SOA: fundamentals and reference architecture

Dominique Delhumeau Executive IT Architect, SWG, IMT France and North West Africa member of IBM Academy of Technology dominique_delhumeau@fr.ibm.com

SOA on your terms and our expertise





Three Key Concepts to SOA

Business Innovation and OptimizationFor Responsiveness & Flexibility

A monitoring and management approach that leverages integrated resources to achieve aligned, accountable, and action-oriented business operations

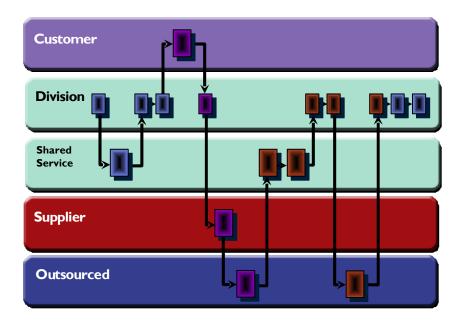
Service Oriented Architecture

 For Flexibility and

An approach for designing and implementing distributed systems that allows a tight correlation between the business model and the IT implementation

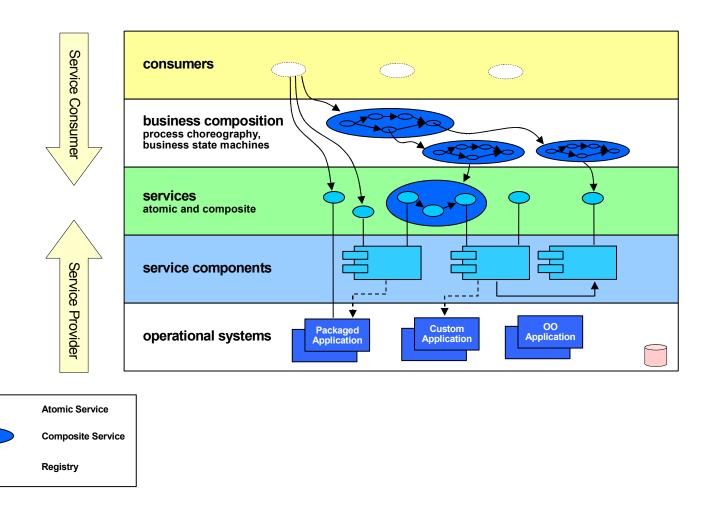
Composite Application Development-- For Efficiency and Quality

A business driven development approach to creating solutions that uses automated tools to build models and transform them into efficient software implementations



