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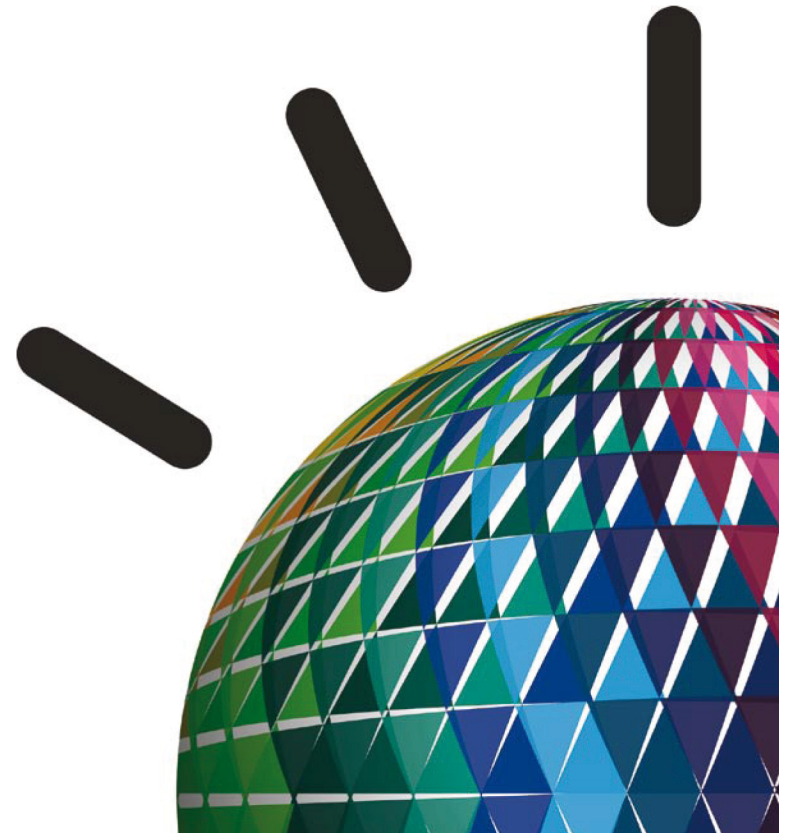
Pałac Odrowążów, Chlewiska

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SOA 100 Questions Asked and Answered

Kerrie Holley, IBM Fellow

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Agenda

- SOA Basics
 - What is the difference between a Web Service and an SOA Service? (#4)
- Business
 - Why should business stakeholders care about SOA? (#6)
 - What are the criteria for selecting a project for SOA adoption? (#10)
- Organization
 - What organization structure should be established for SOA? (#18)
 - How should organizations address funding for services? (#21)
 - How should organizations address prioritization for shared services? (#22)

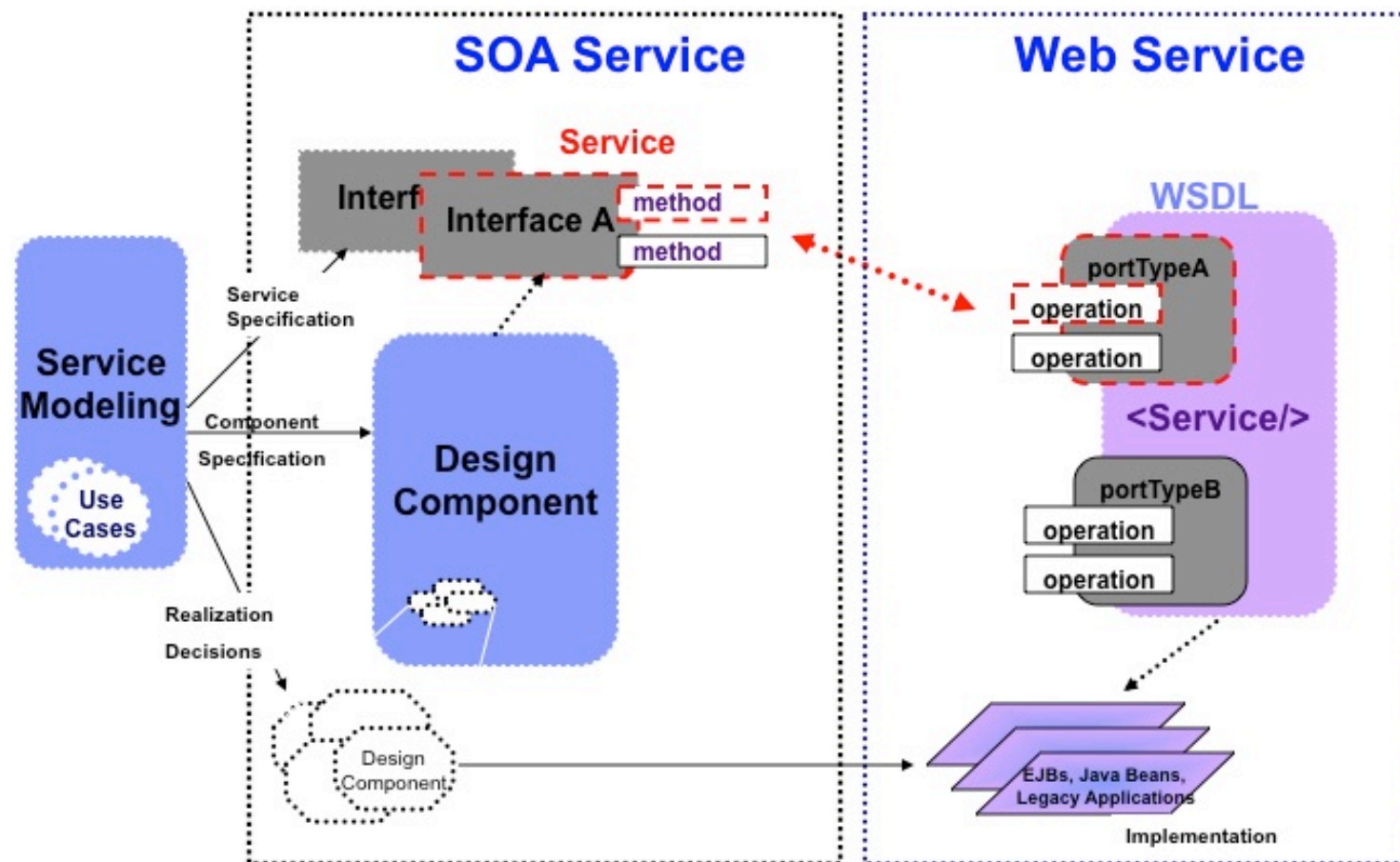
Agenda

- Governance
 - How does an organization get started with SOA governance? (#28)
 - Why do organizations need to focus on SOA governance when there is an effective Enterprise Architecture (EA) activity? (#33)
- Methods
 - What changes in system development result from SOA? (#39)
- Applications
 - How does SOA make applications or a portfolio of applications more flexible? (#55)

