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Application Integration & Emerging Technologies

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Why Talk About SOA?

■ Software Architects Want Its Promise

- Modularity
- Distributed deployment
- Incremental engineering
- Improved application integration
- Some reuse

■ Business Wants Its Promise

- More agile and responsive IT
- Lower cost and time to delivery of applications
- Lesser lock-in into old technologies and applications
- Web services business model

□ It's Inevitable

- All development tools . . .
- All middleware . . .
- All current packaged applications . . .
- Most partners, suppliers . . .

. . . Use, support or demand SOA

■ Danger

- Performance and security failures
- Out of control compositions
- Management nightmare
- High costs

■ No Definition?

- Web services
- Distributed computing
- CORBA 2005
- Software services for sale
- Each vendor has own view

■ No Best Practices?

- "Low hanging fruit" tools
- Unfinished standards
- Unclear technology requirements
- Lack of skills
- Confusing vendor offerings

Stages of SOA Adoption

	Introduction	Spreading	Exploitation	Plateau
Business Goals	<i>Address Specific Pain</i> <i>(e.g., Customer Portal)</i>	<i>Process Integration</i> <i>(e.g., B2B)</i>	<i>Process Flexibility</i> <i>(e.g., Time to Market)</i>	<i>Continuous Adaptation & Evolution</i>
IT Goals	<i>Proof of Concept</i>	<i>Establish Technology Platform</i>	<i>Leverage Services Reuse</i>	<i>Scale Up</i>
Scope	<i>Single Application</i>	<i>Multiple Applications (Single BU)</i>	<i>Multiple Applications (Cross BUs)</i>	<i>Virtual Enterprise</i>
# of Published Services	<25	<100	<500	>500
# of Service Consumers	<5	<25	<75	>75
Total Service Calls/Day	<10,000	<100,000	<1,000,000	>1,000,000
# of Service Developers	<10	<20	<100	>100

← Experimental ↔ Mainstream ↔ Leading-Edge →

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Strategy for SOA Success: Understanding Your Assets

