



IBM SOA Executive Summit

# Moving Ahead With SOA

## IBM Strategy for SOA Governance: *Empowering Teams to Innovate*



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# SOA Entry Points Help Customers Get Started

*Both Business Centric and IT Focused*



## SOA Governance is important

***“Half of all companies and 77% of large enterprises reported that they are or will be using SOA by the end of 2005. Why? Evidence is mounting that SOA provides real benefits for business integration and flexibility.”***

*Real-World SOA: SOA Platform Case Studies, Forrester Research, Inc., September 2005*

**CIOs continue to struggle to align business and IT in meaningful, measurable ways. More effective IT governance processes and tools are becoming top priorities among business-savvy CIOs.**

*Five Ways the Rise of IT Governance Will Change How Enterprises Buy IT, Summit Strategies, December 2005*

**In 2006, lack of working governance mechanisms in midsize-to-large (greater than 50 services) post-pilot SOA projects will be the most common reason for project failure (0.8 probability).**

*Management Update: Predicts 2006: The Strategic Impact of SOA Broadens, Gartner, Inc., Jess Thompson, Yefim V. Natis, Massimo Pezzini, Paolo Malinverno, November 23, 2005*

**With the widespread adoption of SOA, the challenges associated with SOA projects are emerging. SOA governance isn't optional — it's imperative. Without it, return on investment will be low and every SOA project out of pilot phase will be at risk.**

*Service-Oriented Architecture Craves Governance, Gartner, Inc., Paolo Malinverno, January 20, 2006*

## What is governance?

Chains of responsibility,  
authority & communications  
to **empower** people

Measurement, policy & control  
mechanisms to **enable** people  
to carry out their roles  
and responsibilities



## What is IT governance?

Establishing decision-making rights associated with IT

Establishing mechanisms and policies used to measure and control the way IT decisions are made and carried out

## What is SOA governance?

Extension of IT governance focused on the **lifecycle of services** to ensure the business value of SOA



*SOA Governance is a catalyst for improving overall IT governance*

## SOA Governance Challenges

- Establishing decision rights
- Defining high value business services
- Managing the lifecycle of assets
- Measuring effectiveness

Note: Based on real life IBM SOA engagements

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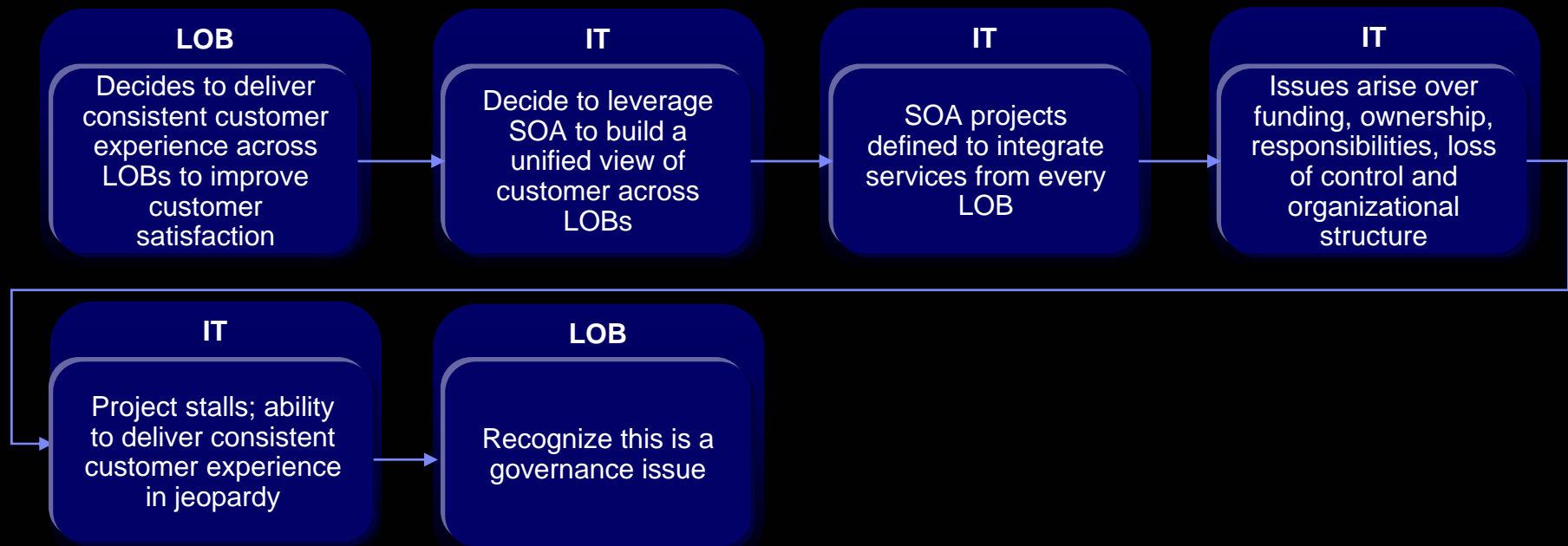