Agenda

- Architecture
 - How does architecture change as a result of SOA adoption? (#61)
 - How do interfaces and contracts differ? (#65)
- Infrastructure
 - What makes an Enterprise Service Bus different from Integration Technology? (#86)
- Future
 - What is the future trajectory of SOA? (#95)

What is the difference between a Web service and an SOA service



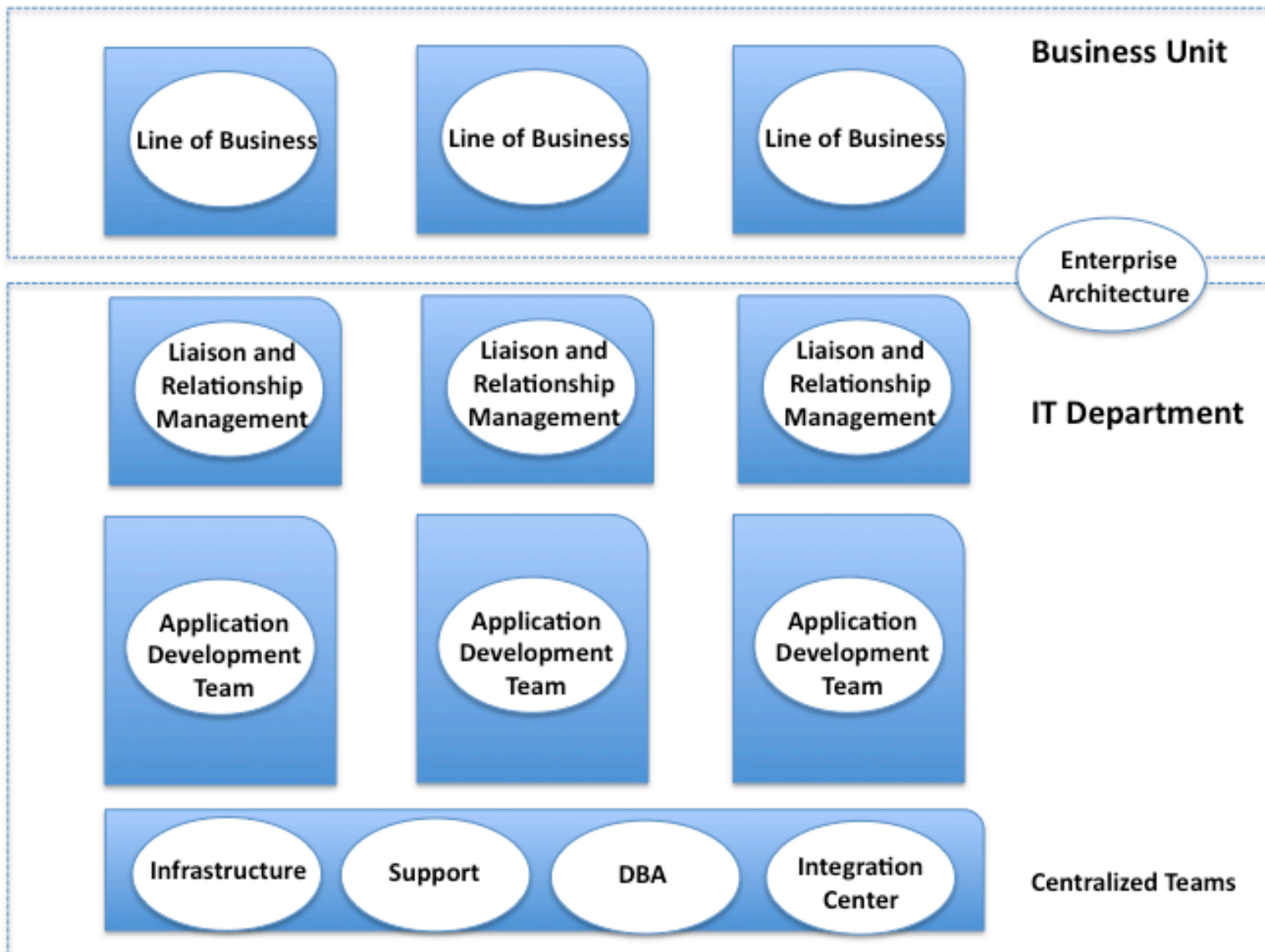
Why should business care about SOA? (#6)



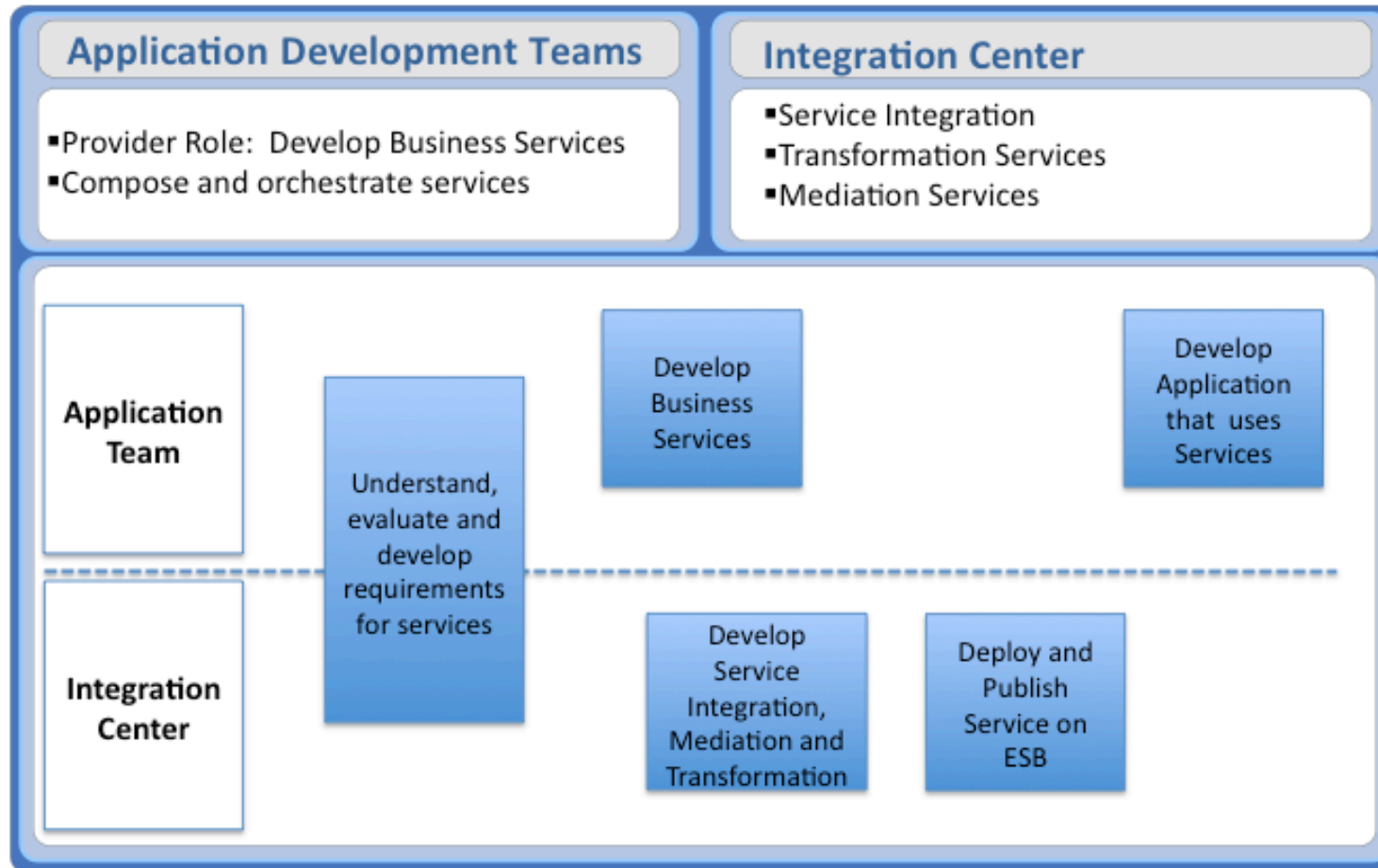
What are the criteria for selecting a project for SOA adoption? (#10)

