



IBM SOA

SOA Governance and the Service Lifecycle

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Agenda

- What is SOA Governance?
- Why SOA Governance?
- Importance of SOA Governance
- SOA Governance and the Service Lifecycle
- What constitutes an SOA Governance model?
- SOA Governance and Management Method
- Governance Enablers/Tools
- SOA Governance Case Study

What is governance?

Governance

The establishment of *chains of responsibility* to empower people, *measurement* to gauge effectiveness, *policies* to guide the organization to meet its goals, *control mechanisms* to ensure compliance and *communication* to keep all required parties informed

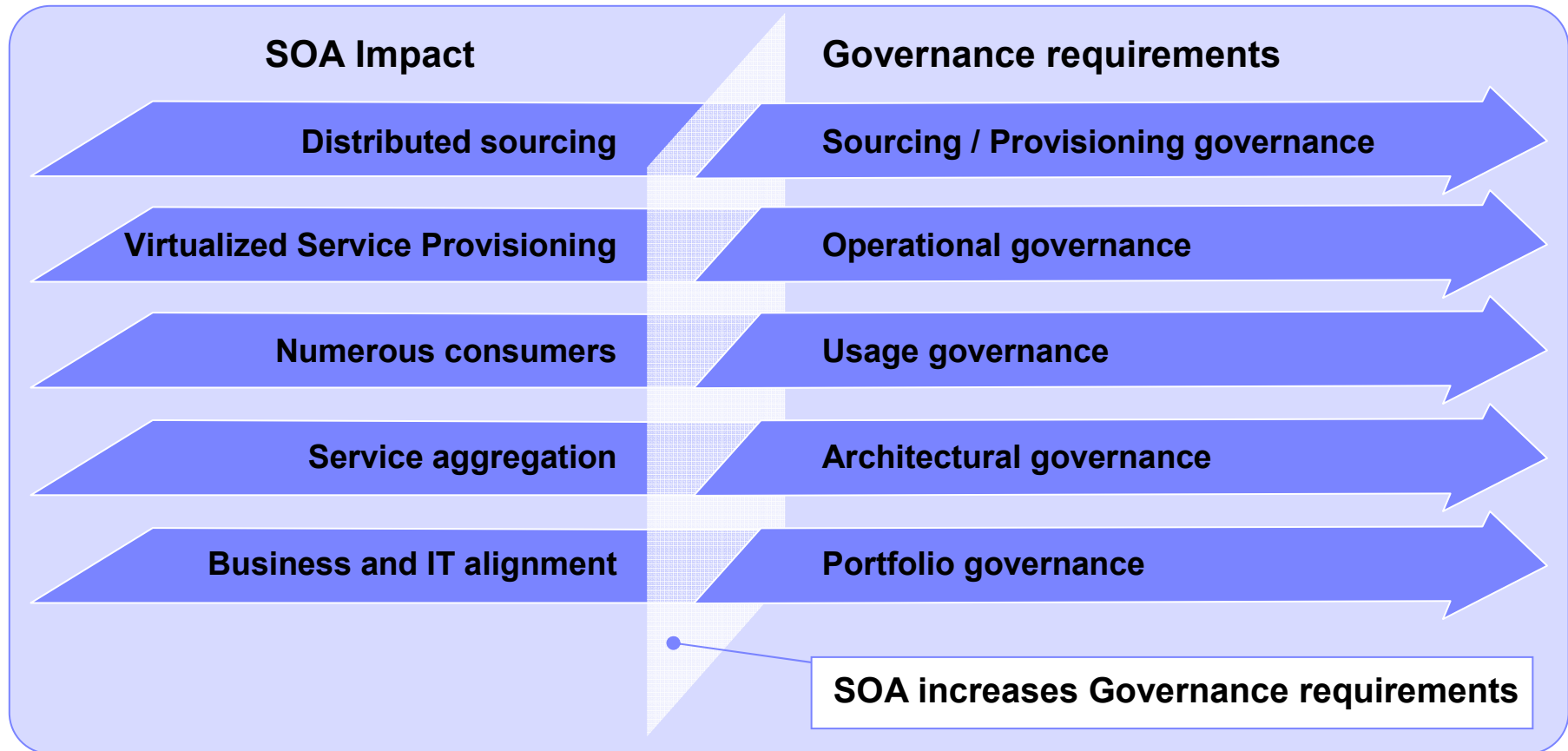
IT governance

The application of governance to an IT organization, its people, processes and information to guide the way those assets support the needs of the business

SOA governance

A specialization of IT governance that puts key IT governance decisions within the context of the lifecycle of service components, services and business processes. It is the effective management of this lifecycle that is the key goal to SOA governance

Why SOA Governance?



SOA governance is required to shift a company to SOA

From:

To:

Function oriented



Process oriented

Build for permanence



Support business adaptability

One long development cycle



Incremental development cycles

Application silos



Orchestrated solutions that work together

Tightly coupled



Loosely coupled

Structuring applications using components and objects



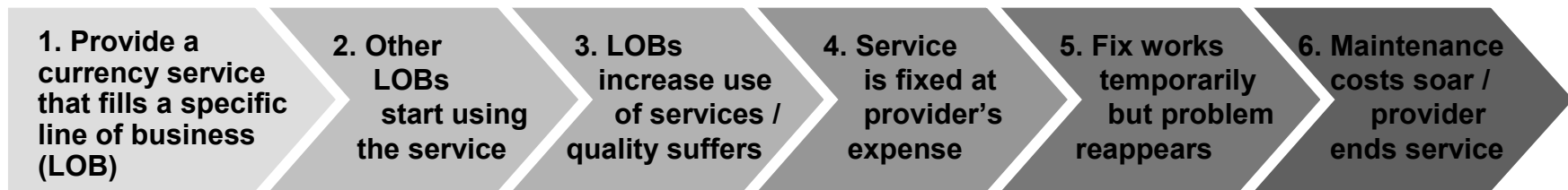
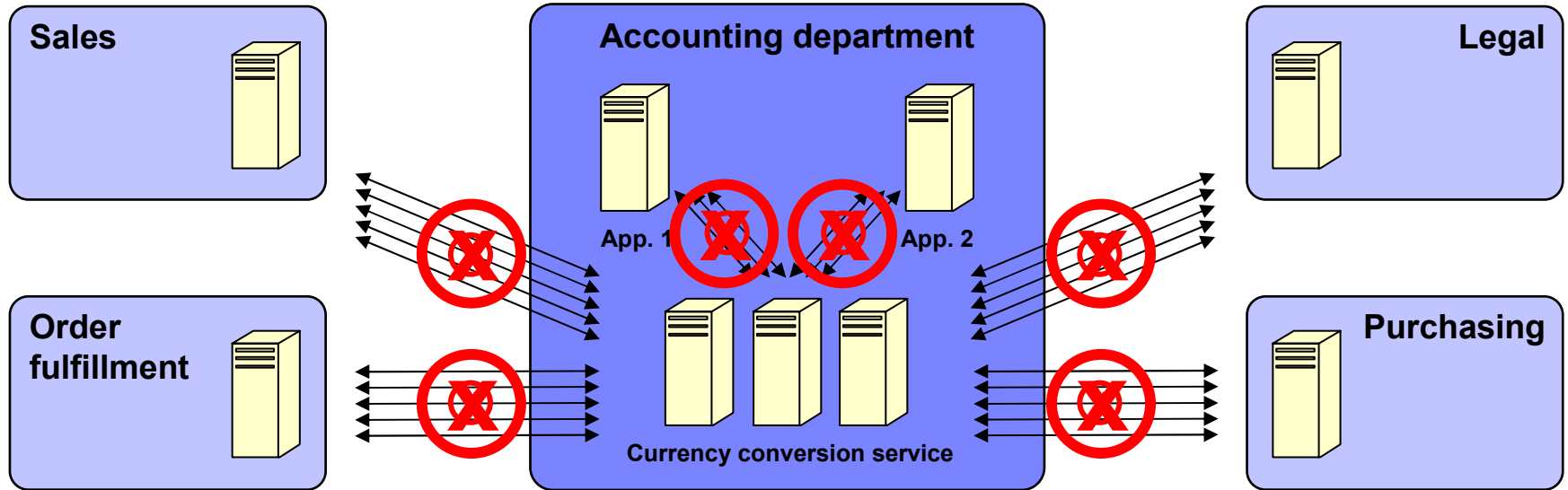
Structure applications using services

