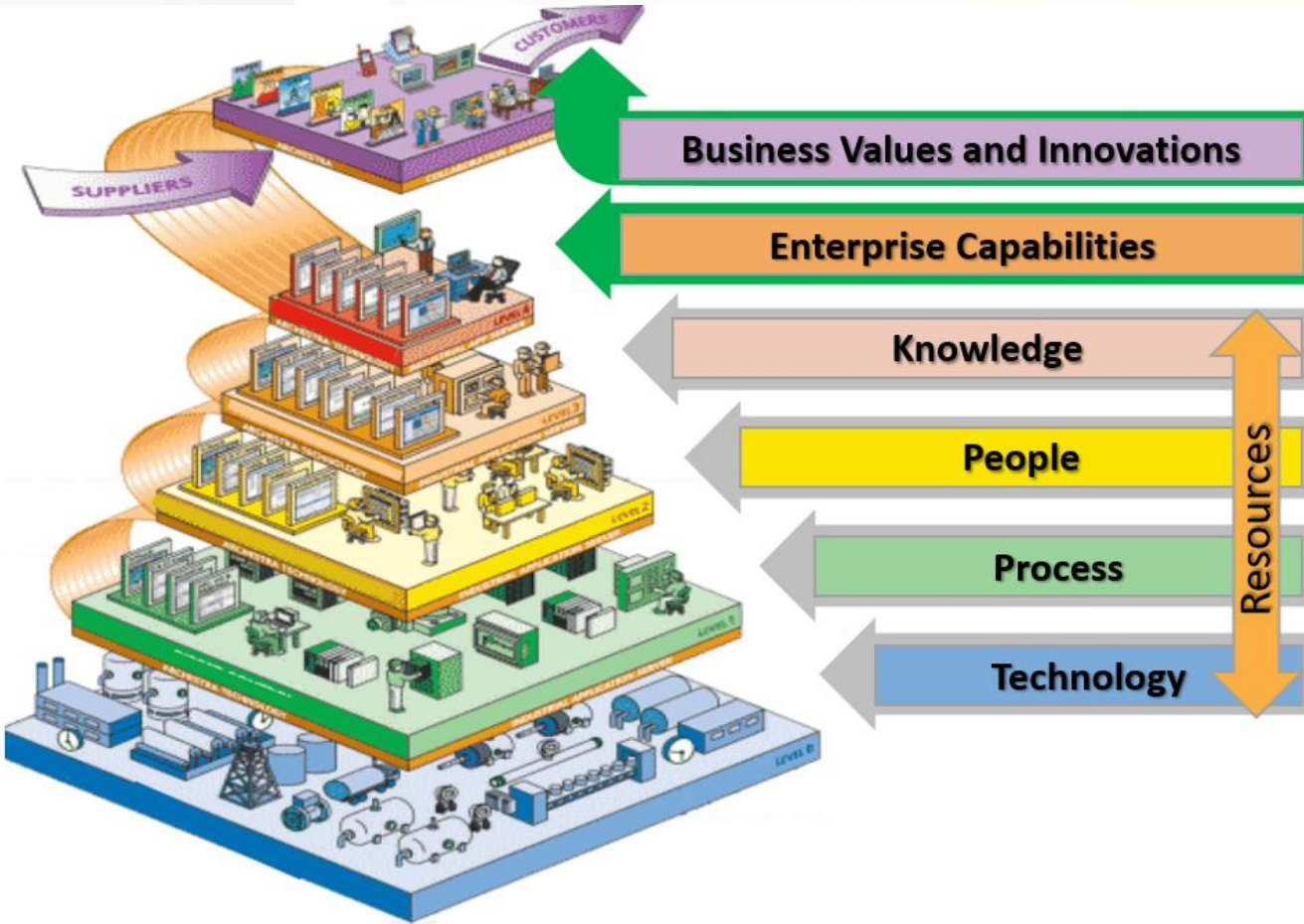


What's EA?

