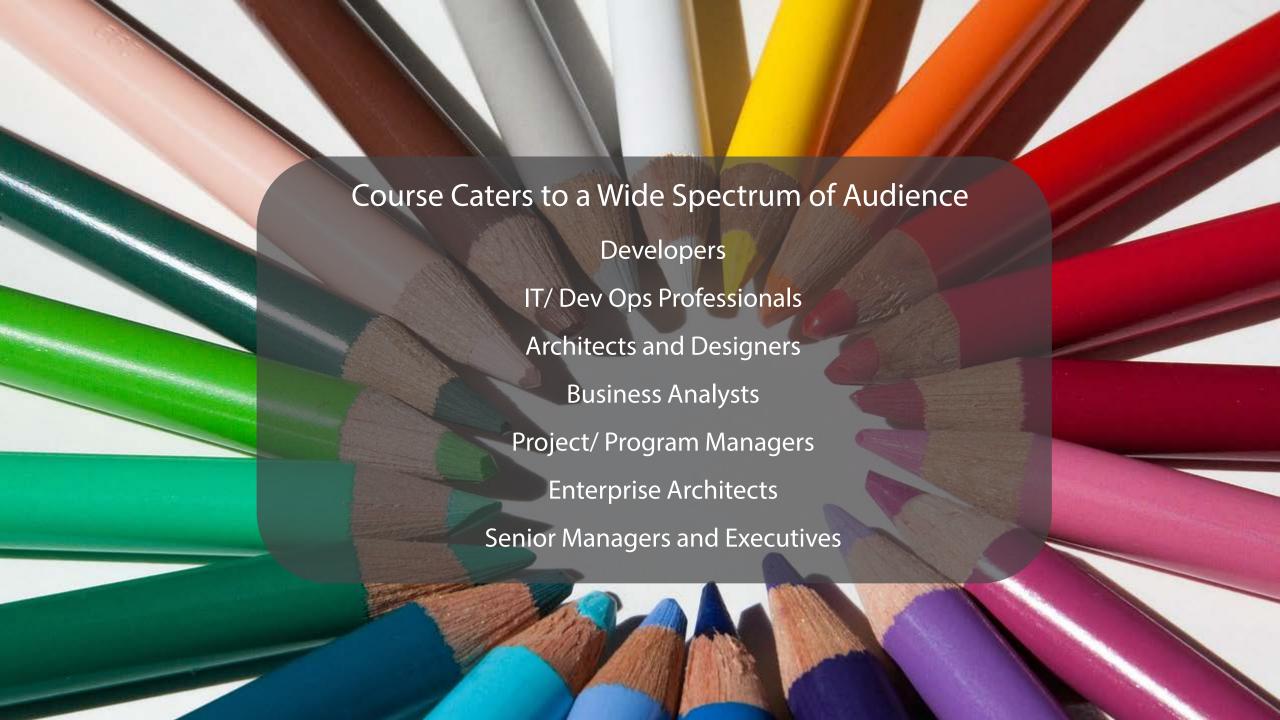
# Understanding Enterprise Architecture

Introducing Enterprise Architecture



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# Let's Get a Few Things Clarified...

What is an Enterprise?

What is Architecture?

Why
Enterprise
Architecture?

