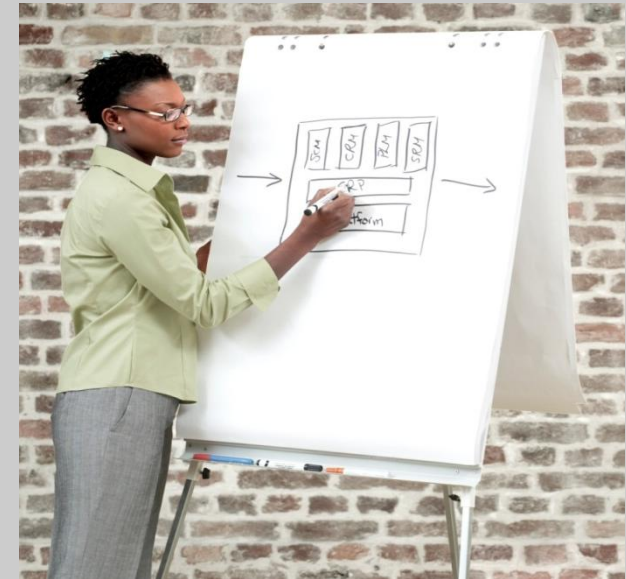


The Value of Enterprise Architecture - An African Context



Alvin L Paules
Chief Technology Architect
SAP Africa

Johannesburg - South Africa

September 1, 2009

1. Where have we come from?
2. Where are we today?
3. Enterprise Architects – A Valuable resource in the Emerging World
4. The role of Stakeholders
5. What is the potential of EA on our Continent & why the goal of “Boundaryless Information” should be a Continental Objective
6. EA as an enabler

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Where have we come from?



- 70's, 80's and early 90's – As a country SA had the best Architects in the world (imho)
 - Sanctions
 - Integration
 - In-house Skills
- Defense / Public / Private – Development of skills base
- IT Technologists as a career path – Architects

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Where are we Today?



- ❑ Y2K -> COTS
- ❑ Sanctions – COTS solutions became available
- ❑ Integration – COTS became the Silver Bullet
- ❑ In-house Skills – COTS based
- ❑ Business Analysts – Skills Investment
- ❑ ReallRM – Zachman / TOGAF

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Boundaries Are Being Redefined

Value Chains Are Evolving into Business Networks



Value chain

Business network

Company-centric

Customer-centric

Command and control

Connect and collaborate

Ownership-driven

Relationship-driven

Self-contained risk

Shared risk

Business Network Transformation

Example: Asian Paints



From selling paint to
delivering painted rooms

asianpaints



- SOA-based composite application
- Shared end-to-end painting solution
- Collaborative network of vendor, customer, and service providers

Closed Loop Strategy to Execution: How Are You Closing the Loop?



Strategy

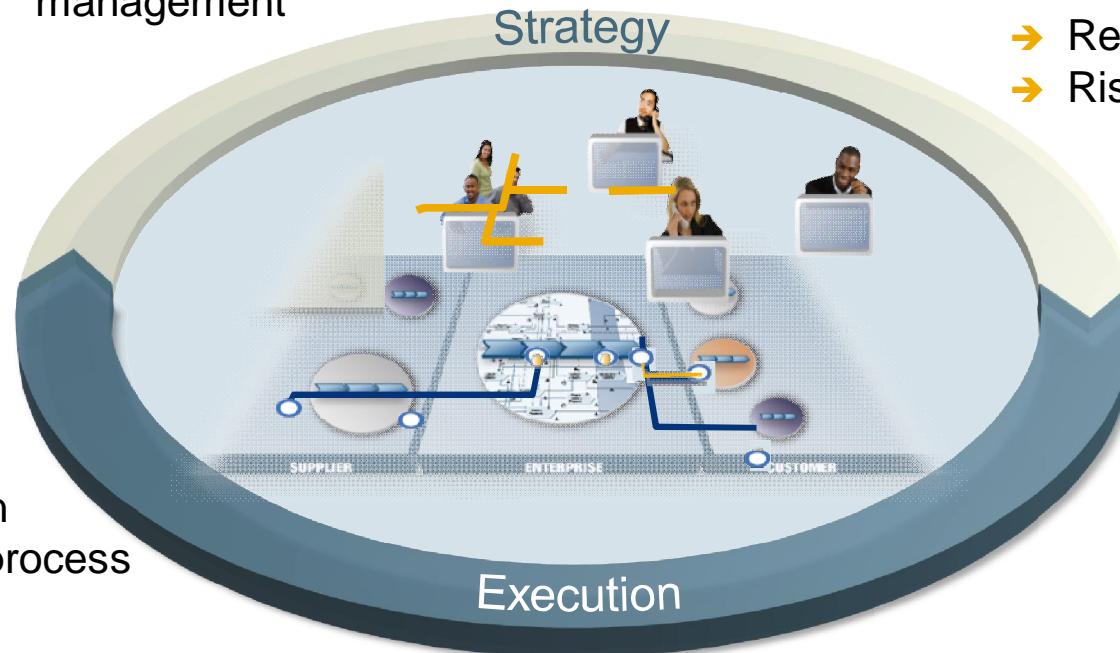
- Set strategy based on insight
- Real-time performance management