Known implementation



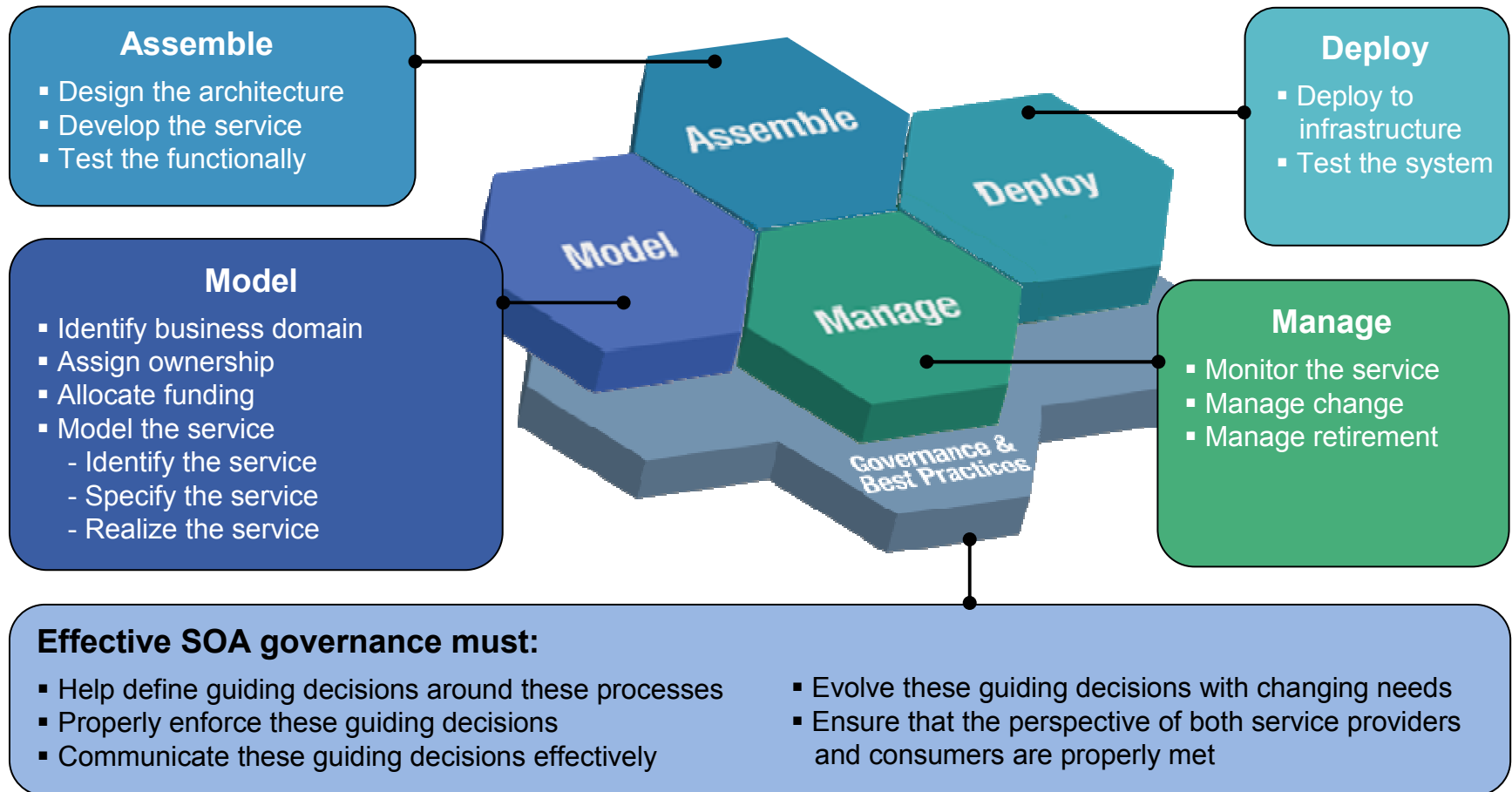
Implementation abstraction

A scenario on the importance of SOA governance*



* Scenario from *Introduction to SOA Governance*, Bobby Woolf.

SOA governance effectively manages the service lifecycle by governing key processes across the entire lifecycle



What constitutes an SOA governance model?

- **Principles**—guiding objectives and/or goals and associated metrics to ensure they are met
- **Role and responsibilities**—the roles and associated responsibilities that will facilitate business and IT alignment and properly establish decision rights
- **Guiding decisions**—policies, guidelines, best practices and standards
- **Methods**—consistent approach to establishing SOA governance and applying it across the lifecycle
- **Foundational governance processes**
 - Exception and appeals
 - Compliance
 - Vitality
 - Communication
- **Platform**—enabling technology (registry, monitoring, etc.)

Governance processes should make it easy to do things the right way and hard to do them the wrong way. Build schools, not prisons. The goal is to help people conform to best practices, not police them.

Mark Ericson, chief technology officer (CTO), Mindreef

SOA governance requires a methodological and rigorous approach to be successful

A comprehensive approach is needed to implement effective SOA governance that will:

- Assess the current organizational context of your organization
- Define a governance model that the organization will accept and embrace
- Leverage tooling to make governance operational and automatic
- Function based on best practices, processes, principles, policies and a methodology

Watch out for some potential traps in implementing SOA governance:

- SOA governance is not “one size fits all”
- SOA governance is not driven by tools
- SOA governance *addresses* the *uniqueness* of service orientation. Leverage and extend IT governance to achieve SOA governance
- SOA governance requires a non-siloed, consistent approach

The Phases of Methodology; the SOA Governance and Management Method

Design the governance approach

- Define / modify governance processes
- Design policies and enforcement mechanisms
- Identify success factors and metrics
- Identify owners and the funding model
- Charter / refine an SOA center of excellence
- Design the governance IT infrastructure

Put the governance model into action

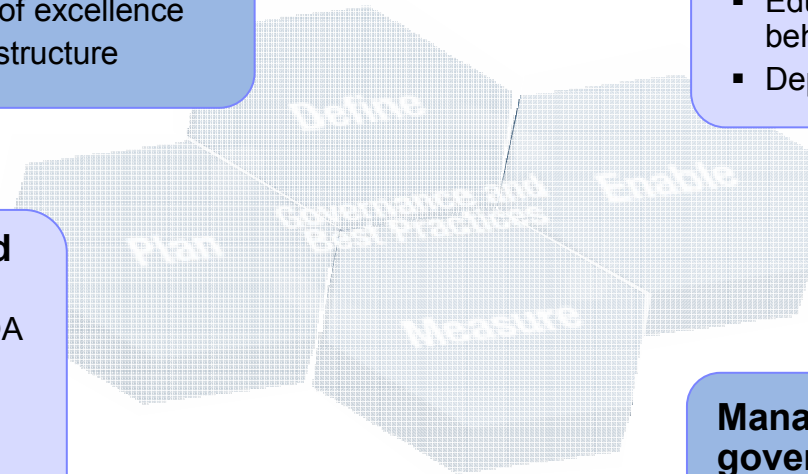
- Deploy governance mechanisms
- Deploy the governance IT infrastructure
- Educate and deploy on expected behaviors and practices
- Deploy policies