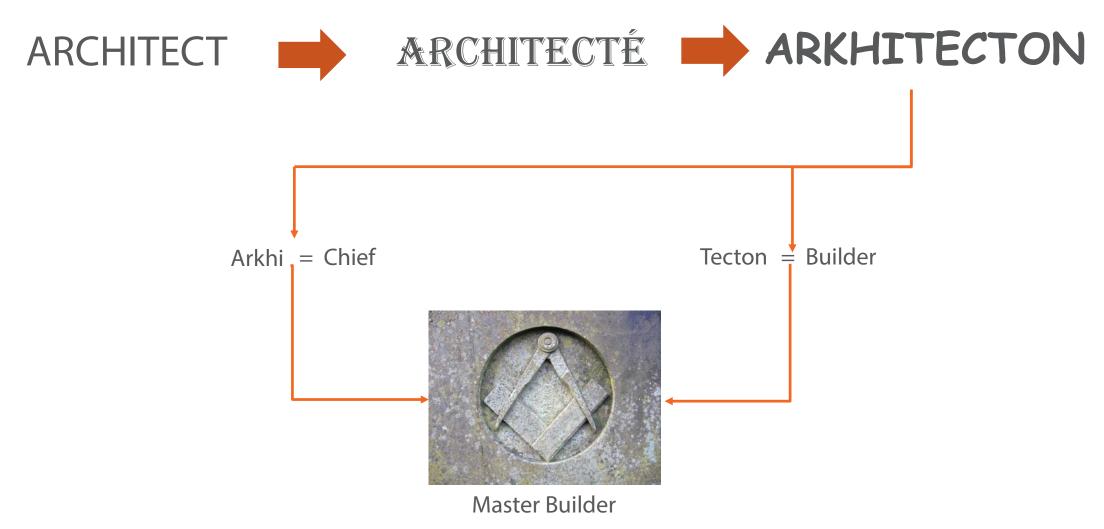
Why Should You Care?

# What Is an Enterprise?

- A single organization
- Parts of a large organization (such as a business unit)
- A collection of organizations collaborating in a value stream
- The word "Enterprise" covers a broad spectrum of organizational entities



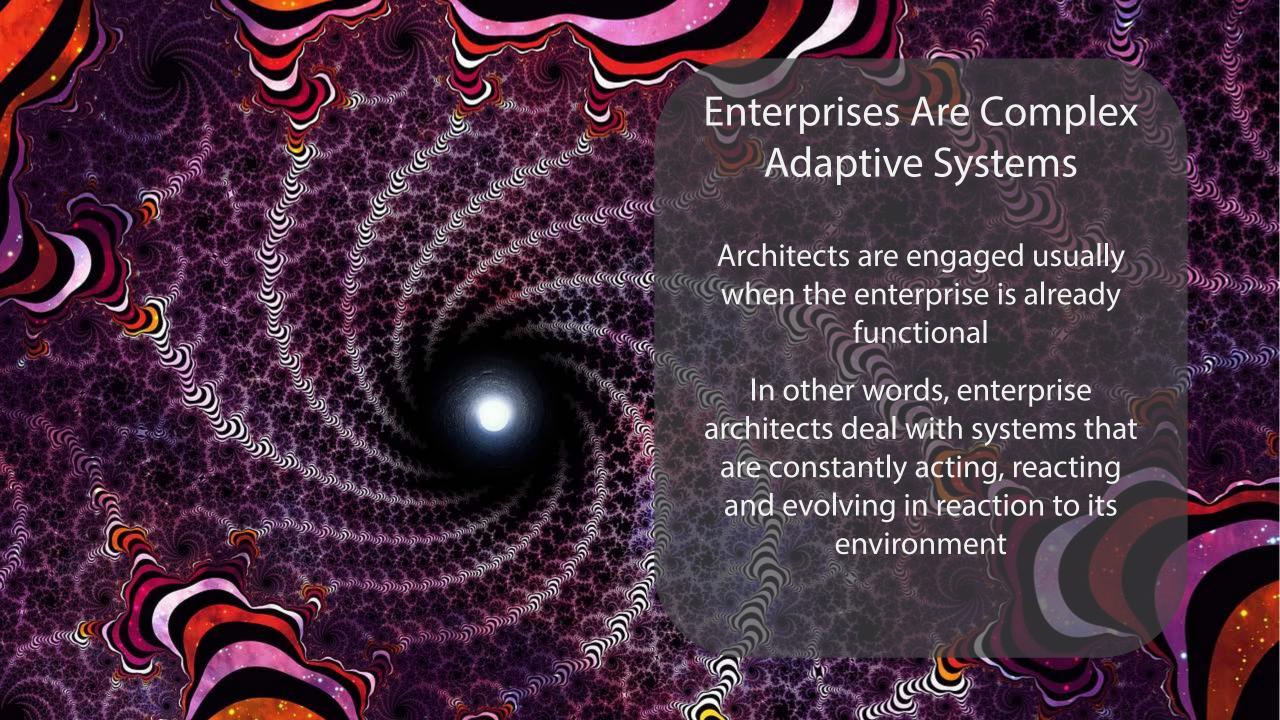
# **Etymological Analysis of Architecture**