Most Suitable for SOA	Suitability Characteristics	Unlikely SOA Case
	<i>Business Characteristics</i>	
High	Business process change rate	Low
High	Reuse of functionality	Low
Process oriented	Transactional model	System oriented
Horizontal	Organizational scope	Vertical
Distributed	Business objects	Centralized
Yes	Strategic asset	No
	<i>IT Characteristics</i>	
Dynamic	Run time dynamics	Static
High	Integration points	Low
High	External interface complexity	Low
Heterogeneous	Underlying technology	Homogeneous
Monolithic	Application architecture	Componentized
7 High	Maintenance Costs	Low

What organization structure should be established for SOA? (#18)



What organization structure should be established for SOA? (#18) - continued



How should organizations address funding for services? (#21)

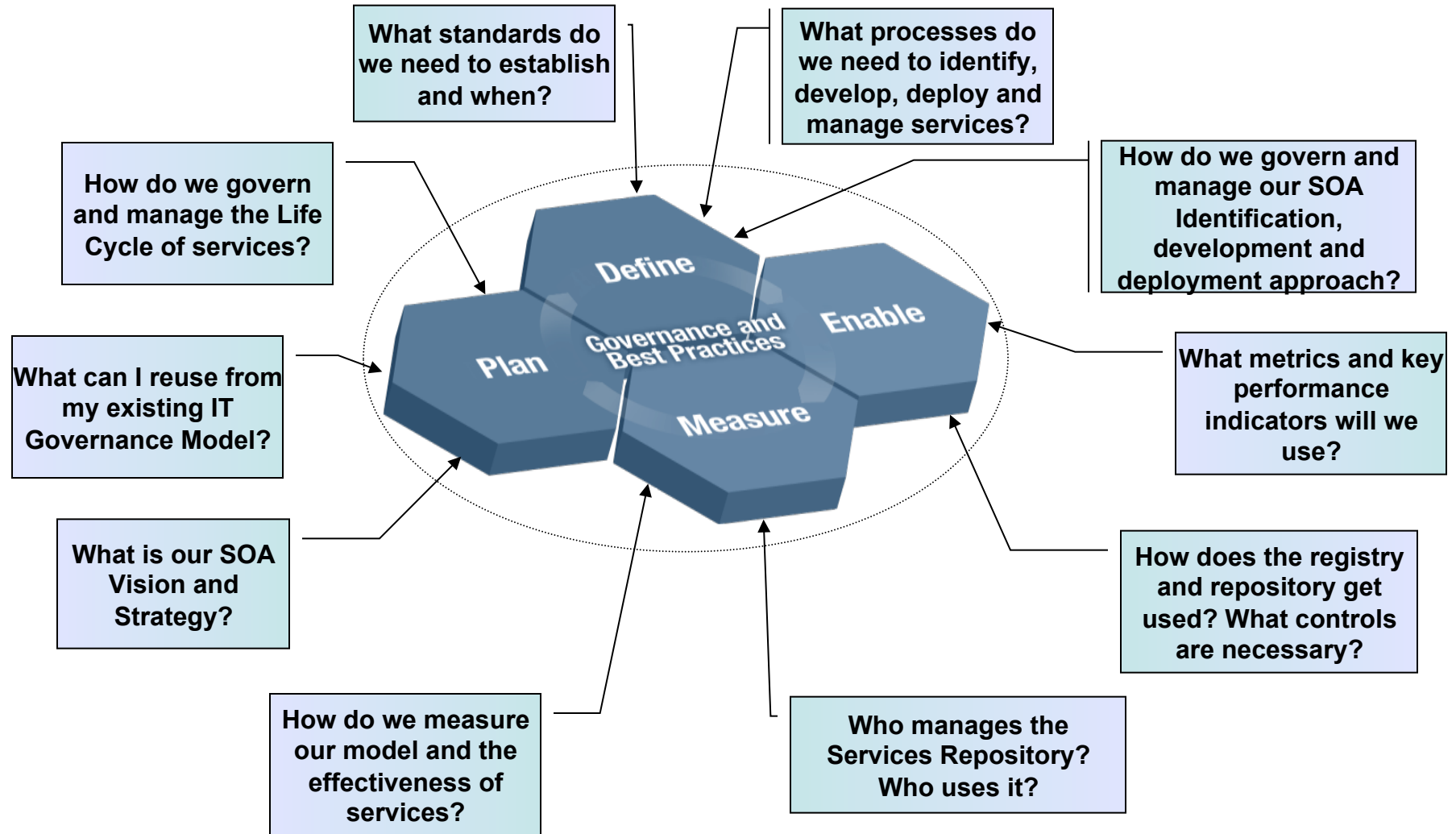
- Key Questions to address:
 - Who pays for new services?
 - Who pays for break fix?
 - Who pays for service maintenance?
 - Who pays for service enhancement?
 - Who pays for foundational aspects of hardware, software, tools and other foundational aspects necessary to deploy the service?
- Three options:
 - Obtain and use investment funds
 - Fund as part of a business justification
 - Launch a skunks work project where the cost is absorbed as part of under spent funds or heroic efforts. A skunk work project is where a small team launches a project primarily for the sake of innovation. Typically, it involves volunteerism and highly motivated team members who want to prove a concept for the benefit of the organization.

How should organizations address prioritization for shared services?