Decisions

- Deduced from strategy
- Ready for execution
- Risk mitigation

Insight

- Gained from reliable enterprise data



Events

- Trigger human interaction & process changes

Monitoring

- Compliance and risk

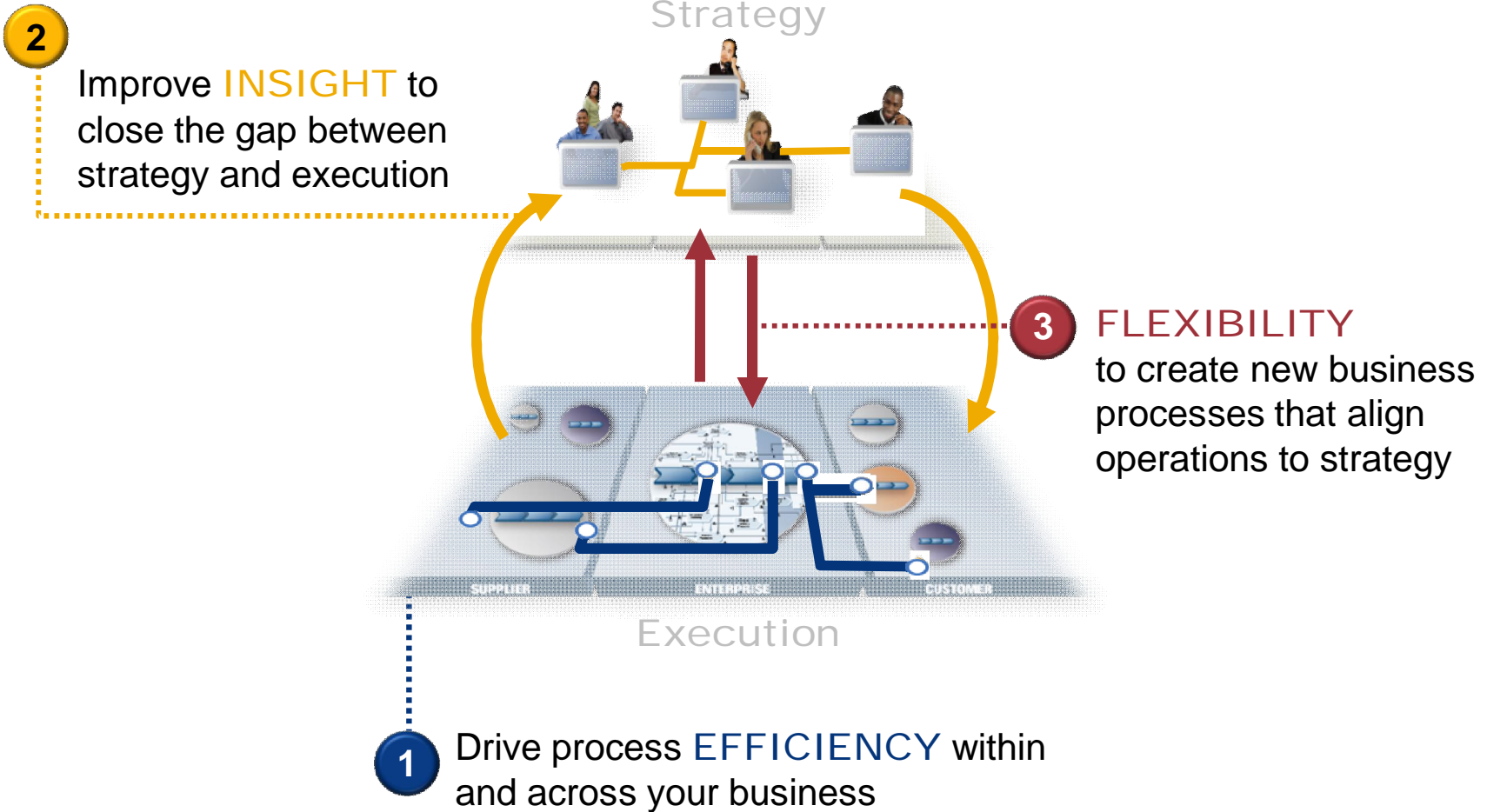
Process Execution

- Execute across business boundaries with the greatest efficiency

Process Refinement

- Required by strategic decisions or business events
- Easy to implement

Achieving Strategic IT Agility is Key Your Business Needs Efficiency, Insight, and Flexibility



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SAP Services for SOA

Support from Strategy to Implementation



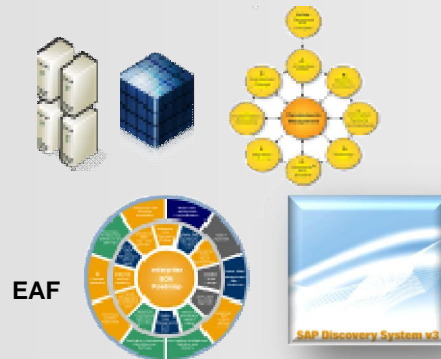
SAP Services – from SOA strategy to business results

