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# *Enterprise IT Architectures*

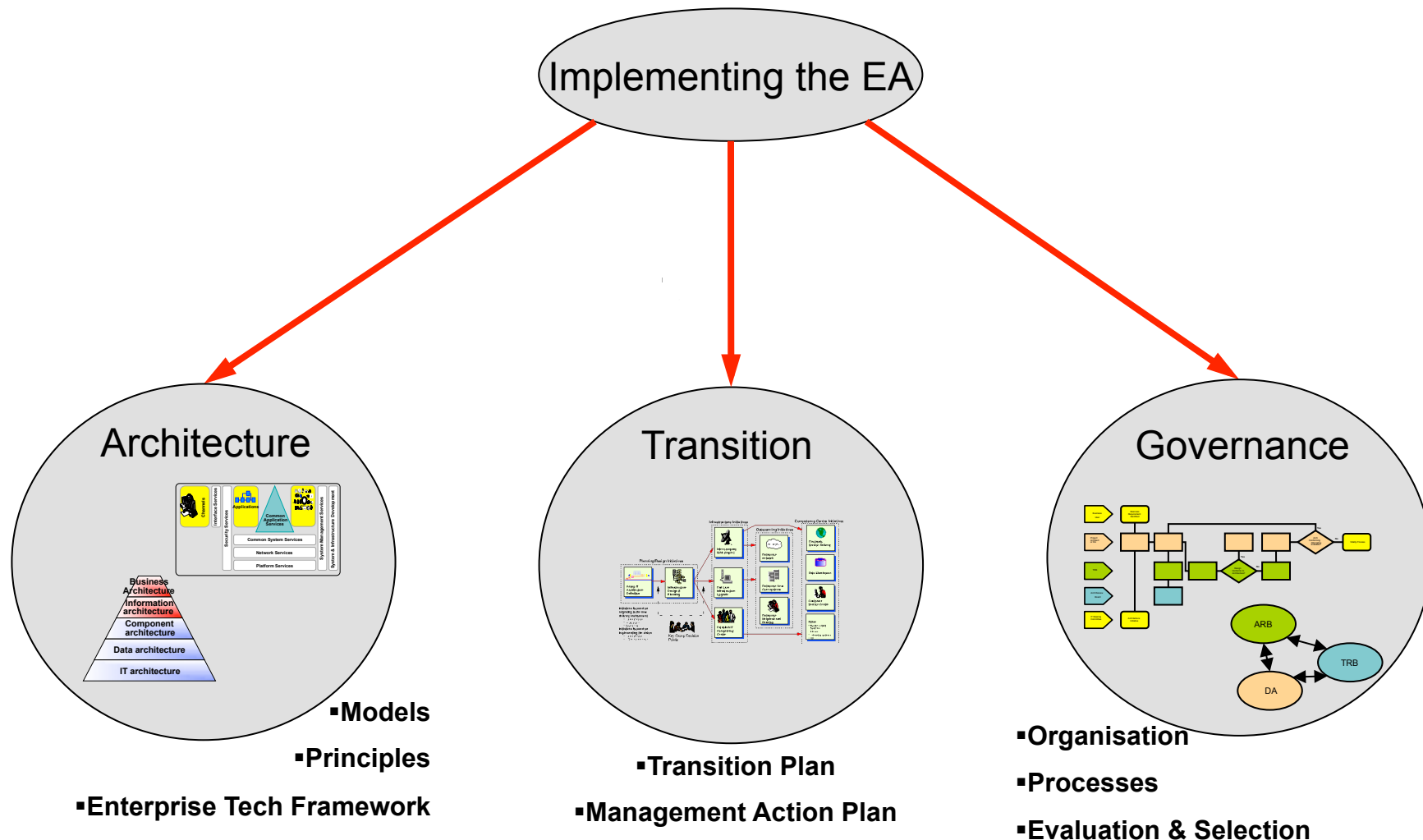
## Governance, Policies / Principles

## Agenda of Governance (40 Minutes)

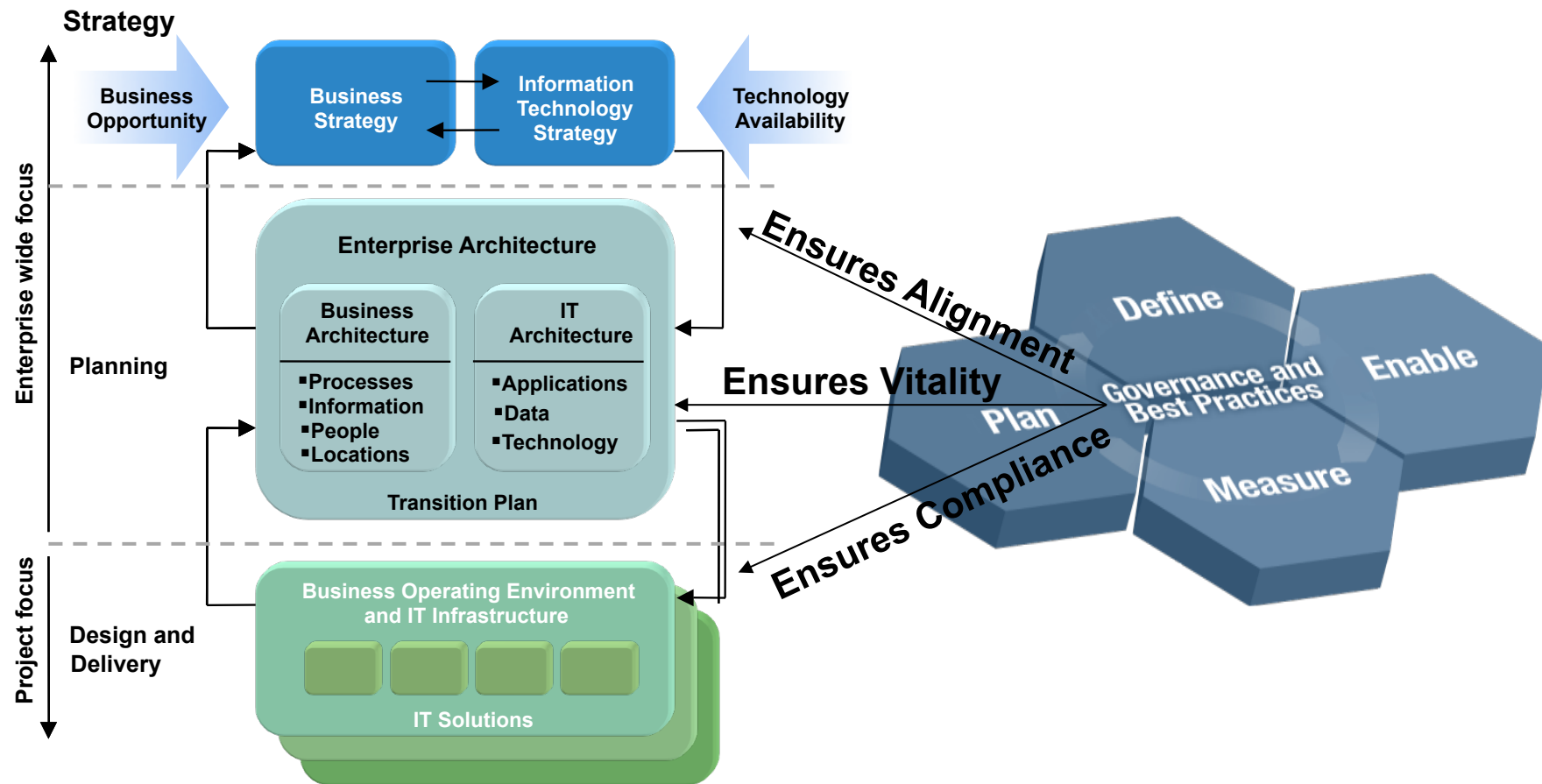
- **Governance**
- **SOA Governance**
- **Policies / Principles**

**Governance**

## Governance – One of the 3 aspects of Enterprise Architecture



## Governance – Keeps Enterprise Architecture alive



## **Governance: Introduction Comment**

- **Governance is**
  - **Roles and responsibilities, Processes**
  
- **Governance matters**
  - **Realizing business benefits, Business process flexibility**
  - **Improving “time to market”**
  - **Mitigating business risk**
  - **Improving team effectiveness by measuring the right things and communicating clearly between business and IT**
  
- **Hint:**
  - **Align Governance to “C”-management procedures**
  - **Act as Enabler – not Inhibitor**

## What is *Governance*?

Establishing **chains of responsibility, authority and communication** to empower people (decision rights)

Establishing **measurement, policy and control mechanisms** to enable people to carry out their roles and responsibilities

