



## Enterprise Software Delivery

### Balancing Agility and Efficiency in the Global Software Supply Chain

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IBM Software

# Innovate2012

The Premier Event for Software and Systems Innovation



## Agenda

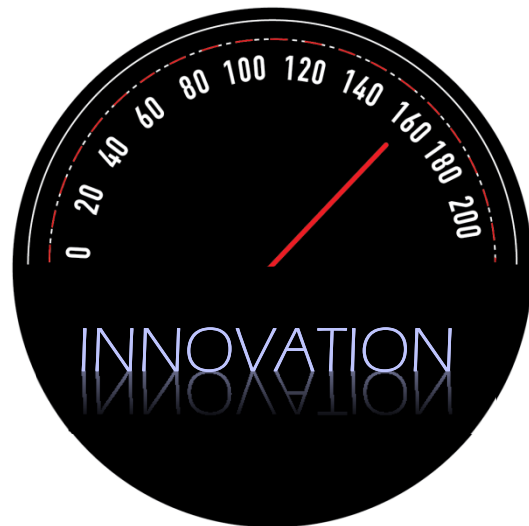
- Background and Context
- IBM Rational Innovation Pillars
  - Integration
  - Automation
- Agility@Scale
- The Global Software Supply Chain View
- Summary



# Ten Major Trends Driving How Next-Generation Services are Discovered, Delivered, and Consumed

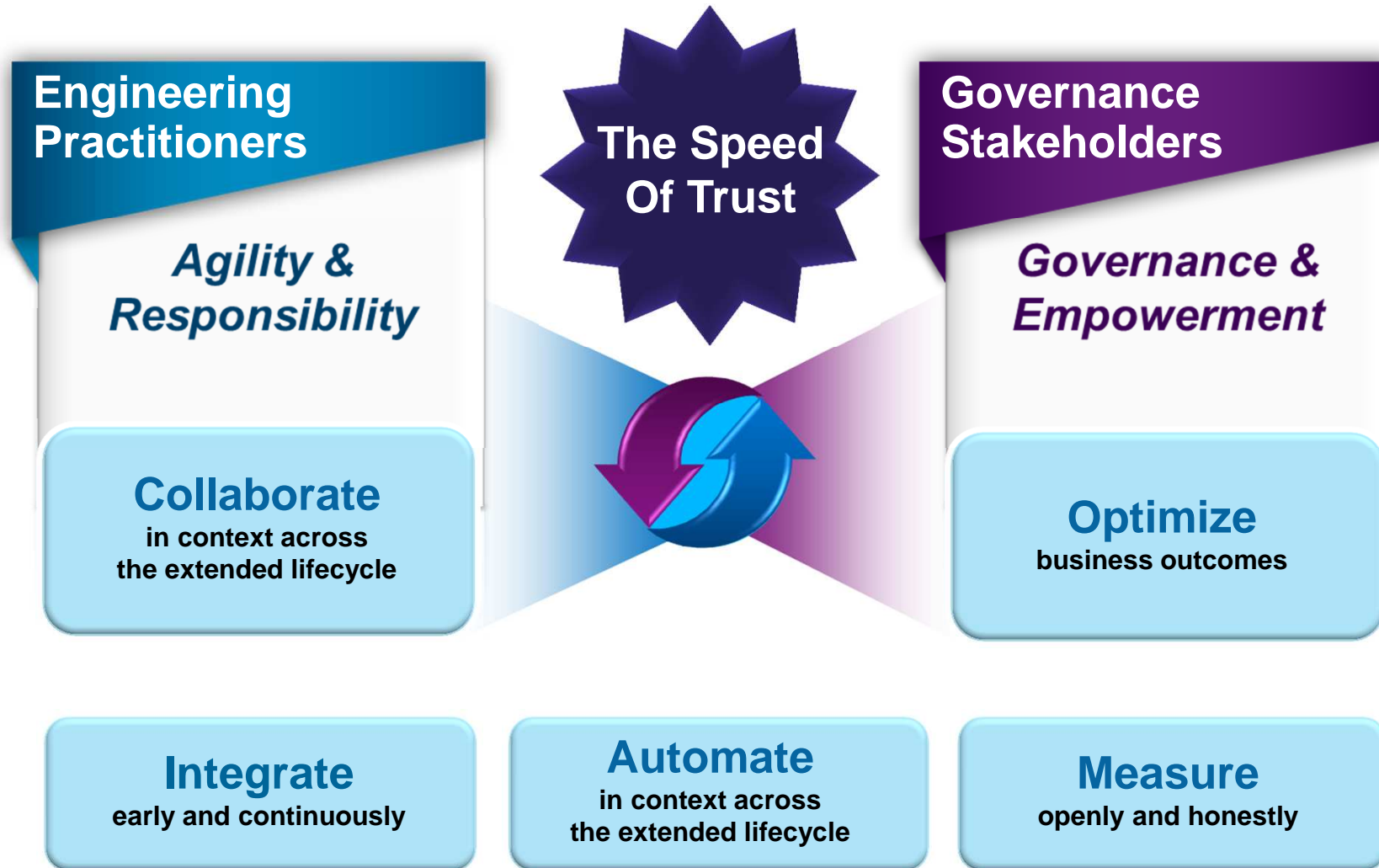


## Innovation Olympics



**Software Innovation**  
is becoming synonymous with  
**Business Innovation**

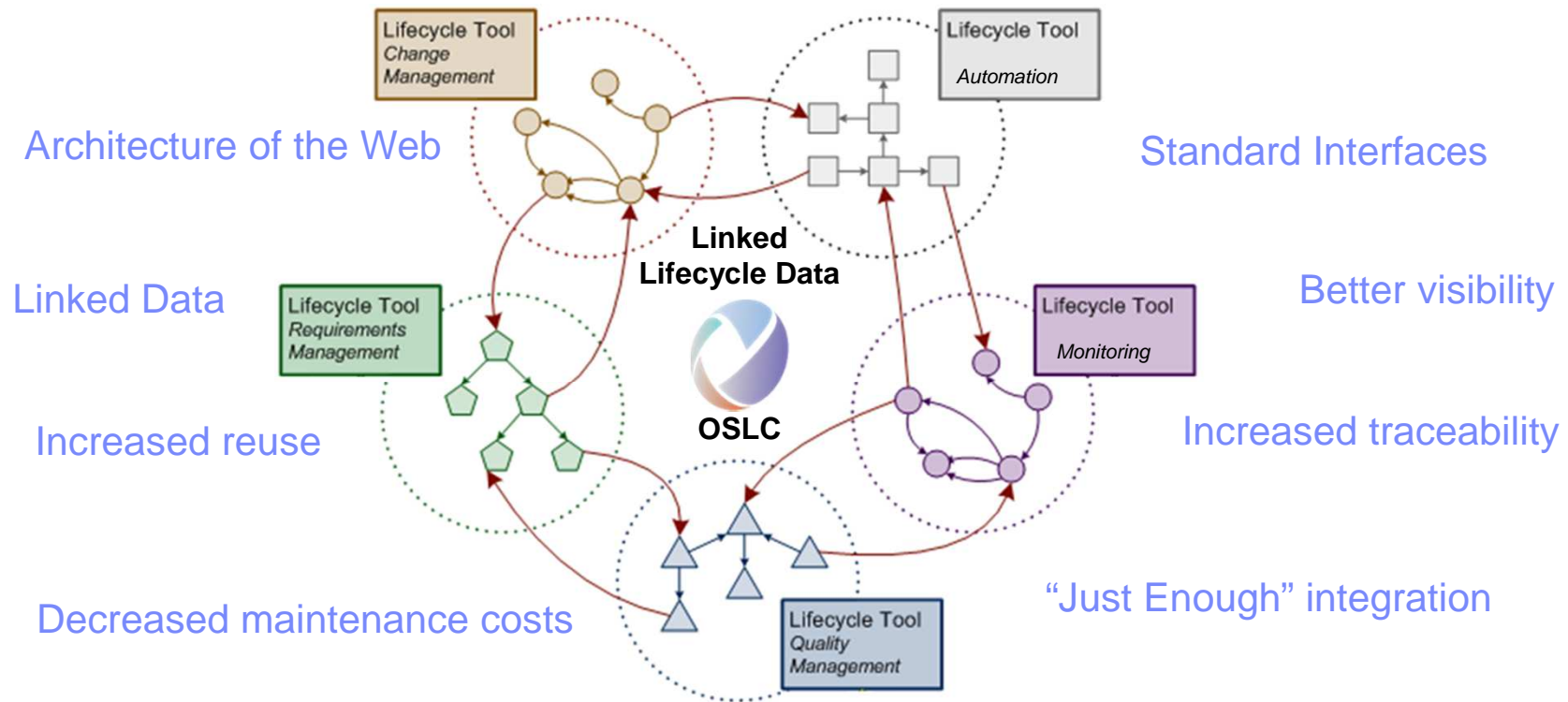
## Succeeding in the New Delivery Reality



