# Addressing SOA Governance Challenges Introducing AgilePath's SOA Governance Reference Model v. 1.0



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Agile Path

### Leading SOA Trends

- ESBs are the answer!!!???
- Reuse = SOA (tactical vs. strategic)
- Governance, governance, governance
- Organizational, behavioral and cultural challenges of SOA
- ROI of SOA is still squishy... new approaches to ROI are necessary
- Industry consolidation = maturity of SOA?
  Not really...



### **SOA Governance Challenges**

- Misunderstood topic heavy tools emphasis by ISVs
- Governance is way misunderstood
  - Governance = registry or repository
  - Governance = tool
- SOA is spatially and temporally distributed
- Governance is behavior (90%), not technology (10%)
- SOA Governance is essential to manage many levels of SOA decision rights
  - Business, architecture, technology, standards, services, WS-\*, et al
- SOA Governance Reference Model v 1.0
- SOA Bill of Rights<sup>TM</sup>

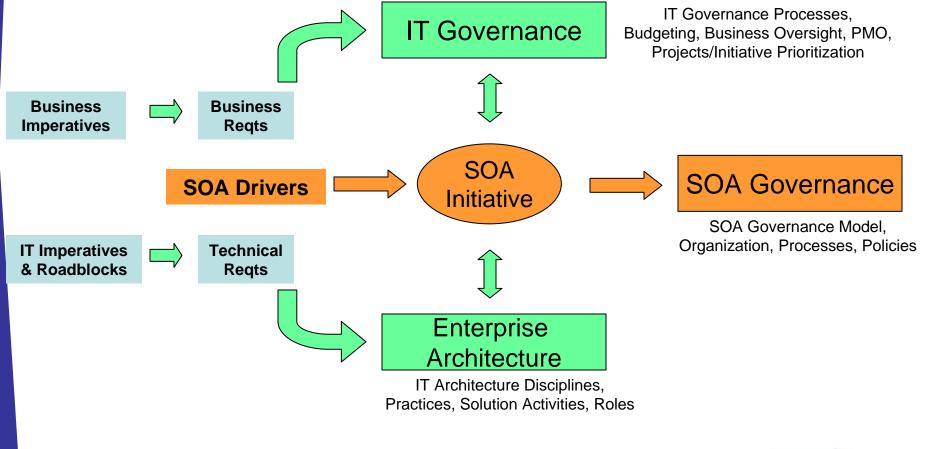


### Six Most-Asked SOA Questions



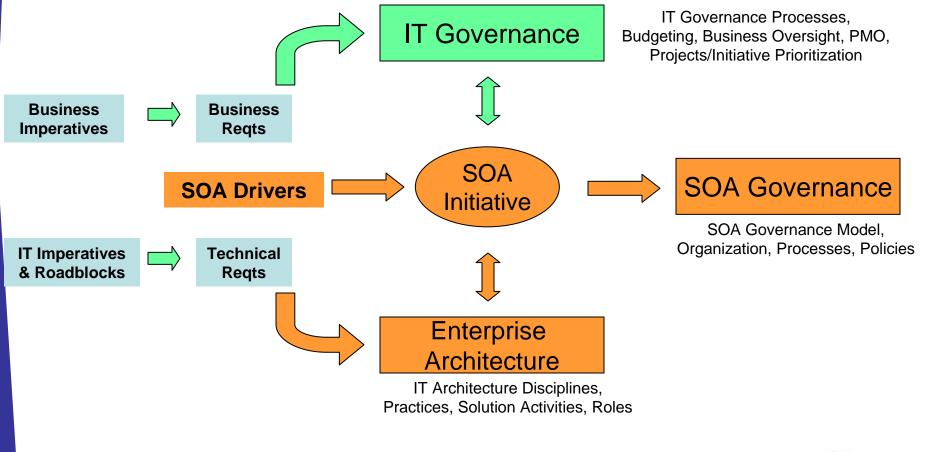


#### SOA Governance Impacts Existing IT Organizations and Processes



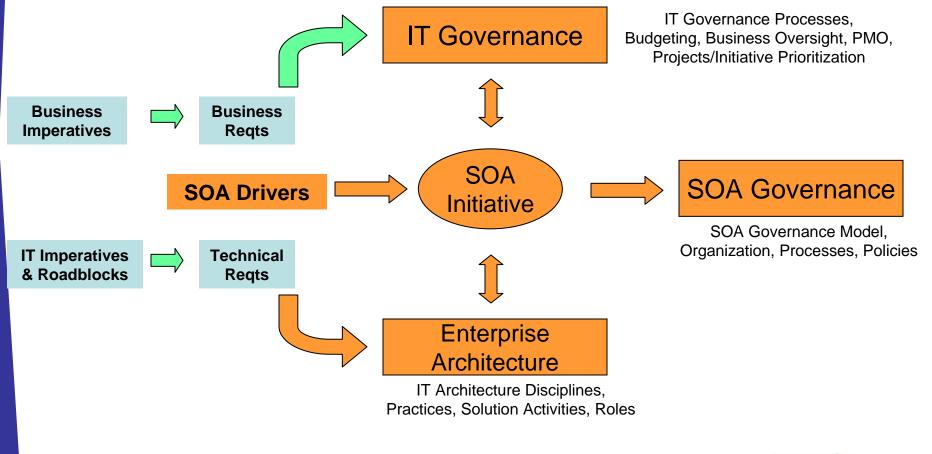


#### Current Enterprise Architecture Model Must be Tuned for SOA





#### Current IT Governance Model Must be Tuned for SOA





### SOA Governance Requirements

- **Strategy and Goals:** What is to be governed? Why?