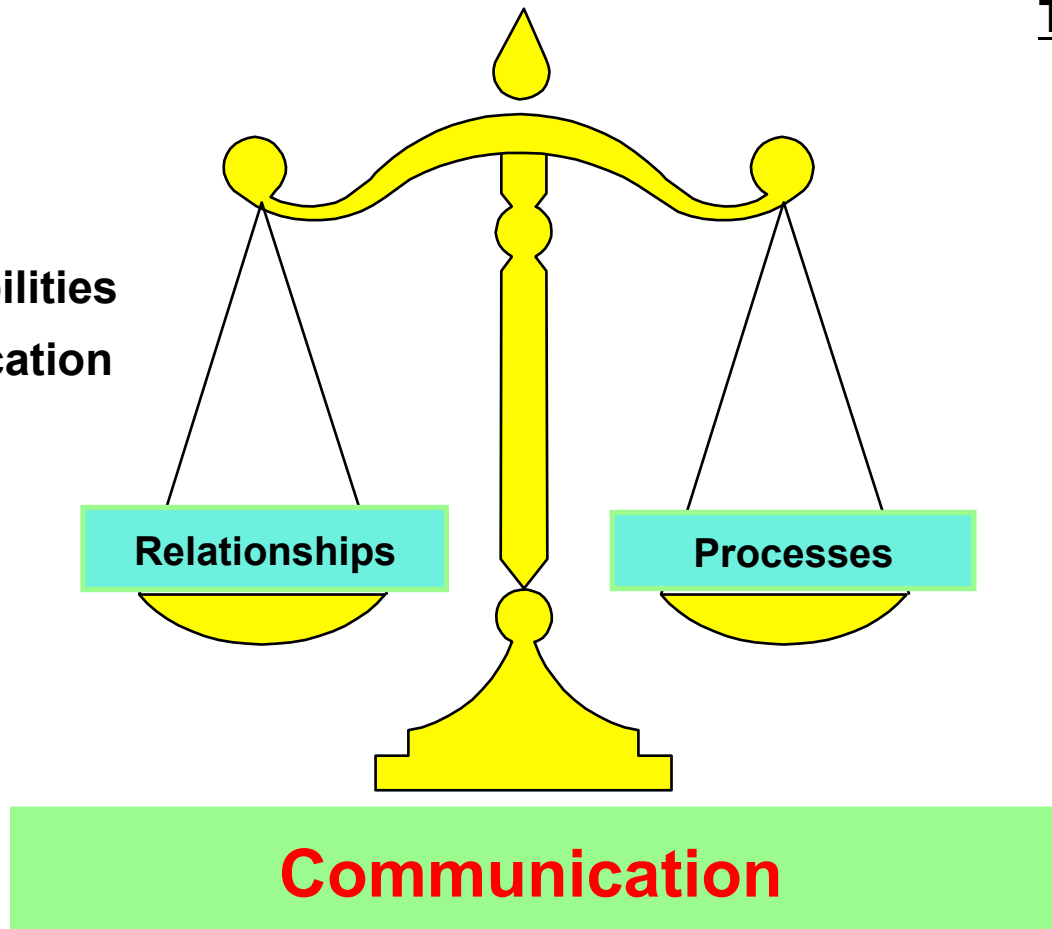
- Corporate Governance
- IT Governance
- EA Governance
- SOA Governance



**Governance involves balancing the key aspects of relationships and processes on a foundation of communication**

### THE WILL

- Trust
- Alignment
- Responsibilities
- Communication
- Behavior
- Culture

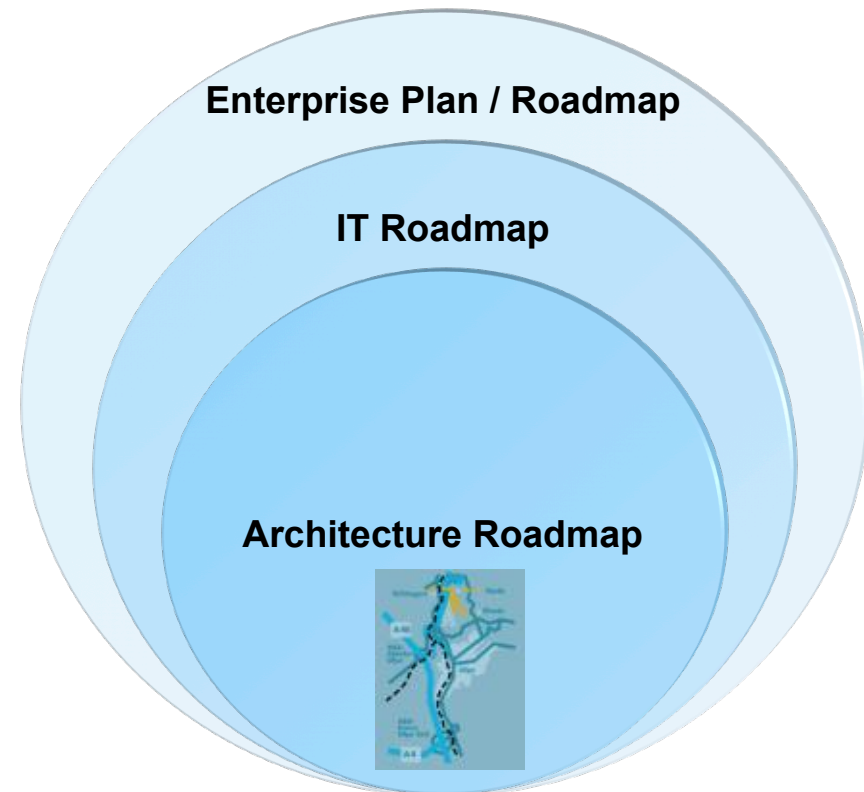
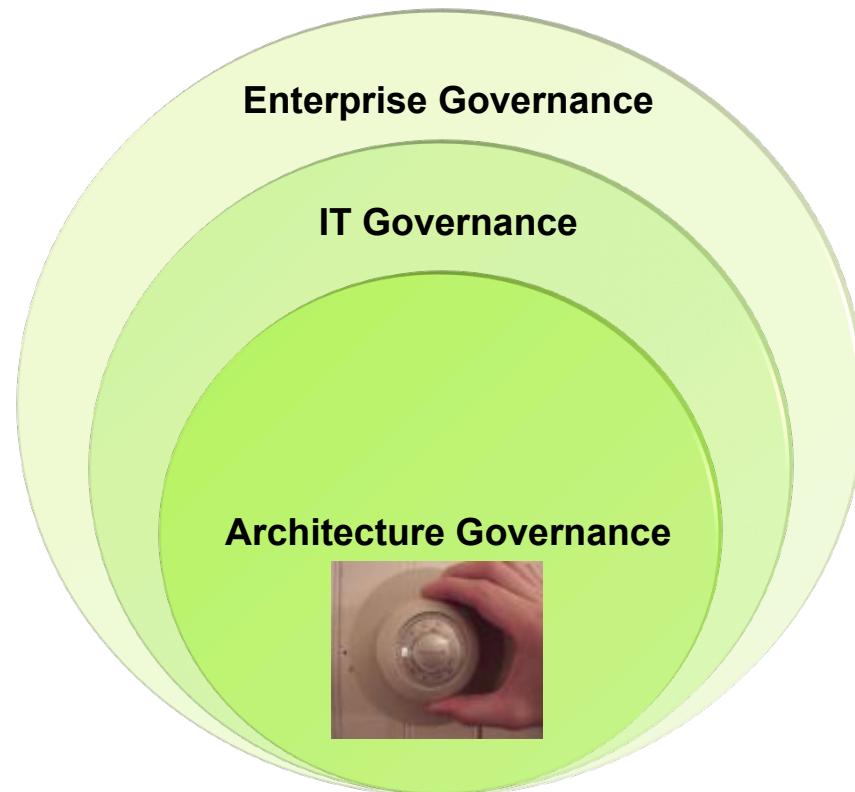