# Scenario: Establishing decision rights

## *Everyone is responsible and no one is responsible*

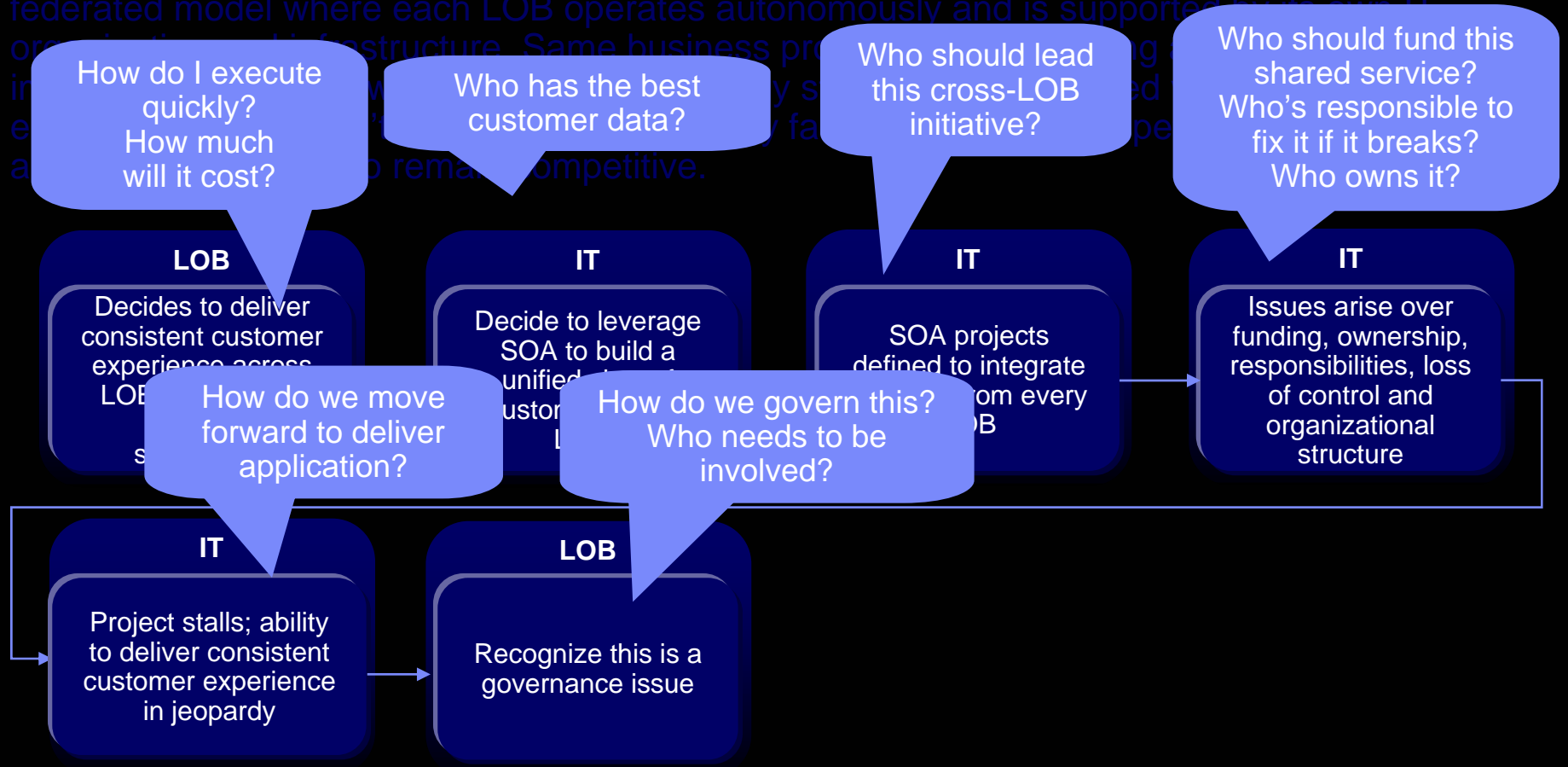
Large insurance company offering a variety of services (e.g., home, life, auto) running on a federated model where each LOB operates autonomously and is supported by its own IT organization and infrastructure. Same business process and supporting applications implemented in many ways. Minimal technology standards has created very diverse environments that don't interoperate. Company facing increased competitive pressure and looking for ways to remain competitive.



# Scenario: Establishing decision rights

## *Everyone is responsible and no one is responsible*

Large insurance company offering a variety of services (e.g., home, life, auto) running on a federated model where each LOB operates autonomously and is supported by its own IT organization and infrastructure. Some business processes are shared across LOBs, but each LOB remains responsible for its own IT infrastructure. Some business processes are shared across LOBs, but each LOB remains responsible for its own IT infrastructure.