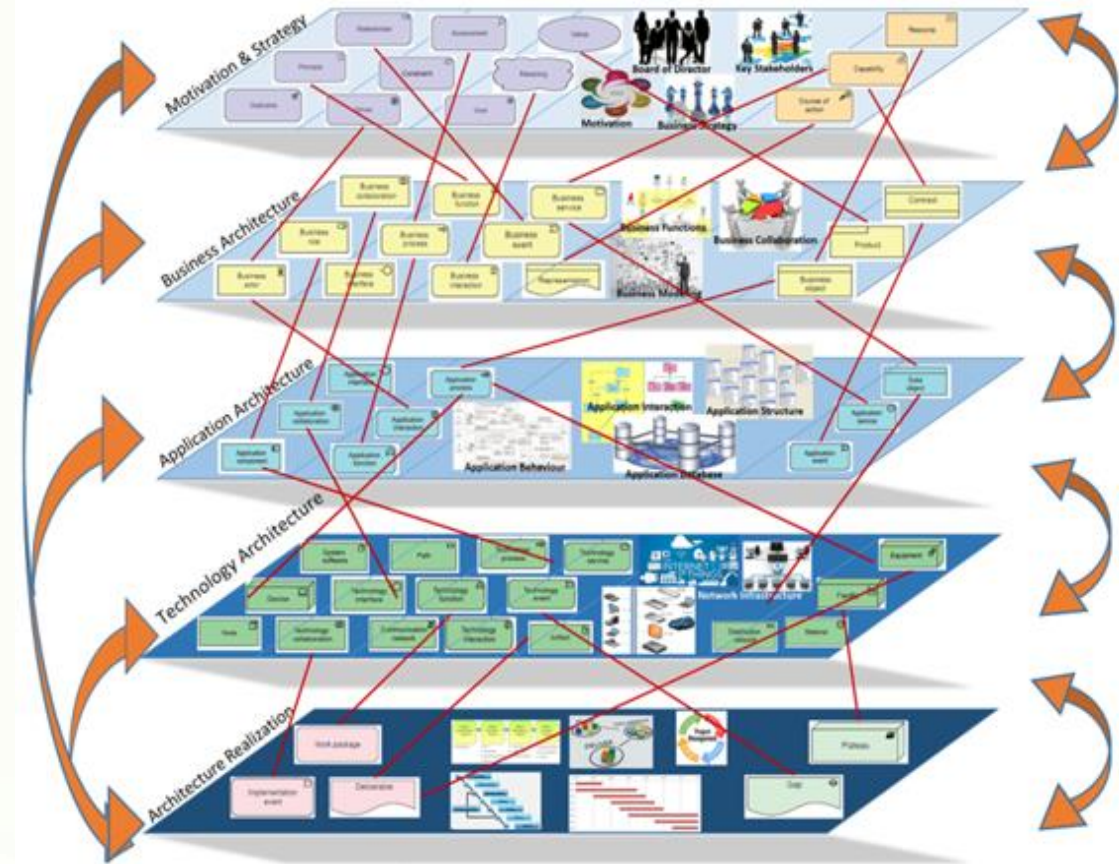
Digitally Connected Enterprise



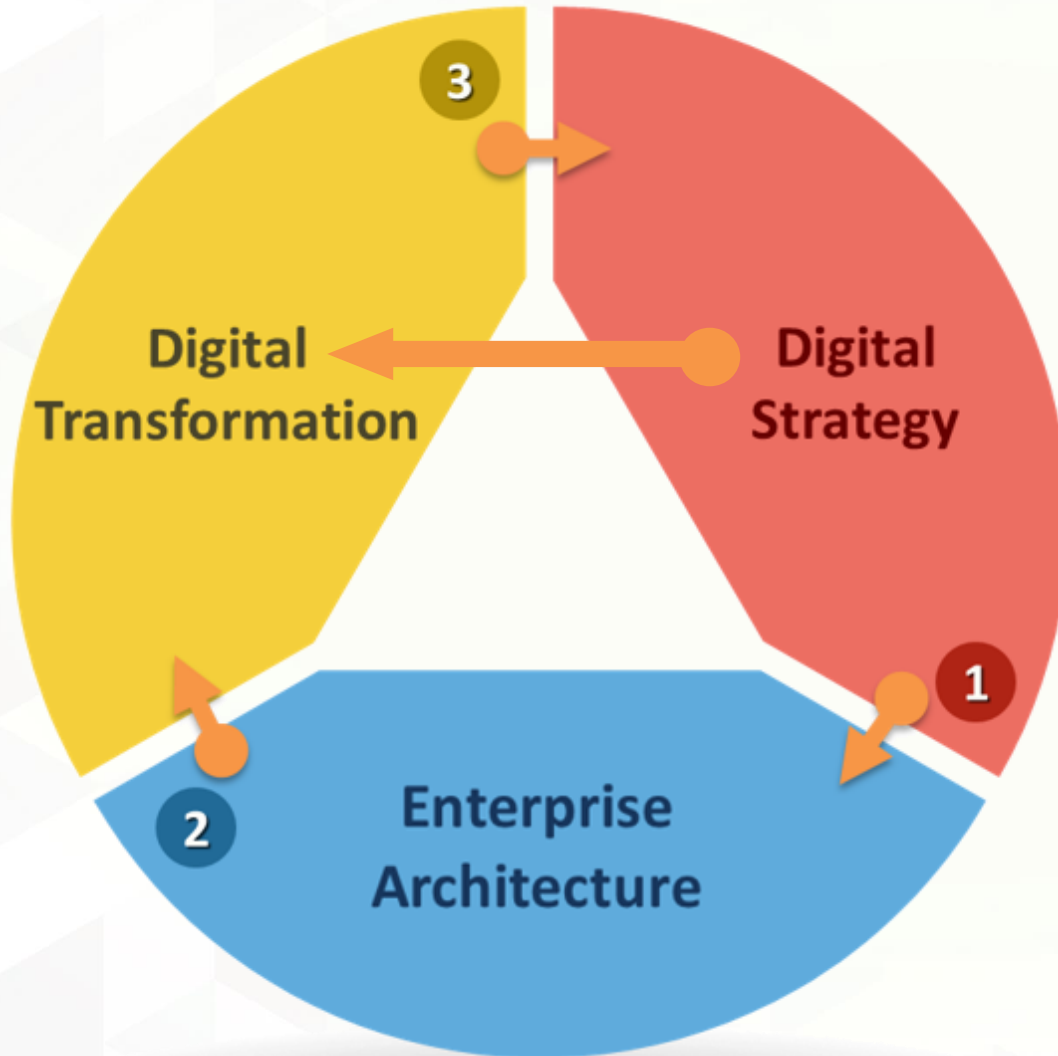
Digitally Connected Enterprise with Digital EA Map