Architecture is the craft of the master builders

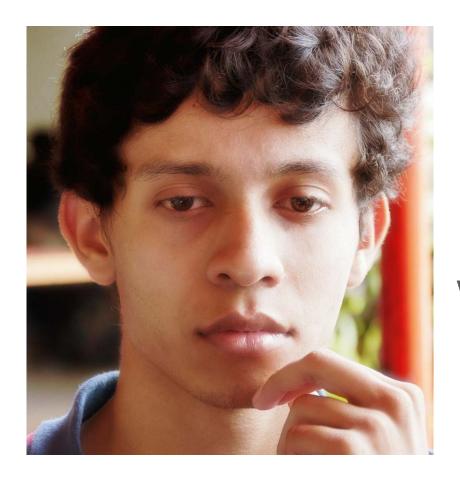


Enterprise Architecture can be interpreted as the craft of creating a blueprint of execution for the enterprise



## Why Do We Need Enterprise Architecture?

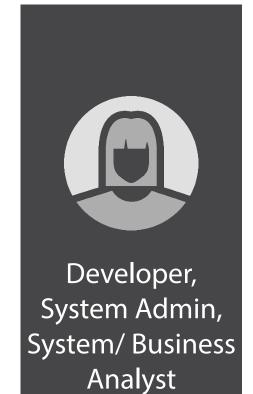
As a mechanism to handle the complexity of IT systems implementation



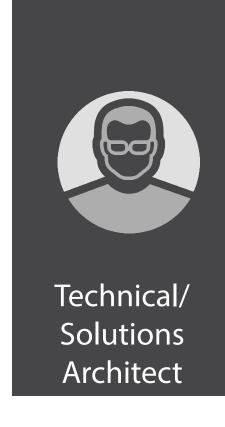
Along the way the role of EA transformed to address the architecture of the whole of the enterprise rather than just the IT components

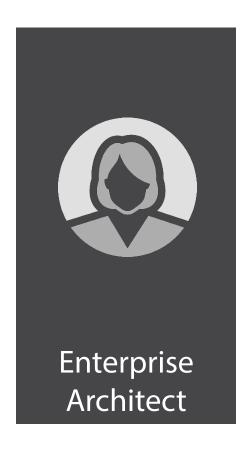
# Why Should You Care?

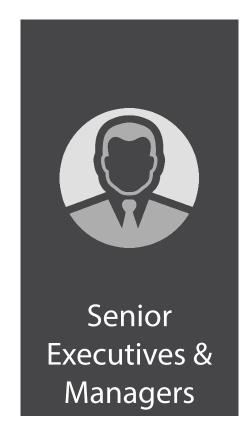
# It Depends ...











# Objectives of This Module

A working definition of enterprise architecture

Overview of the modules of the course





### **Historical View**



- IT initiatives and spending have been historically tactical and operational, directed at solving an immediate problem
- This attitude to IT systems resulted in a clutter of technology implementations
  - Spaghetti relationships
  - High level of redundancies
  - Systems cross-purpose with each other



Hairball Architecture of IT Systems resulted from years of planning neglect

## **Enterprise Architecture Timeline**

Early works by Duane P Walker (IBM) in 1960s 1987 John Zachman published - A framework for Information Systems Architecture

1989 National Institute of Standards and Technology (NIST) publishes EA Model 2006 Jean Ross (MIT Sloan School) publishes her work on Enterprise Architecture