### THE WAY

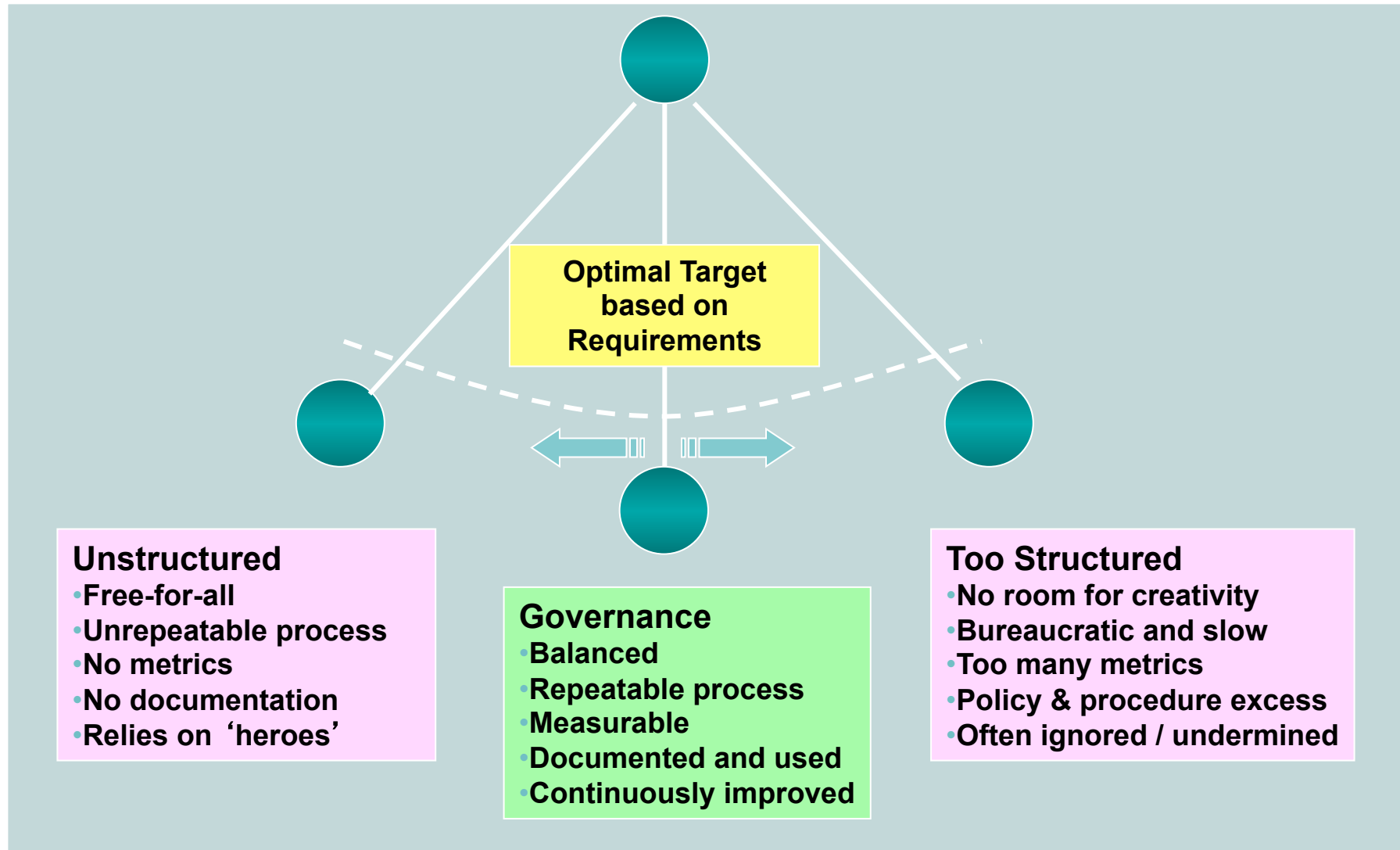
- Charter
- Organization
- Principles
- Processes
- Roles & Respon.
- Metrics
- Tools



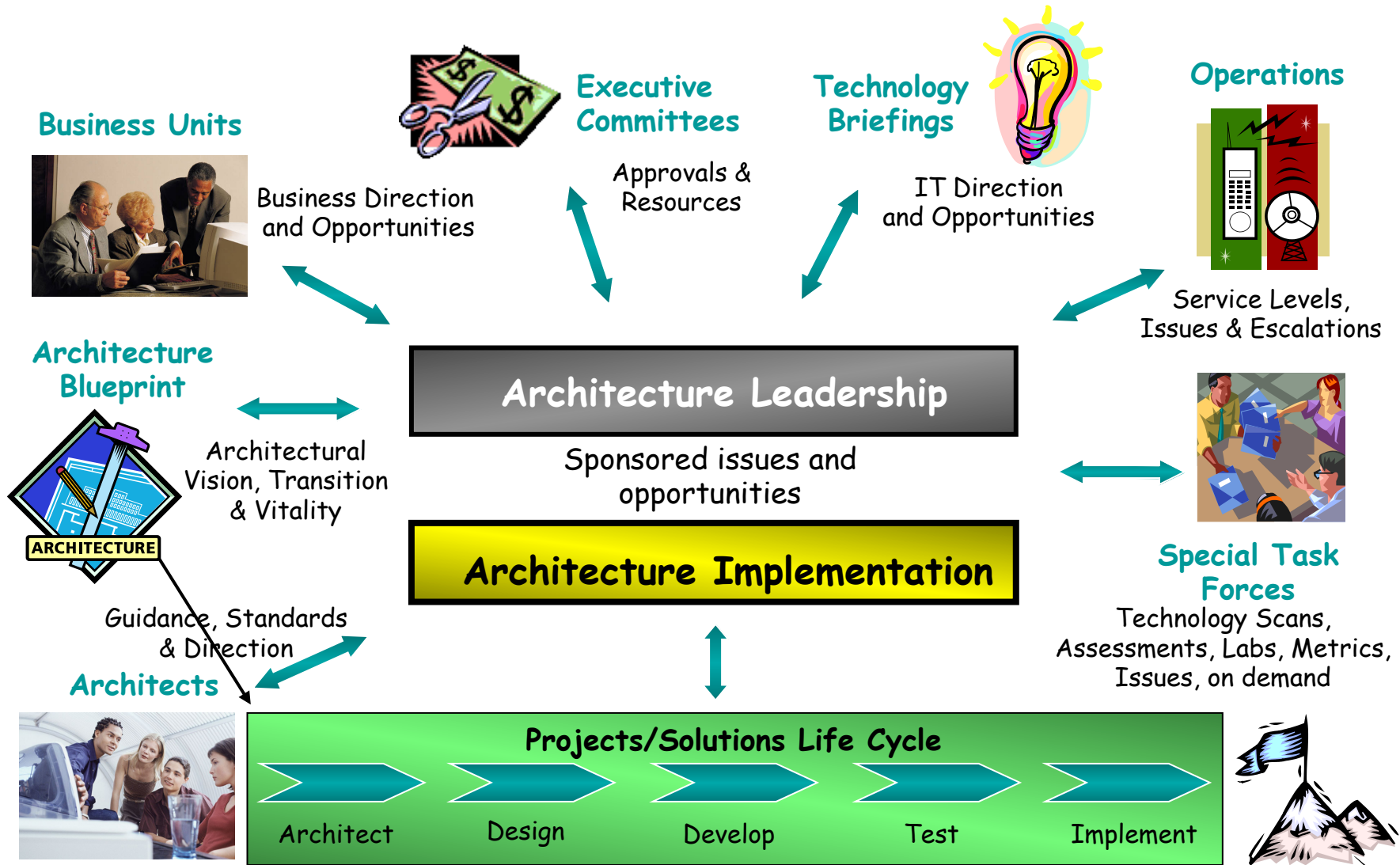
### The *Governance* and *Roadmap* areas are nested in IT and Enterprise level work



