



Quality Engineered Software and
Testing Conference

LEARN - ASSESS - APPLY - CONNECT

April 28 - May 2, 2008

John Michelsen


ITKO, Inc.

***BUILDING A CENTER
OF EXCELLENCE FOR
SOA LIFECYCLE
QUALITY***


THURSDAY — 10:15 – 11:15

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Continuously Aware: Evolving the Business & Tech-Savvy QA Organization



John Michelsen
Founder, Chief Architect
iTKO, Inc.
May 1st, 2008



iTKO LISA™

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iTKO: Who We Are



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Technology Partners



Delivery Partners




Awards



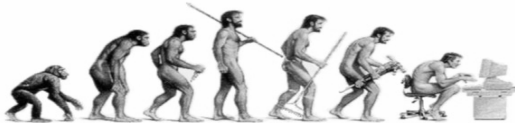
Everyone should own quality™.

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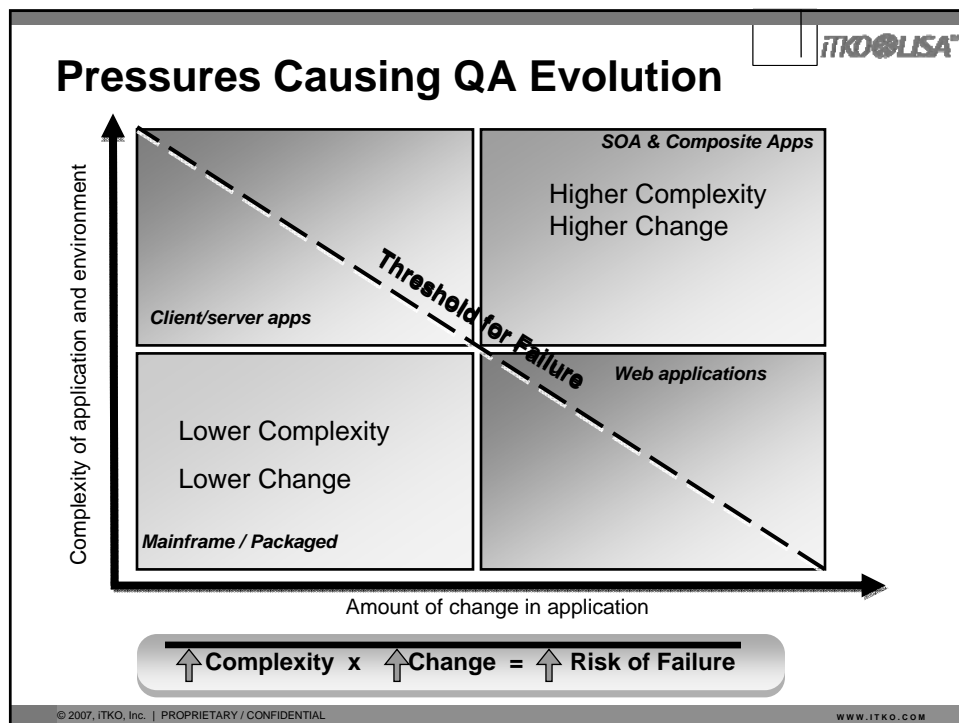


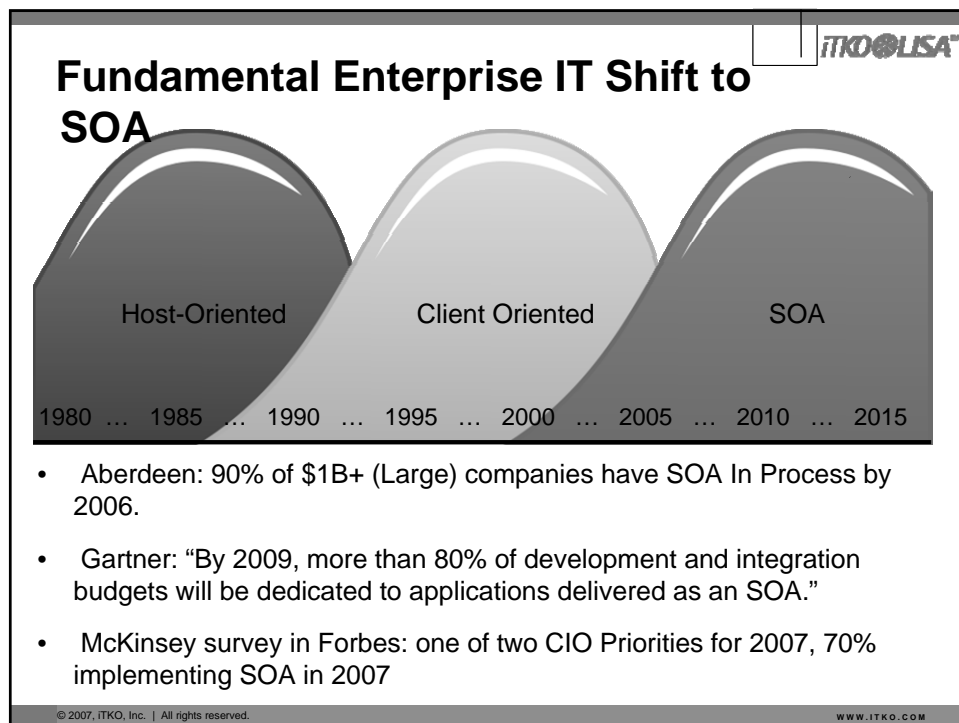
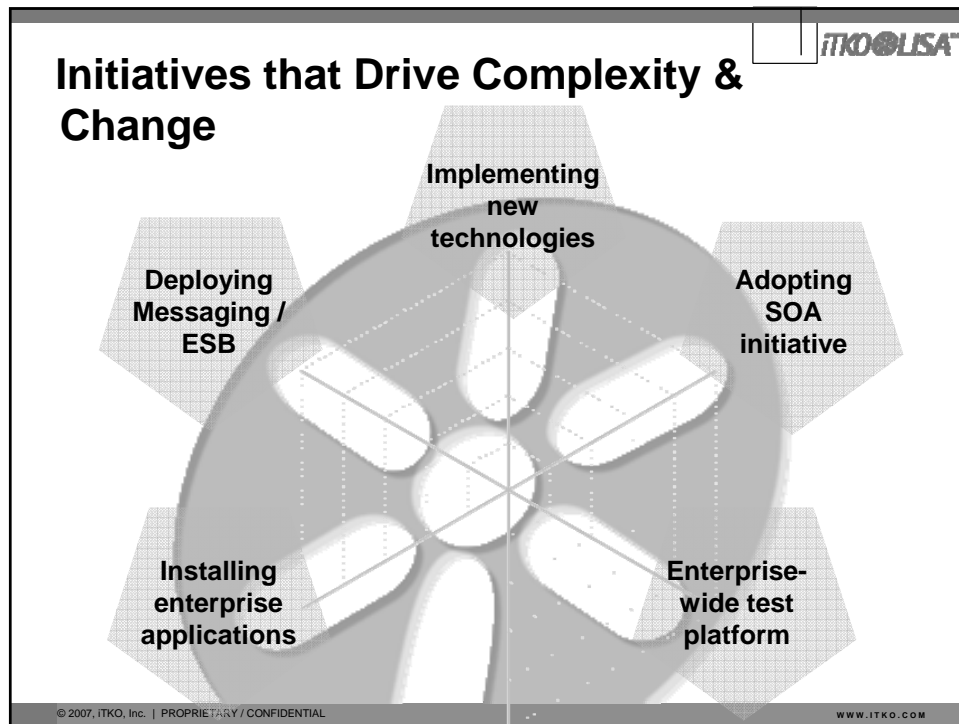
Strategy for Testing is Evolving