Further developed by IBM Business Systems Planning (BSP) program 1970s and early 1980s US DOD works on Technical Architecture Framework for Information Management (TAFIM)

1996 Clinger -Cohen Act passed



Today's business reality is significantly different from that of 1960s and 1970s

The nature of problems, opportunities and business environment businesses deal with today are significantly different than the previous decades

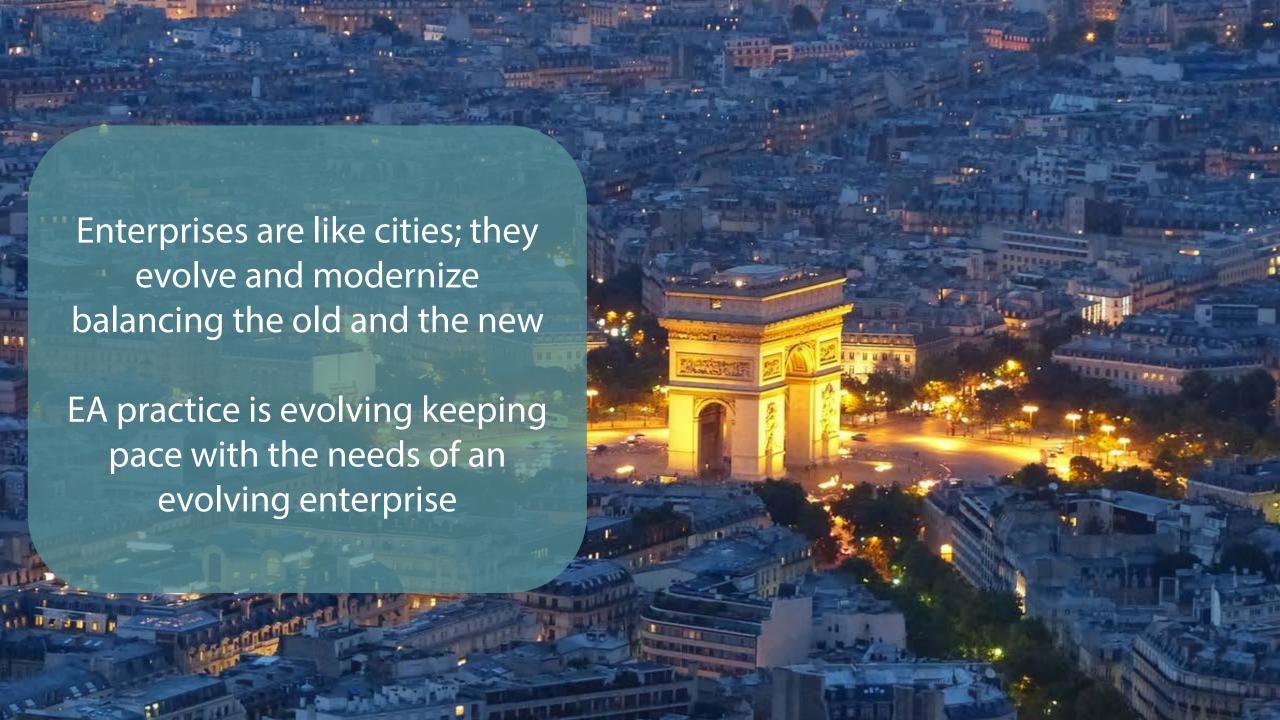


Businesses have grown increasingly dynamic and complex
Role of IT within enterprises took many unexpected twists and turns along the way
Most businesses see IT as a foundational core competency

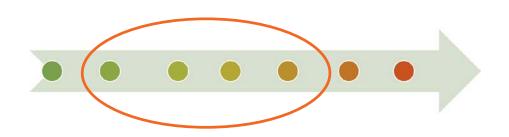
Pace of change is only accelerating



EA at different eras solved different challenges faced by the enterprise in that era
It began as a discipline to architect IT systems
Along the way it additionally took on the role of enabling business IT alignment
Further along the way it is now seen as a discipline to architect whole of the enterprise