Skills & Training



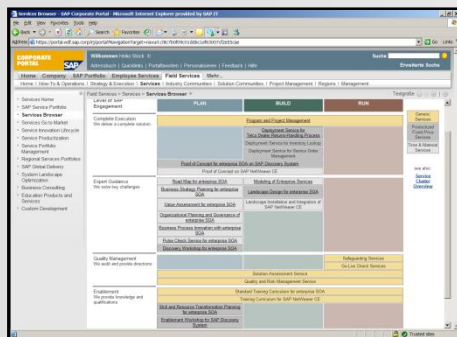
- Advice on IT skill transformation
- Enable your staff for adoption
- Certify your people for success
- Skills re-tooling framework

Tools & Methodologies



- Rapid prototyping on the SAP Discovery System
- Enabling IT evolution with the SAP Enterprise Architecture Framework
- Methodology for accelerated transformation to SOA

Services & Support

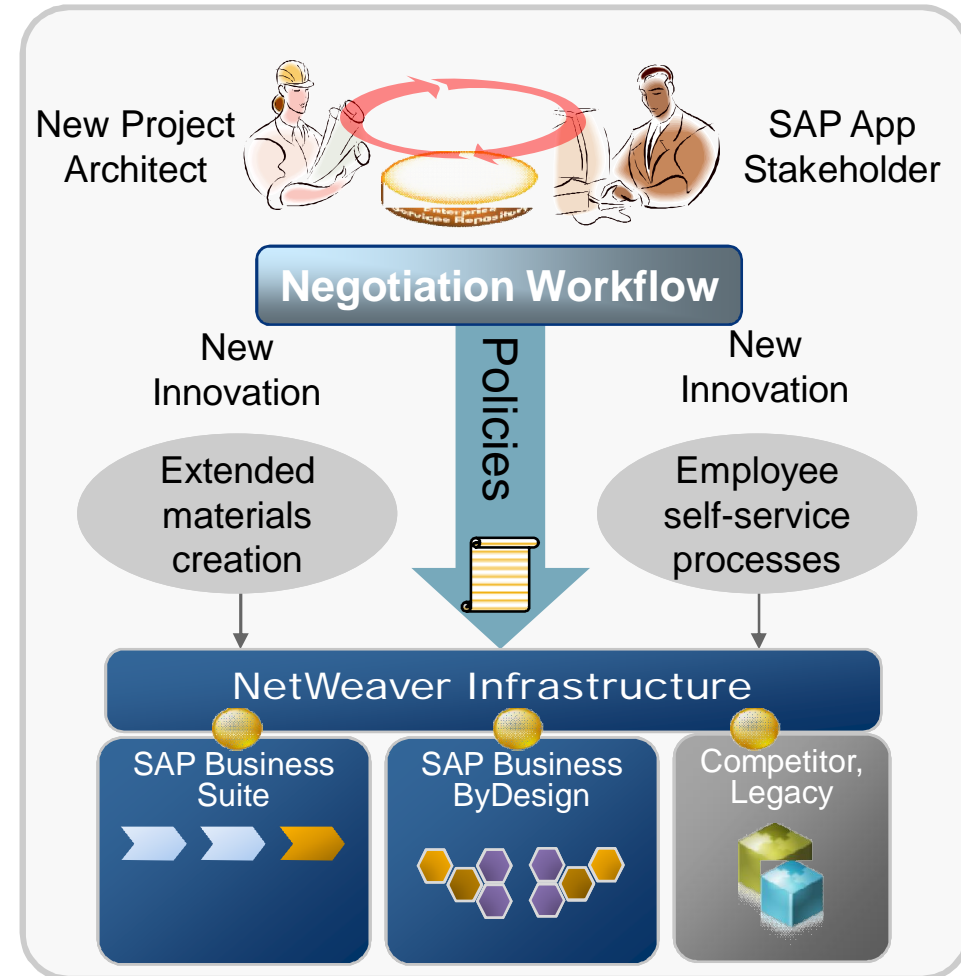


- Comprehensive services portfolio enable customers to execute their IT strategy
- Services can be bundled based on customer maturity and needs
- Reduced risks through end-to-end solution operations, Run SAP, mission critical support and the SAP global support backbone