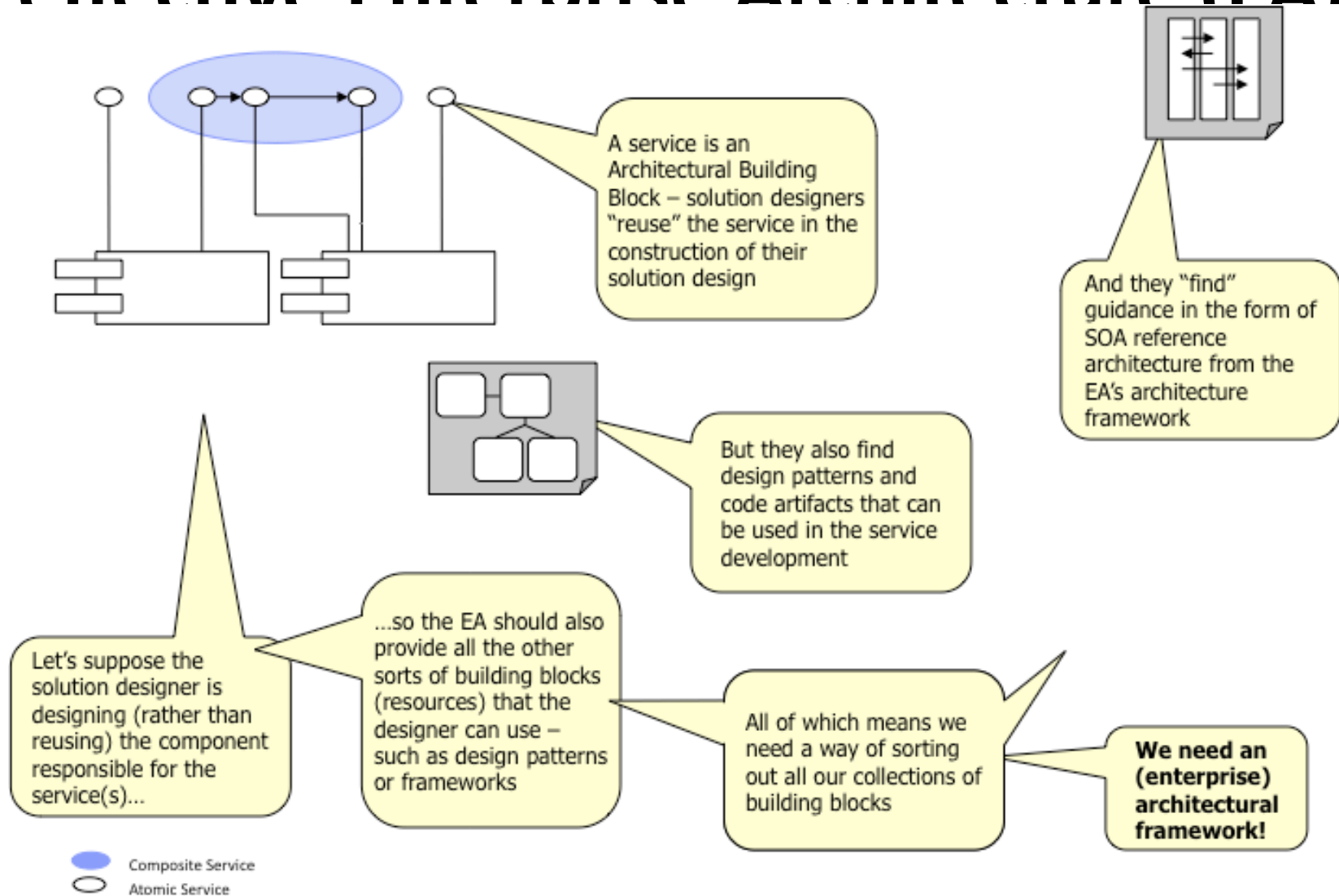
(#22)

- Key Questions to address:
 - How do we make sure that the provider has sufficient capacity in terms of subject matter expertise to implement changes?
 - How do we align priorities across multiple lines of business when one line of business depends on the service of another?
 - How do we make lines of business accountable to maintain priorities/interlocks?
 - Will it take longer to develop shared services?
 - How do we prioritize enhancements?
 - Can the provider accommodate the business request and needs based on my line- of- business schedule and budget?
 - Will a request be compromised because the provider has multiple interests and consumers to satisfy?
 - Is the ability to deliver faster and on time lost or impacted due to accommodating conflicting requirements, coordination challenges, or challenges in accommodating different quality of service (QoS) requirements, or because of dependency on an organization outside of the vertical?

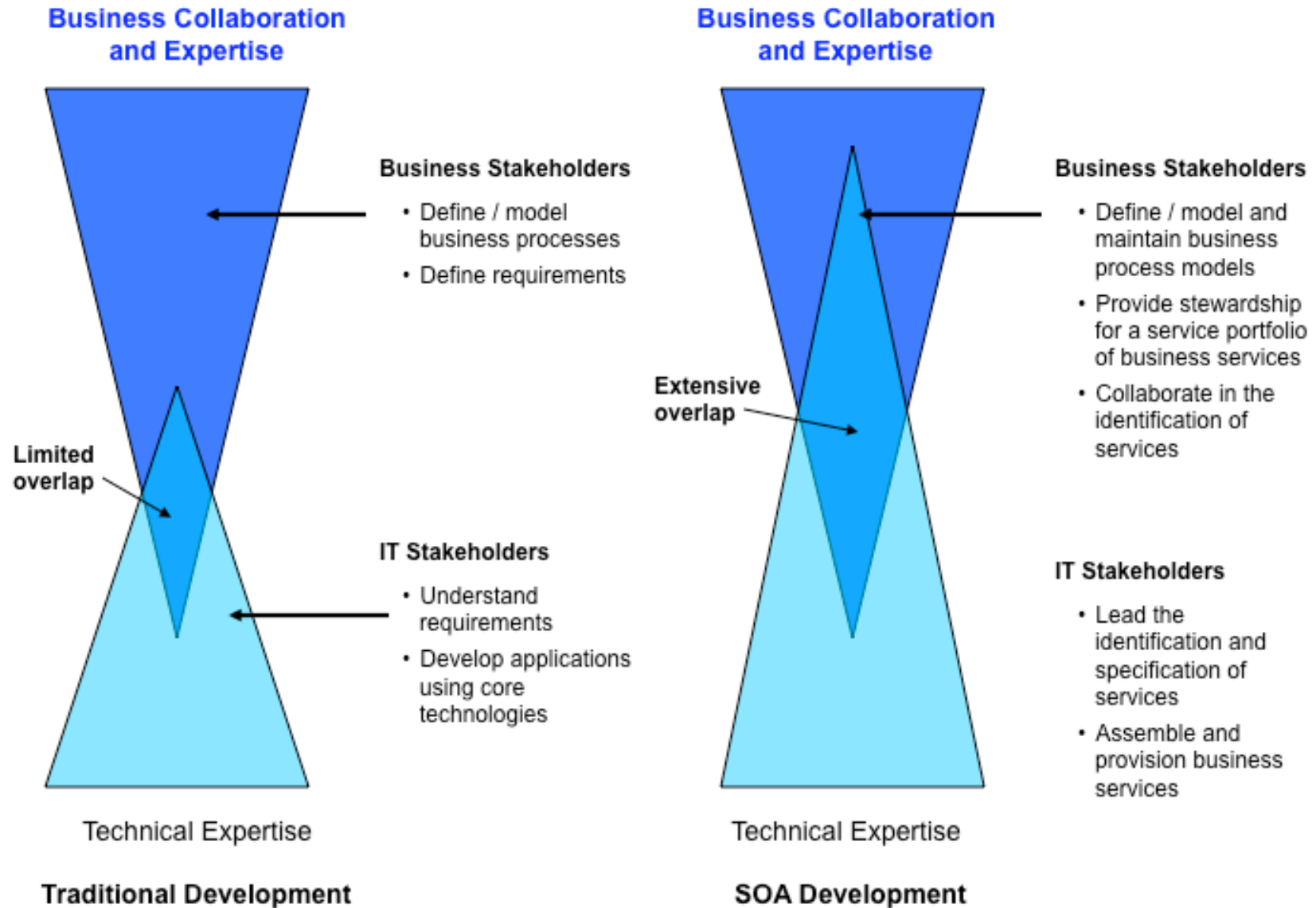
How does an organization get started with SOA governance? (#28)