- Organization: structure and processes for SOA oversight
- Processes: roles, responsibilities and procedures for managing SOA activities
- Policies: enforcement issues including standards, security, release, re-use
- Metrics: business outcomes with specific metrics for success
- Behavior: behavioral model, incentives, penalties and rewards for appropriate "SOA Behavior"



SOA Governance: Requires Three Major Activities

- Establish governance strategy, organization and processes
- Define SOA policies and enforcement model
- Governance implementation
  - Processes (design, pub/discovery, runtime)
  - Enabling technology and integration
  - Automated policy enforcement
- Goal: Closed Loop SOA Governance



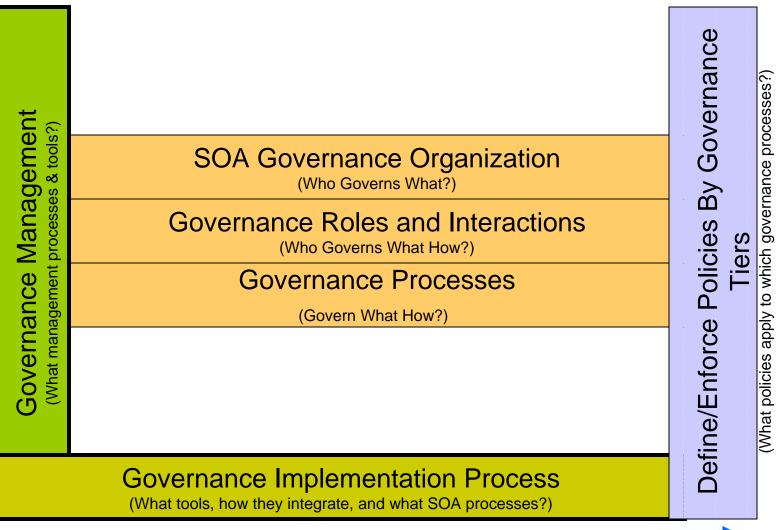
Governance Management (What management processes & tools?)	SOA Governance Strategy and Goals (Govern What and Why?) SOA Policies	Governance
	(What policies to enforce?)	OVERNA
	SOA Governance Organization (Who Governs What?)	By Go
	Governance Roles and Interactions (Who Governs What How?)	Policies By G Tiers
	Governance Processes (Govern What How?)	P D
	Governance Behavior & Reinforcement Model (What behavior and incentives?)	nforco blicies ap
	Governance Metrics & Performance Mgt. (What metrics & SLAs support the goals and how?)	Define/Enforce
	Governance Implementation Process (What tools, how they integrate, and what SOA processes?)	Def