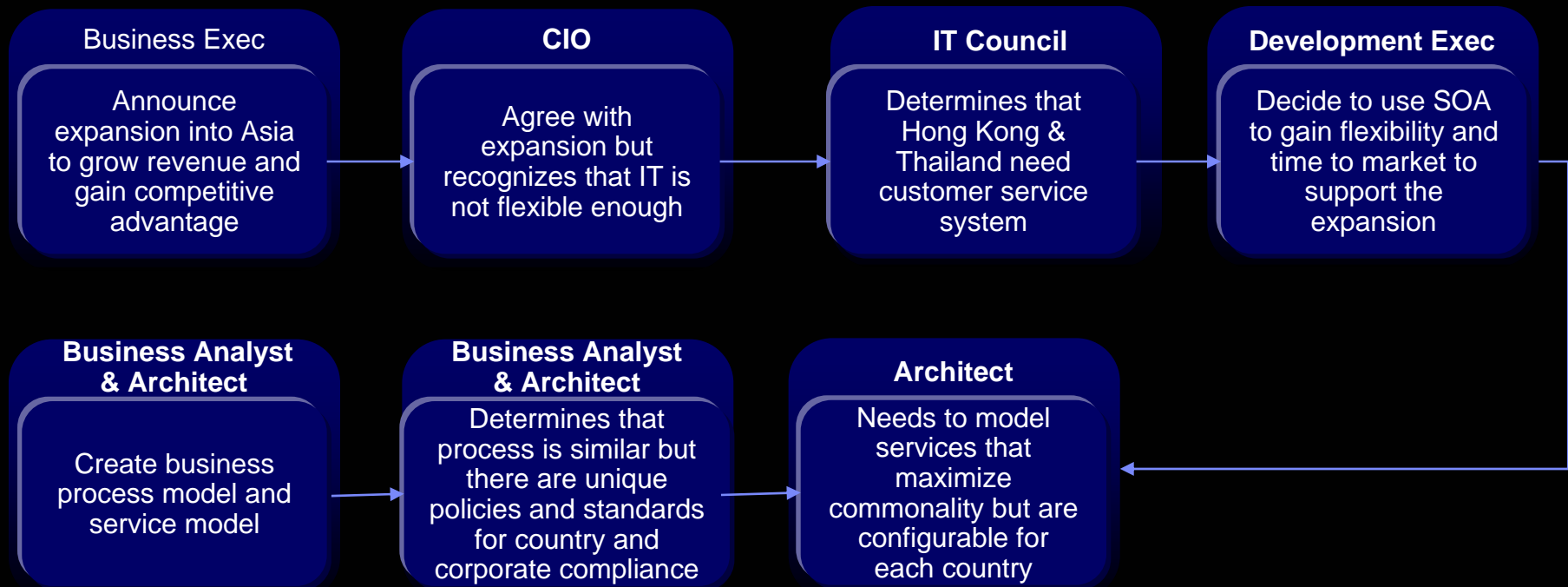




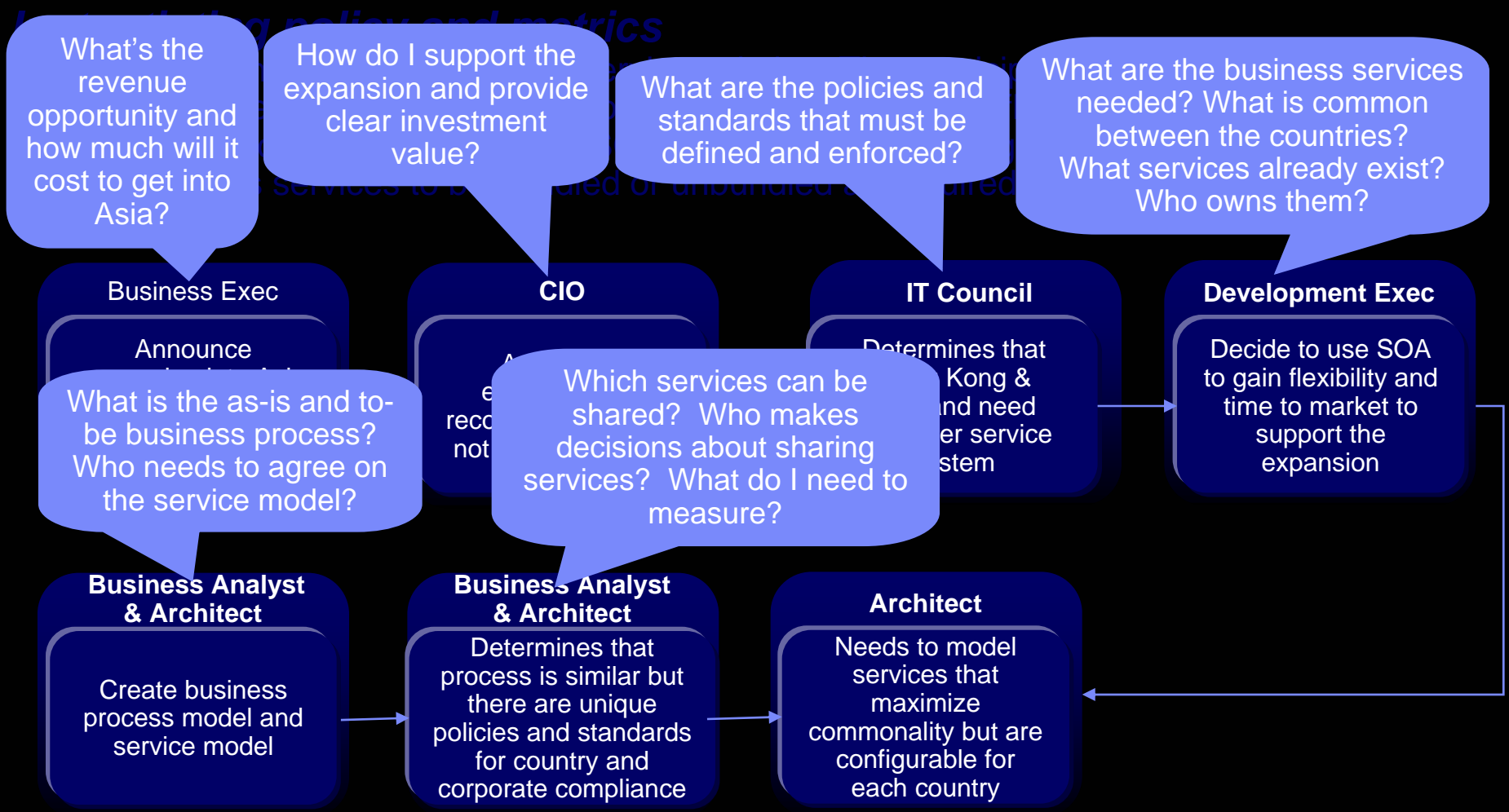
# Scenario: Defining high value business services

## *Instantiating policy and metrics*

Large bank rolling out new customer service solution. They anticipate expanding into different countries. To lower total cost of ownership, they want a flexible implementation that can be tailored to local requirements. SOA is a core underpinning of this strategy allowing shared business services to be bundled or unbundled as required by each country.