Why do organizations need to focus on SOA governance when there is an effective Enterprise Architecture (EA)

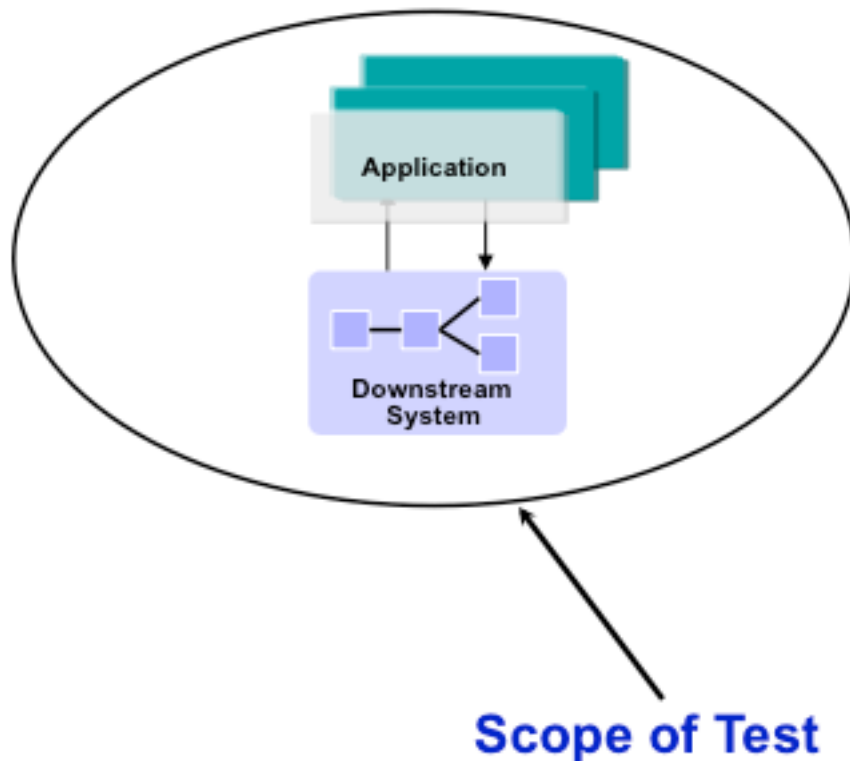


What changes in system development result from SOA? (#39)