# IBM Rational Integration Strategy: Open Services Life Cycle

*An Innovative approach to the Tool Integration problem*

Users can work across the integration without leaving their favorite tool

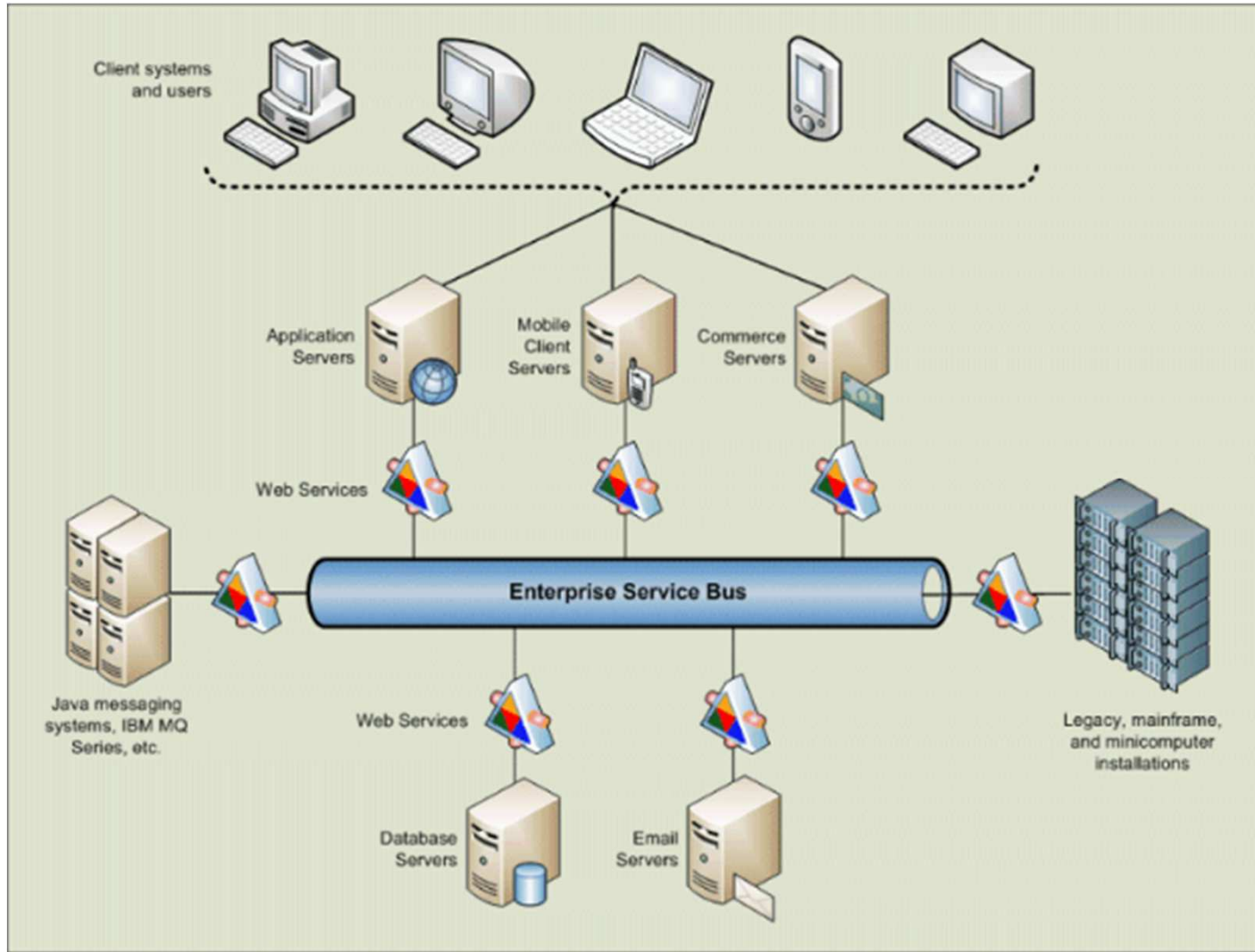


*Links to where the data lives  
as opposed to copying and synchronizing*