Digital Enterprise Architecture Map



EA in Driving Successful Digital Transformation



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

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

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

What's next?

What is Enterprise Architecture?

Refer to definition of other Existing Professions?



Building Architecture:

The **art** and **science** of designing and erecting buildings. i.e. the building architecture profession.



Medicine:

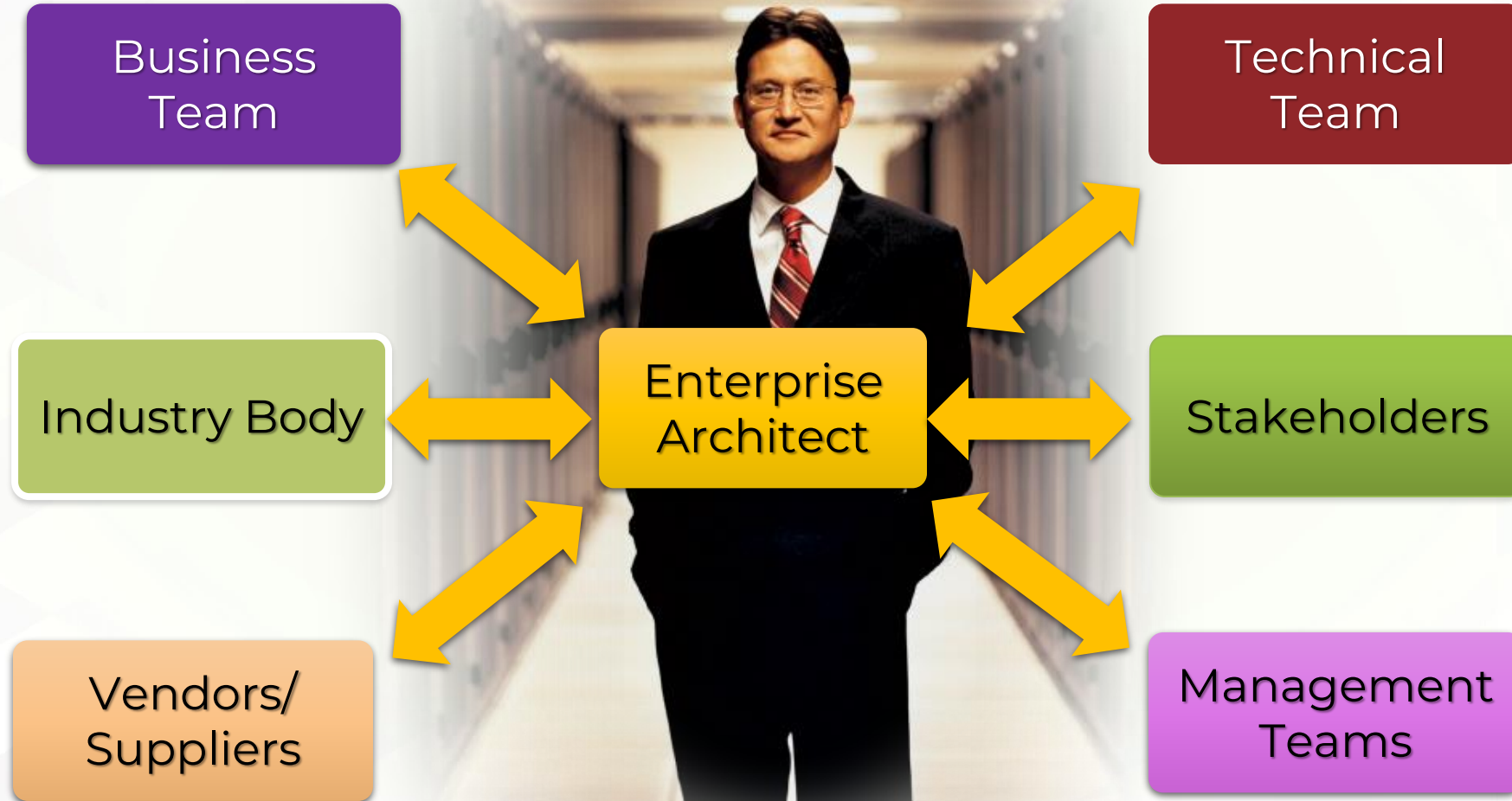
The **art** and **science** of treating disease with drugs or curative substances, as distinguished from surgery and obstetrics. i.e. the medical profession.