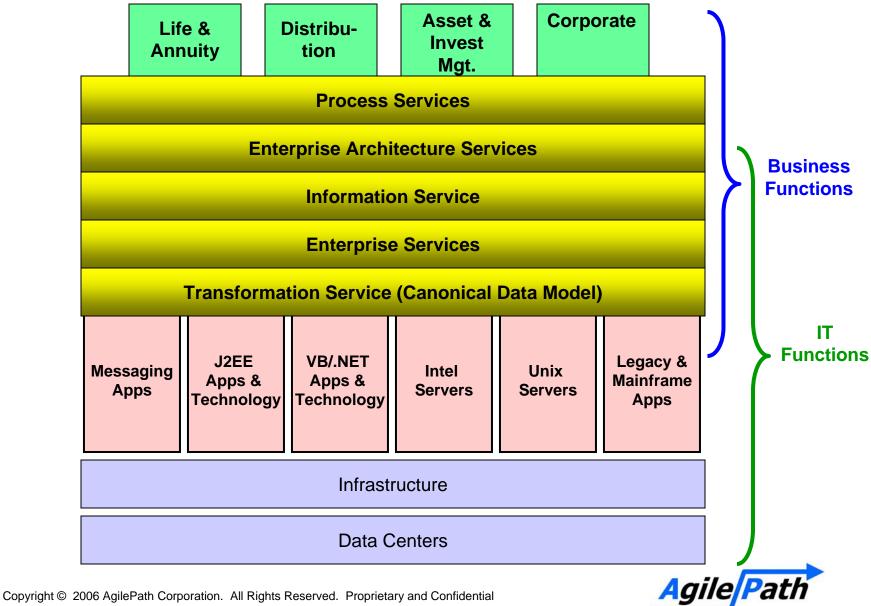








### Allocation of SOA Decision Rights



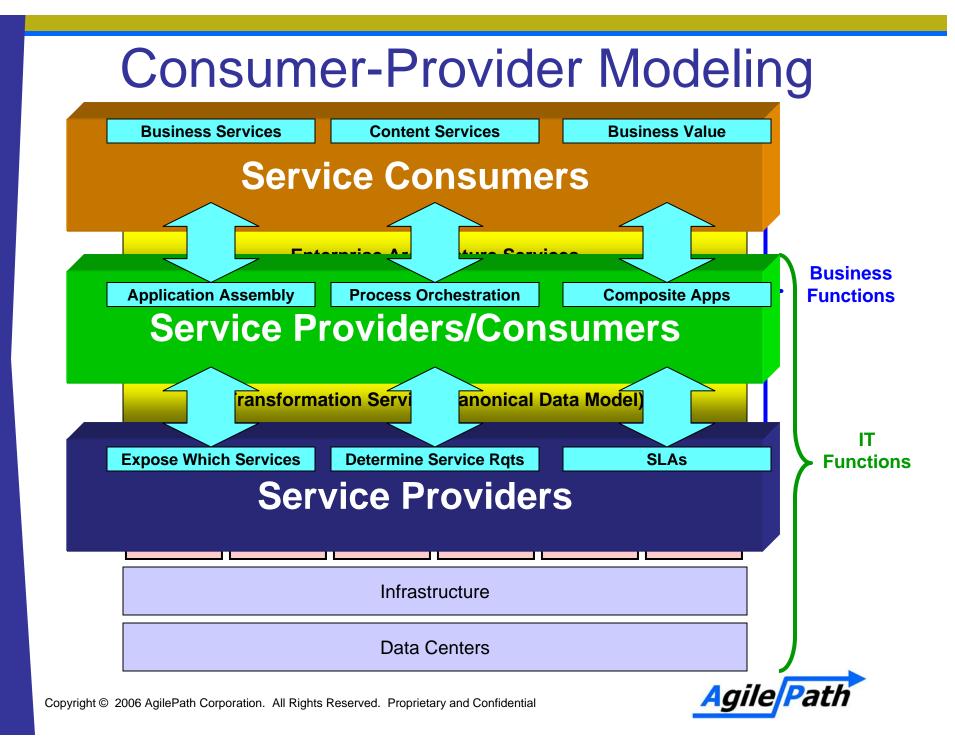
### Introducing New Roles: Consumer-Provider Models