# Automation : Greenhat

## Putting "Integration" into Integration Testing

A representation of your (production) environment

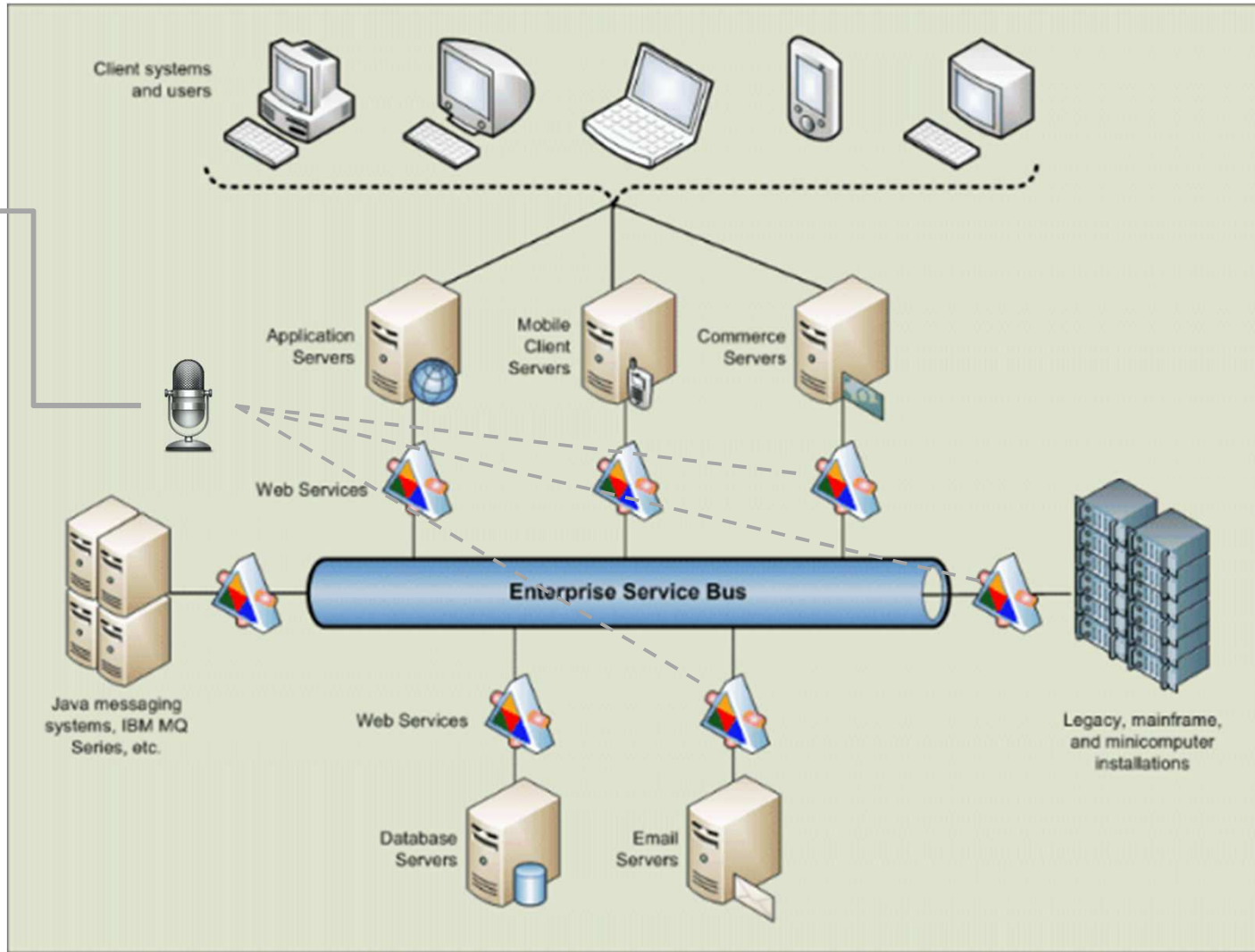


# Automation : Greenhat

## Putting "Integration" into Integration Testing



*Recording requests to servers & Services...  
recording also their responses*



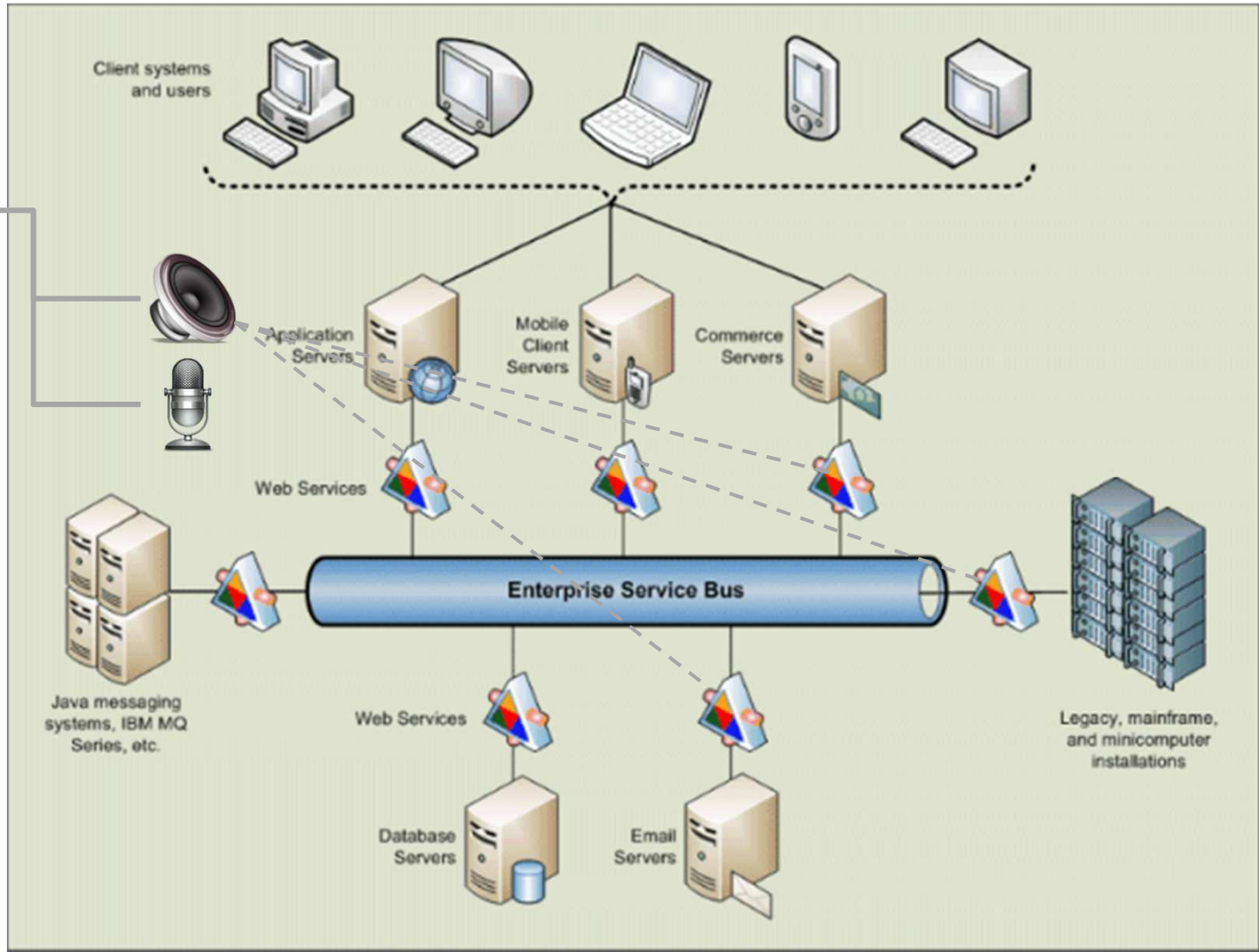