Enterprise Architecture (IASA):

The **art** and **science** of designing and delivering valuable technology strategy for the **business**. i.e. the Enterprise Architecture profession.

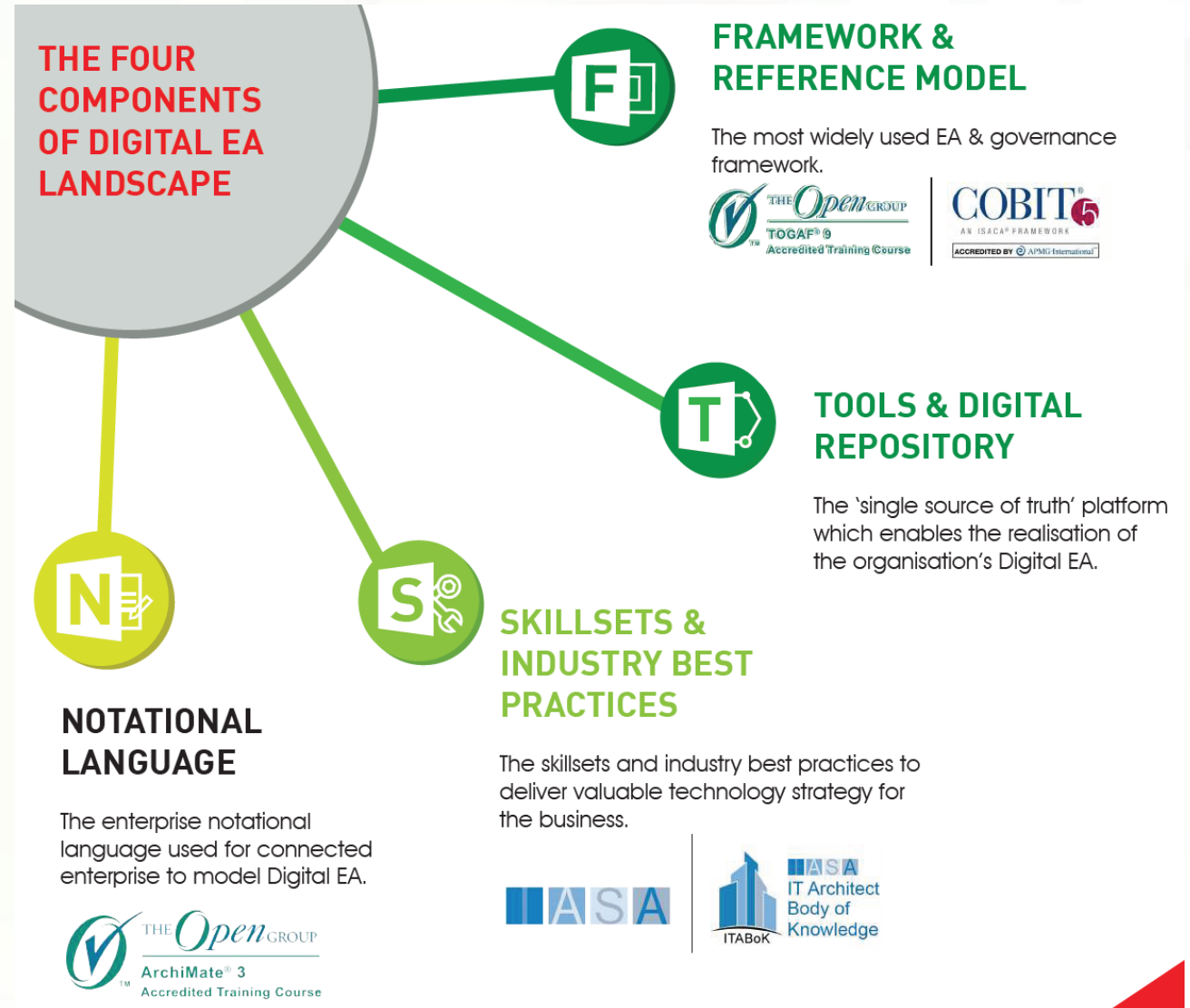
Strategic Engagements of Enterprise Architects