#### **Evolution Continuum**



A given enterprise's EA practice occupies a certain range in the EA evolution continuum

This depends on many factors such as:

The enterprise's history of adopting EA practice Individuals leading the practice

The kinds of problems and opportunities the

enterprise is tackling

The leadership's view on how it can leverage EA

# Defining Enterprise Architecture

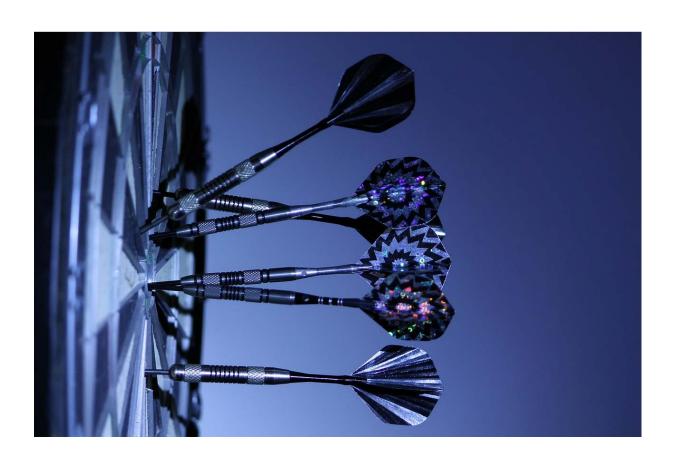
#### **Enterprise Architecture**

Enterprise Architecture is a discipline which enables designing the enterprise consciously and deliberately, rather than letting it happen randomly.

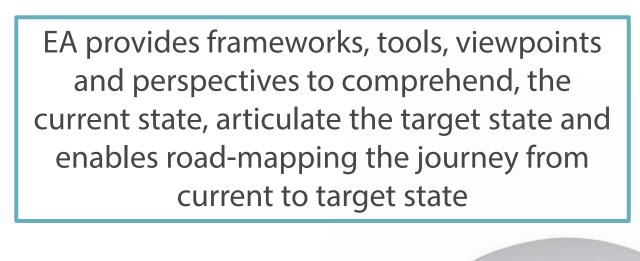
The design is informed by business vision, strategic intent and insights on the functioning of the enterprise.