# Automation : Greenhat

## Putting "Integration" into Integration Testing

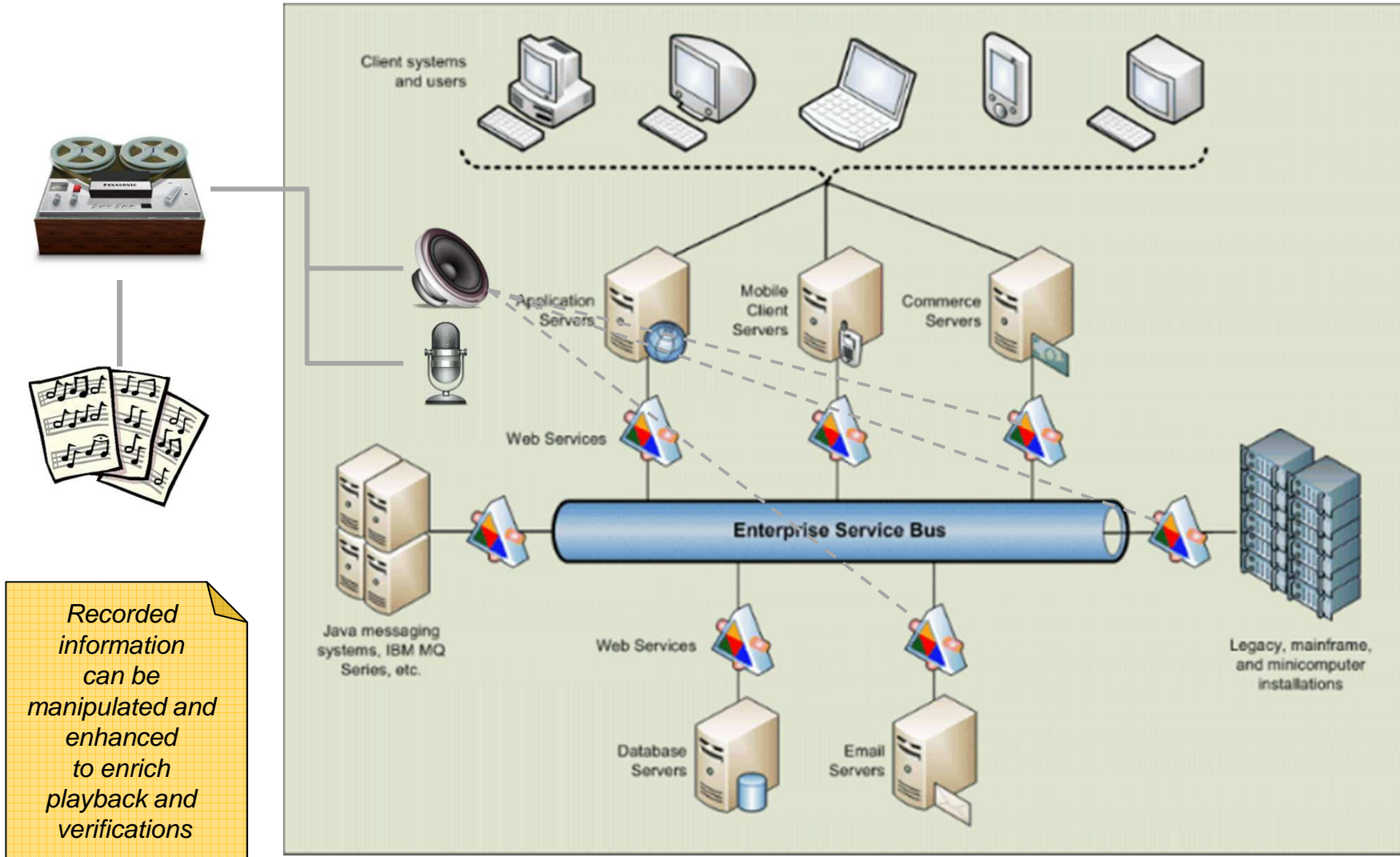


*Playing back the recorded requests to isolate the testing of a service*



# Automation : Greenhat

## Putting "Integration" into Integration Testing

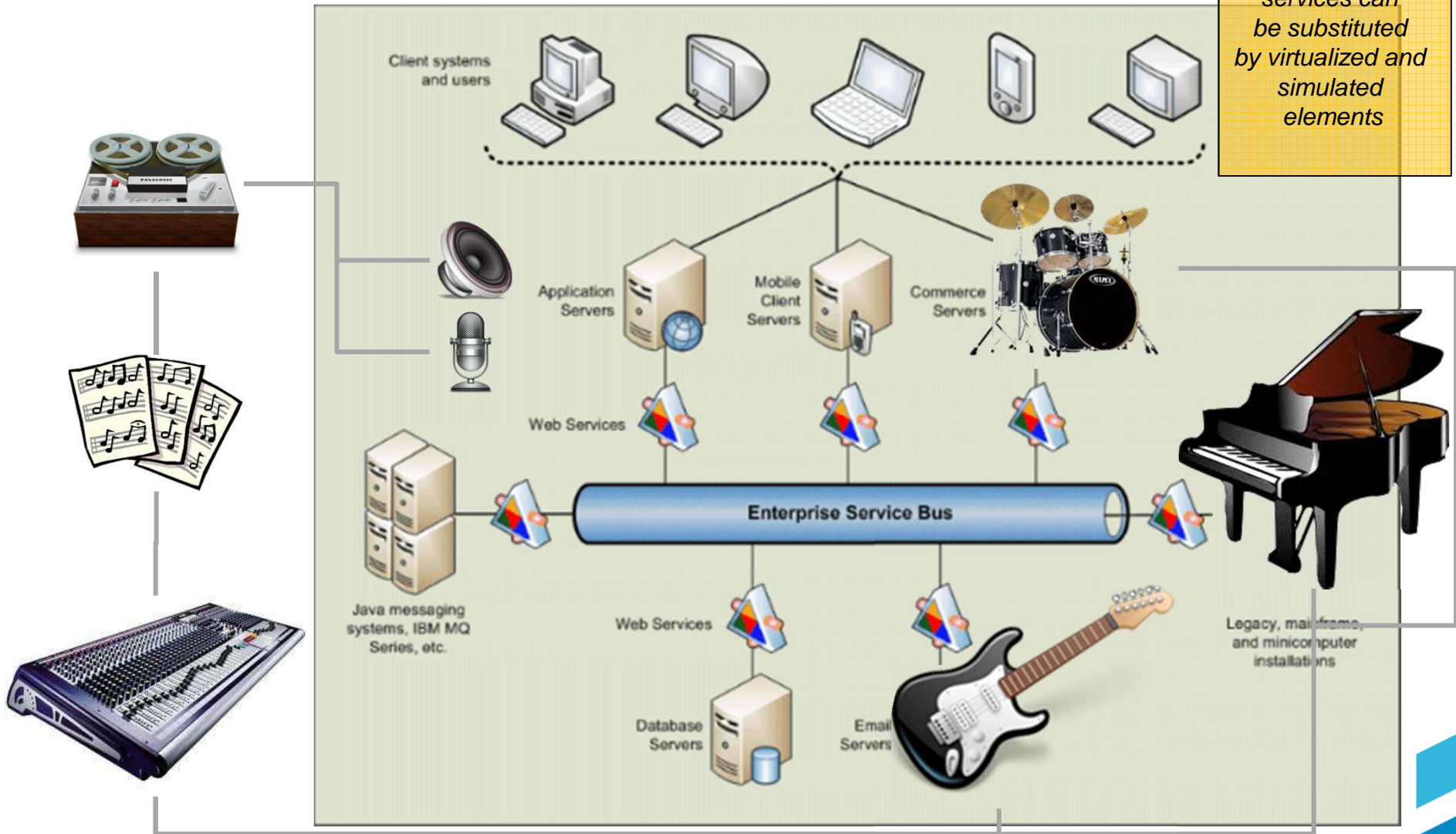


Recorded information can be manipulated and enhanced to enrich playback and verifications