Scope the governance need

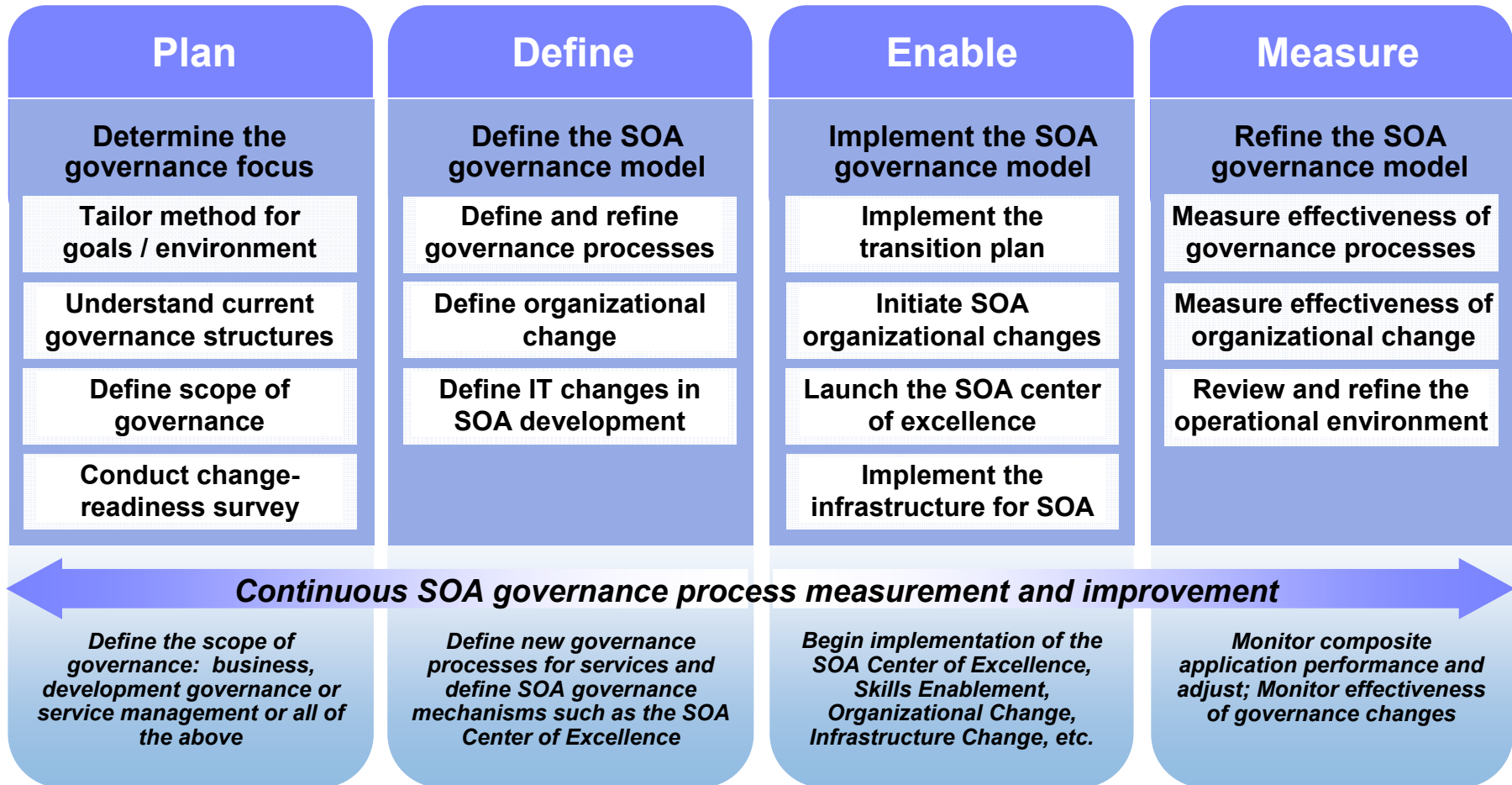
- Document and validate the business strategy for IT and SOA
- Assess current IT and SOA capabilities
- Define / refine the SOA vision and strategy
- Review current governance capabilities and arrangements
- Lay out the governance plan

Manage and monitor the governance processes

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

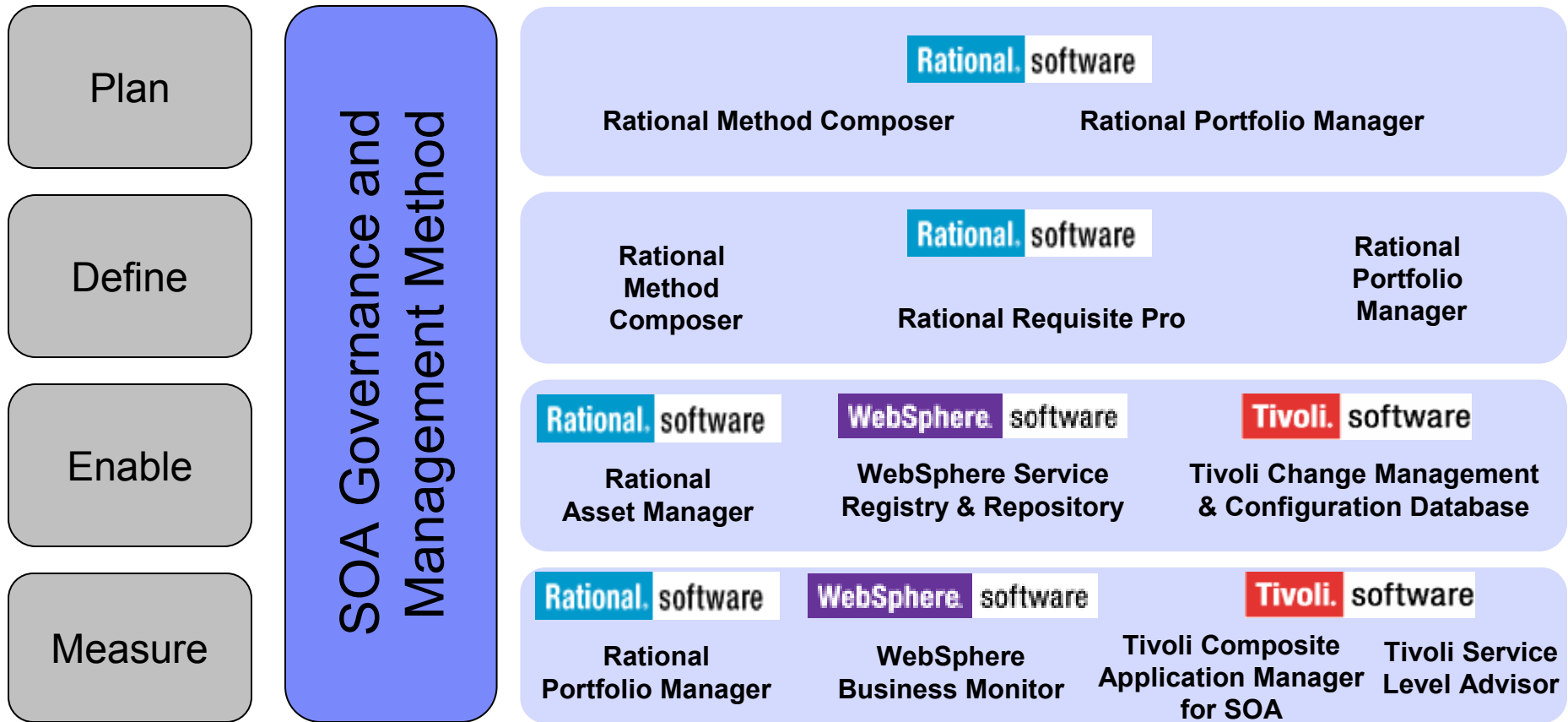


IBM's comprehensive approach to SOA governance is the SOA Governance and Management Method