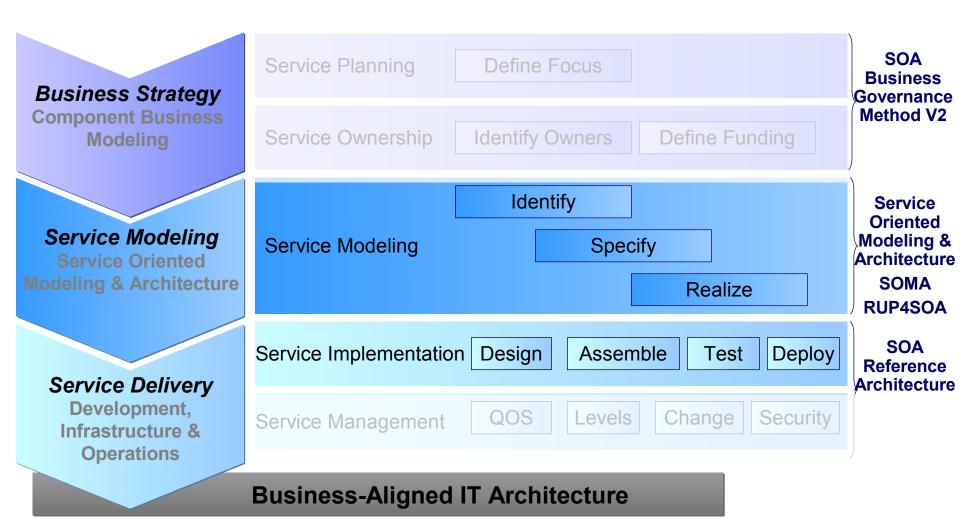


A decomposition of a Service-Based Business Design





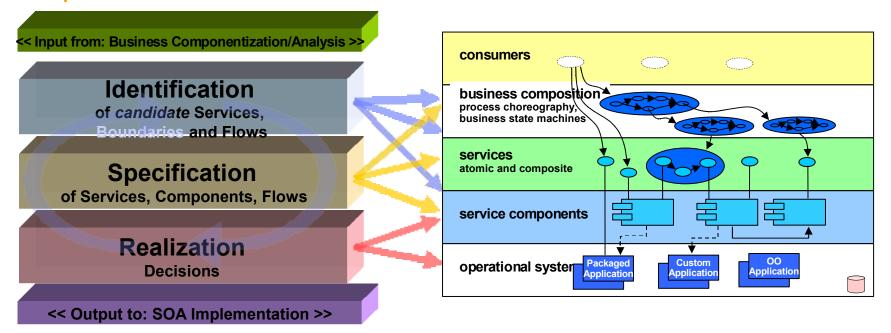
Methods & Techniques address end-to-end service life cycle activities today's focus in from modeling to realization





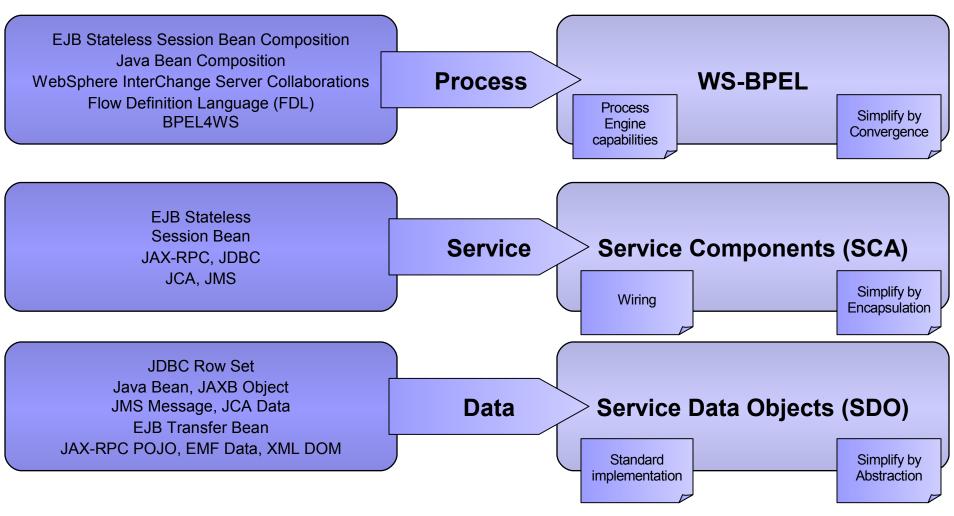
The role of SOMA in SOA development is to provide a prescriptive technique for modeling (analysis and design) necessary to create a Service-Oriented Architecture with composable services

At the heart of SOMA is the identification and specification of services, components and flows