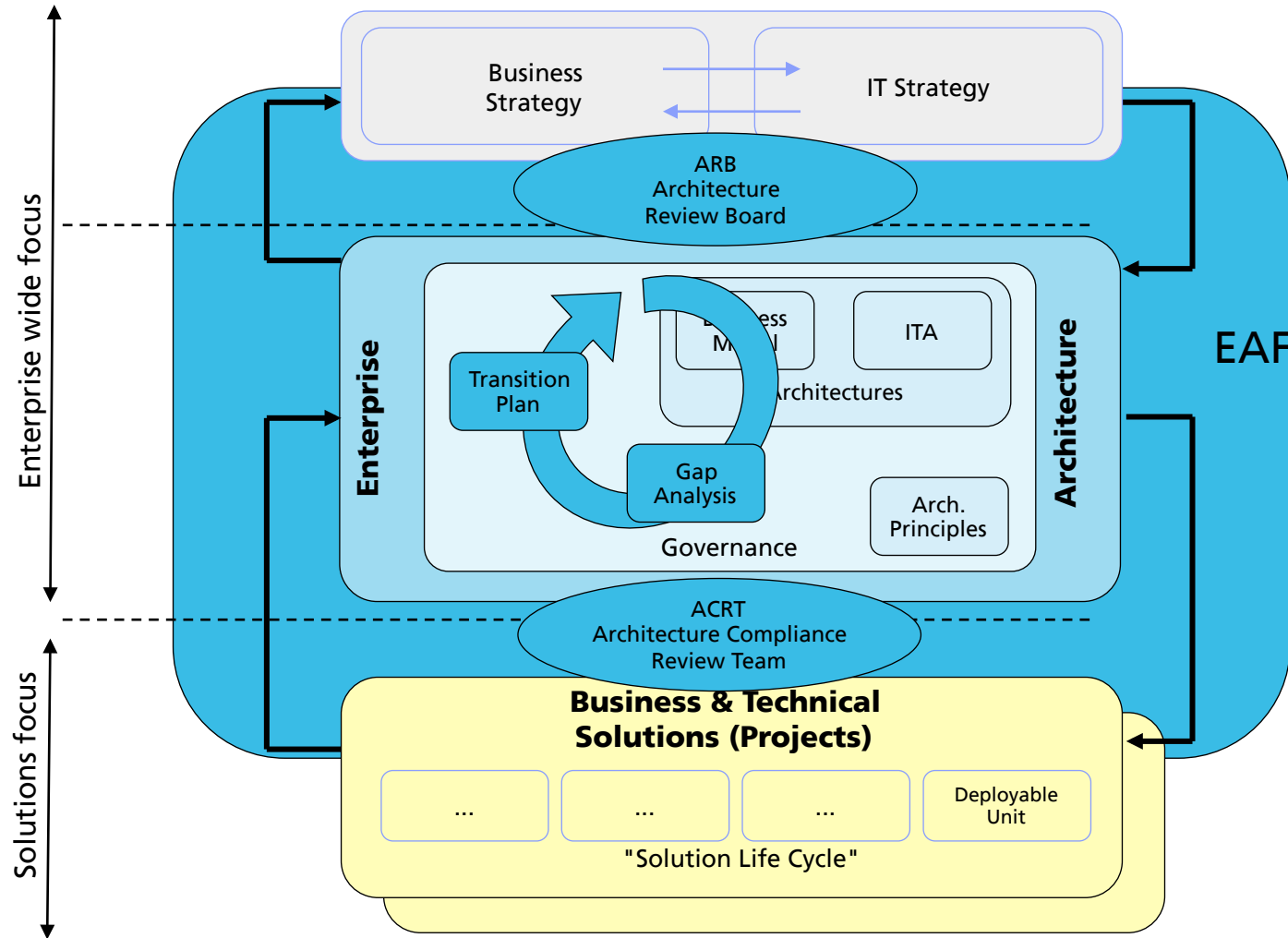
## Governance – A balanced approach



# Governance affects many decision-makers



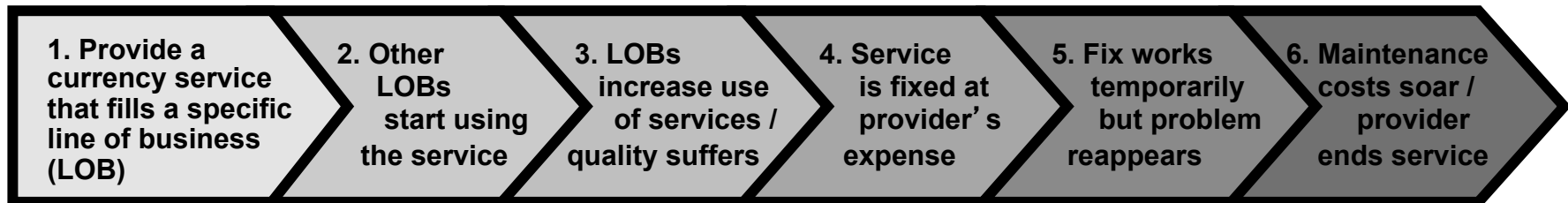
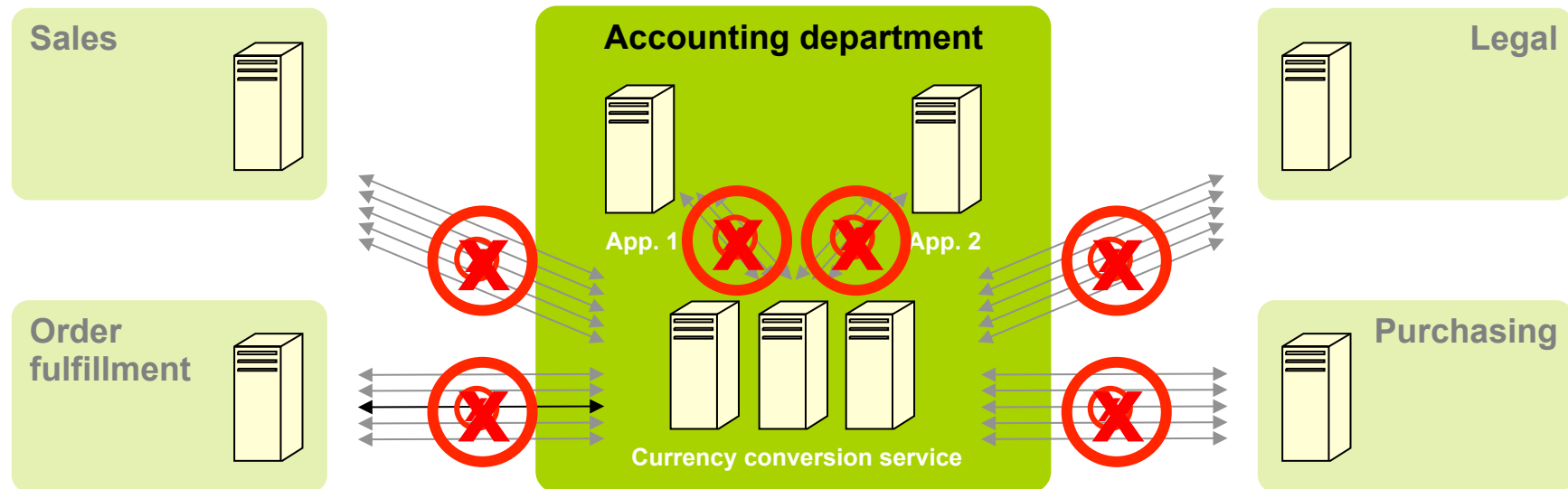
## Governance – Organizational Context