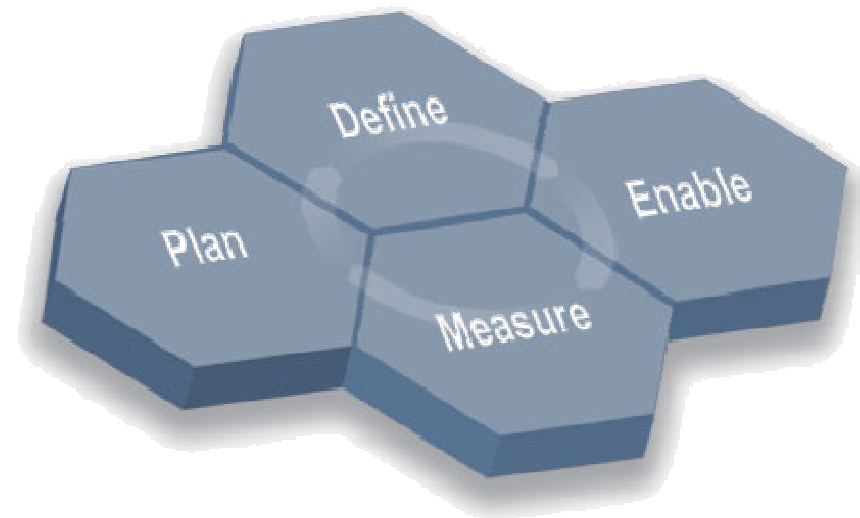


IBM establishes SOA governance through our methodology and instantiates governance with our tooling

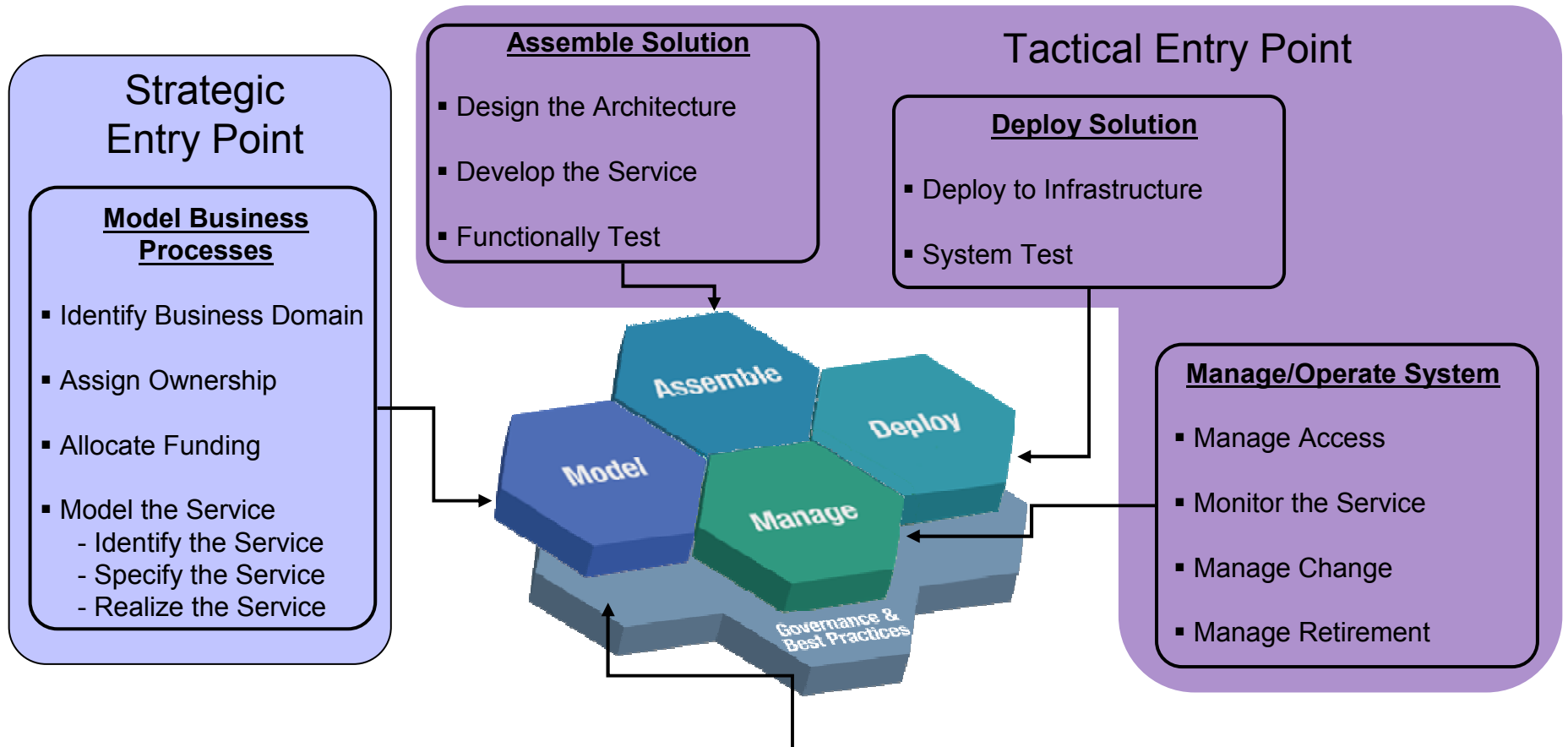
Phase Approach Enabling SOA / IT Governance Tools