Enterprise Architecture as the KEY to Establishing Business + IT Integration

Successful EA Competency

- **ATD Learning** provides a recommended best practice training road map to help enhance the staff competencies and its professionals from Fundamentals to Specializations based on the 4-Areas of focus i.e. F – T – S – N



Architecture Skills Framework

The TOGAF team skill set will need to include the following main categories of skills:

1. **Generic Skills:** leadership, team working, inter-personal skills, etc.
2. **Business Skills & Methods:** business cases, business process, strategic planning, etc.
3. **Enterprise Architecture Skills:** modeling, building block design, applications and role design, systems integration, etc.
4. **Program or Project Management Skills:** managing business change, project management methods and tools, etc.
5. **IT General Knowledge Skills:** brokering applications, asset management, migration planning, SLAs, etc.
6. **Technical IT Skills:** software engineering, security, data interchange, data management, etc.
7. **Legal Environment:** data protection laws, contract law, procurement law, fraud, etc.



The IASA BTABoK Skillsets Pillar & Architect Specializations



ENTERPRISE ARCHITECTURE SPECIALIZATIONS



Business Architecture

Information Architecture

Software Architecture

Infrastructure Architecture

Solution Architecture

Business Technology Strategy

Human Dynamics

Quality Attributes

IT Environment

Design Skills

5 PILLARS OF SKILLSETS

Business Technology Strategy (BTS)

- Business Fundamentals
- Strategy Development and Rationalization
- Industry Analysis
- Business Valuation
- Investment Prioritization and Planning
- Requirements Discovery and Constraints Analysis
- Compliance
- Architecture Methodologies & Frameworks
- Risk Management

Human Dynamics

- Managing the Culture
- Customer Relations
- Leadership and Management
- Peer Interaction
- Collaboration and Negotiation
- Presentation Skills
- Writing Skills

Design

- Requirements Modeling
- Architecture Description
- Decomposition and Reuse
- Design Methodologies and Processes
- Design Patterns and Styles
- Design Analysis and Testing
- Traceability Throughout the Lifecycle
- Views & Viewpoints
- The Whole Systems Design

Quality Attributes

- › Balancing and Optimizing Quality Attributes
- › Manageability, Maintainability, Supportability, Extensibility, and Flexibility
- › Monitoring and Management
- › Performance, Reliability, Availability, Scalability
- › Security
- › Usability, Localization, Accessibility, Personalization/Customizability
- › Packaging, Delivery, Post Deployment

IT Environment

- › Technical Project Management
- › Asset Management
- › Change Management
- › Infrastructure
- › Application Development
- › Governance
- › Testing Methods, Tools, and Techniques
- › Knowledge Management
- › Decision Support
- › Platforms and Frameworks

Business Architecture

- Business Management
- Business Strategy
- Portfolio and Program Management
- Financial Methods
- Technology Investment
- Technology Strategy and Innovation
- Governance, Risk and Compliance
- Business Views and Models
- Leading Organizational Change

Information Architecture

- Data Integration
- Information Management
- Information Modeling
- Information Usage
- Business Intelligence and Data Warehousing
- Information Operations
- Information Governance and Management
- Information Value