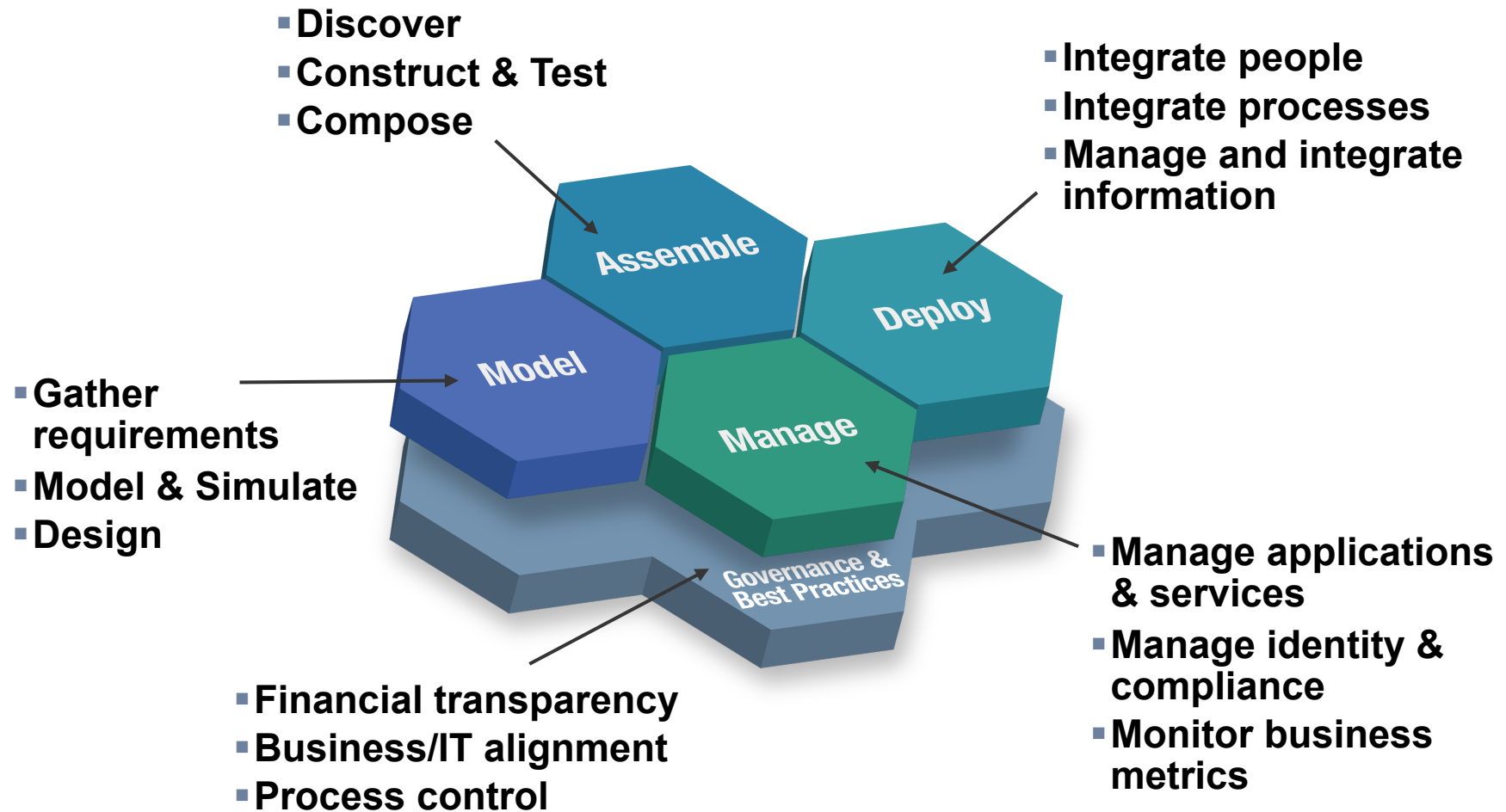


### SOA Governance

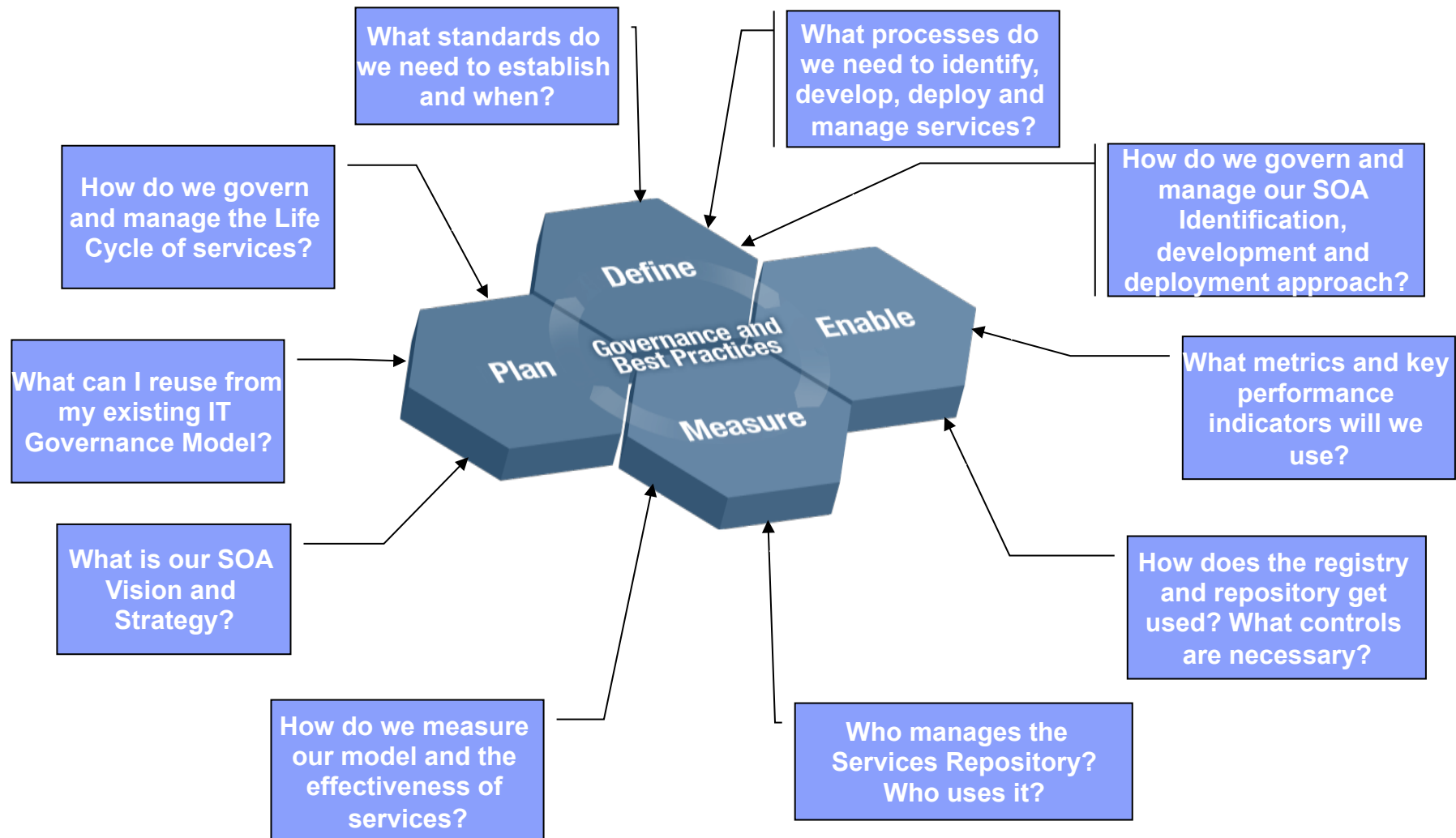
## Governance ! Importance by Illustrating Service Control



## Governance within the SOA Lifecycle



## SOA Governance Life Cycle Addresses Key Questions





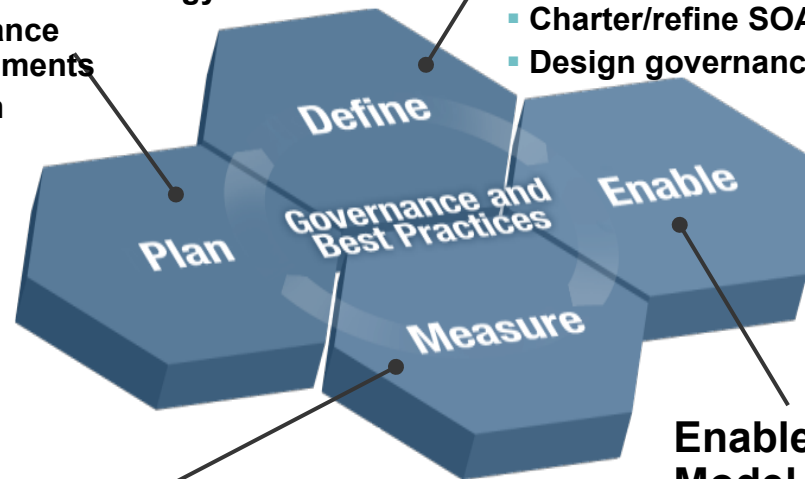
## SOA Governance Lifecycle – How to establish?

### Plan the Governance Need

- Document and validate business strategy for SOA and IT
- Assess current IT and SOA capabilities
- Define/Refine SOA vision and strategy
- Review current Governance capabilities and arrangements
- Layout governance plan

### Define the Governance Approach

- Define/modify governance processes
- Design policies and enforcement mechanisms
- Identify success factors, metrics
- Identify owners and funding model
- Charter/refine SOA Center of Excellence
- Design governance IT infrastructure



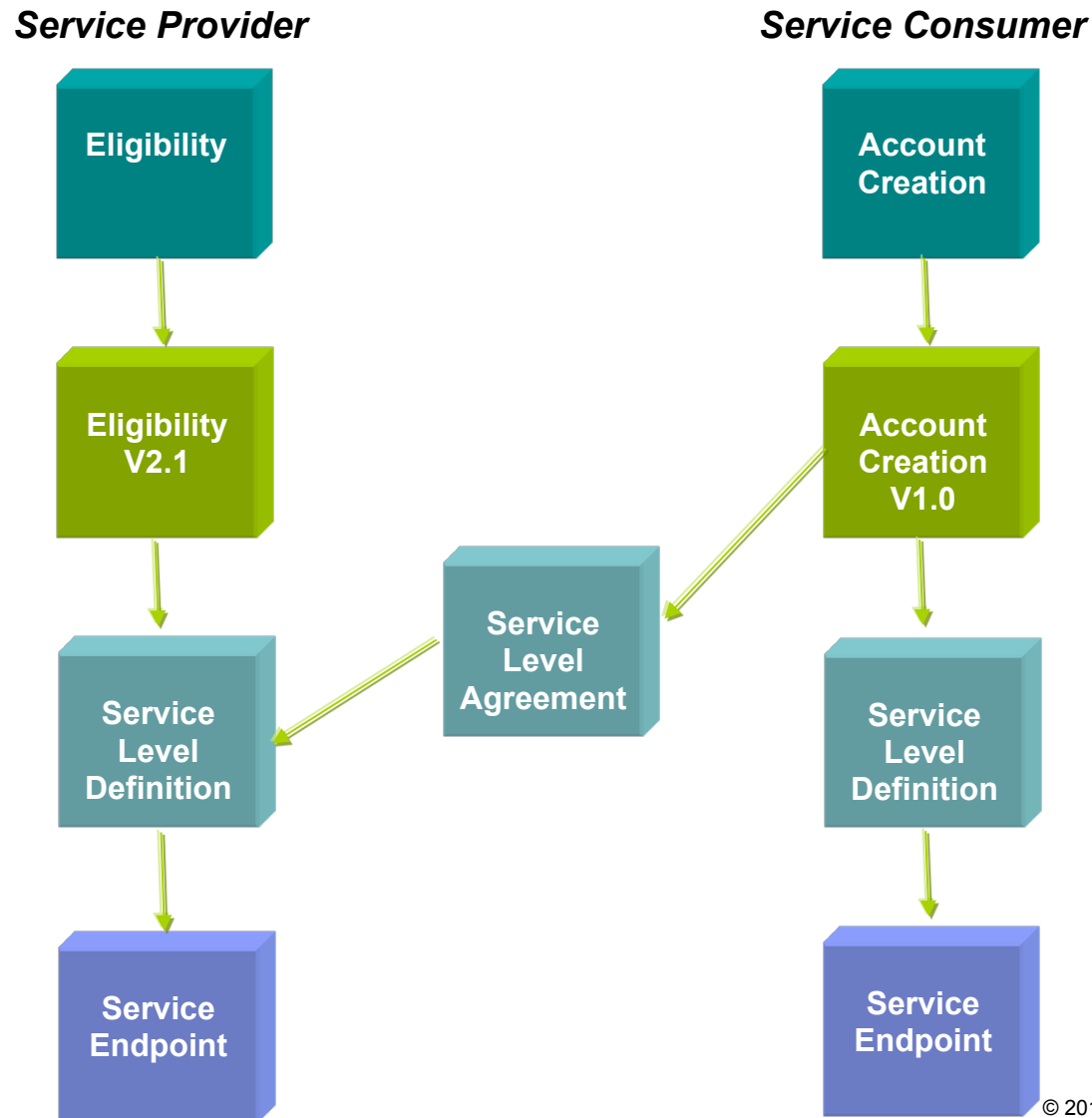
### Monitor and Manage the Governance Processes