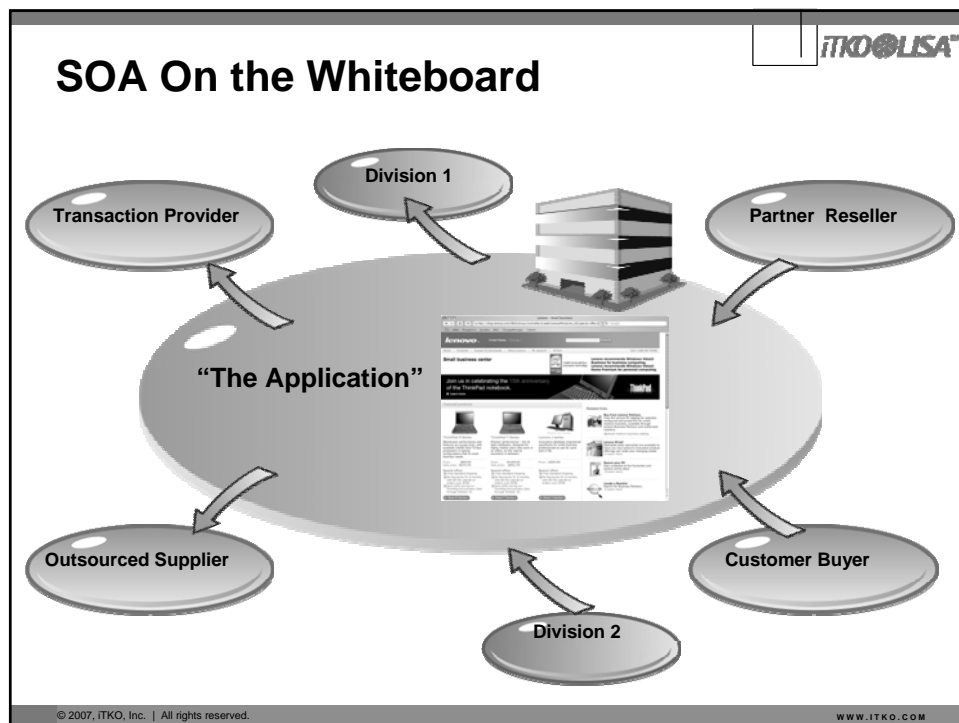
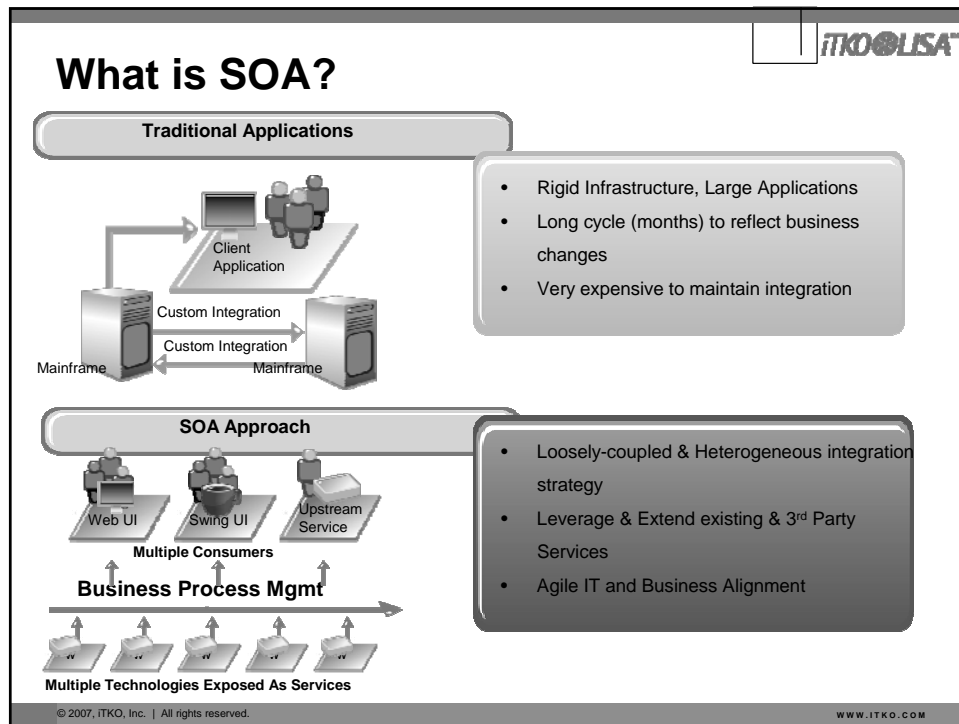
- Application Complexity and Variability are Increasing
- Today/Tomorrows Applications are Services-Based (aka SOA, Composite Applications, ESB Integrated, and/or Loosely Coupled)
- It's a good thing but it is causing additional downtime & performance issues
- Test/Validation driving into the Governance Realm
- Test Strategy moving forward must address the 3 critical objectives of Complete, Collaborative, and Continuous
- Virtualization can be applied to bring teams into parallel cycles