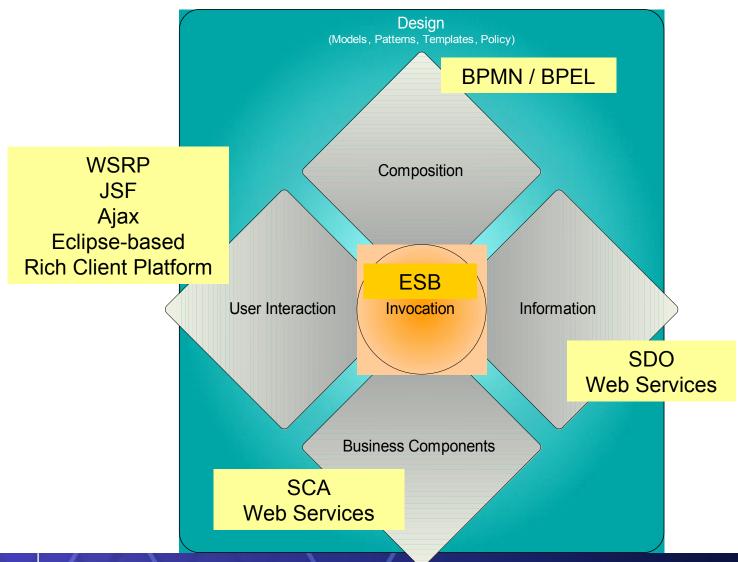


Flexibility and Responsiveness need a simplified programming model



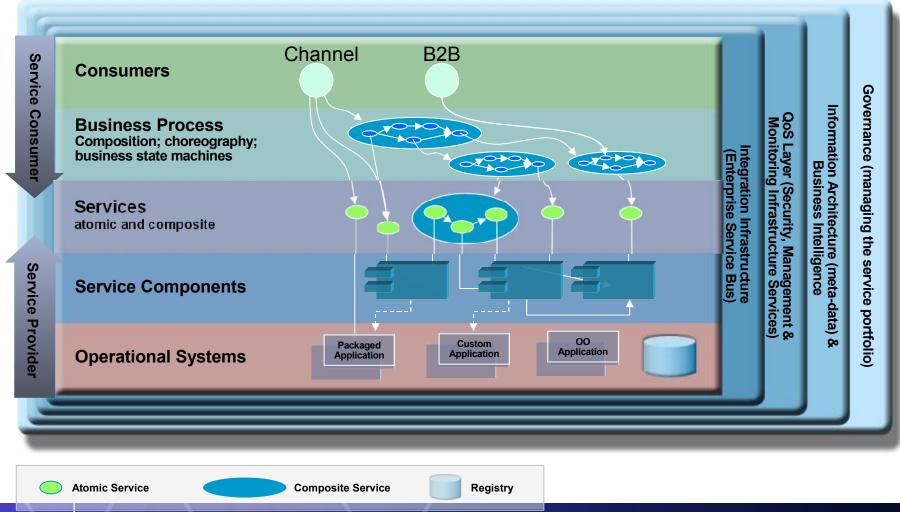


Applying the standards to the programming model



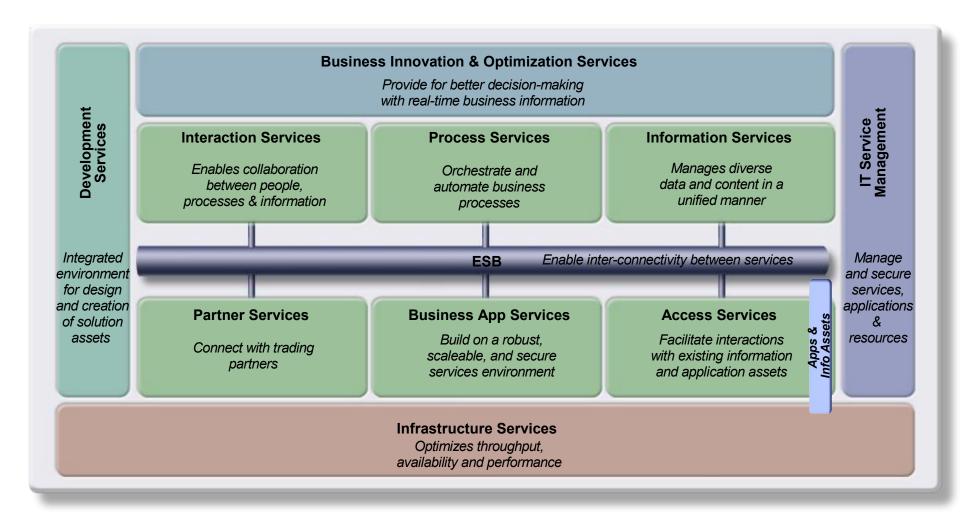


The solution needs infrastructure layers and governance





Deploying in a SOA Reference Architecture





Consuming the SOA Foundation

Scenario

1. Capitalize on new business opportunities

Take advantage of existing services and make new ones ubiquitously accessible

2. Enhance responsiveness and customer service
Reduce transaction time and strengthen partner interactions

3. Extend collaboration efforts and information accessibility

Provide roll-based access to information for employees, customers, & partners

4. Increase productivity

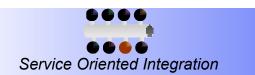
Automate process execution and easier change management

5. Improve business agility and compliance

Create a single source of information for customers, partners & internal users

Architectural Pattern













Some of the products that will be discussed today