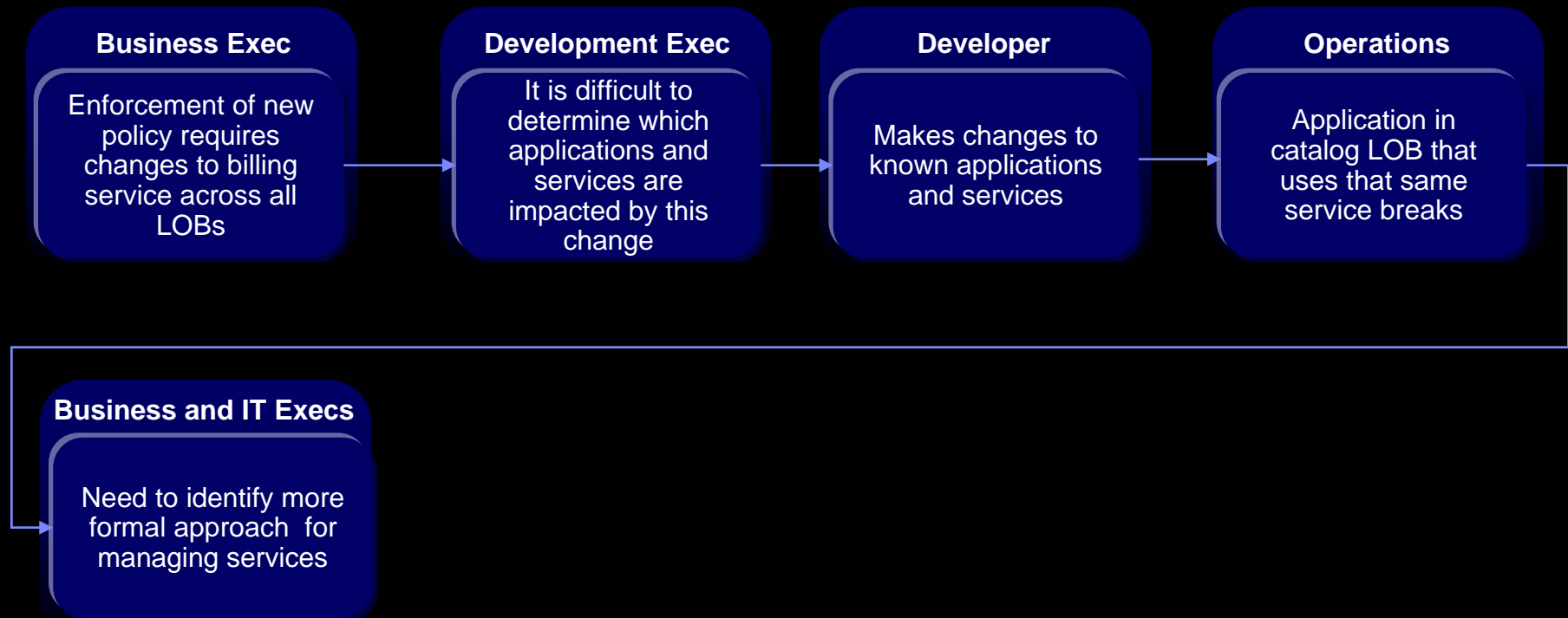
# Scenario: Defining high value business services



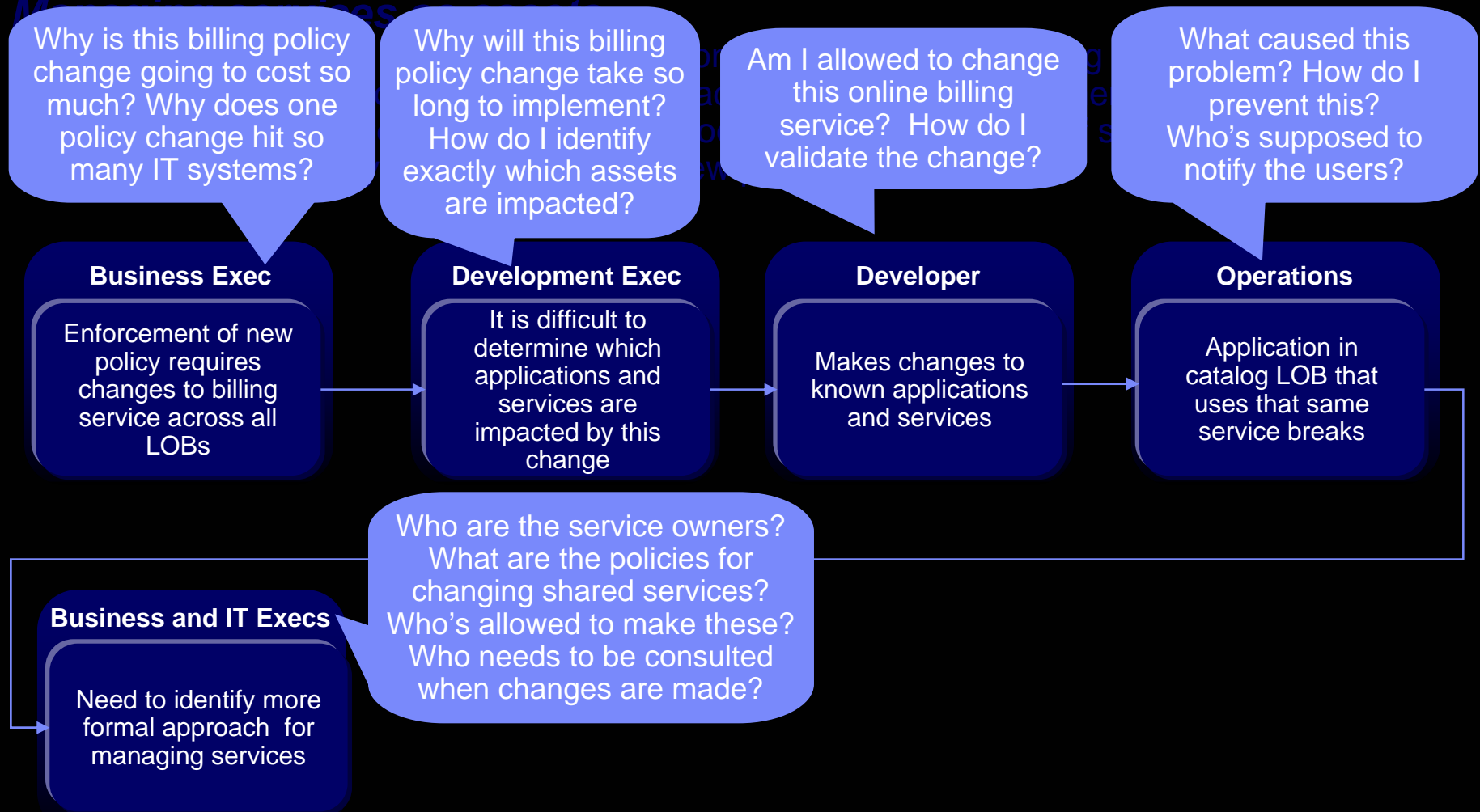
# Scenario: Managing the lifecycle of assets