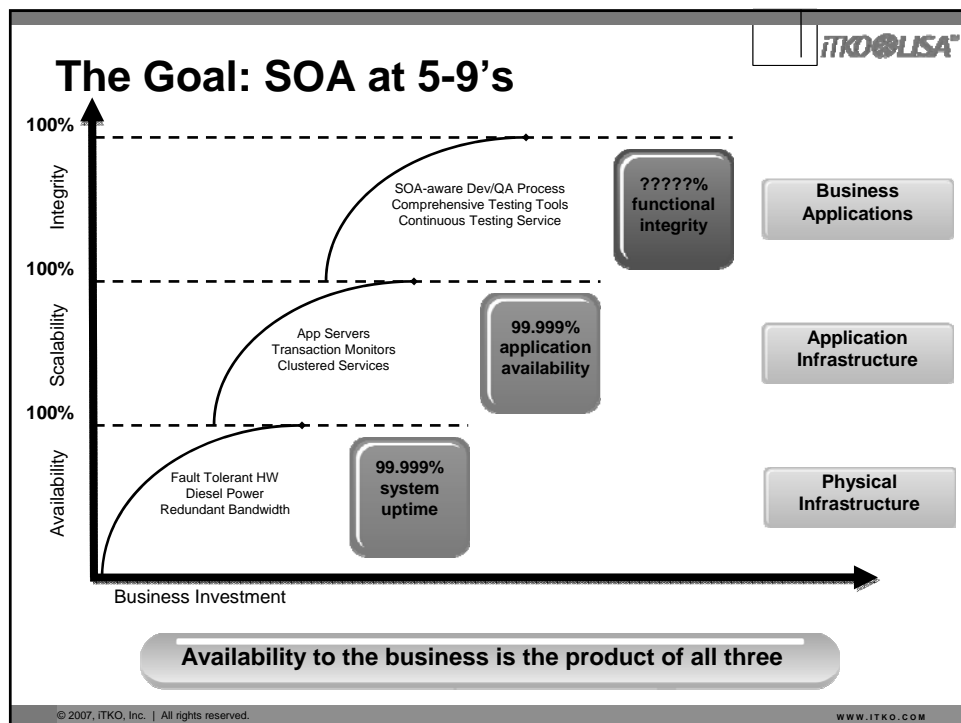
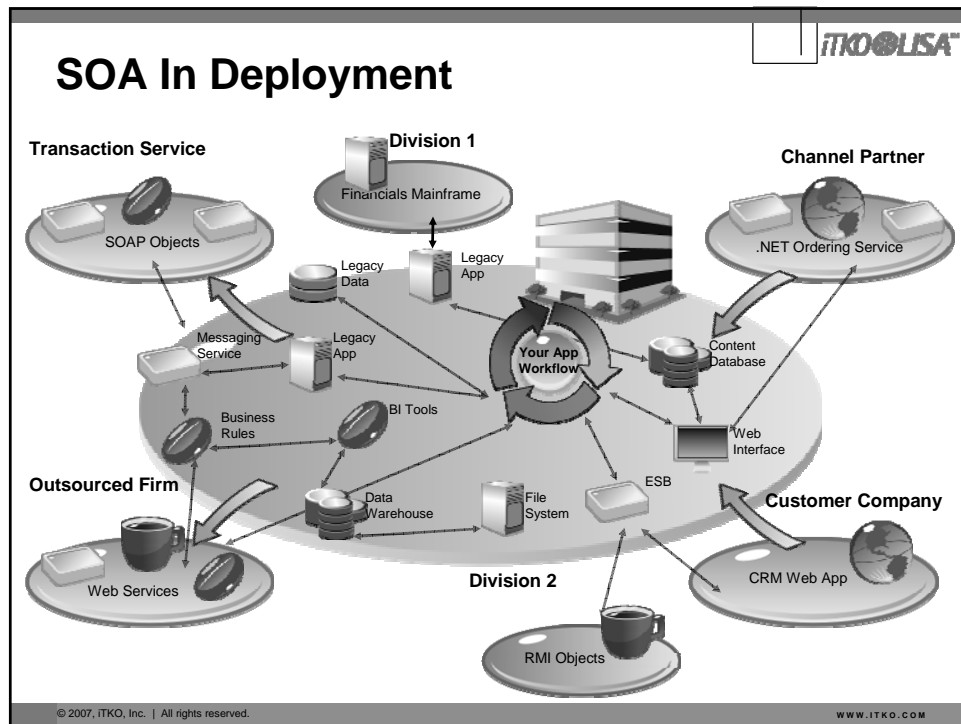