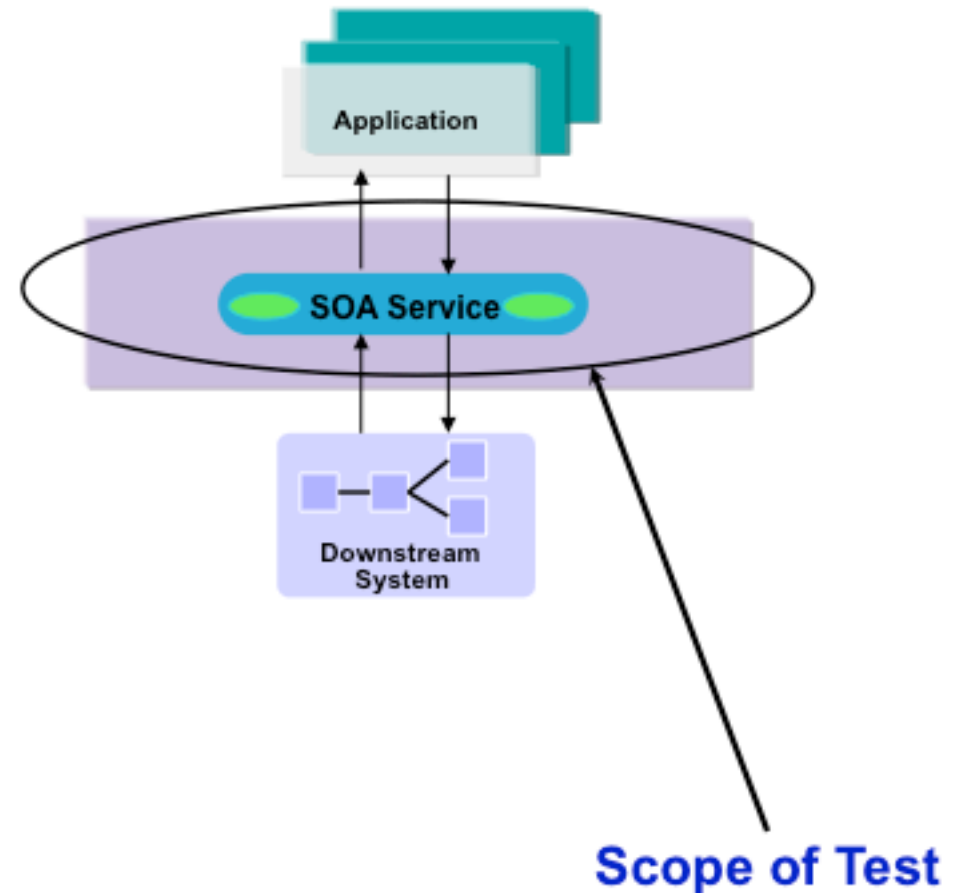


What changes in system development result from SOA? (#39) - continued

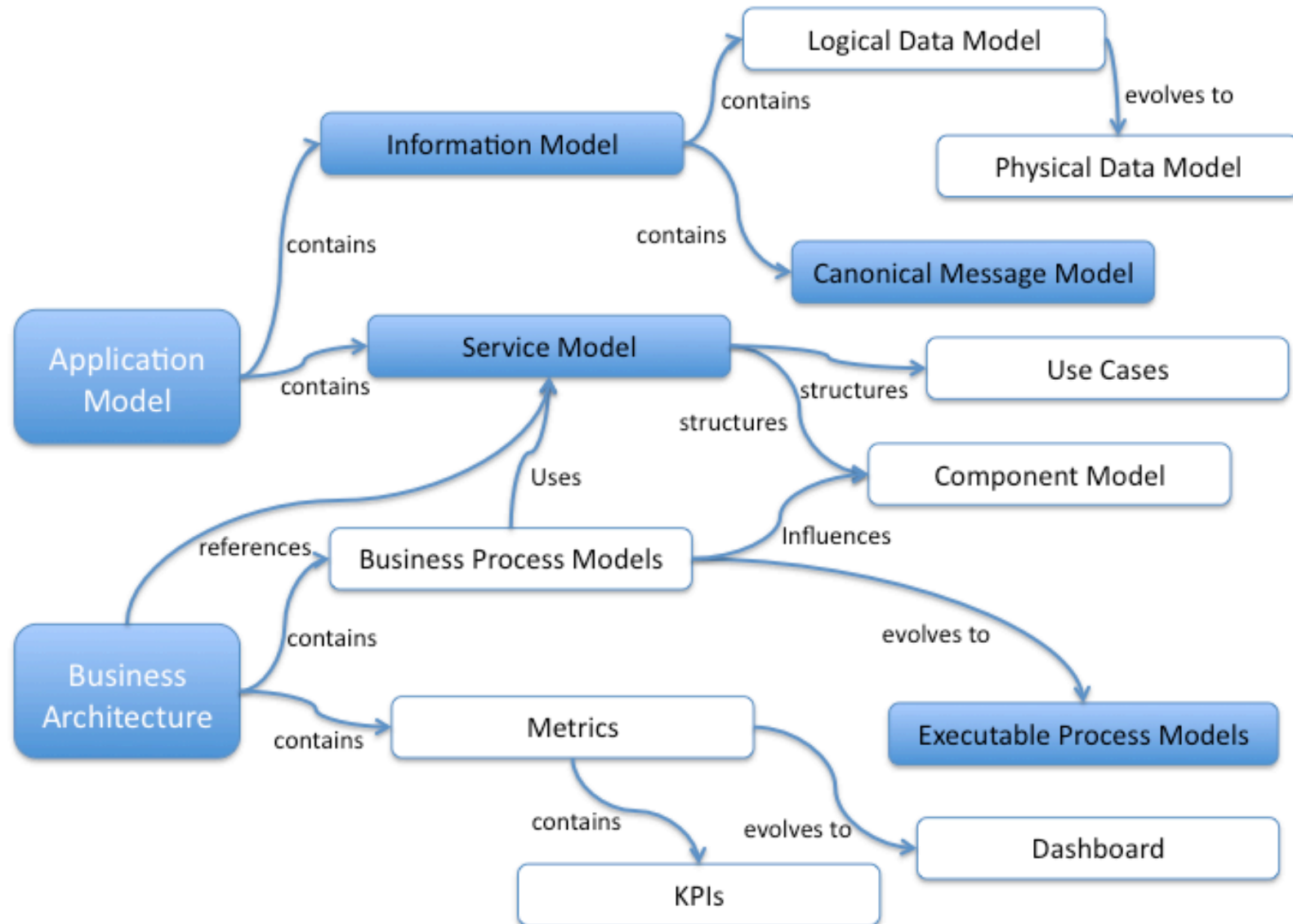
Before SOA



After SOA

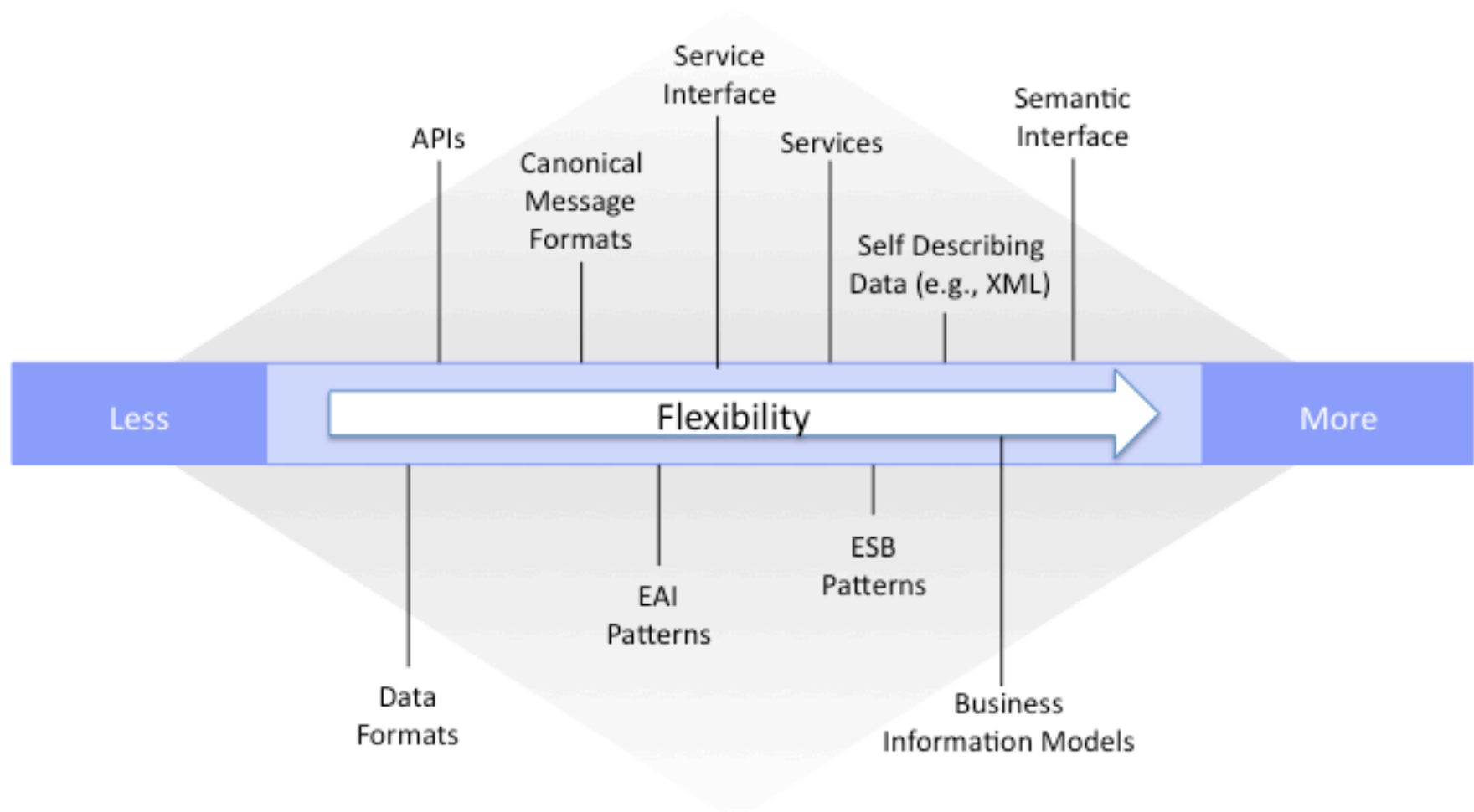