## ***Managing services as assets***

Large retailer faced with increasing competition to its online and catalog sales channels institutes a new billing policy. Each LOB has adopted SOA and implemented its own unique solution. It has been determined that this uncoordinated proliferation of services is an impediment to efficiently implementing this new policy.



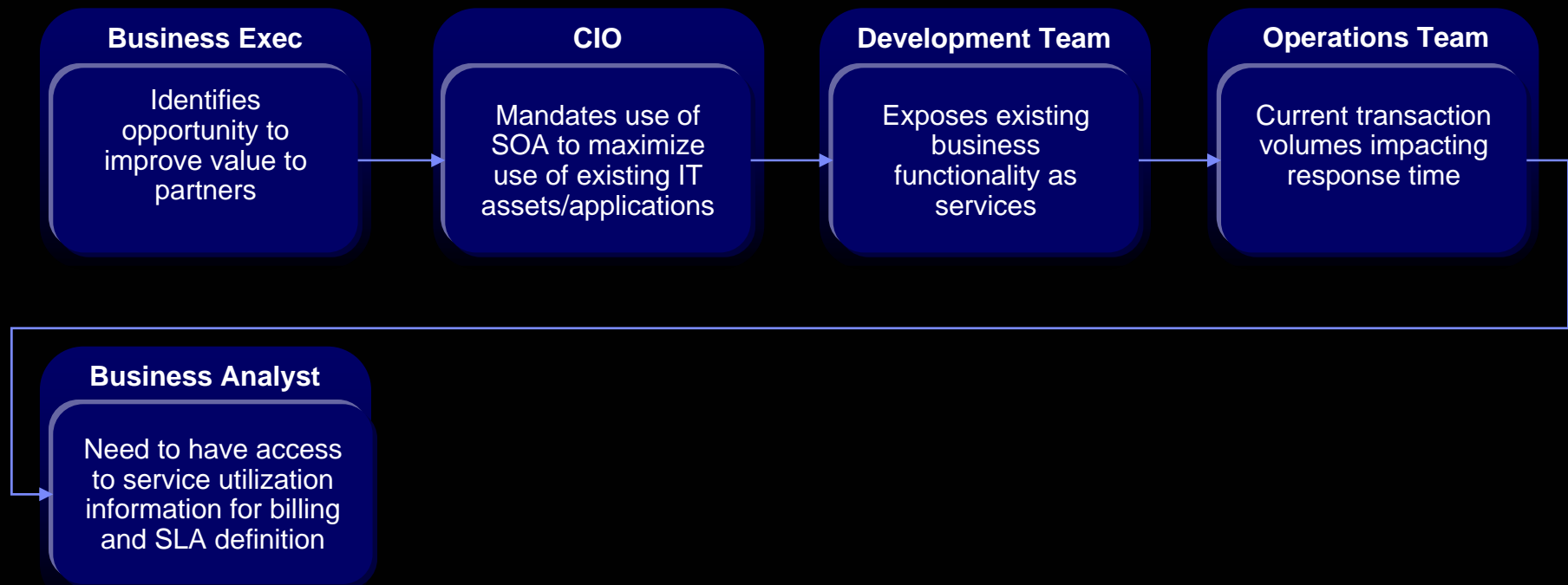
# Scenario: Managing the lifecycle of assets