- Monitor compliance with policies
- Monitor compliance with governance arrangements
- Monitor IT effectiveness metrics

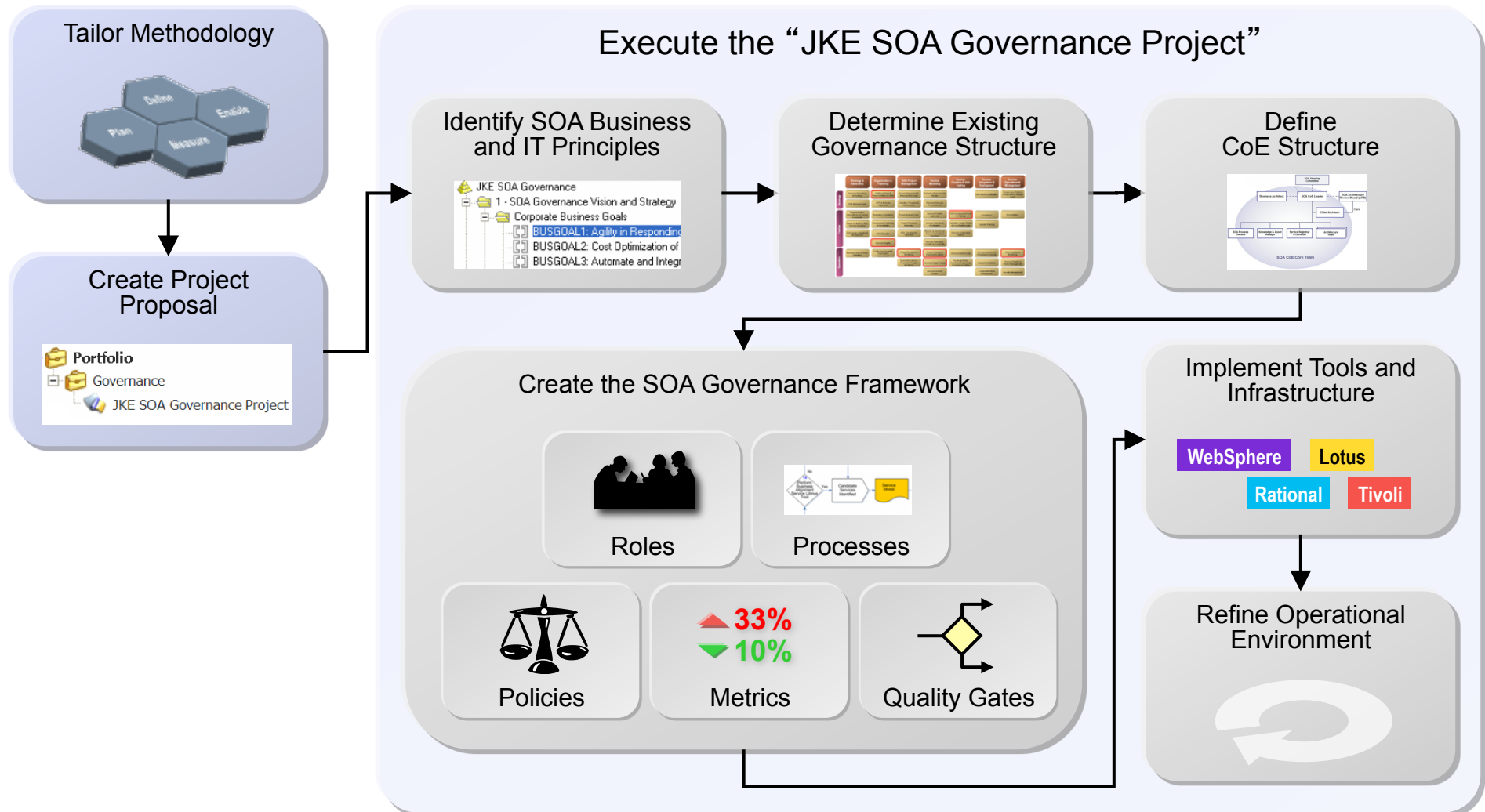
### Enable the Governance Model Incrementally

- Deploy governance mechanisms
- Deploy governance IT infrastructure
- Educate and deploy on expected behaviors and practices
- Deploy policies

## Governs the Service Consumers as well as the Service Provider

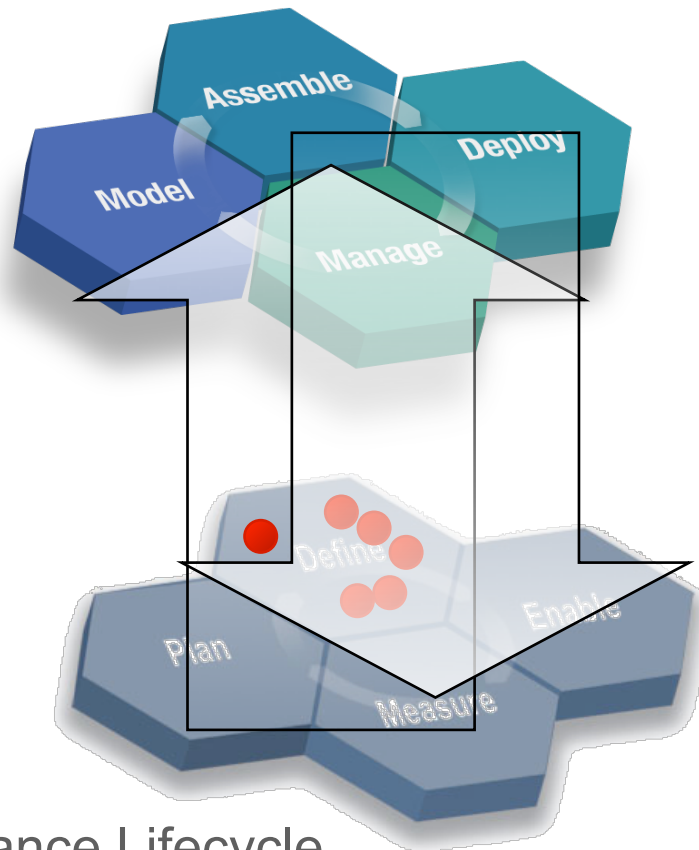


## Example: Defining the Governance Solution



# Interaction Between the Lifecycles

## Service Lifecycle

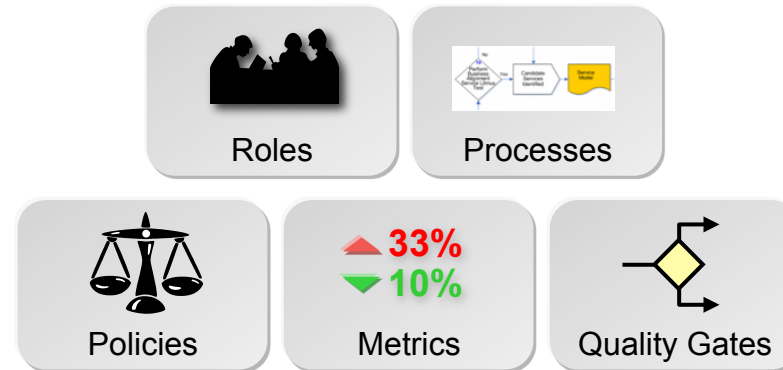


## Governance Lifecycle

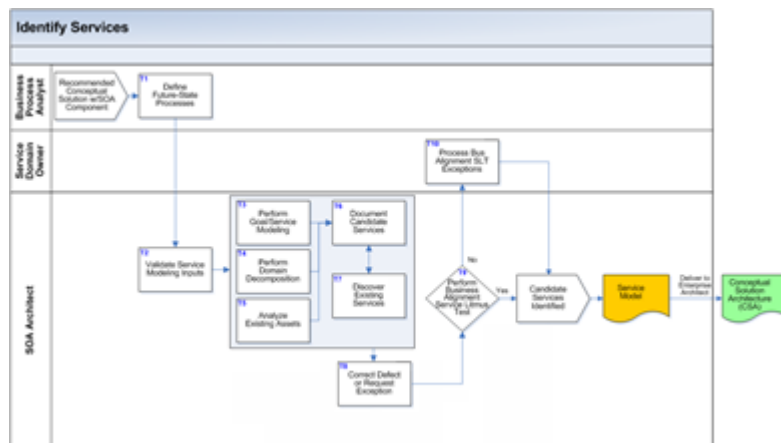
- **Policies**
  - quality gates
  - controls
  - metrics
  - standards
- are *defined* in the Governance lifecycle (for different aspects of Governance)...
- ...and they are *enforced* in the service lifecycle
- metrics are captured to improve governance process