SOA Governance Entry Points



How to get your hands around SOA governance; understand where to start:

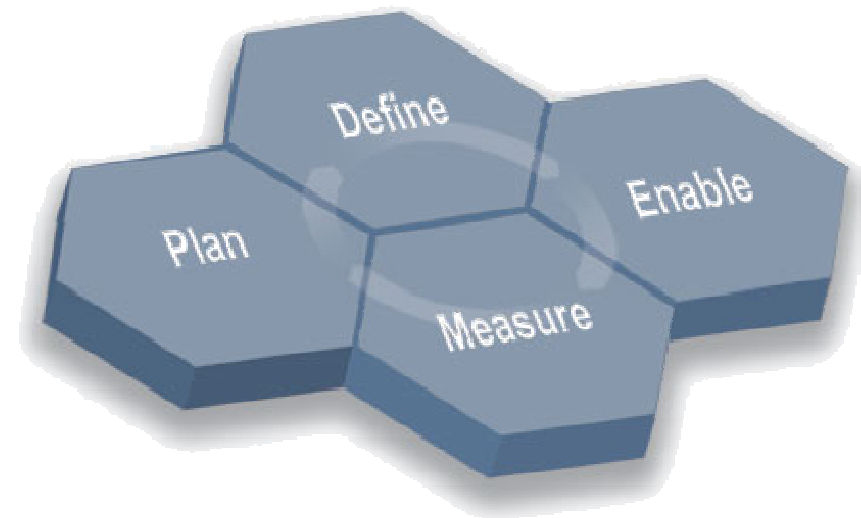


Effective SOA Governance Must:

- Help define guiding decisions around these processes
- Properly enforce these guiding decisions
- Communicate these guiding decisions effectively
- Evolve these guiding decisions with changing needs
- Ensure the perspective of both service providers and consumers are properly met

An SOA Governance Case Study:

Tactical / Bottom-up
Entry Point



Manufacturer initiated two parallel projects with governance as a pervasive layer in both efforts

Key Service

Customer Data Service – Consolidating over 100 physical interpretations of customer data into 4 and exposing new customer services to the enterprise.

Real Time Messaging Service – Providing real time access to manufacturing events that can be used by the network of dealers.

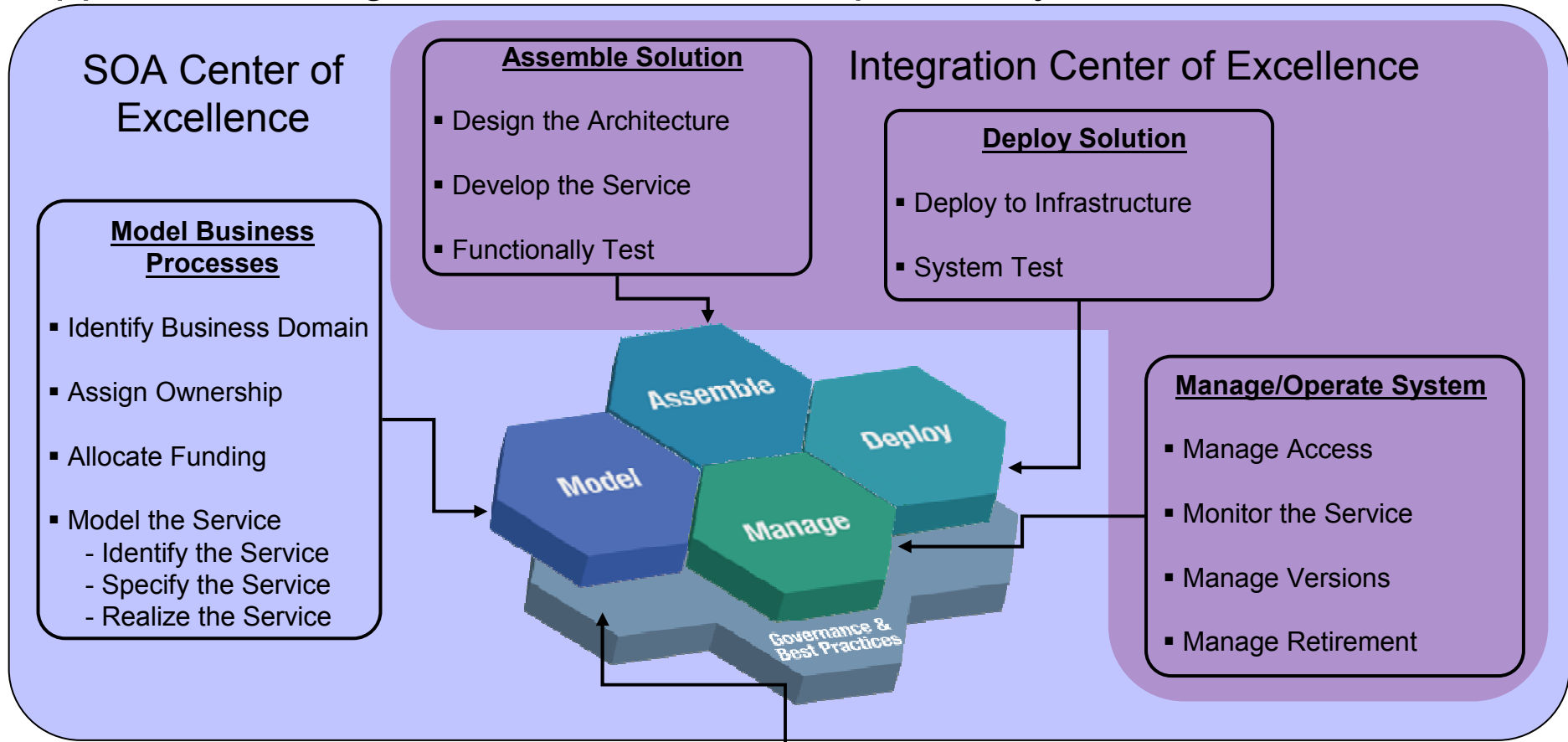
Governance

Established an Integration Center of Excellence (ICoE) to foster governance around the ESB and any services deployed in it's infrastructure. *** Emphasis is placed on organizational change management to adopt this new rigor and “Enterprise Thinking”.