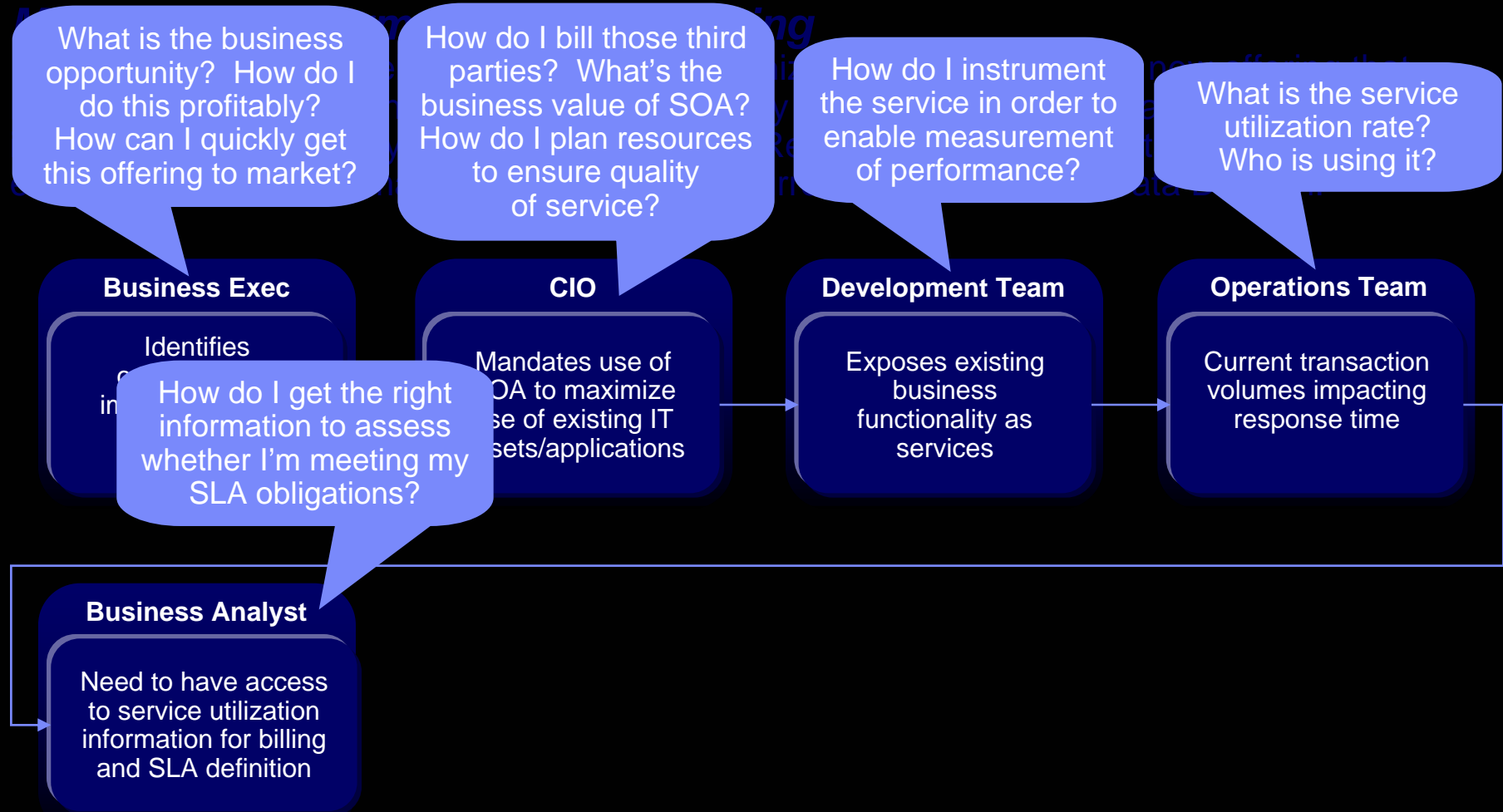
# Scenario: Measuring effectiveness

## *Measuring performance and adjusting*

Residential Division in telecommunications organization wants to launch new offering that requires changes to billing system. The company embraced an SOA strategy in order to improve staff productivity and lower costs. The Residential Division wants to reuse an existing customer information retrieval service currently owned by the Data Division.



# Scenario: Measuring effectiveness





# SOA Governance Challenges: Real Life Examples

## Common Scenario

- Composite applications and services shared across lines of business
- LOB and IT not well aligned
- Limited visibility to information about the business value and cost of services
- Ad hoc service discovery

## Challenges

- No clear decision maker or owner
- Roles and responsibilities not clear
- Confusion about funding
- Lack of common goals
- Who and how are success factors defined
- Metrics for success ill defined
- How are cost & benefits balanced between departments
- Limited reuse resulting in service proliferation
- Lack of trust

## Current approaches to SOA Governance

- Deploy SOA technology like service registries and SOA management solutions
  - Registries needed to manage services at runtime but not sufficient on its own
  - Management is most effective when done in the context of governance
- Fragmented, uncoordinated activities around SOA
  - Inconsistent approaches that result in limited ability for reuse
- Business as usual
  - Treat SOA projects same as others
- SOA governance planning

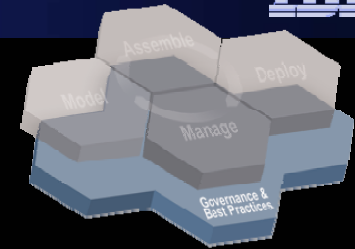
## What is needed

- Comprehensive approach encompassing entire services lifecycle with multiple entry points
- Best practices, methodology and processes and tools and technology
- Proper SOA governance as part of a larger IT governance structure allows for rational decision making on tradeoffs between application construction (custom build) vs. application integration (SOA)

# Governance is key to realizing the full value of SOA



# SOA Governance Lifecycle



## Establish 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



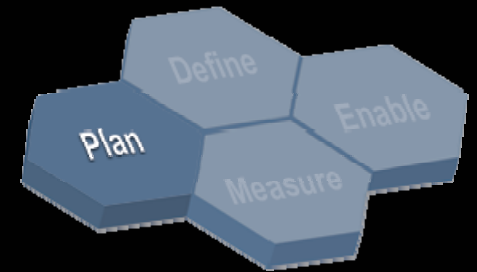
## Monitor and Manage the Governance Processes

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

## Deploy the Governance Model Incrementally

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

# Establishing decision rights: Scenario



## Scenario:

- SOA initiative already underway
- Services shared across lines of business

## Challenges:

- No clear decision maker or owner
- Confusion about funding of shared services
- Standards for services QoS ill defined