What changes in system development result from SOA? (#39) - continued

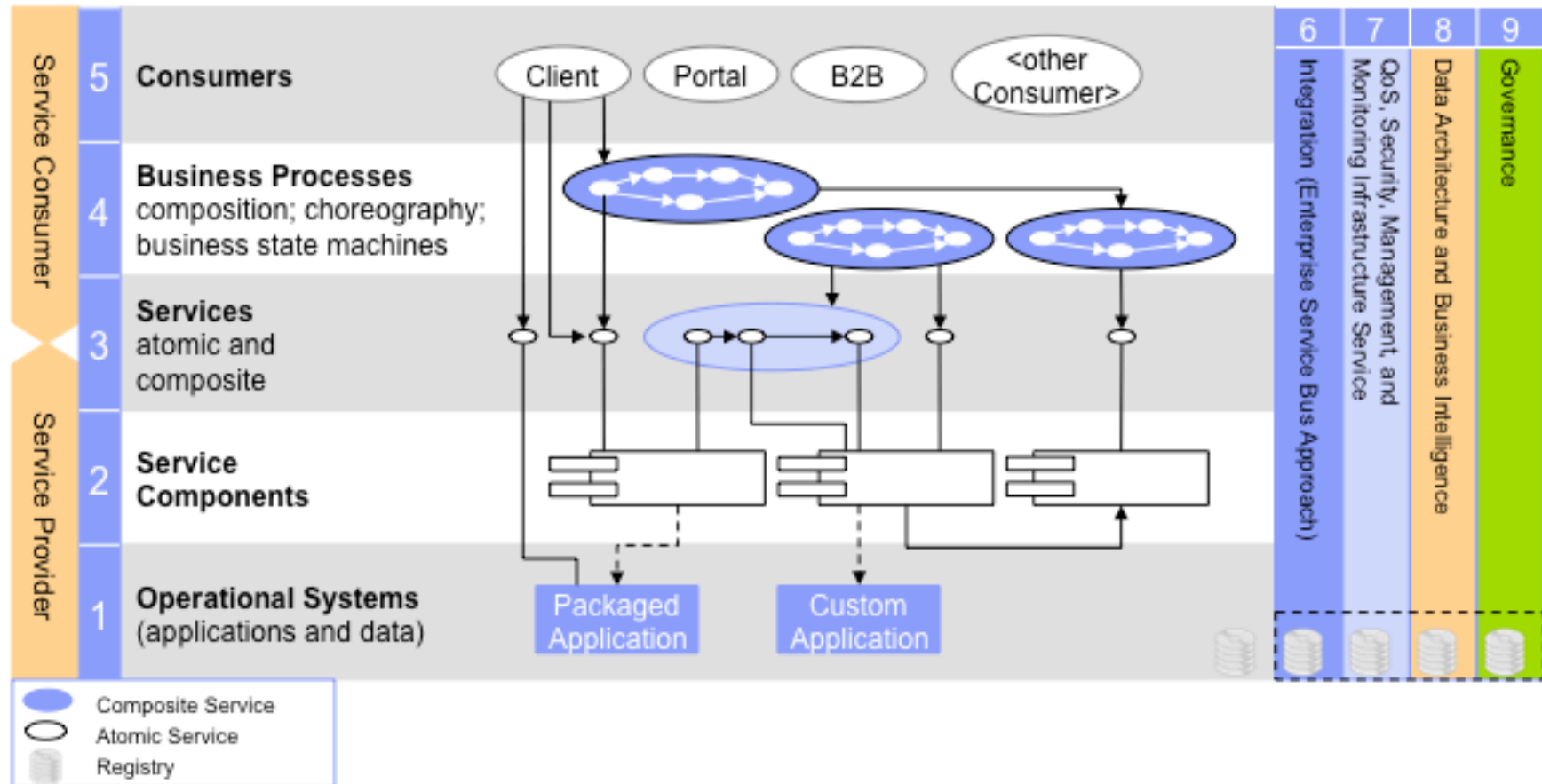


How does SOA make applications or a portfolio of applications more flexible?

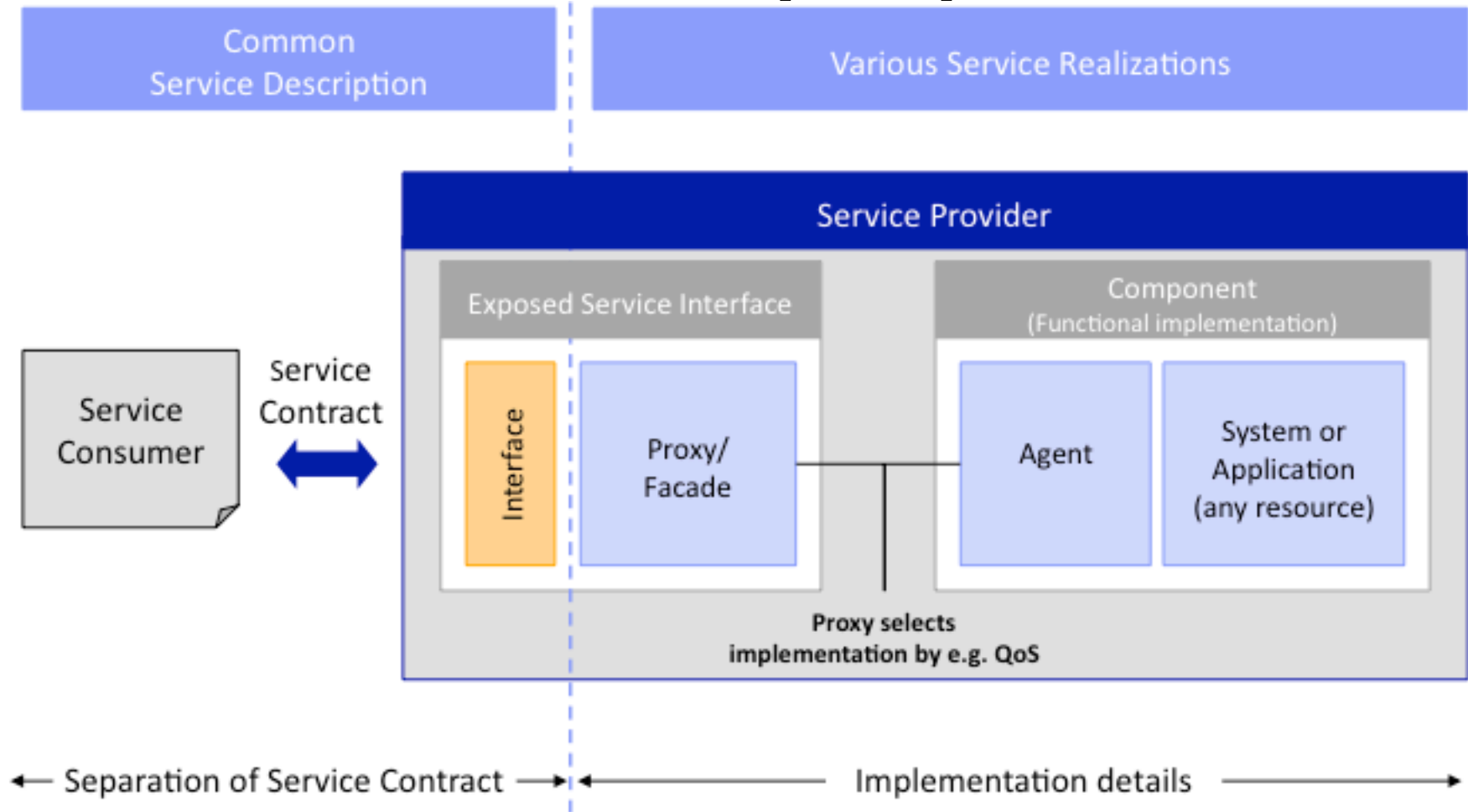
(#55)