Infrastructure

- Established the Enterprise Service Bus (WebSphere Message Broker) and Service Registry (WebSphere Service Registry & Repository)
- Designing greater interoperability across service providers, infrastructures and information consumers thus promoting the faster delivery of integration

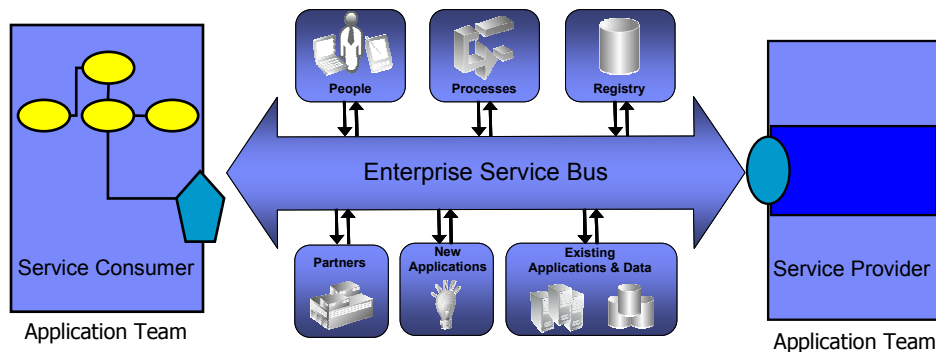
ICoE will be the first phase to establish an SOA CoE taking a tactical approach to mitigate risk and maximize probability for success



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Goals & Responsibilities of ICoE:

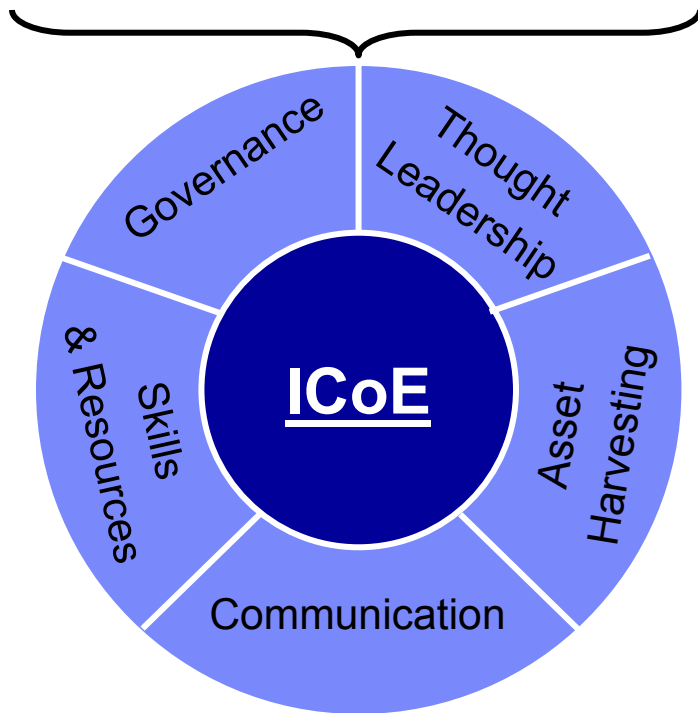


Goals:

- Enable **rapid solution delivery**
- Reduce **integration costs**
- **Optimize and simplify** business process automation

Key Responsibilities:

- Extend **existing IT governance**
- Establish **organizational mechanisms**
- Establish **rules of engagement**
- **Vitality & compliance** of ESB services
- Define **communication mechanism**
- Define long-term **service-orientation strategy**
- Enhance the **visibility of ESB** technology
- Establish needed **skills and resources**
- Design, develop and harvest **reusable assets around ESB**



Incremental Adoption of SOA (Governance) is key.

SOA Governance Maturity

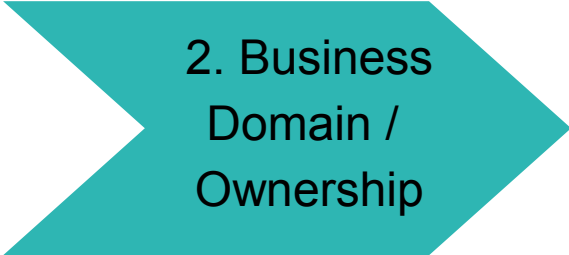


1. Bottom –up
Service
Integration



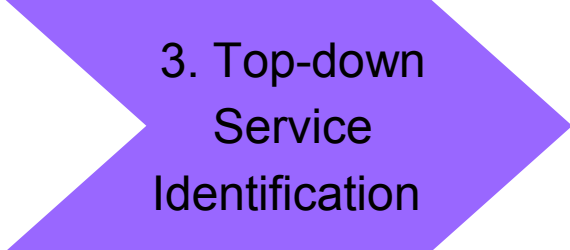
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2. Business
Domain /
Ownership