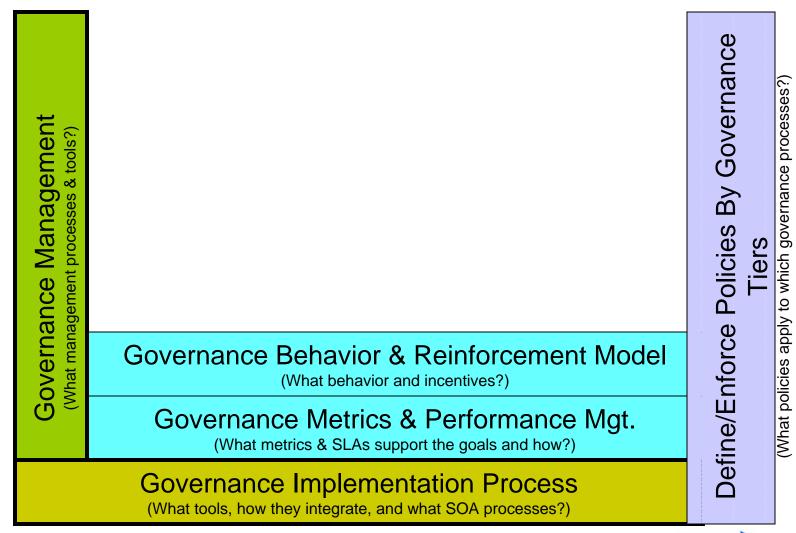
**Service Consumers** 

**Service Providers/Consumers** 

#### **Service Providers**





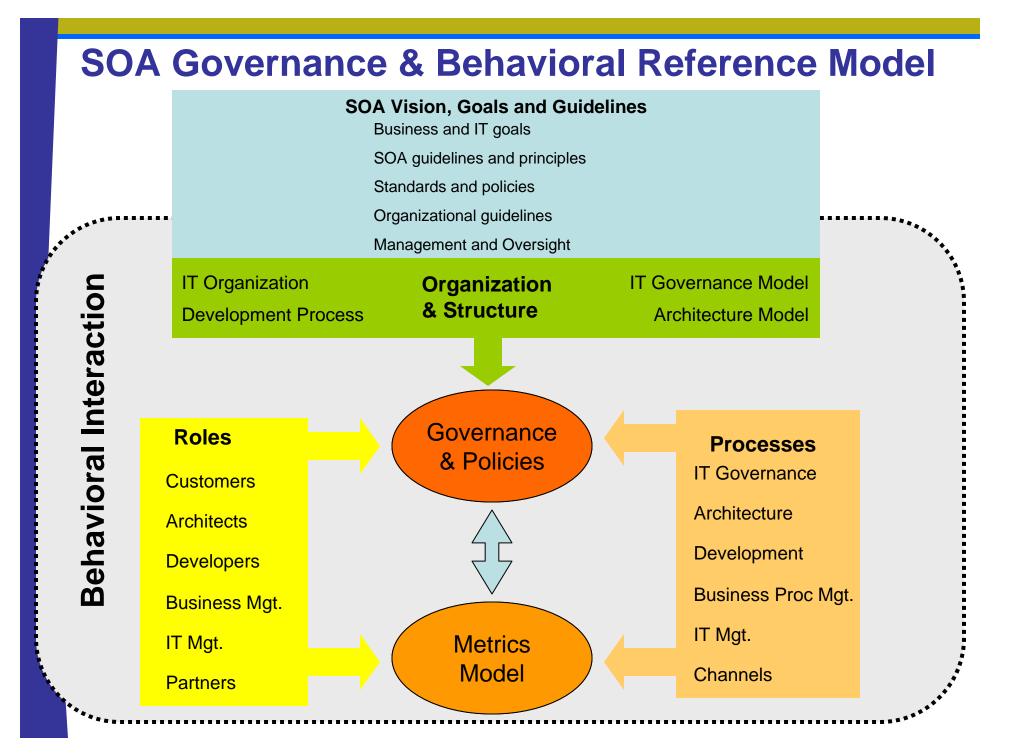




### SOA Is a Behavioral Challenge

- "Your current IT architecture is a behavioral artifact that resulted from patterns of organizational behavior over time, driven by corporate strategy and business goals."
- "The only way to achieve SOA is to address the organization, cultural and behavioral issues first, then architect toward your SOA goals."





#### **Behavior and Culture Domain Model**





### Governance Behavior and Reinforcement

- Define organizational incentives, rewards and penalties
- Define individual incentives, rewards and penalties
- Eliminate disincentives to participate
- Create new performance expectations
- Reinforce SOA governance through mantras, recognition, preferential funding

### Governance Implementation and Management

**Governance Management Model** 

**Governance Policy & Enforcement Model** 

Governance Implementation, Technology and Integration Model



Governance Management (What management processes & tools?)		Define/Enforce Policies By Governance Tiers
	Governance Implementation Process (What tools, how they integrate, and what SOA processes?)	De