Infrastructure Architecture

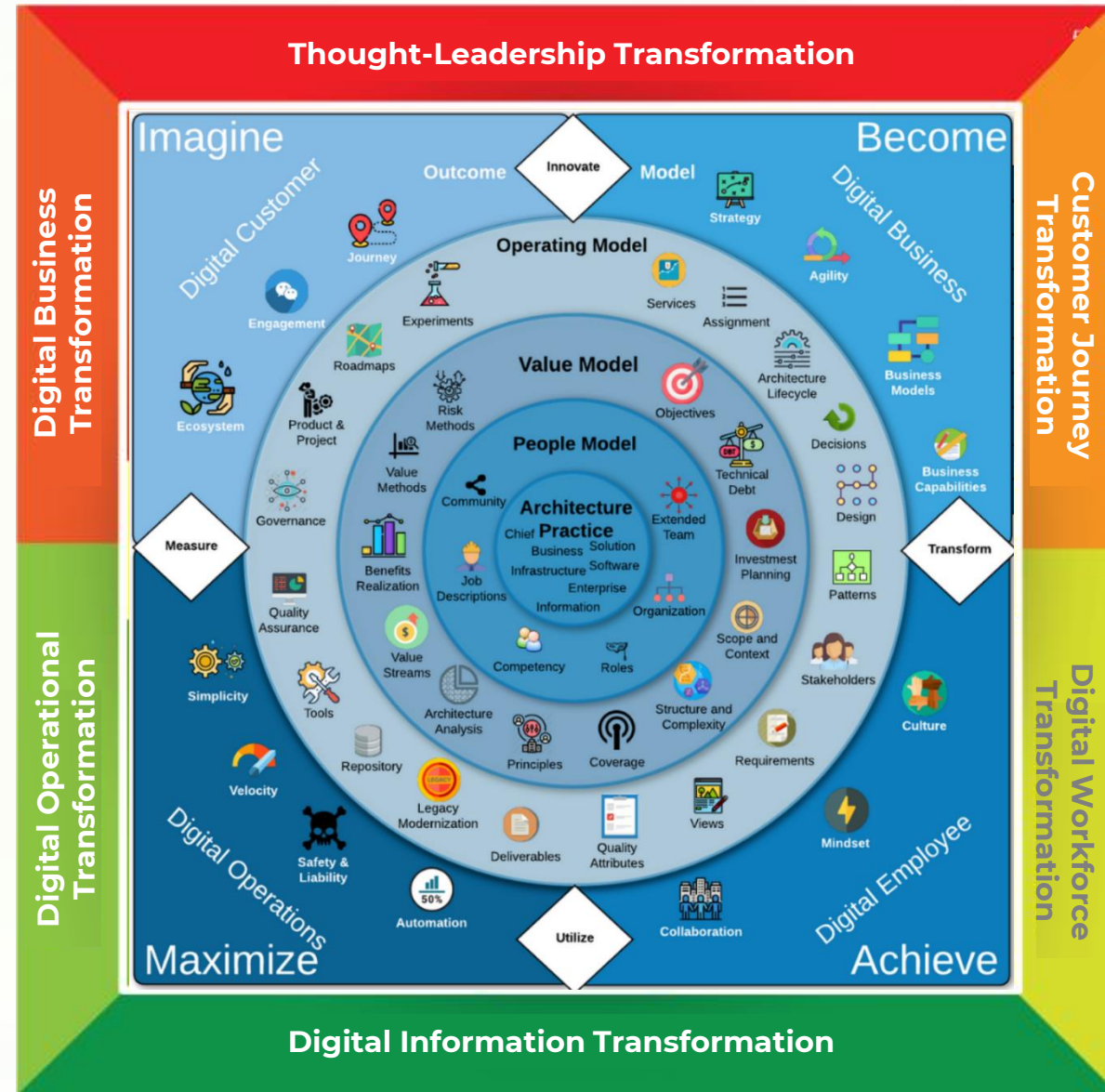
- › Access and Identity Management
- › Capacity Planning
- › Common Application Services
- › Device Management
- › Infrastructure RAS
- › Network Design
- › Operations
- › System Management and Services
- › Data Center Design
- › Provisioning
- › Disaster Recovery and Backup
- › High Availability Computing Environment

Software Architecture

- › Development, Methodologies and Processes
- › Software Architecture Tools
- › Software Engineering for Architects
- › Services, Workflow and Messaging
- › Advanced Quality Attributes
- › Advanced Stakeholder Management
- › Software Architecture Patterns
- › Technology Platforms and Frameworks
- › Data/Information/Knowledge Management

The Architects Engagement Model Defined by IASA

- It is the **guidelines** for Enterprise Architects to be successful in delivering **valuable technology strategy** and **innovations** to the business
- It is the **mandate** for Enterprise Architects to drive **continuous Digital Transformation**