# Automation : Greenhat

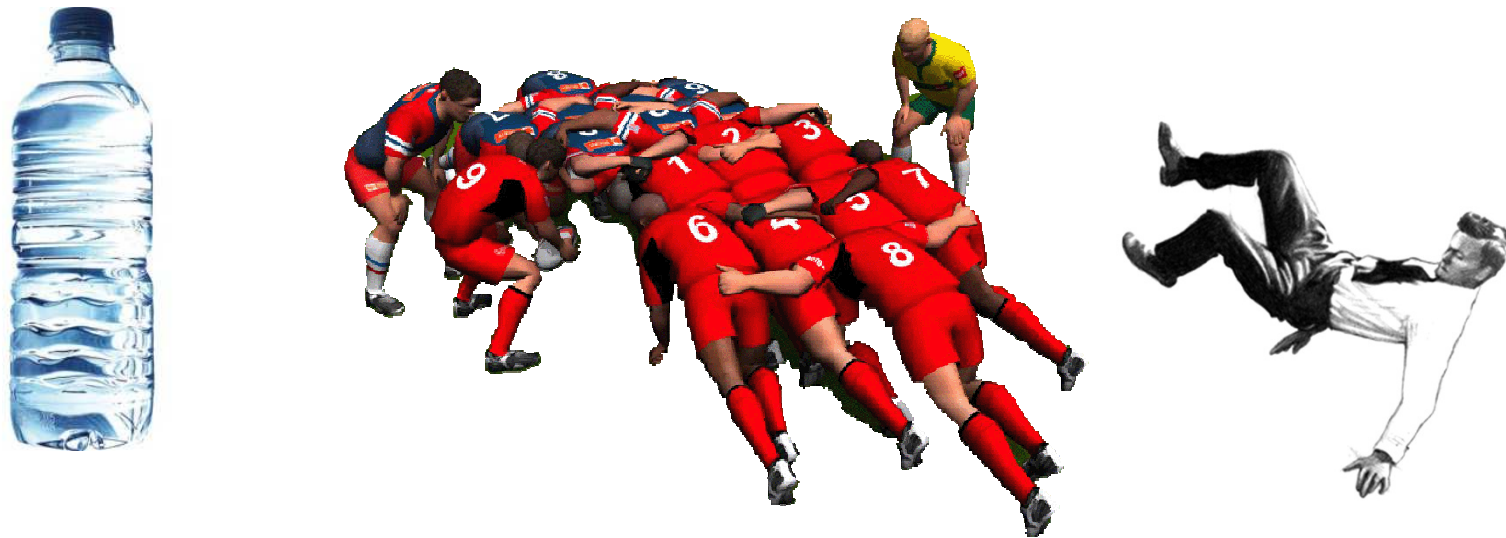
## Putting "Integration" into Integration Testing

And eventually services can be substituted by virtualized and simulated elements

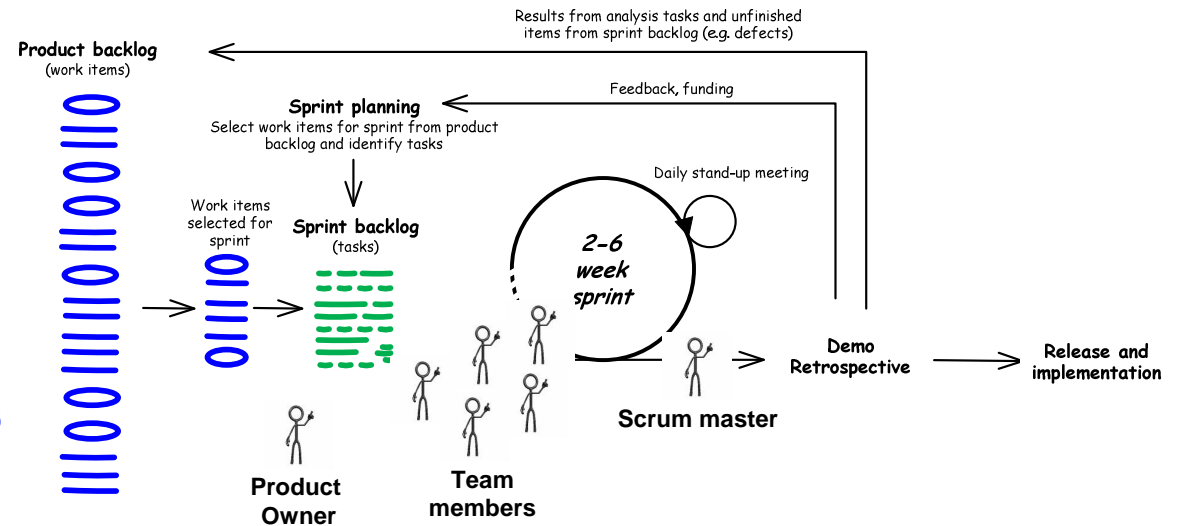


# Water-Scrum-Fall

*The Reality of Agile for Most Organizations Today*



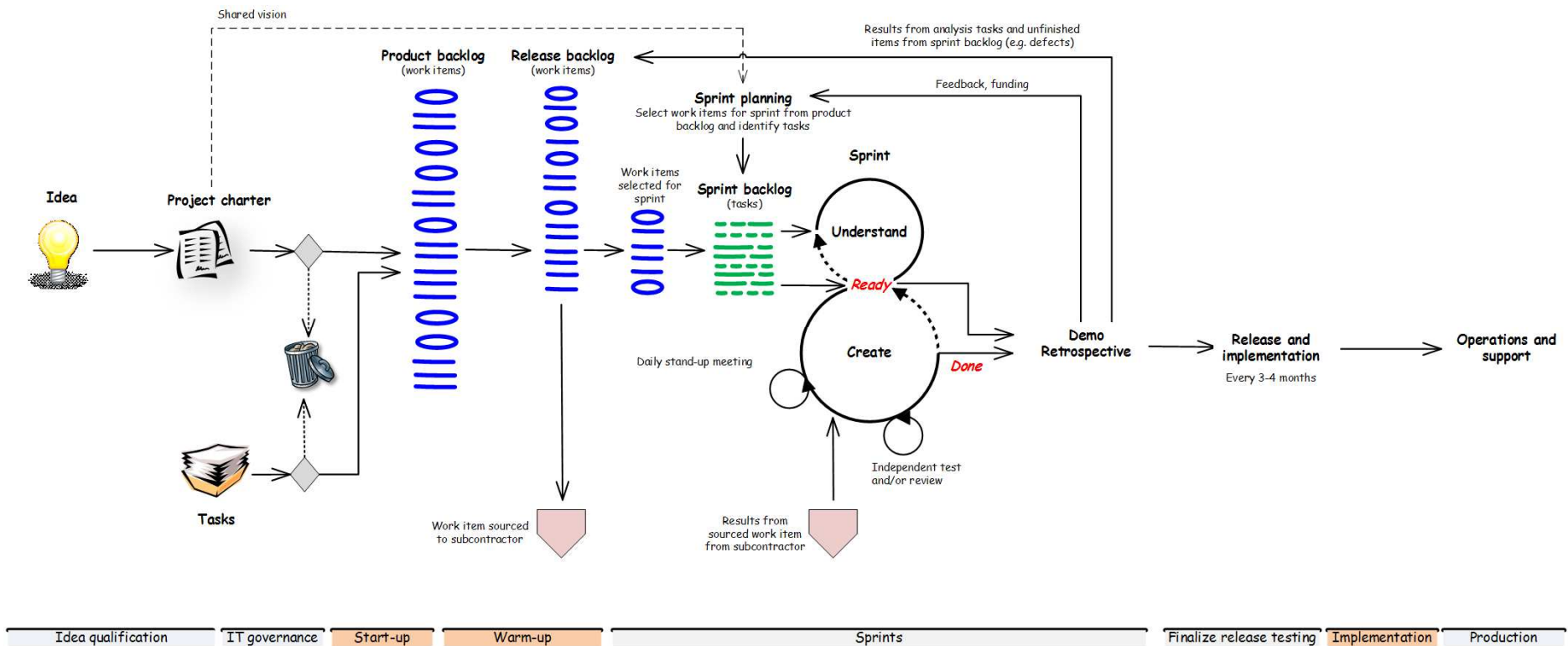
## Basic agile (Scrum)



The text book version of agile is not aligned with the realities seen in software supply chains...