Safe Consumption with Negotiation and Enforcement



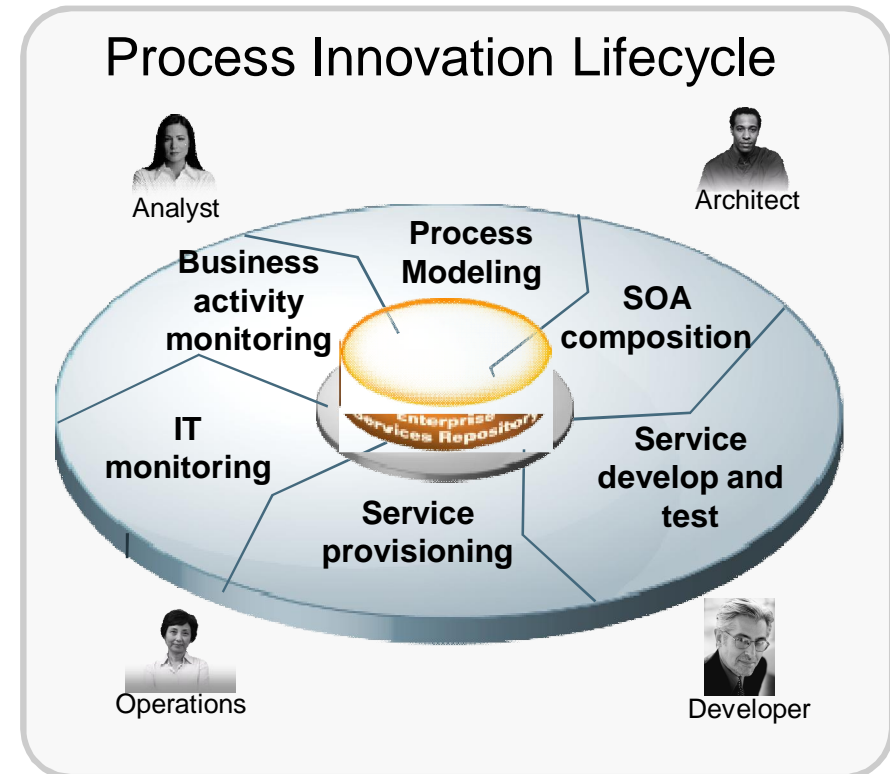
- Negotiate access with stakeholders
 - SAP App stakeholders with owners of new process innovation projects
 - Negotiation workflow and generation of policies
- Generate policies from negotiated behavior
 - Performance SLAs – response times, throughput
 - Security – user authentication, authorization, privacy
- Enforce policies at run-time



Innovation without compromises for a more flexible, agile organization



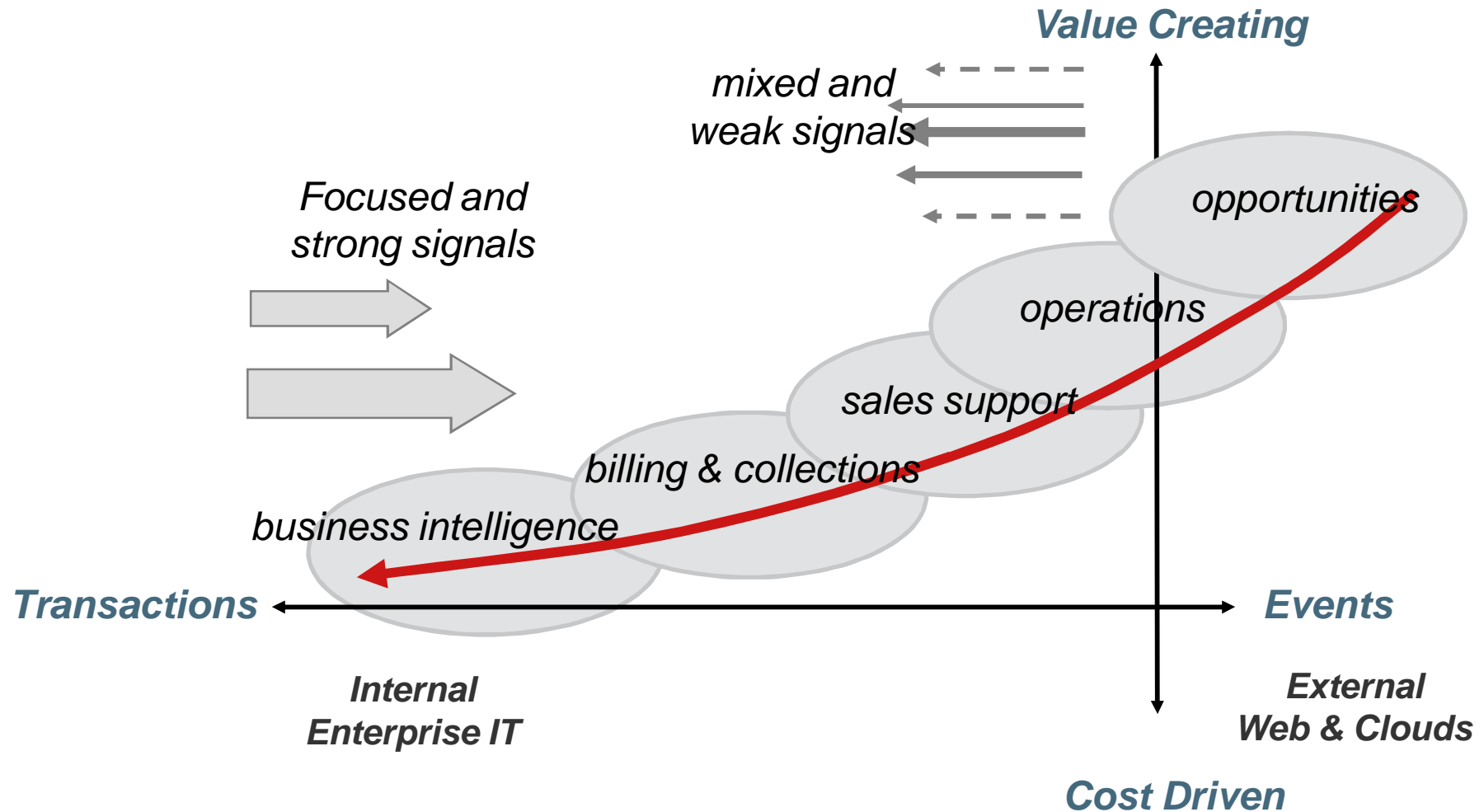
- Unifies all activity around the repository core, with role-optimized tools
- Analysts discover suite processes, model, simulate and document the extensions
- Architects bridge the gap between business and IT, via SOA composition
- Multiple developers skilled in different technologies – BPM, ESB, Java, ABAP, etc.
- Provision services to a distributed landscape
- IT monitoring and BAM with closed-loop optimization