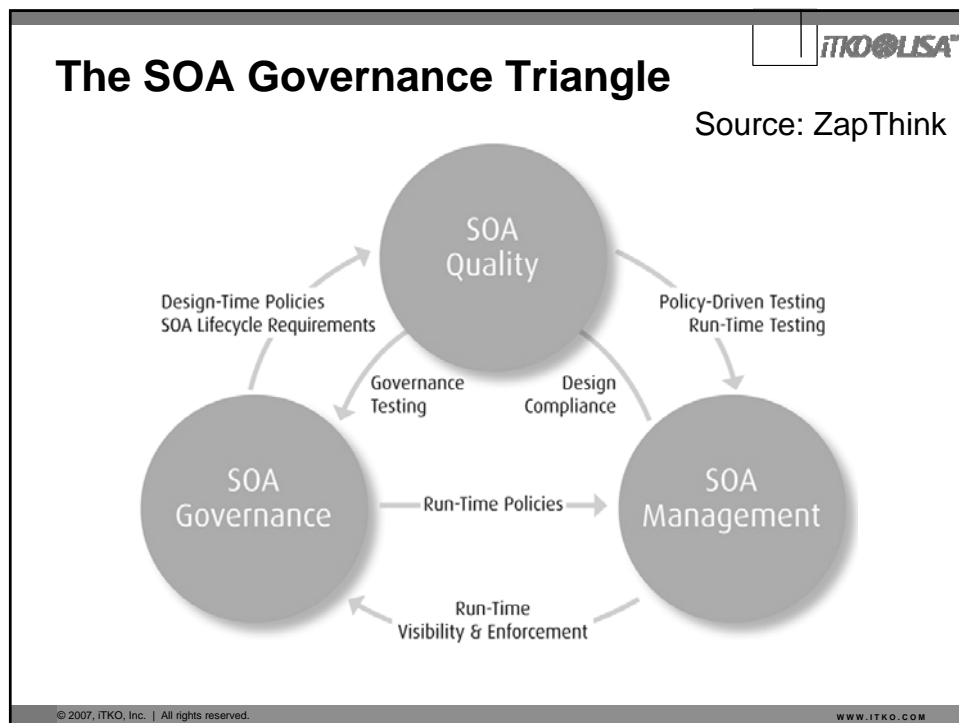
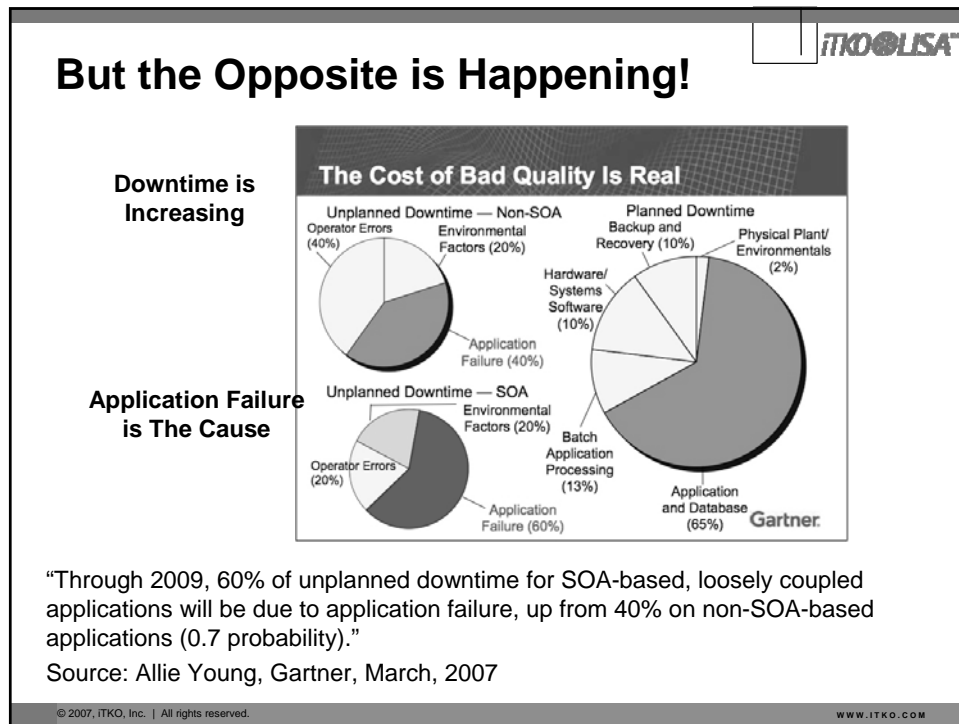
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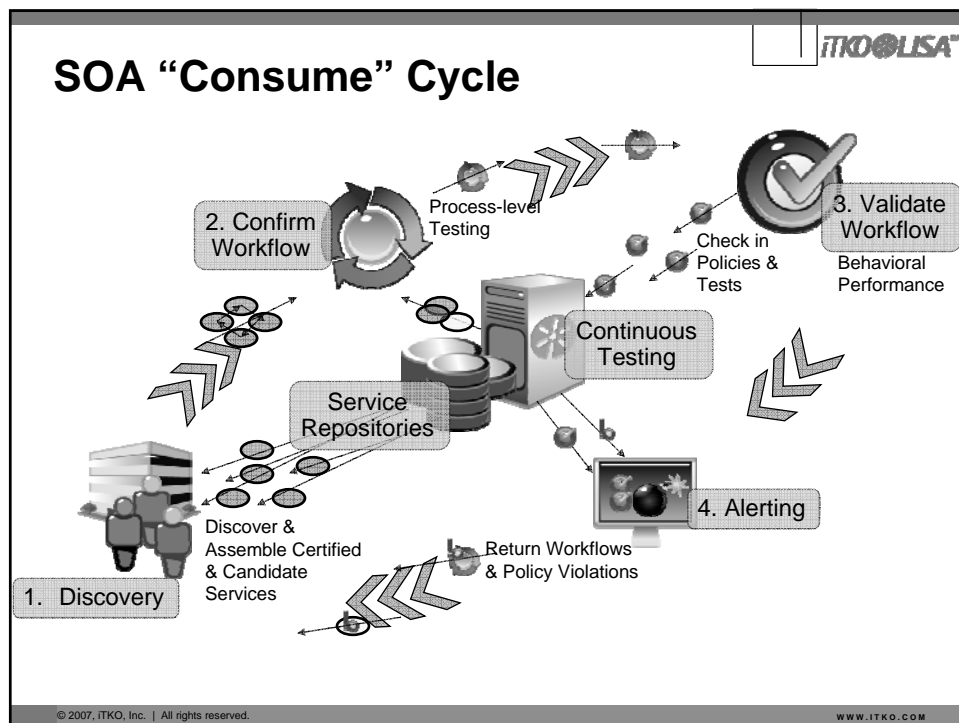
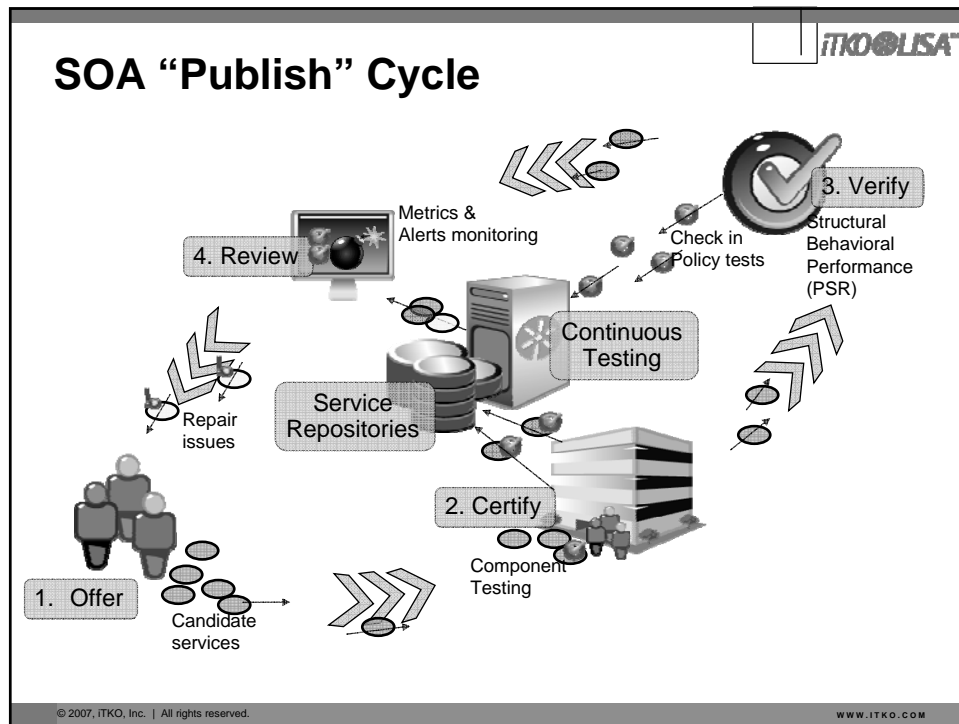