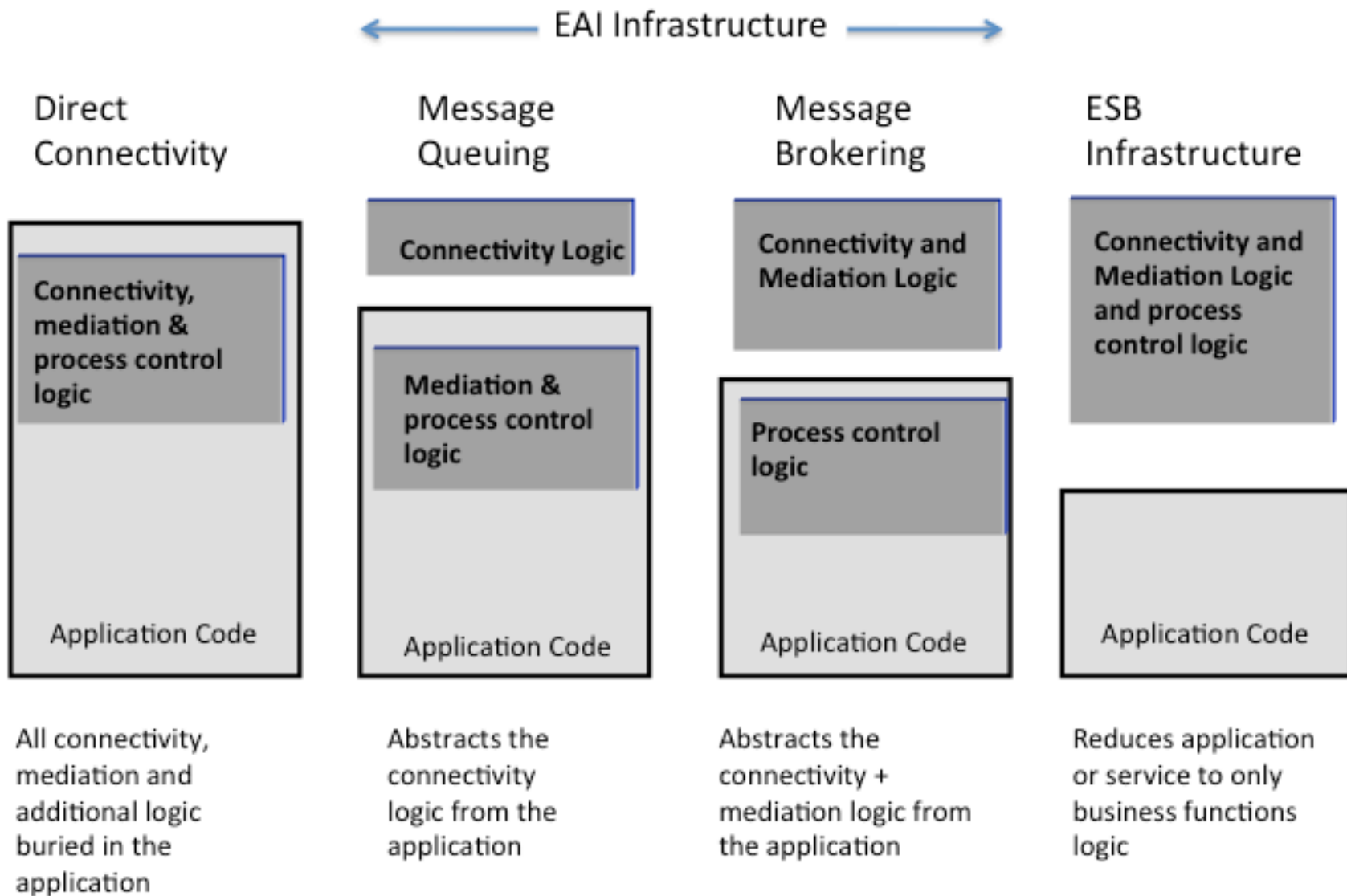
How does architecture change as a result of SOA adoption? (#61)



How do interfaces and contracts differ? (#65)



What makes an Enterprise Service Bus different from Integration



What is the future trajectory of SOA? (#95)

							
	Silo	Integrated	Componentized	Services	Composite Services	Virtualized Services	Dynamically Re-Configurable Services
Business	Function Oriented	Function Oriented	Function Oriented	Service Oriented	Service Oriented	Service Oriented	Service Oriented
Organization	Ad hoc IT Governance	Ad hoc IT Governance	Ad hoc IT Governance	Emerging SOA Governance	SOA and IT Governance Alignment	SOA and IT Governance Alignment	SOA and IT Governance Alignment
Methods	Structured Analysis & Design	Object Oriented Modeling	Component Based Development	Service Oriented Modeling	Service Oriented Modeling	Service Oriented Modeling	Grammar Oriented Modeling
Applications	Modules	Objects	Components	Services	Process Integration via Services	Process Integration via Services	Dynamic Application Assembly
Architecture	Monolithic Architecture	Layered Architecture	Component Architecture	Emerging SOA	SOA	Grid Enabled SOA	Dynamically Re-Configurable Architecture
Information	Application Specific	Subject Areas	Canonical Models	Canonical Models	Enterprise Business Data Dictionary	Semantic Data Vocabularies	Semantic Data Vocabularies
Infrastructure	Platform Specific	Platform Specific	Platform Specific	Platform Specific	Platform Specific	Platform Neutral	Dynamic Sense & Respond
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7

Please read:



Questions?



Lorem Ipsum



Questions? :

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