Business and IT collaboration with seamless hand-offs through a holistic lifecycle and role-optimized tools

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The Value Chain from a Clients Perspective – is now external



Original Source and Copy Right; Peter Evans-Greenwood, Unico Pty

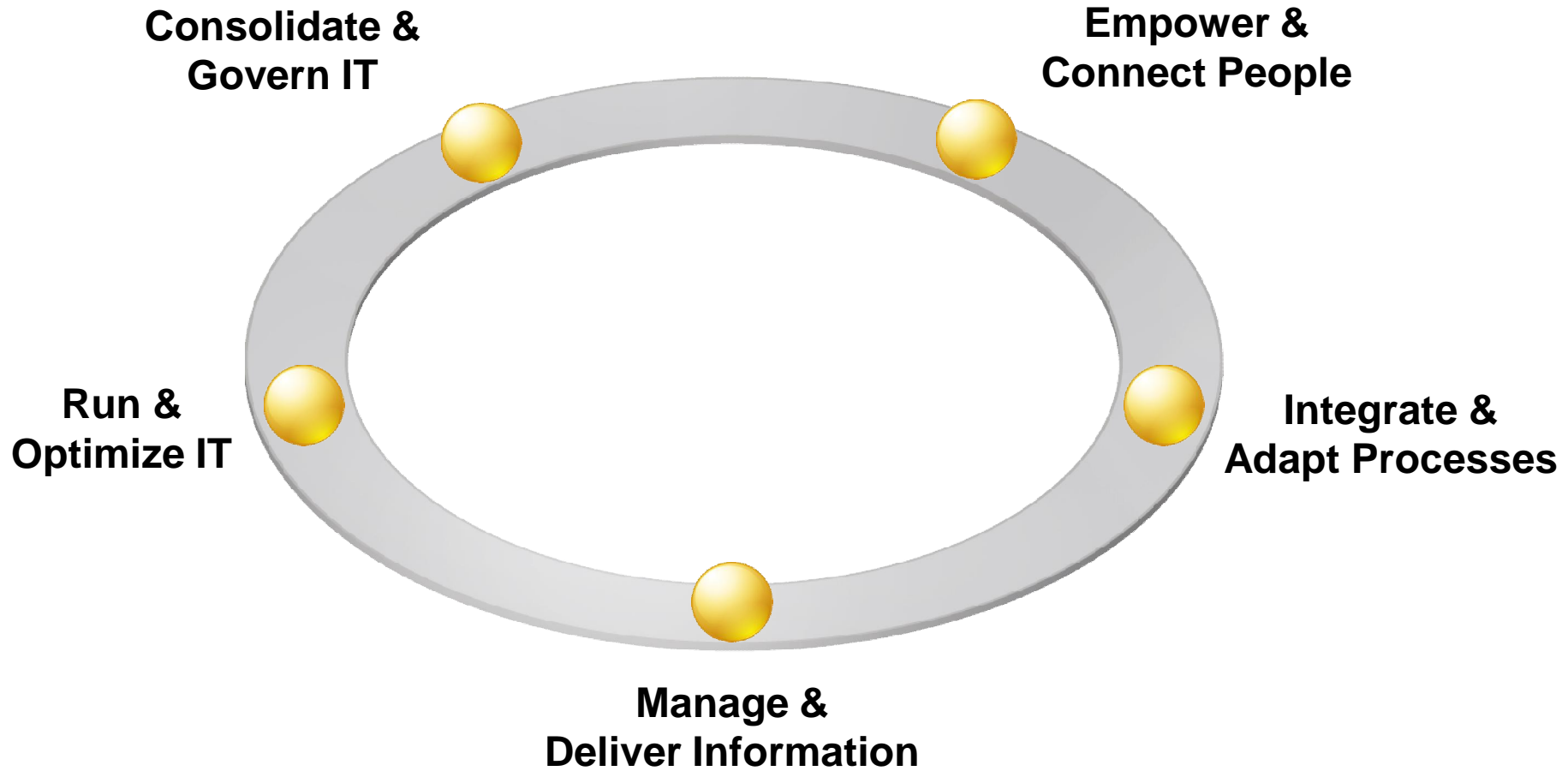
Courtesy of Capgemini

Customers Move Through Many Phases As They Build Business Value Using Technology



A Comprehensive Approach for Strategic IT