### **Target State**

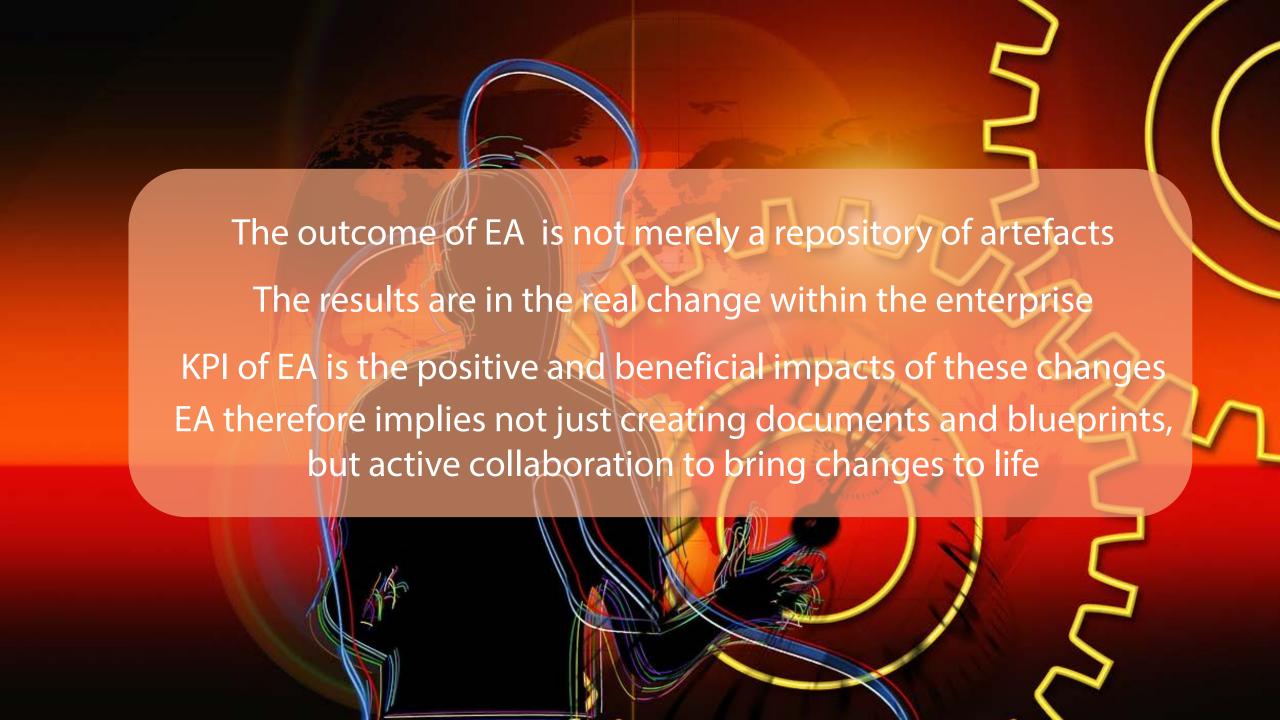


- Target state is defined by attainment of capabilities and fulfillment of milestones
- Target state is informed by business vision, strategic intent and insights
- Vision and strategic intent conveys the top-down holistic view of the enterprise direction
- Vision and mission are relatively static
- Strategy evolves continuously in response to stimulus from business environments
- Insights represent the knowledge of the functioning of the enterprise



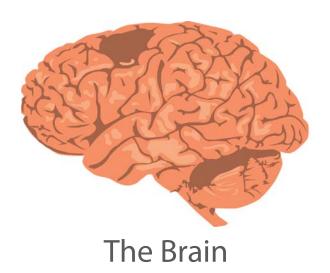


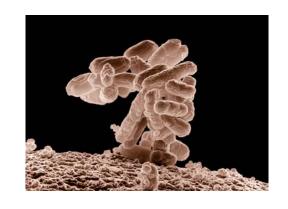
Current
State of
the
Enterprise



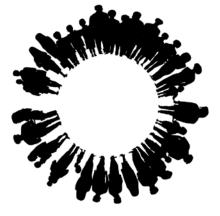
## Enterprises Are Complex Adaptive Systems

Complex Adaptive Systems (CAS) are systems characterized by complex behaviors that result from non-linear interactions among large number of components in time and space at various levels of organization