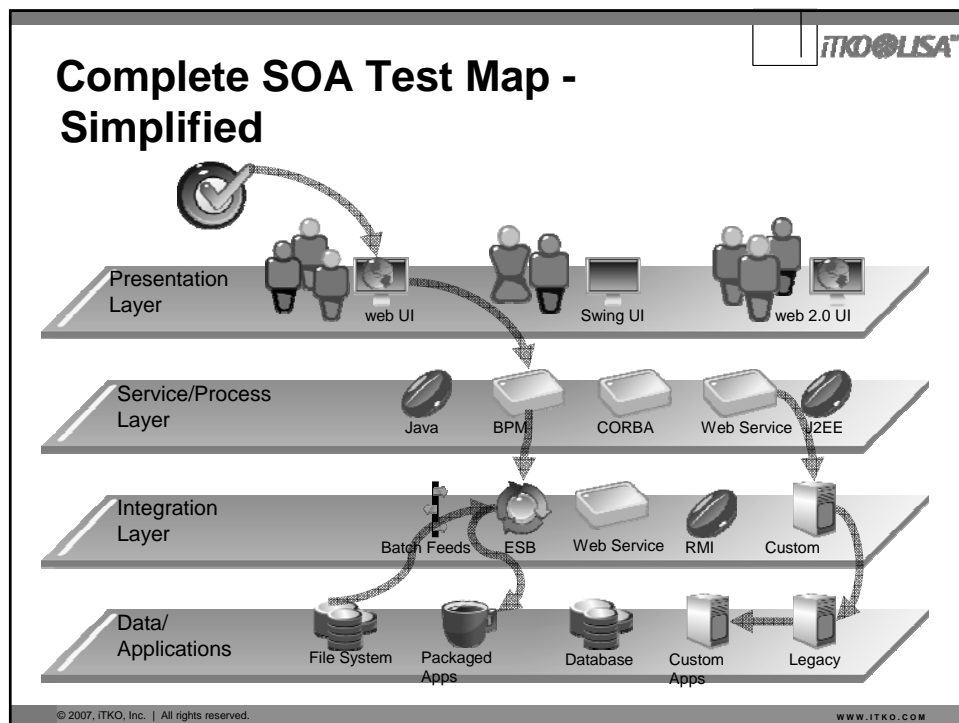
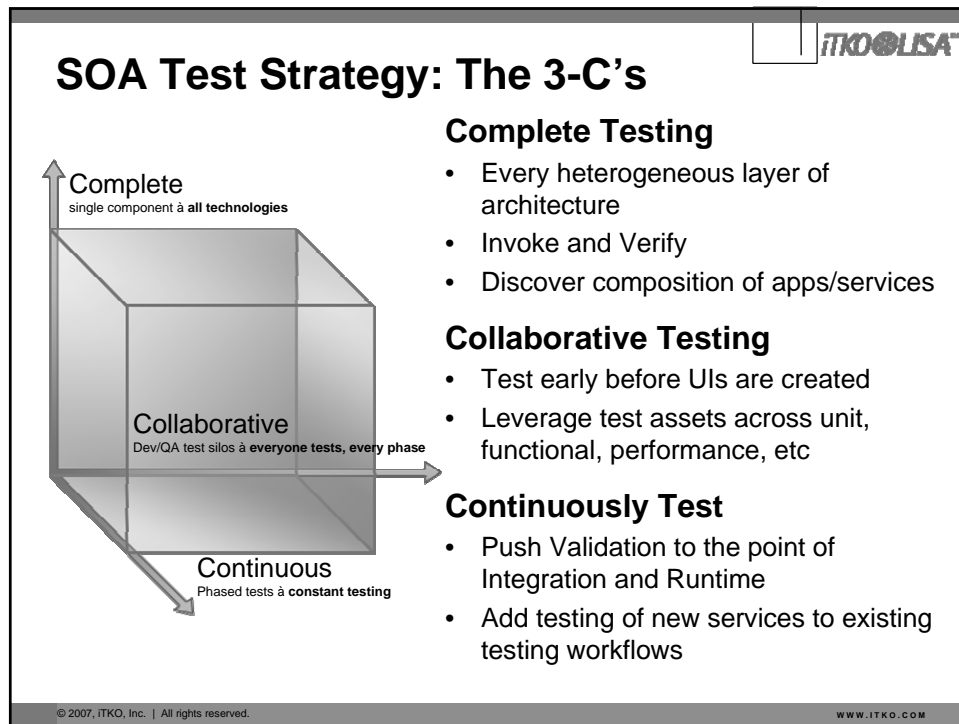