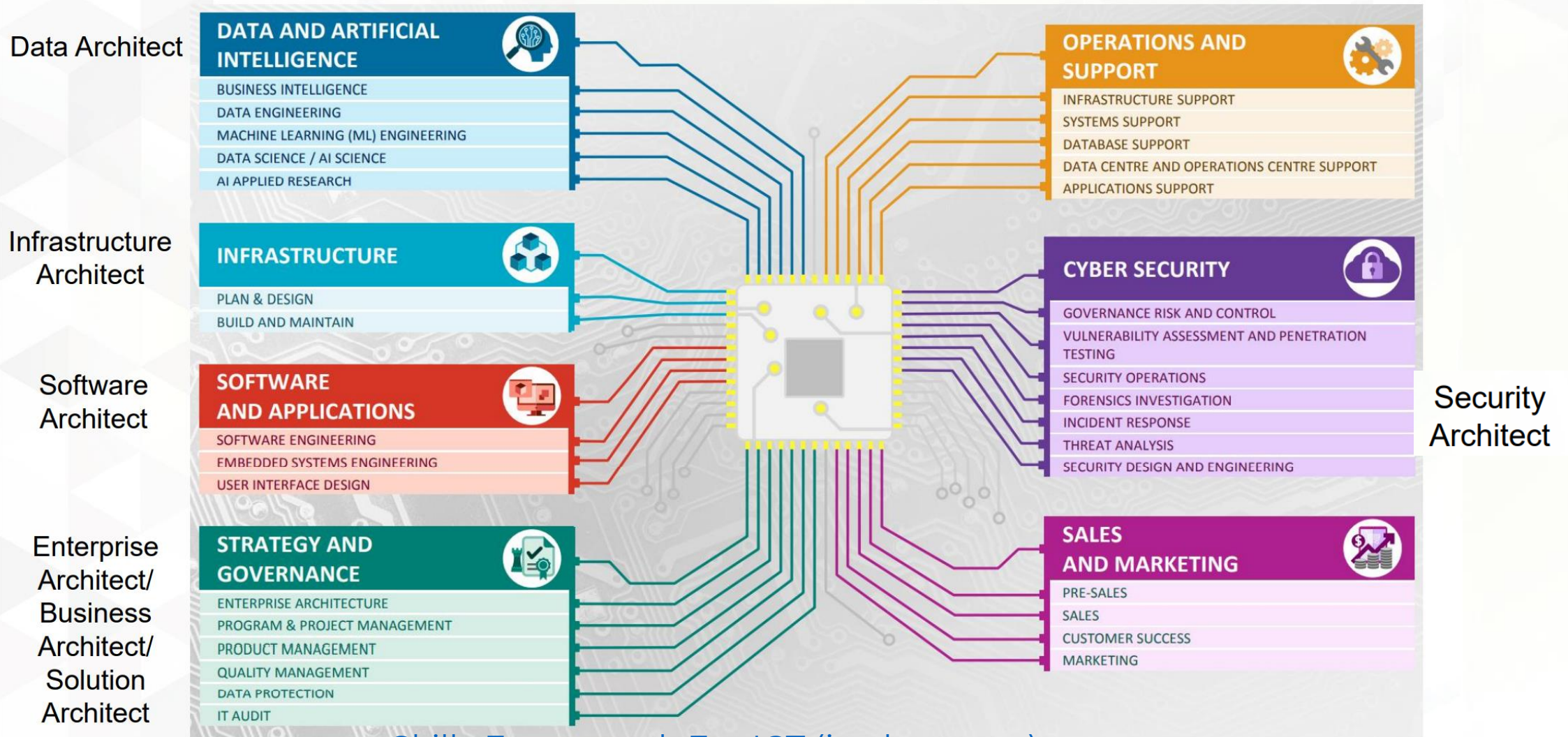


Architect Roles in Skills Framework for ICT (SG)