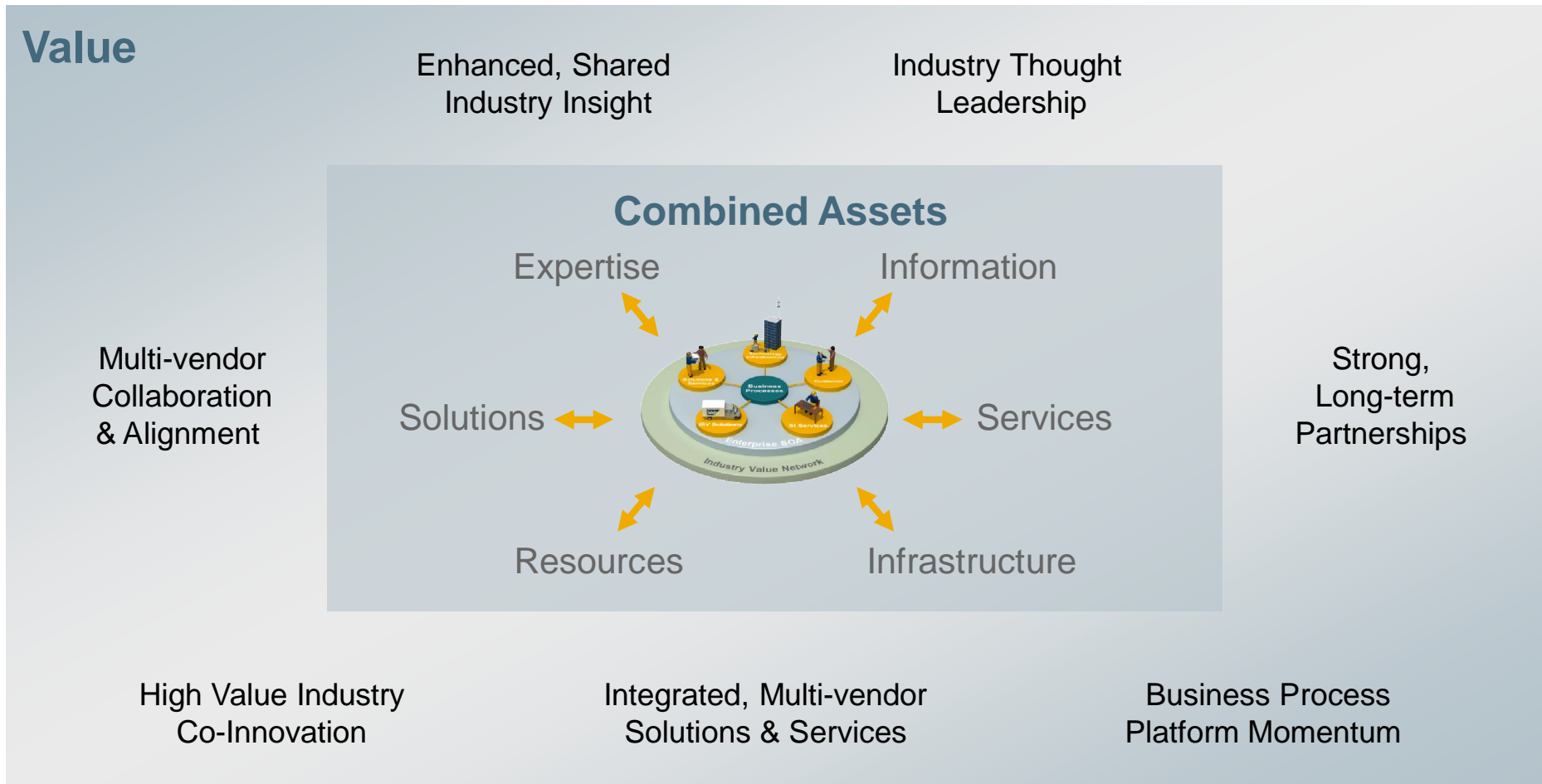
Five Ways SAP Helps IT Provide Efficiency, Insight, and Flexibility



Collaboration Across the Continent – Adoption of Global Standards



Establishing the most valuable ecosystem for African Architects with a new dimension of collaboration, innovation and interoperability



Work towards a common set of standards



simplicity
transnational
trust
commitment
mutual accountability
innovation
teamwork
lean
agility
empowerment
integrity