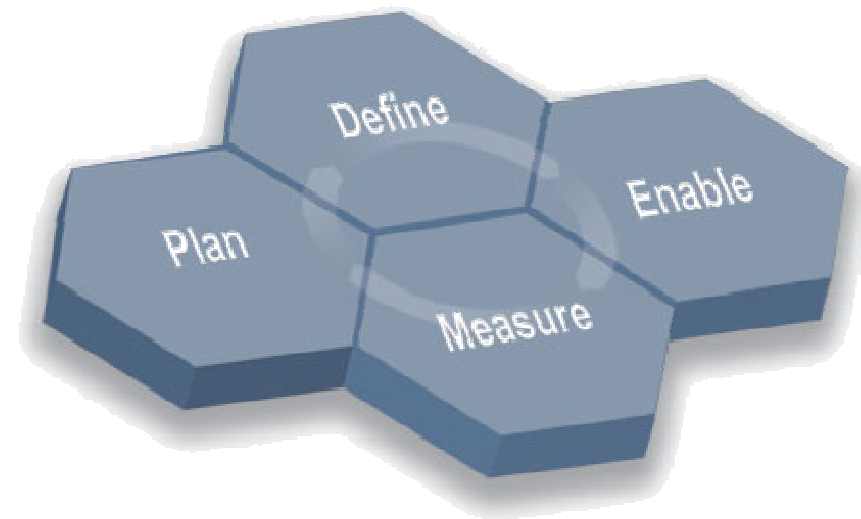
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3. Top-down
Service
Identification

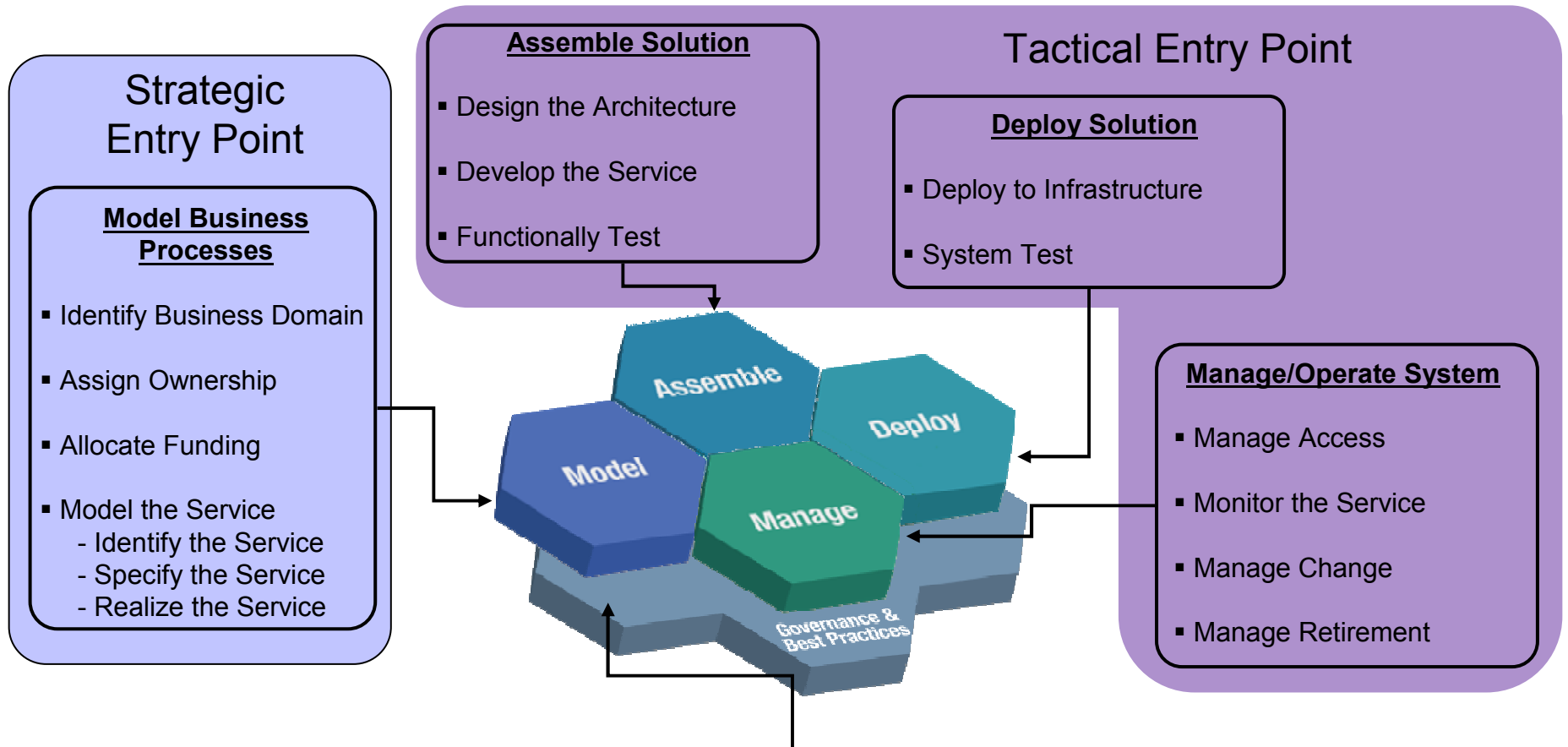


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Conclusion And Next Steps



How to get your hands around SOA governance; understand where to start:



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SOA governance factors to consider

1. Garner C-level backing across the board
2. Engage the business and drive business value
3. Establish an SOA funding model for the long term
4. An enterprise architecture facilitates initial establishment of SOA governance
5. Commit to roles, responsibilities and resources
6. Socialize the governance model

धन्यवाद

Hindi

多謝

Traditional Chinese

ขอบพระคุณ

Thai

Спасибо

Russian

Gracias

Spanish

شكراً

Arabic

Thank You

Obrigado

Brazilian Portuguese

Grazie

Italian

Dank

German

Merci

French

e

நன்றி

Tamil

多谢

Simplified Chinese

감사합니다

Korean

ありがとうございました

Japanese