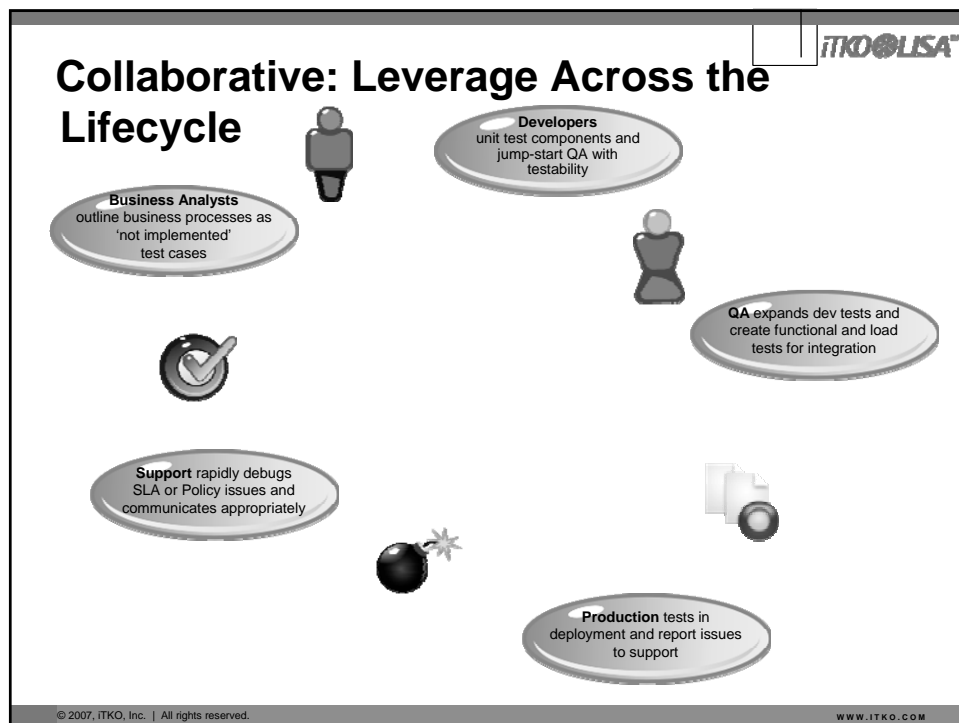
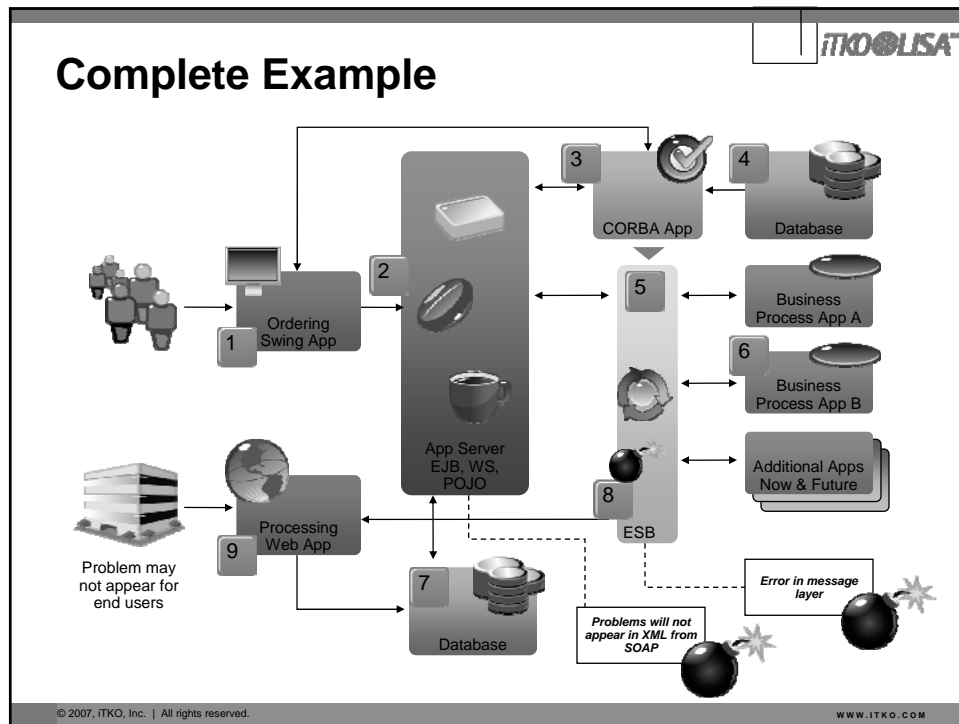