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SAP Conceptual SOA Reference Architecture

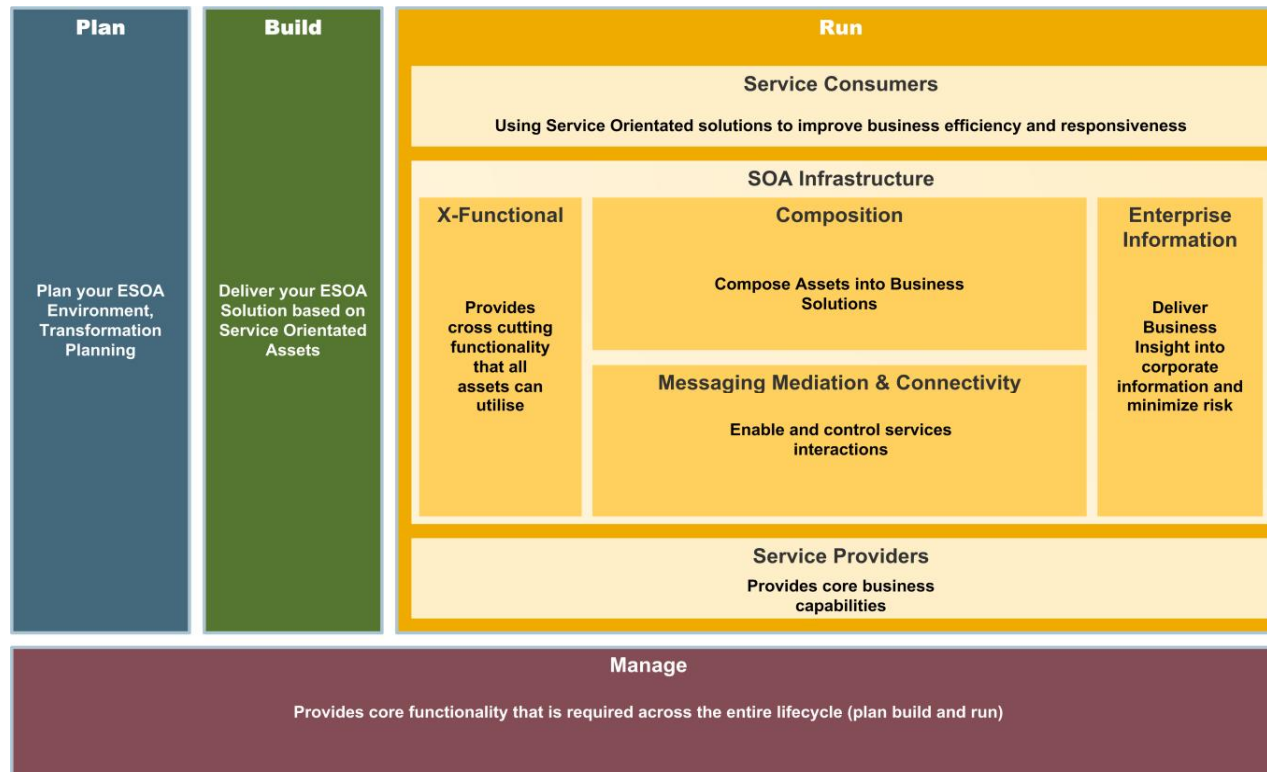


Definition

The reference architecture is a product and vendor agnostic capability map which provides a holistic overview of the building blocks needed for a SOA blueprint.

Value Prop

- Common understanding and approach on SAP agnostic Infrastructure and Services.
- Mapping of SOA Solutions and Service Offerings across LoB's.
- Faster Time to Solution via Composite Application Scenarios
- Support effective white space analysis
- Great Communication tool for customer, partners and vendors