## The Governance Framework (Extensions to Development Processes)

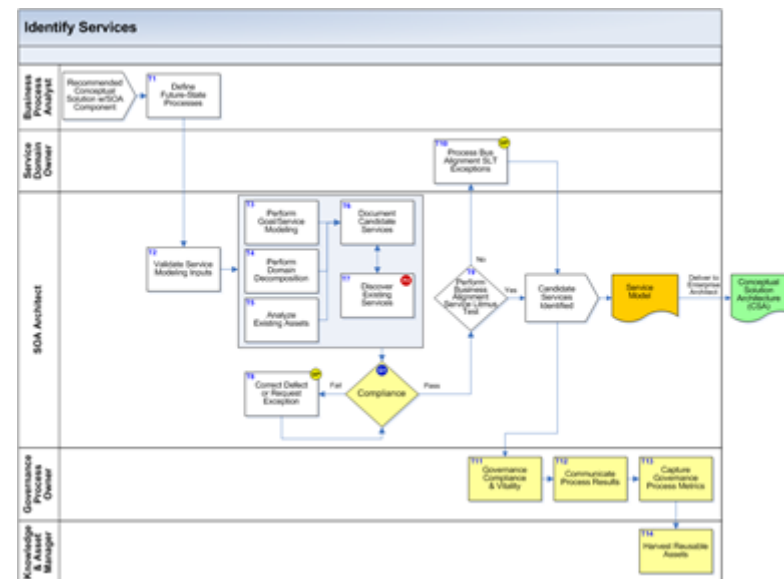
- All the “elements” that we need to add to make a process well-governed