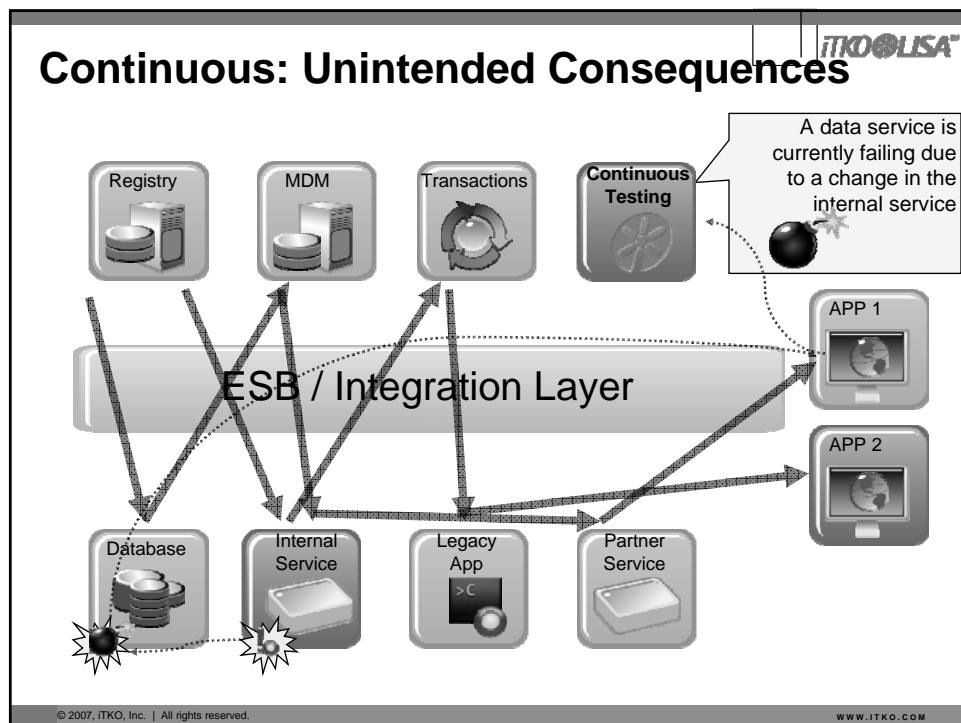
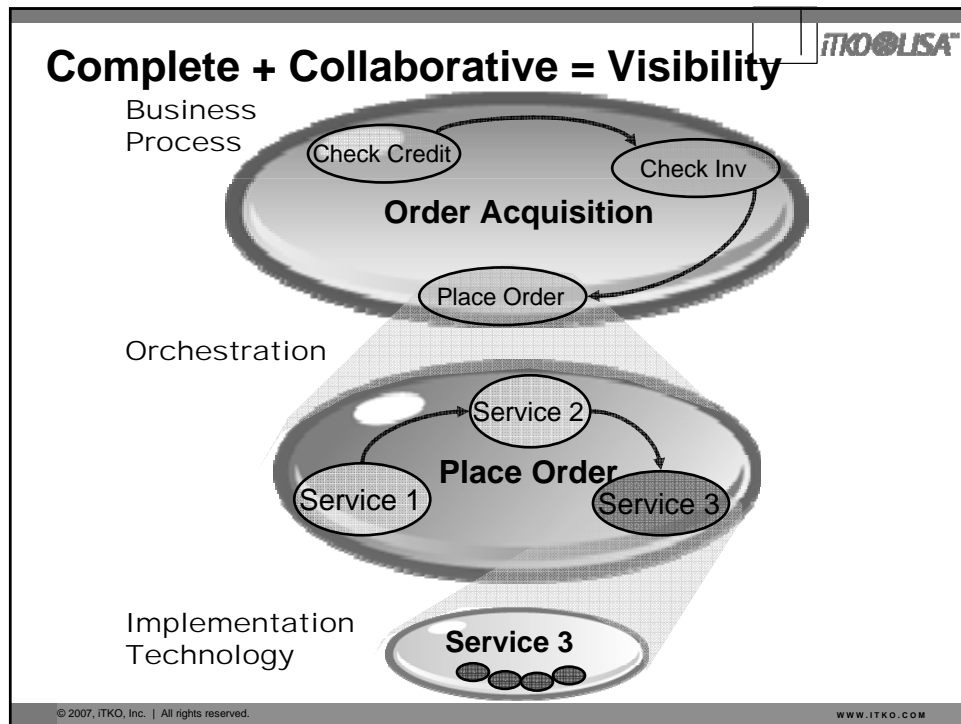