Services

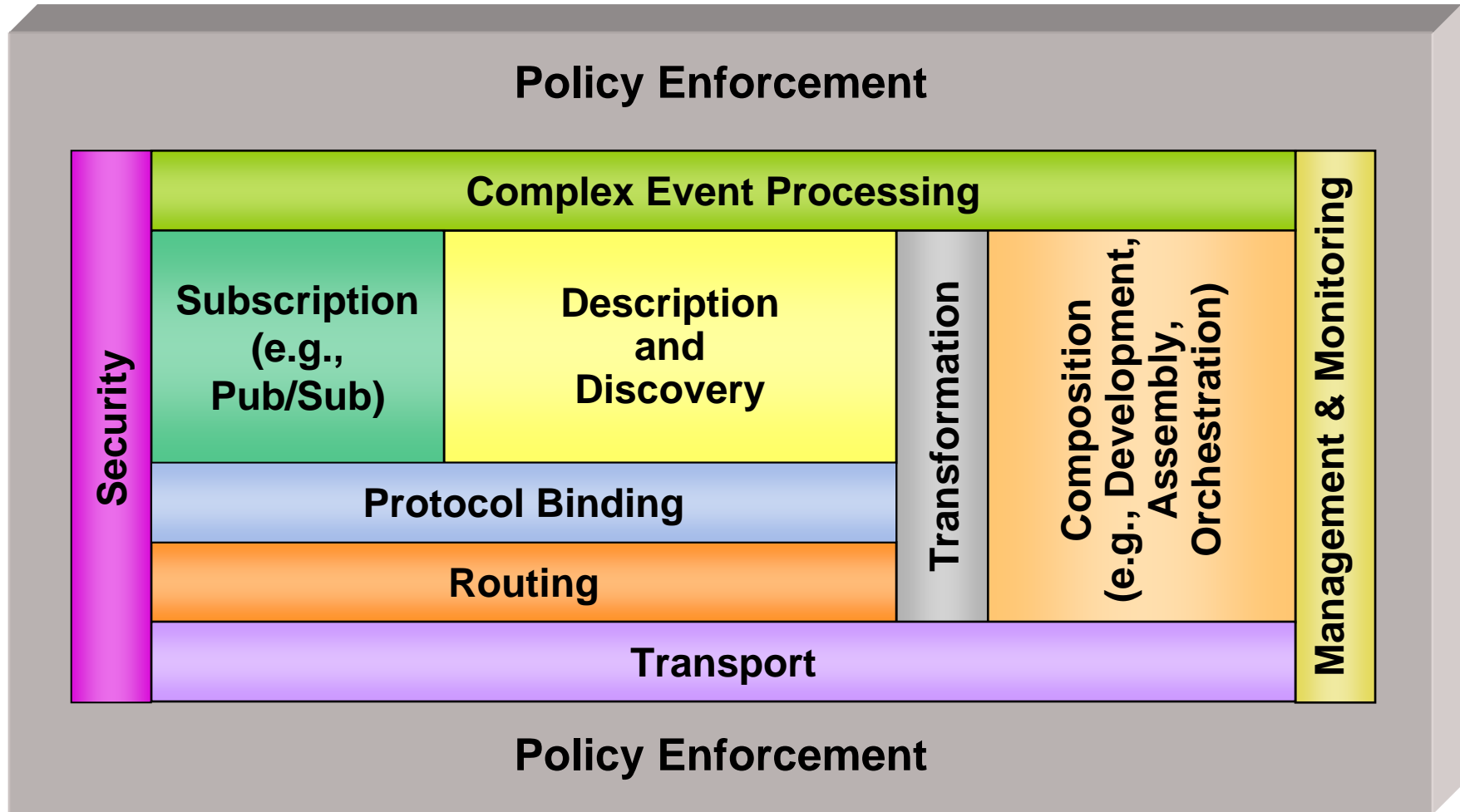
Processes

Policies

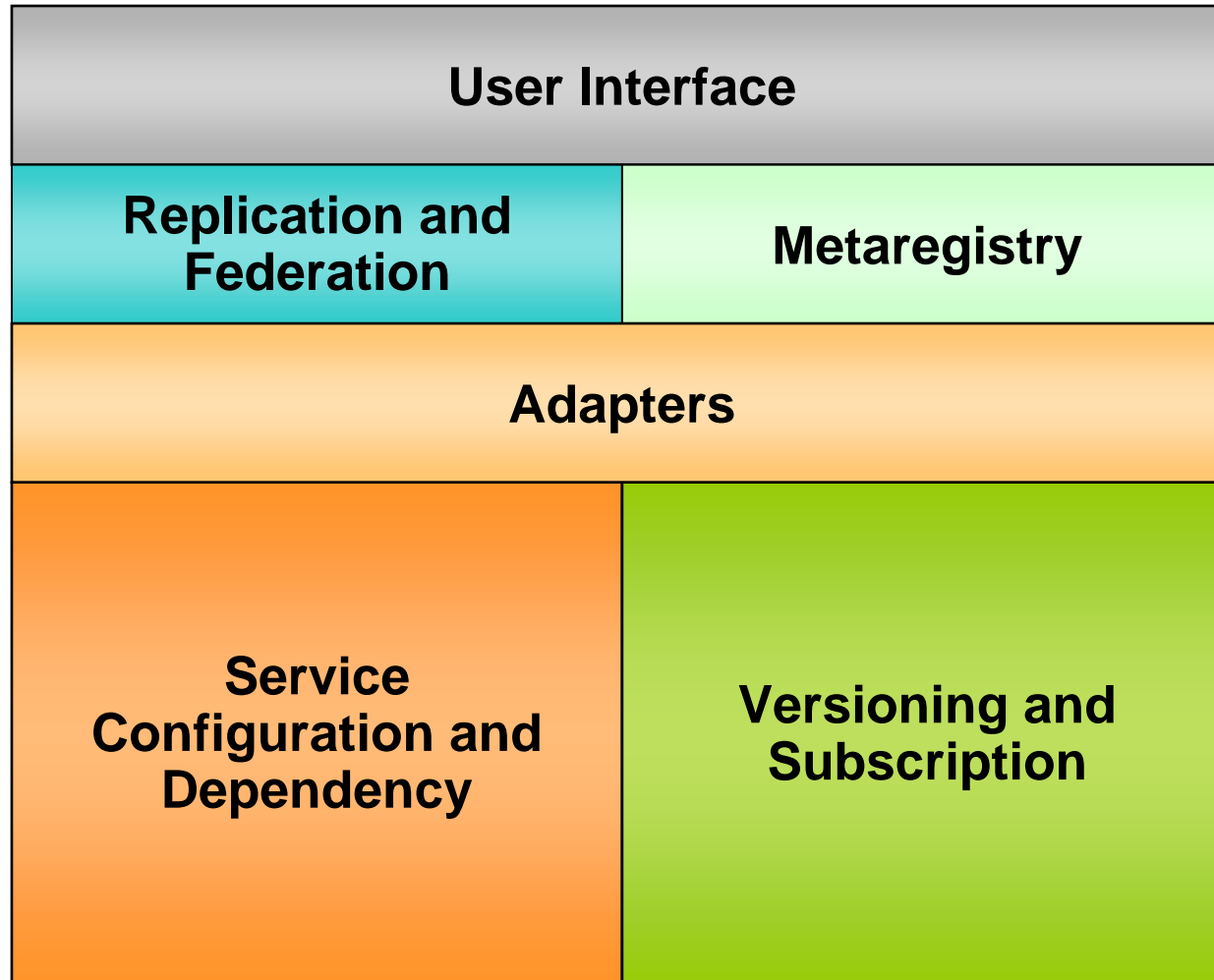
Transformation



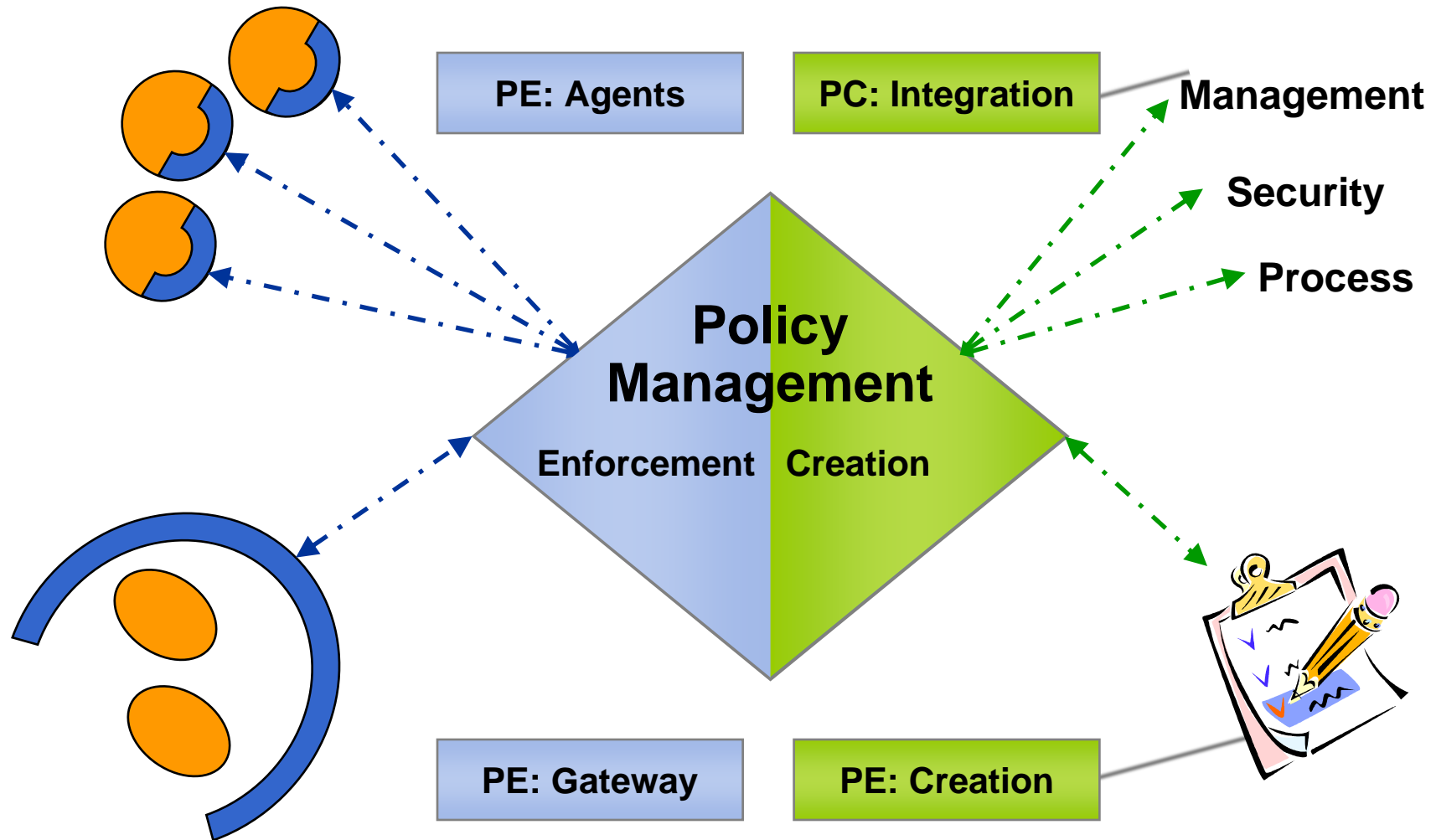
Well Planned SOA Infrastructures Enable SOA Governance



Service Registry: More Than UDDI



Policies Are Assets That Need To Be Managed



Recommendations

- ✓ Understand the benefits and the limitations of SOA.
- ✓ Understand the difference between one-project objectives and all-enterprise objectives.
- ✓ Prepare to depend on multiple technologies amounting to your platform for SOA.
- ✓ Invest in comprehensive, searchable metadata repository.
- ✓ Invest in multiprotocol integration infrastructure, such as an enterprise service bus.