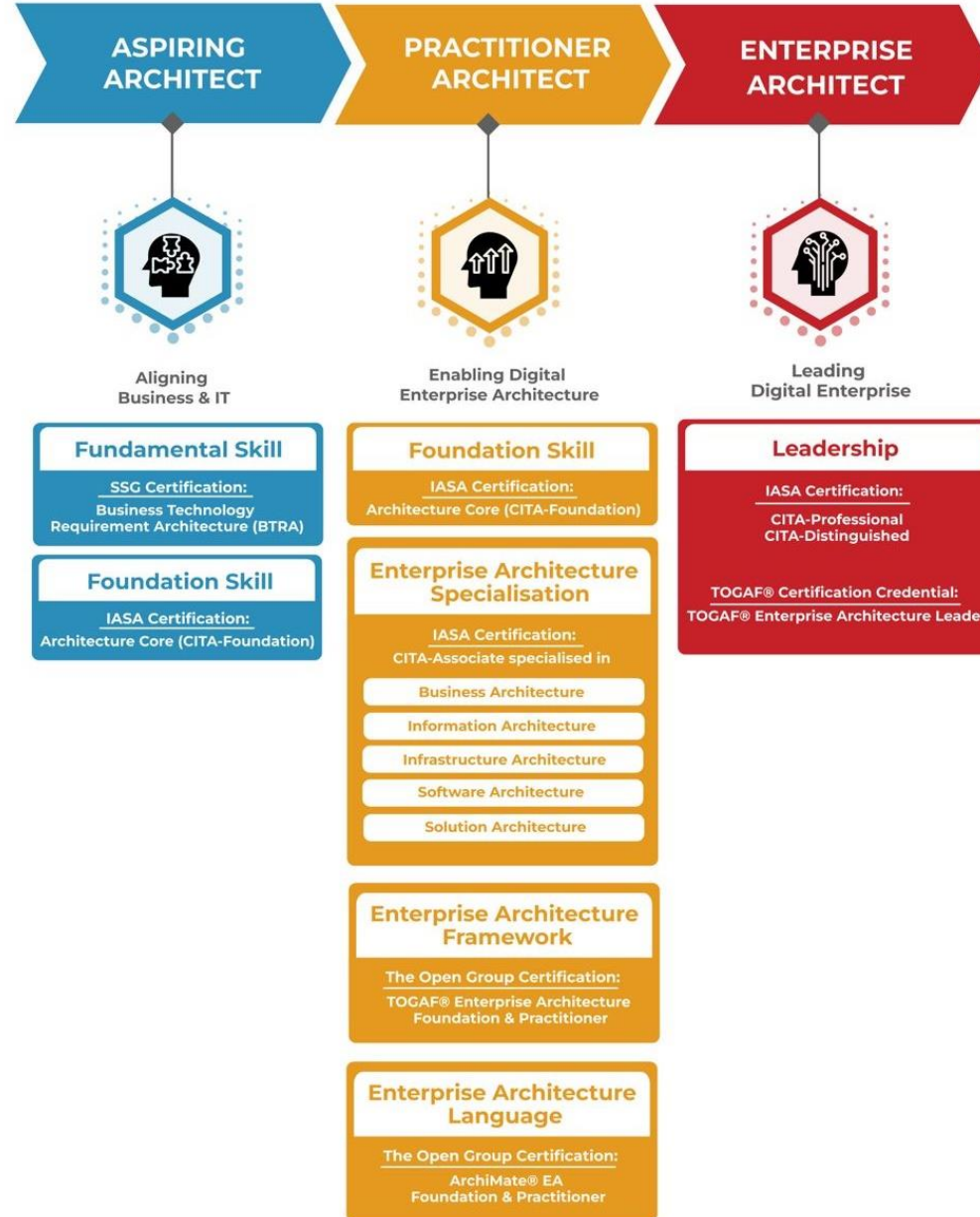
- 1 Enterprise Architect
- 2 Business Architect
- 3 Data Architect
- 4 Software Architect
- 5 Infrastructure Architect
- 6 Security Architect
- 7 Solutions Architect



Skills Framework (SFw) for Infocomm Technology (ICT)



Enterprise Architecture Certification Pathway



Reskilling to Associate Architect



Suitable for anyone who is new to Enterprise Architecture or those thinking of switching to IT Architecture role in near future

- Fresh IT graduate
- Business professional who deal with IT department
- IT Professional such as
 - Business / Data Analyst &
 - Software / Infrastructure / Security Engineer
- Project or Program Manager

Reskilling/Upskilling to Practitioner Architect



Suitable for anyone who is interested to move into IT Architecture role:

- Senior IT Professional in area of
 - Business / Data / Software / Infrastructure / Security Engineer
- Project or Program Manager experience in IT industry or department

ATD Upskilling & Reskilling Programme

This programme enhances your competency level based on the industry's skill framework.

Reskill to become an Associate Business/Solution/Information/Infrastructure/Software Architect



Aligning Business & IT



Scan Here For Programme



Upskill to become a Business/Solution/Information/Infrastructure/Software Architect



Enabling Digital Enterprise Architecture



For more information on Skillset Assessment, please contact us at:



www.atdsolution.com