# Getting Started: Establishing decision rights



**Business Executive**

Determine business strategy that leverages SOA  
**SOA Assessment Services**

Assess readiness for SOA  
**SOA Assessment Services**

Assess current governance approach  
**SOA Governance and Management Method**

Determine governance plan  
**Rational Method Composer**



**IT Executive**



# Defining high value business services: Scenario



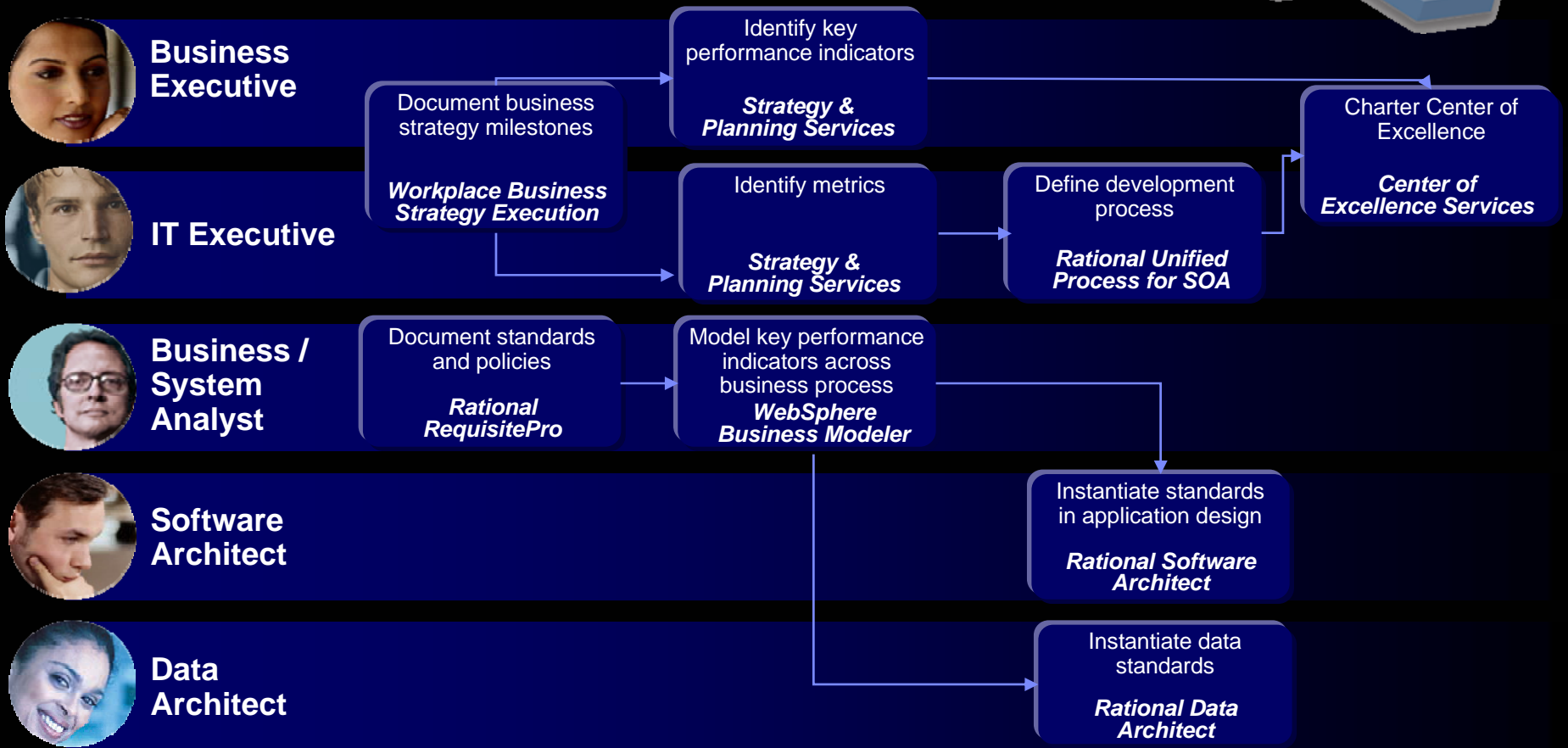
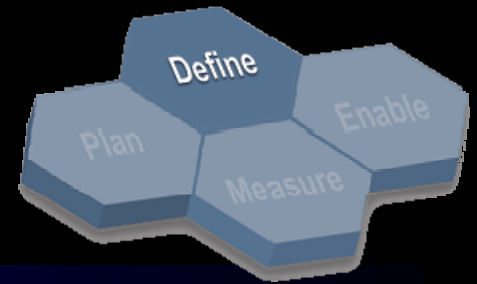
## Scenario:

- Limited visibility to information about service value & cost
- Services deployed according to IT cost savings instead of business value

## Challenges:

- Lack of clear understanding of business value
- No clear success factors defined for LOB
- Who decides which services are shared and how are costs shared across Lines of Business (value vs. cost based models)

# Getting Started: Defining high value business services



# Managing the lifecycle of assets: Scenario



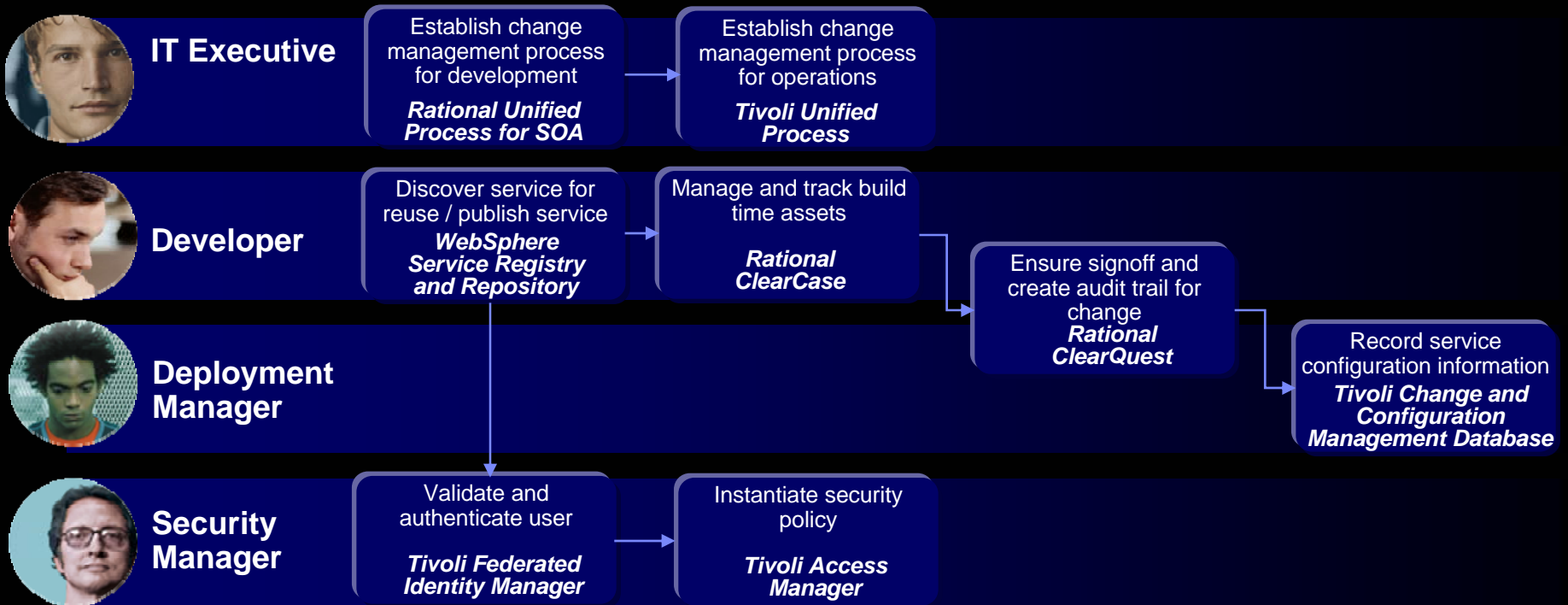
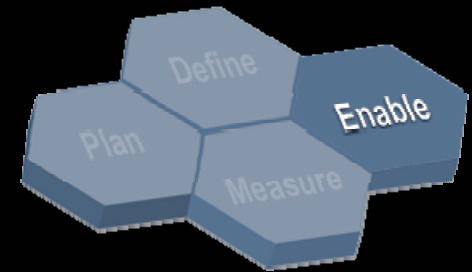
## Scenario:

- Different LOB has implemented different SOA models
- Each LOB has separately funded initiatives and are resistant to change

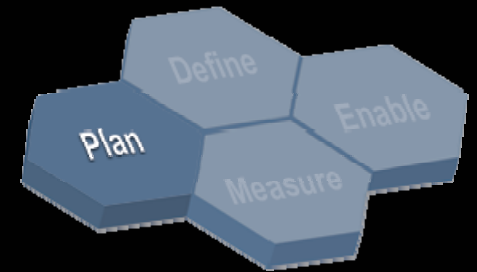
## Challenges:

- Little insight into change management of systems & multiple inter-connected services
- Unclear policies on how are services owners and users are notified of change
- No clear understanding if service owners and service subscribers have decision rights when changes occur

# Getting Started: Managing the lifecycle of assets



# Measuring Effectiveness: Scenario



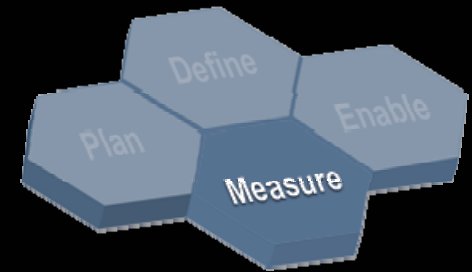
## Scenario:

- LOB and IT not well aligned - lack of common goals or agreed upon success factors
- Measurements not standardized across LOBs
- Measurements based on service utilization rates not business value

## Challenges:

- Depts or divisions have disparate goals, measurements and success criteria
- No clear definition of business value and IT goals
- Costs / benefits not balanced between depts

# Getting Started: Measuring effectiveness



**Business Executive**

Measure performance against business strategy milestones

*Workplace Business Strategy Execution*

Monitor key performance indicators

*WebSphere Business Monitor*



**IT Executive**

Measure project costs

*Rational Portfolio Manager*



**Operations Manager**

Monitor performance against service level agreement

*Tivoli Service Level Adviser*

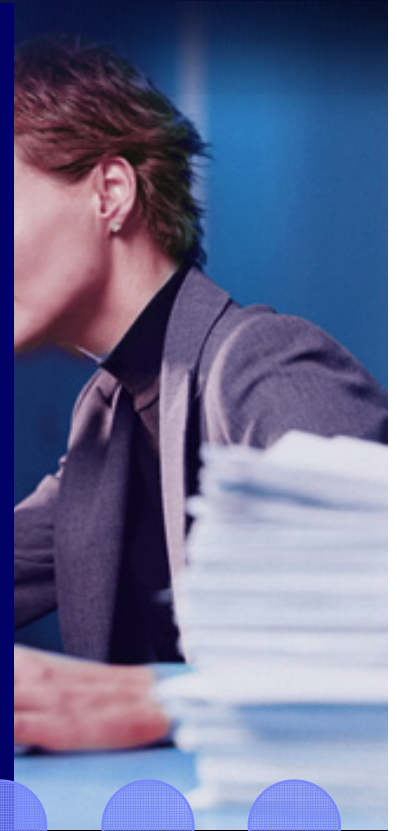
Monitor and measure service performance

*Tivoli Composite Application Manager*



## Additional skills and expertise available

- IBM Organizational Design Services to help refine organizational model
- IBM Design Services for SOA to help create services model
- IBM Infrastructure Services for SOA readiness, design and optimization



*“To fully realize the potential value of SOA, an organization needs to adjust both its infrastructure and its governance mechanisms. This means providing the information to support good decisions, and the mechanisms governing who can decide what, when and on what grounds. The governance process must also cover the full life cycle of software and infrastructure. IBM through its broad infrastructure and tools base has a unique opportunity to deliver a coherent development, management and governance platform. I am pleased that IBM is taking an SOA governance initiative, and look forward to working together on addressing this important issue.”*

**-Claus Torp Jensen, VP, Head of Architecture and Development Strategy, Danske Bank**

## Next steps

- Learn more about SOA Governance
  - [ibm.com/soa/gov](http://ibm.com/soa/gov)
- Download whitepaper
  - [ibm.com/soa/gov](http://ibm.com/soa/gov)
- Identify aspect of governance for initial focus
- Conduct an SOA Workshop



THANK  
YOU