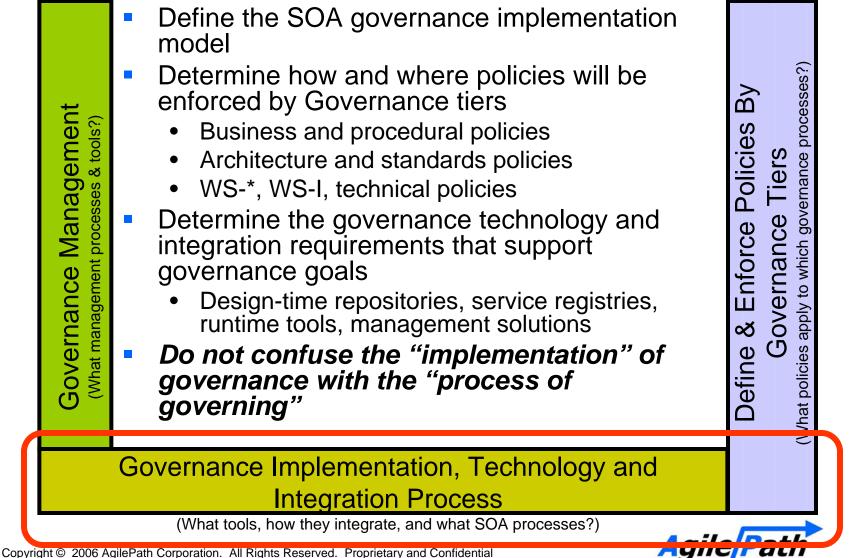


#### **Define & Enforce Policies By Tiers**

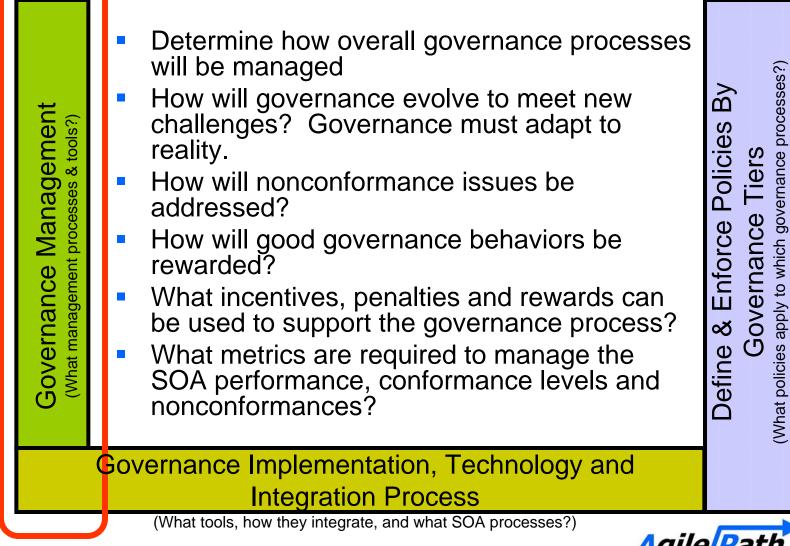
Define SOA policies at all SOA governance tiers Upper Tier Governance: Business, What policies apply to which governance processes?) architecture, high-level policies **Define & Enforce Policies By Governance Management** Middle-Tier Governance: Technical, & tools?) compliance Tiers Lower Tier Governance: Services design, WS-\* What management processes Client-Specific Tier: Architecture/organization-Governance specific, e.g. platform guidelines, architecture conformance Determine the policy enforcement model Where various policies will be enforced? How policies will be enforced By whom (team, process, organization) or what (policy enforcement points, e.g. ESBs, routers/switches, brokers/interceptors) **Governance Implementation Process** (What tools, how they integrate, and what SOA processes?)