non-governed process

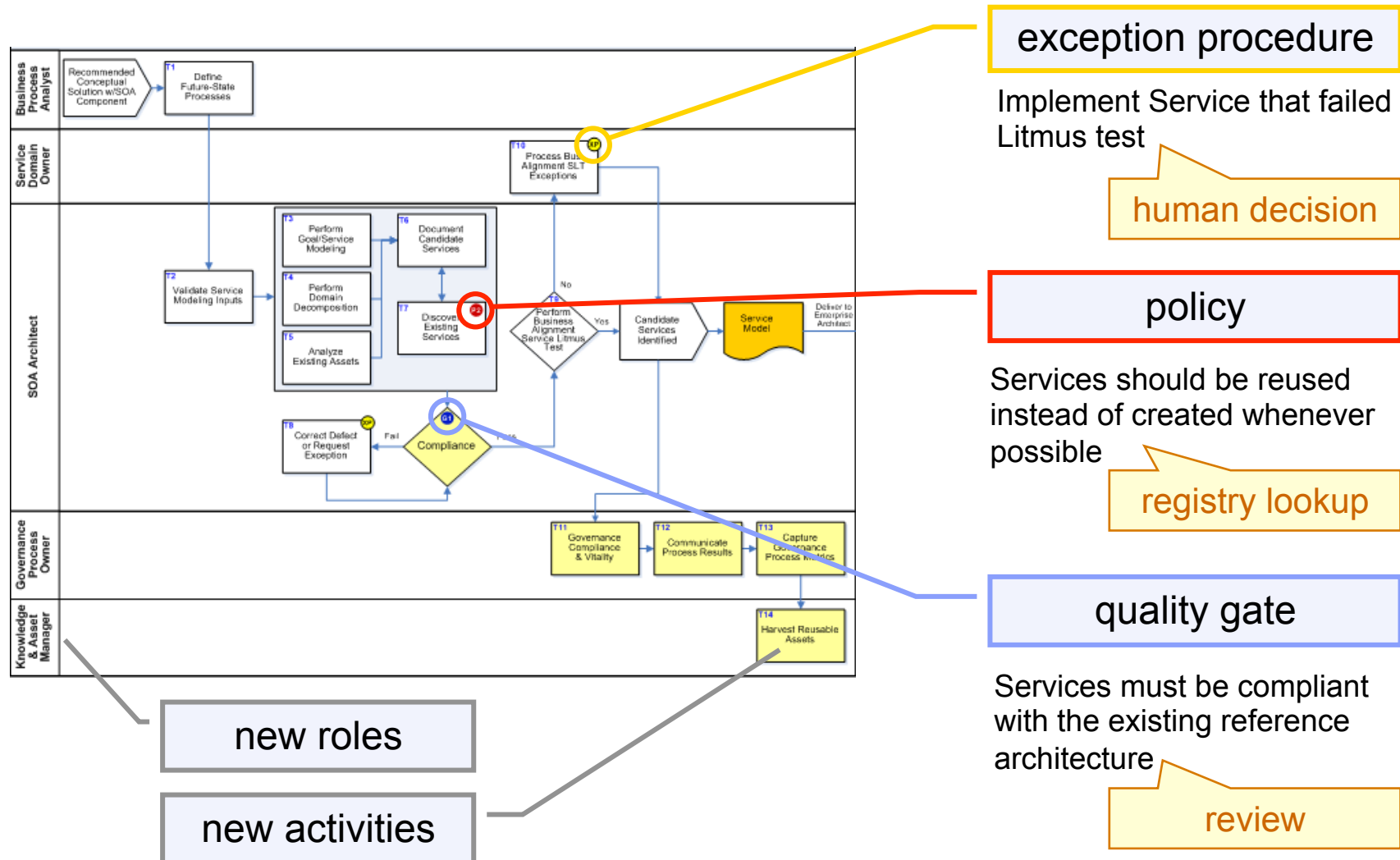


well-governed process



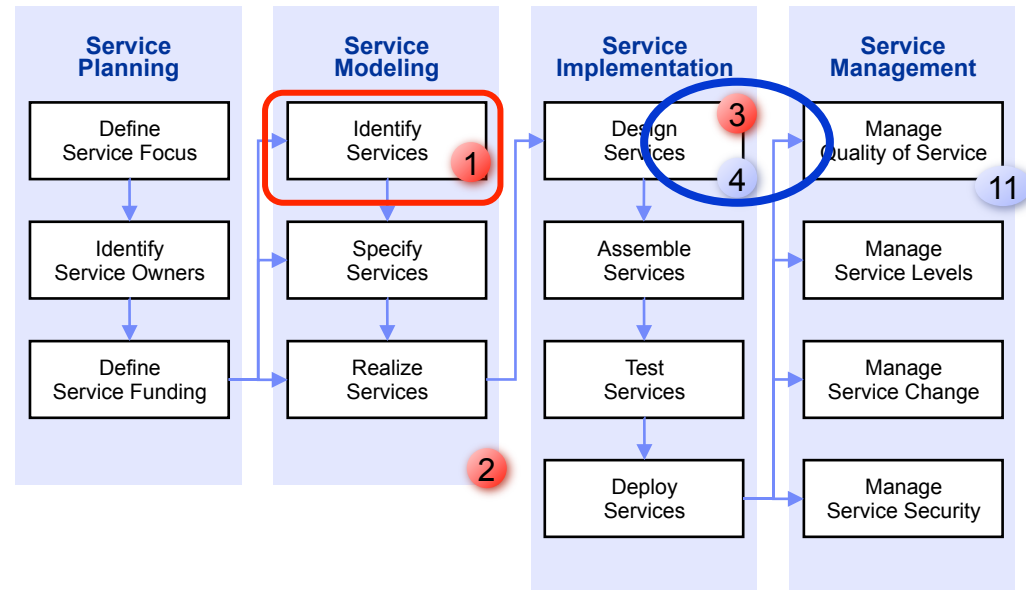
# Enterprise IT Architectures

## Example – Enforcement at Development Time



## Example – Enforcing Service Reuse Policy

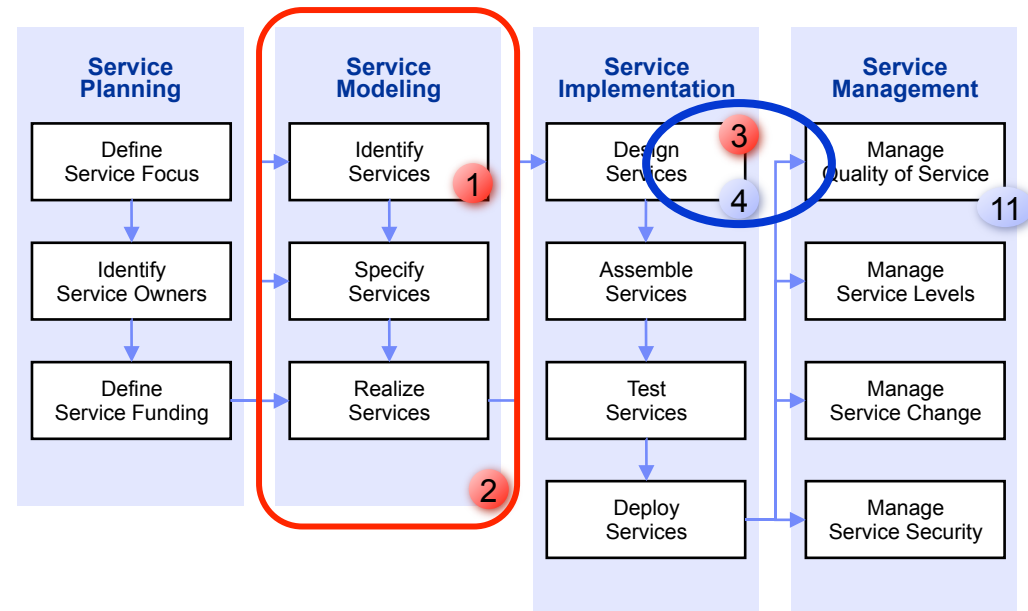
- During the “Identify Services” activities, the SOA Architect implements the **Service Reuse policy** searching for existing services
- At the **Validate Service Design** quality gate the policy is enforced



- Policy** 1 Services should be reused instead of created whenever possible
- Quality Gate** 4 Validate Service Design, semi-automatic enforcement during development

## Example – Enforcing Architecture Compliance Policy

- The SOA Architect implements the **Compliance with the Reference Architecture policy** during all the activities in the **Service Modeling phase**
- At the **Validate Service Design** quality gate the policy is enforced with a manual review of the service model



**Policy**

2

Services must be compliant with the existing reference architecture

**Quality Gate**

4

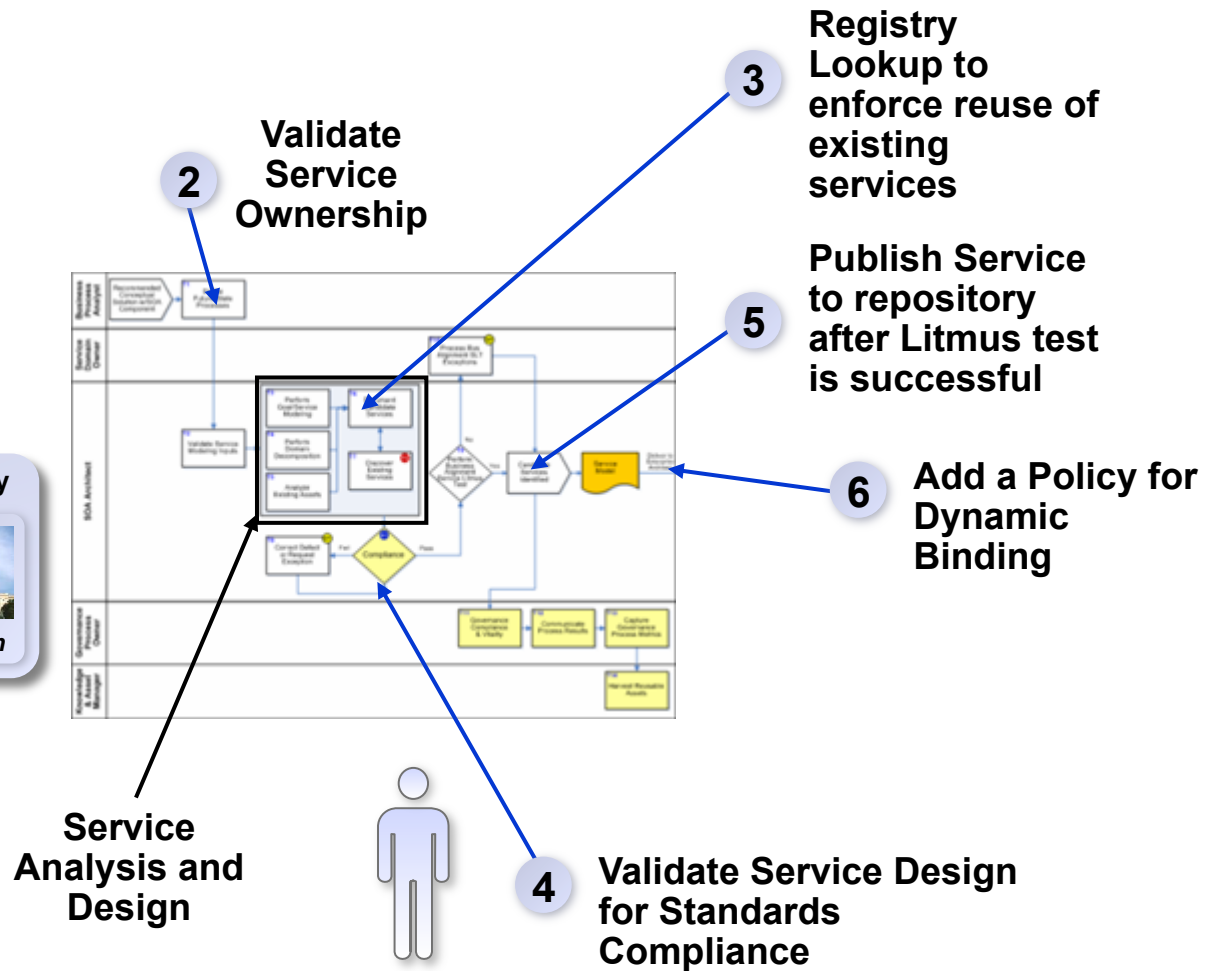
Validate Service Design, manual enforcement during development



# Governance at Development Time – Enforcing Policies of Services Life Cycle

Ensure Compliance and Define Policies

1 Service state transitions are defined based on governance solution



**Policies / Principles**

## Terms (again) – Definitions (Wikipedia, Oxford Dictionary)

### ▪ Policy:

- **A policy is a principle to guide decisions and achieve rational outcomes. A policy is a statement of intent, and is implemented as a procedure or protocol.**
- **Presidential executive orders, corporate privacy policies, and parliamentary rules of order are all examples of policy. Policy differs from rules or law.**

### ▪ Principle

- **Defines the underlying general rules which an organization will use to make decisions about the selection, utilization and deployment of all business and IT resources and assets, across the enterprise.**
- **“A fundamental truth or proposition that serves as the foundation for a system of belief or behavior or for a chain of reasoning.”**

## *Policies / Principles: Introduction Comment*

- **Policies / Principles**
  - The terms not used consistently, Policies often legally binding, Principles internally.
  - Both defining underlying general rules which an enterprise will use to make decisions“
  - They should be well expressed (Name, Description, Motivation, Implication)
  - Hierarchy: Guiding Ps down to Detailed, Company down to Coding Ps.
  
- **Hint: let “C”-management express Guiding Principles / Policies and explain how well they are handled (see Example)**

### Example *Guiding Principles / Policies* – Early Iteration

Guiding Principle	Description
Investigate TCO, ROI, and Risks	One of the element of risk management is that small suppliers should provide access to the code.
Reuse standard before buy standard before reuse non-standard solution before build internal solution	Standard is very important, reuse is the second choice but reuse of non-standard could be very costly and risky. Market applications (packet solutions) as seen as standards. This also applies to processes etc.
Simplify the portfolio of applications and reduce the complexity of the environment	Complexity of environment includes challenging the business requirements in order not to implement unnecessary functions.
“Do not reinvent the wheel” – use assets	
Manage Information/Data as a corporate wide asset	

# Policies / Principles must be at a consistent level, provide guidance and not dictate how things should be

### Defining Principles - Rules, Guidelines

#### A good principle:

- States a fundamental belief of the enterprise in one or two clearly written sentences.
- Recommends an action against which some arguments could be made.
- Has relevance to a technical architecture.
- Is worded directly and simply in terms understandable by both business and IT managers.
- Has business wide applicability.
- Is durable; will not be outdated quickly by advancing technology.
- Has objective reasons for advancing it instead of the alternatives which were considered.
- Has impacts which need to be documented.
- Represents change

#### A poor principle:

- Makes a statement which no one would dispute.
- Is a general business or financial statement.
- Has little or no general applicability. It may actually select a standard or a technology.
- Is stated at too low a level of detail and may not endure.
- May be included "because I say so".

# Questions