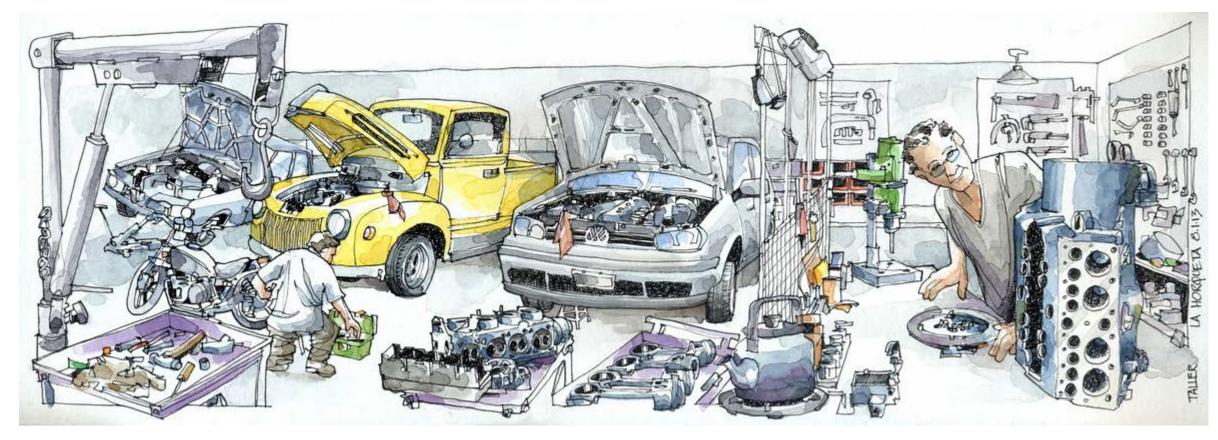


The Society



Ecosystem

Atomistic views alone will not result in a holistic understanding of a complex adaptive system



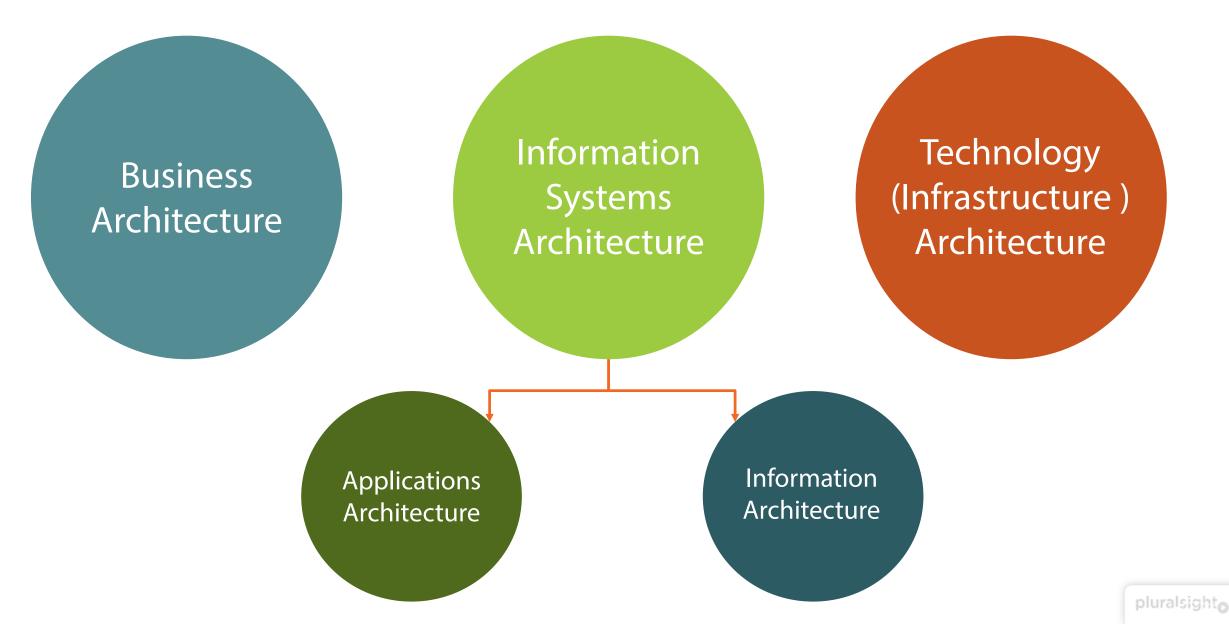
http://bit.ly/1g1lskv

Understanding the component parts does not lead to the full understanding of the whole Inter-connectivity, interactions and inter-relationships give rise to complexity

# Enterprise Architecture Embraces Both Atomistic & Holistic Views



# **Enterprise Architecture Domains**



### Module Overview

Module 1 – Introduction to EA/ Course Overview

Module 2 – EA Frameworks

Module 3 - Business Architecture

Module 4 – Applications Architecture

Module 5 – Information Architecture

Module 6 – Infrastructure Architecture

Module 7 – Other Architecture Disciplines

Module 8 – Enterprise Architecture Roles

Module 9 – Agile & Enterprise Architecture