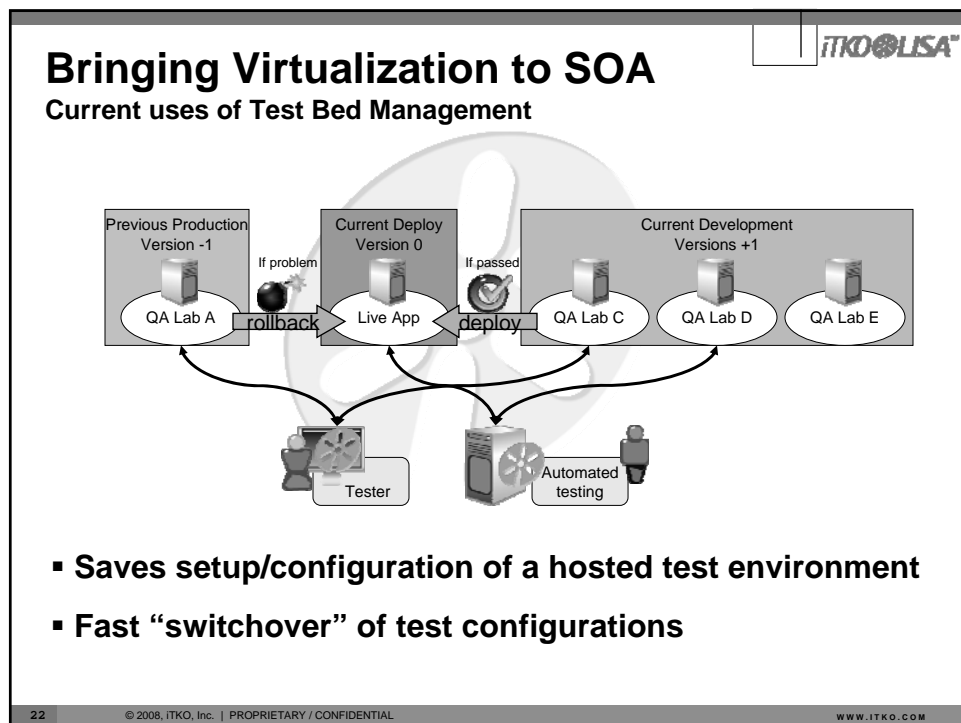
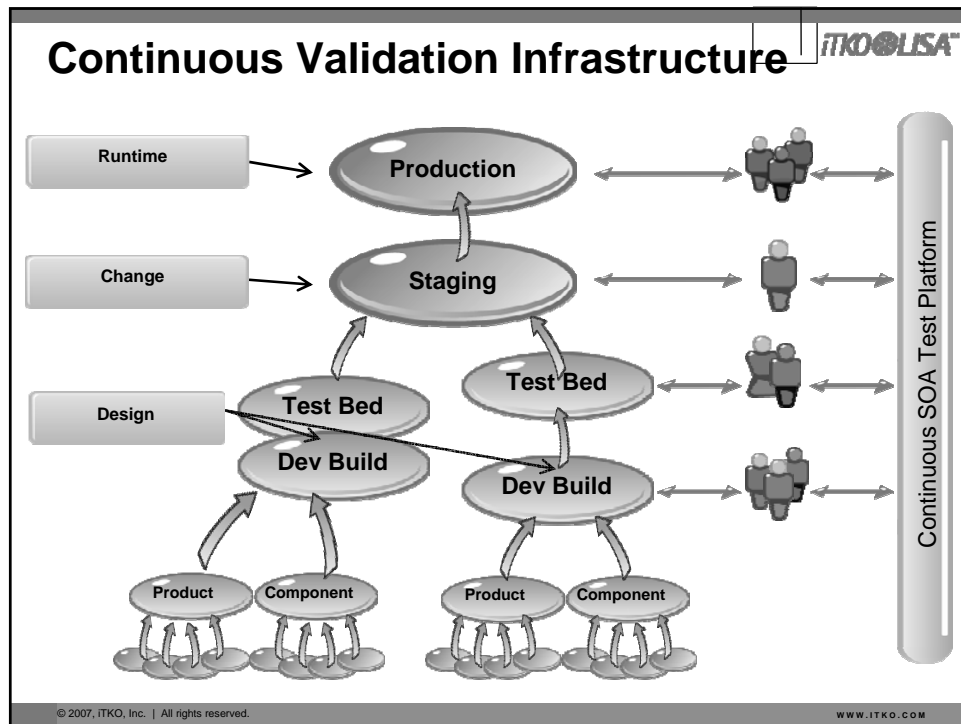












1. Contention for Shared Resources

- Live services are not always available for dev & testing
- Administrators control or prohibit access to prevent overload and downtime
- Multiple dev & test teams create scheduling conflicts for access to key systems

Traditional Dev & QA = Centralized Control, Longer Cycles

SOA Development = Constrained by Access

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2. Dependencies in Development Cycles

Conventional “Waterfall” development cycle...

Attempt to break up SOA development to distributed teams

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3. Expense of Test Data Creation

- Creating realistic, repeatable test scenarios for SOA represents a huge data maintenance effort
- Changing behavior of services makes test data brittle

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Applying Service Oriented Virtualization (SOV)

UDDI registry

Application under test

SOAP request

CICS

JDBC

VS1

DB1

MF1

LISA Virtual Service Environment (VSE)

Service1


SAP

Database

Mainframe

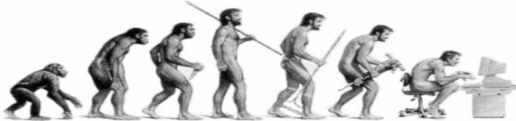
LISA Testing

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Summary (Reprise)

- Application Complexity and Variability are Increasing
- Today/Tomorrows Applications are Services-Based
- It's a good thing for Reuse & Flexibility but it is causing additional downtime & performance issues
- Test/Validation driving into the Governance Realm
- Test Strategy moving forward must address the 3 critical objectives of Complete, Collaborative, and Continuous
- Virtualizing the Behaviors of applications allows Test/Validation across teams and breaks limitations of Access, Dependency & Data Management



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