- Product owner is one person
- No sub-contracting of deliverables (incl. off-shore)
- Global transparency ignores need for multiple, customizable layers of visibility, privacy, security, etc.
- Lack of strong focus on contracts and formal agreements
- Limited need for high-level and multi-level planning
- User and acceptance test can be performed in each sprint
- No need for a project manager, resource manager, etc.
- Limited focus on reusable platforms and services
- Etc. etc.

# Enterprise Agile Lifecycle



## Sourcing Eco-System



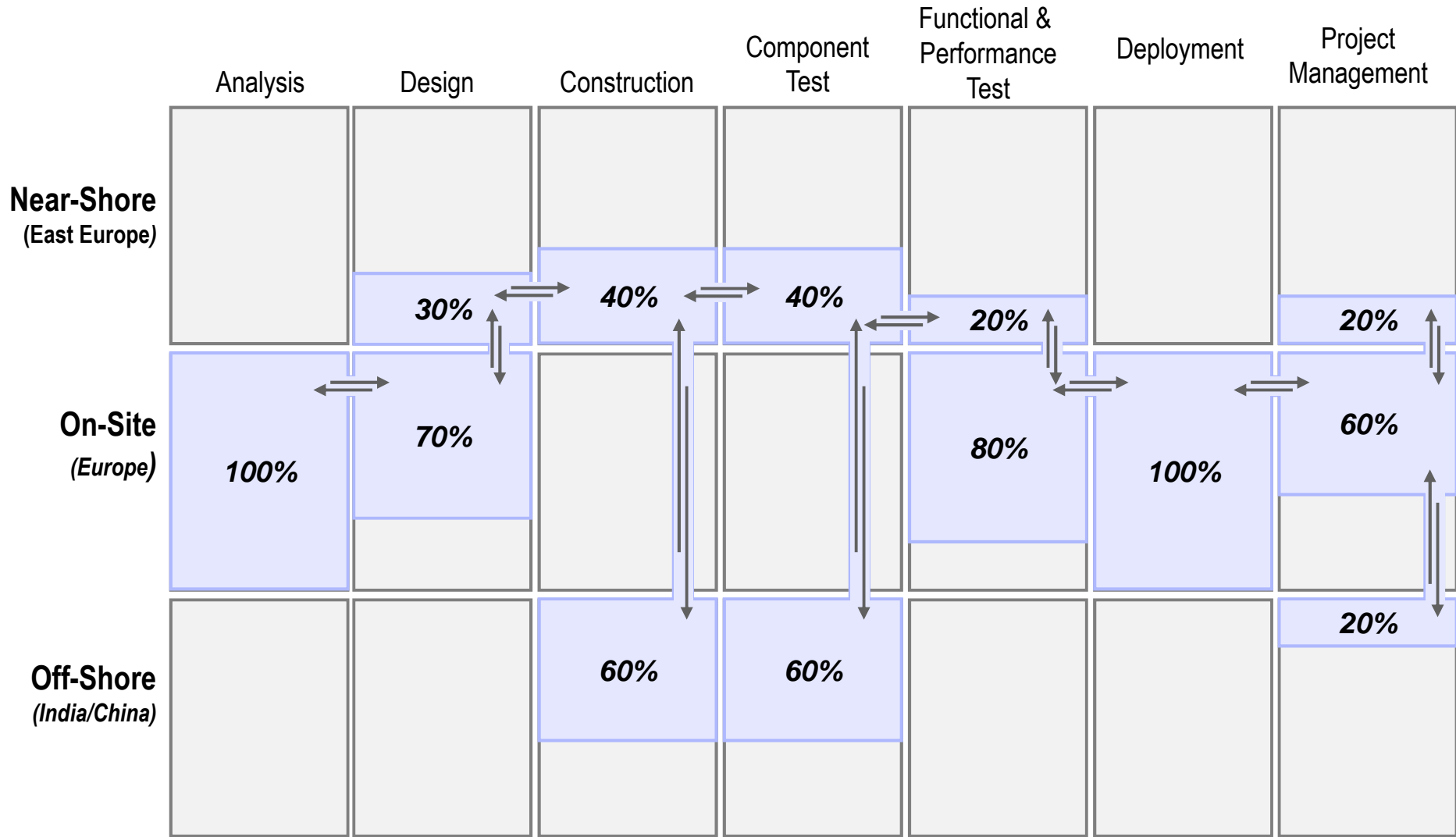
## The Evolving Global Software Supply Chain

Initial Practice	Current Practice	Emerging Practice
<ul style="list-style-type: none"> <li>Country-based delivery</li> </ul>	<ul style="list-style-type: none"> <li>Onshore / Offshore</li> </ul>	<ul style="list-style-type: none"> <li>Networked Global Centers</li> </ul>
<ul style="list-style-type: none"> <li>Utilization based</li> </ul>	<ul style="list-style-type: none"> <li>Deliverables based</li> </ul>	<ul style="list-style-type: none"> <li>Outcome based</li> </ul>
<ul style="list-style-type: none"> <li>Limited collaboration</li> </ul>	<ul style="list-style-type: none"> <li>Core team collaboration by project</li> </ul>	<ul style="list-style-type: none"> <li>Community Collaboration across process and technology</li> </ul>
<ul style="list-style-type: none"> <li>No workflow management</li> </ul>	<ul style="list-style-type: none"> <li>Limited workflow management</li> </ul>	<ul style="list-style-type: none"> <li>Component-based workflow management</li> </ul>
<ul style="list-style-type: none"> <li>No reuse</li> </ul>	<ul style="list-style-type: none"> <li>Ad hoc reuse</li> </ul>	<ul style="list-style-type: none"> <li>Systematic reuse</li> </ul>
<ul style="list-style-type: none"> <li>Limited visibility</li> </ul>	<ul style="list-style-type: none"> <li>Visibility of standard project metrics</li> </ul>	<ul style="list-style-type: none"> <li>Pervasive transparency of all project artifacts</li> </ul>
<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>Ad hoc improvement processes</li> </ul>	<ul style="list-style-type: none"> <li>Continuous improvement with Lean</li> </ul>
<b>Technology Platform</b>		
<ul style="list-style-type: none"> <li>Standalone development and project management tools</li> </ul>	<ul style="list-style-type: none"> <li>Limited tool integration and collaboration capability</li> </ul>	<ul style="list-style-type: none"> <li>Integrated technology platform enabling real-time collaboration and AD/M automation</li> </ul>