### Implementation, Enforcement and Management Model

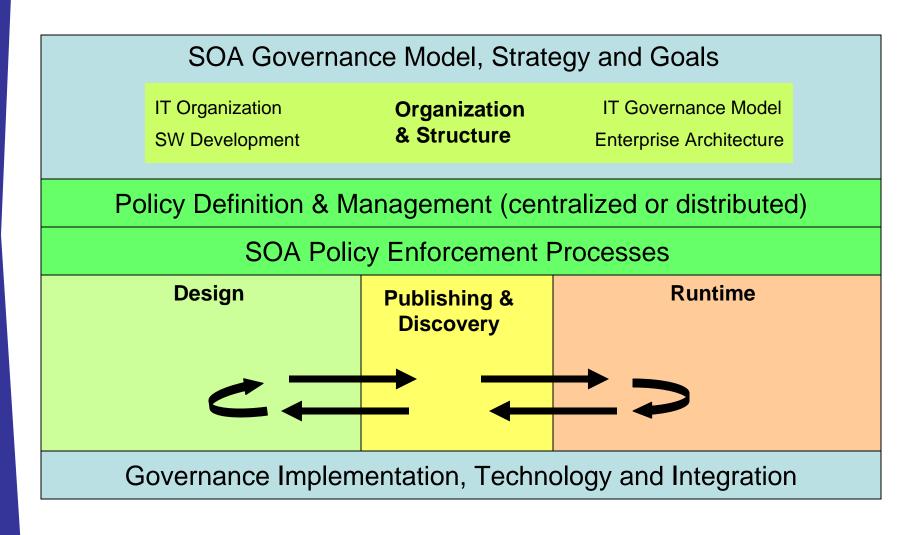


### Implementation, Enforcement and Management Model

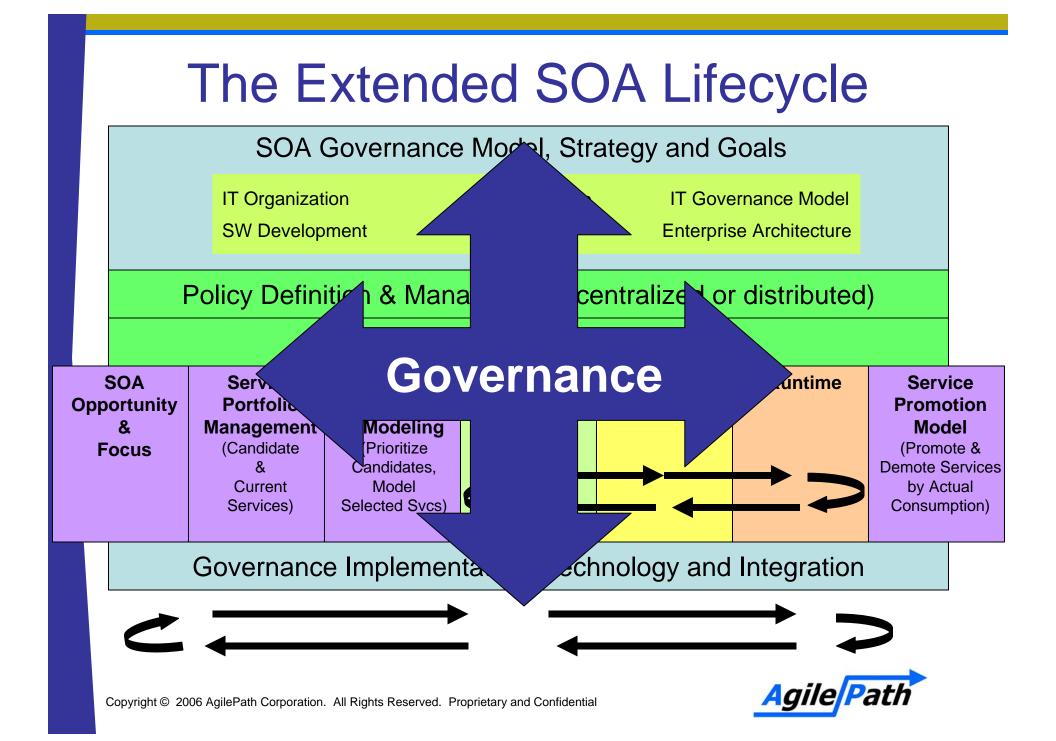




### **Closed Loop Governance Model**







### SOA Gaps & Challenges

- Business- or Mission-aligned SOA strategies
  - Use business and IT imperatives to align and focus SOA initiatives
- Services Portfolio Management & Promotion Model
  - ID the right services, prioritize them
  - Model the services for functionality, granularity, reusability, interoperability, et al
  - Build services using design-time governance
- Governance is way misunderstood
  - Governance = registry
  - Governance = tool
- Organization, Culture and Behavioral challenges are far more important in an SOA
- Establishing clear processes and roles around consumer/provider interactions and a Services Layer



Governance Management (What management processes & tools?)	SOA Governance Strategy and Goals (Govern What and Why?) SOA Policies (What policies to enforce?) SOA Governance Organization (Who Governs What?) Governance Roles and Interactions (Who Governs What How?) Governance Processes (Govern What How?) Governance Behavior & Reinforcement Model (What behavior and incentives?)	Policies By G Tiers	cies apply to which governance processes?)
	Governance Processes (Govern What How?) Governance Behavior & Reinforcement Model		apply to
	Governance Metrics & Performance Mgt. (What metrics & SLAs support the goals and how?)	Define/Enforce	(What policies
	Governance Implementation Process (What tools, how they integrate, and what SOA processes?)	Defi	



## AgilePath's SOA Bill of "Rights"<sup>TM</sup>

- Execute the <u>right</u> SOA Strategy
- Identify the <u>right</u> services
- Build services the <u>right</u> way
- Run them on the <u>right</u> platform/stack
- Govern your SOA the <u>right</u> way
- Build the <u>right</u> organizational, cultural and behavioral model
- Achieve the <u>right</u> SOA results



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# **Thank You!**

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