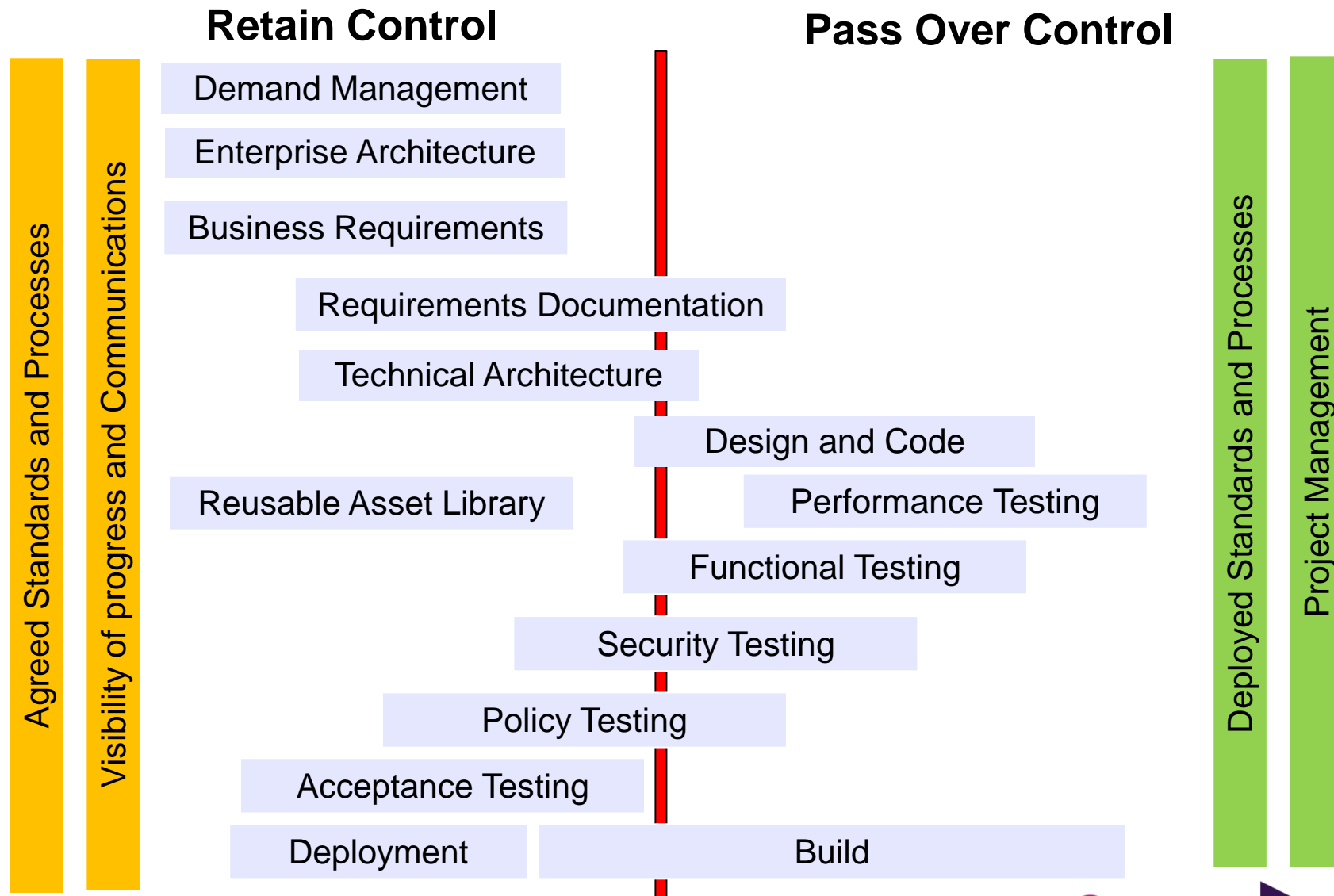


# Organizational Complexity

## Handover points

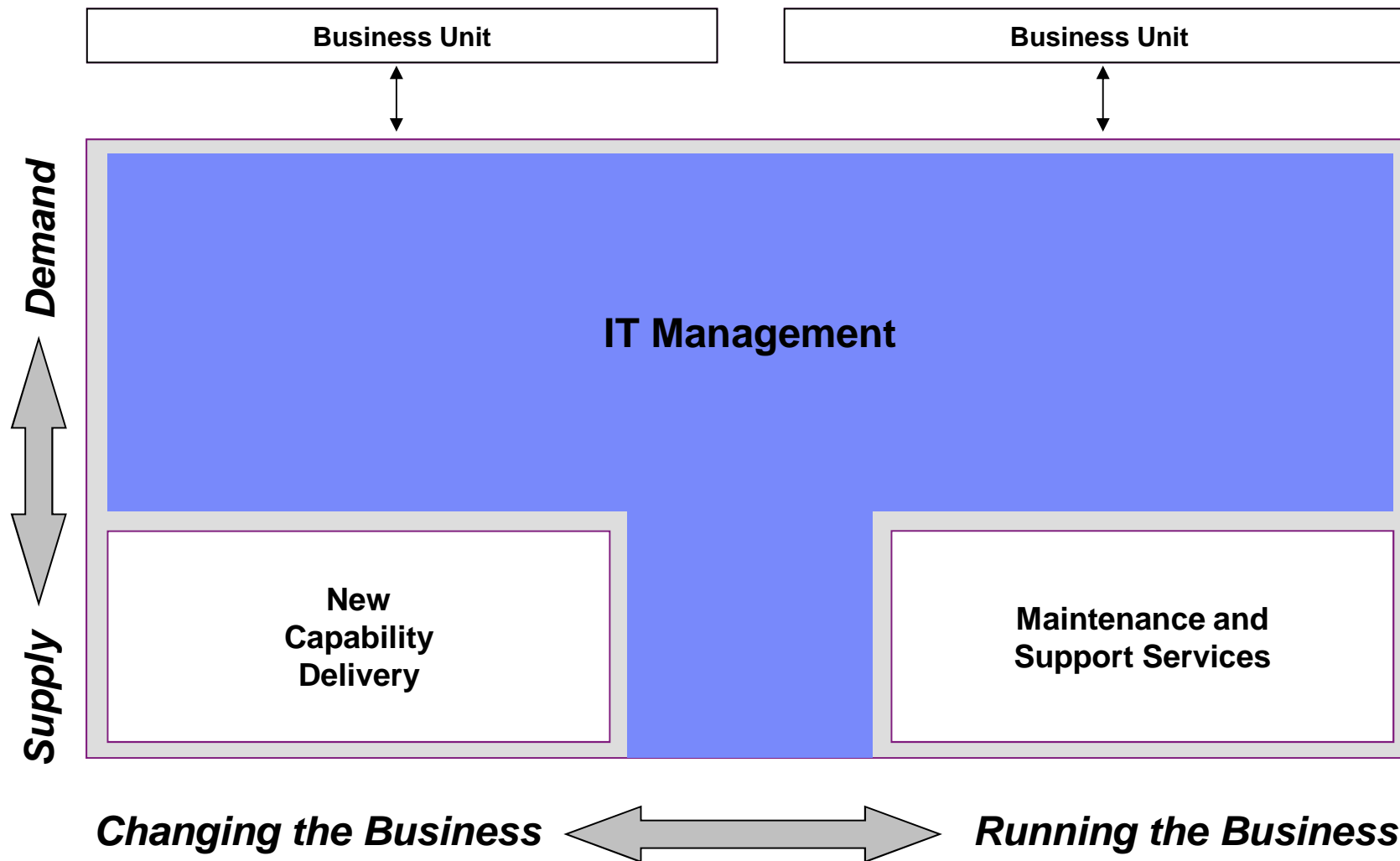


## Establish Right Level of Control



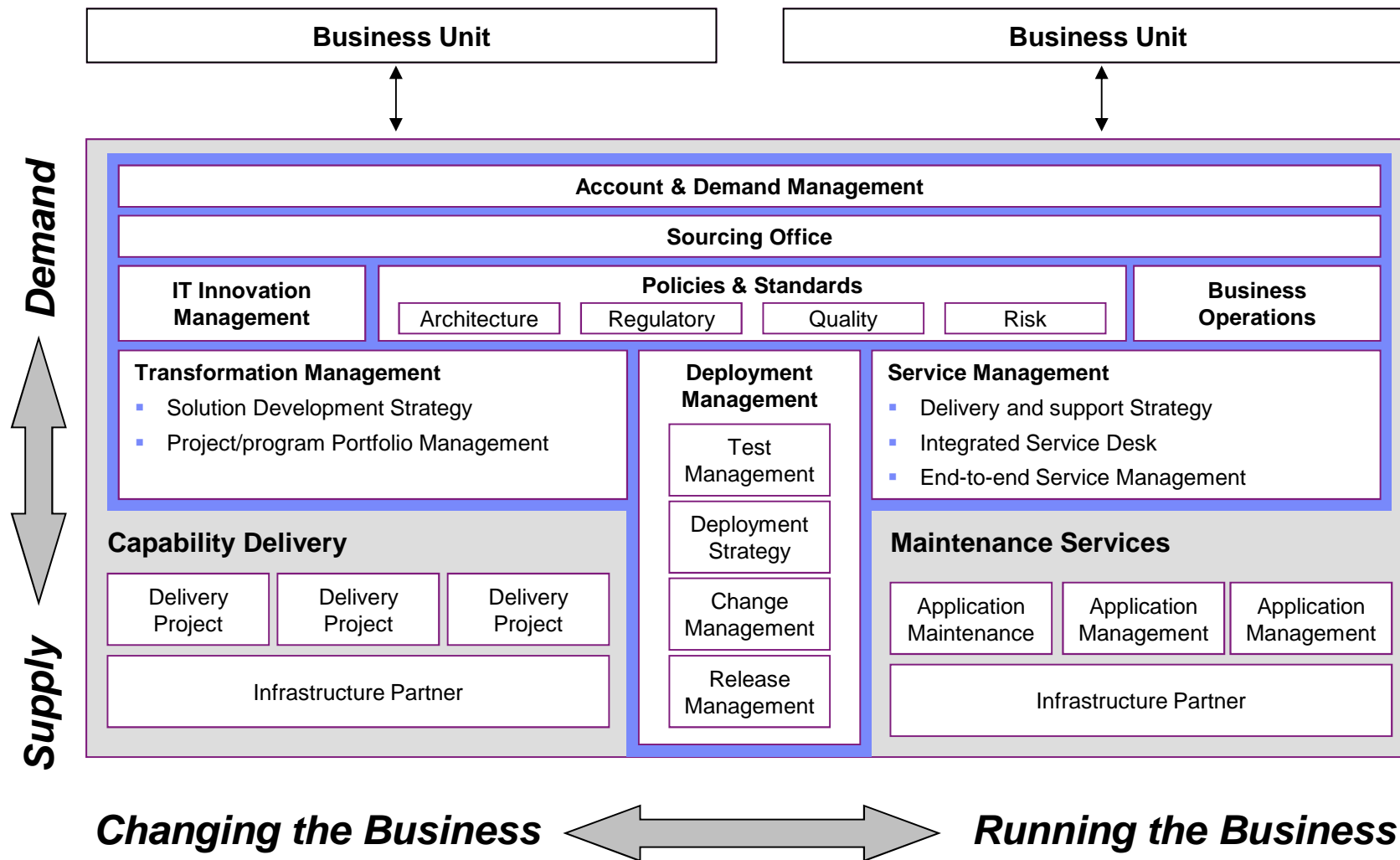
## Software Supply Chain – Modern Structure to Govern IT

*It is time to look at the role of IT in a different way*

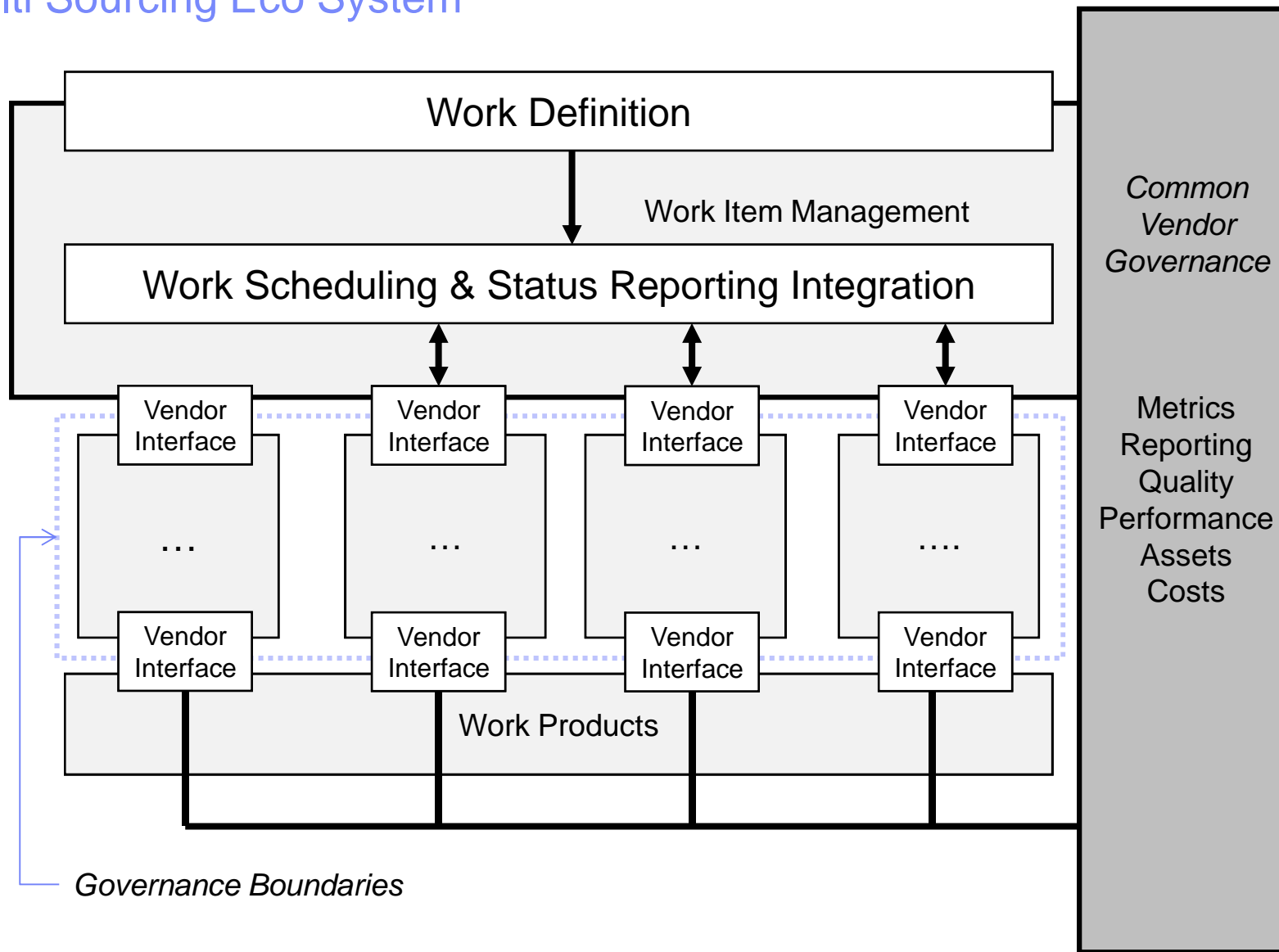


# Software Supply Chain – Modern Structure to Govern IT

*Detailed view of activities*



## Multi Sourcing Eco System



## Summary

- Rational Key Differentiators
  - Integrate
  - Automate
  - Measure
  
- Adopt Agility @ Scale
  
- Organizational borders need special attention with regards to
  - Work Perspective
  - Work Product Perspective
  - Integration & Automation



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