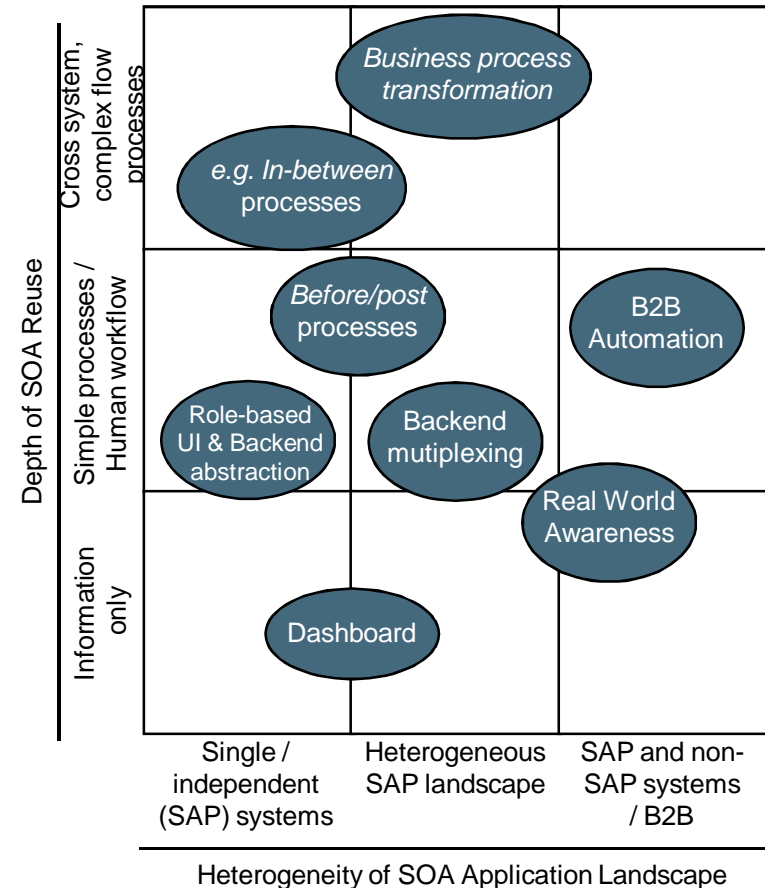


Definition / Description of Composite Application Scenario (aka Project Nemo)



Background

- The Composite Application Scenario's (CAS) were a deliverable of the Research Project "Nemo", conducted by PDEF NW in 2006.
- Goal of NEMO was to collect composite application scenarios as they are implemented or desired by customers and identify recurring themes.
- The description of the CAS was initially done with a 4 dimensional taxonomy, which consist of functional drivers, application landscapes, application topologies and delivery modes, which was simplified to 2 dimensions.
- The CAS enables us to map a "Bill of Materials" (Solutions and Services) for implementation purposes.

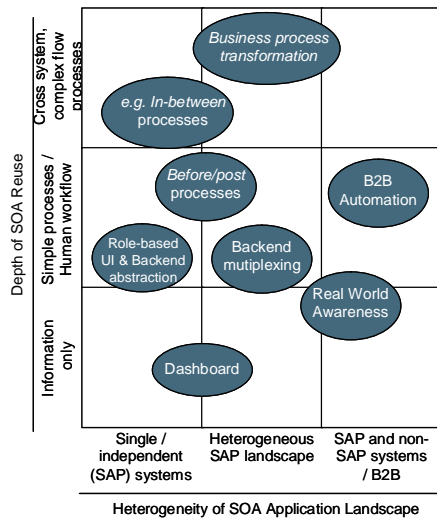


Architecture

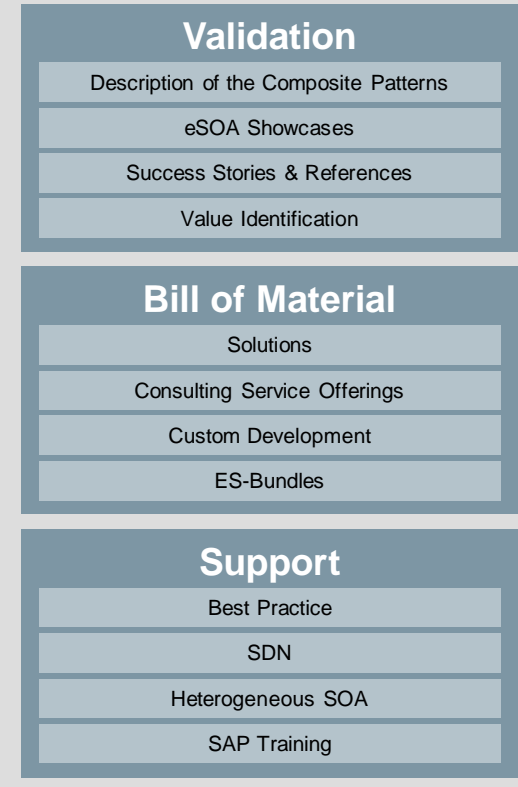
From a bus requirement to an Implementation Outline



Business-Requirements



Customer Deliverables:



- Max 10 Questions to map from Business Process to Composite Pattern

- For each Composite Pattern a set of Reference Architecture.

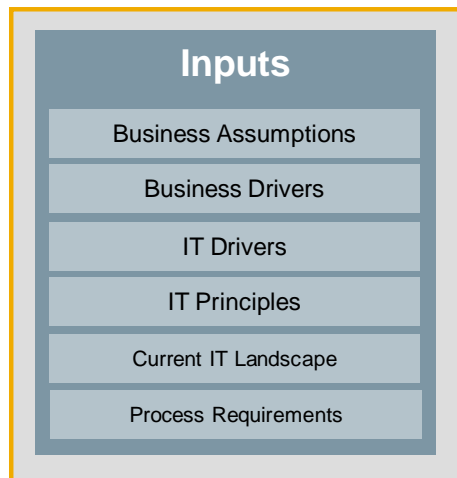
- For each Reference Architecture – defined list of Cross-LOB Offerings (Products, Consulting Services, Showcase Examples)

SOA Reference Architecture

From a business requirement to an Implementation Outline



Business Drives Technology



Customer Deliverables:

Validation

- Description of the Composite Patterns
- eSOA Showcases
- Success Stories & References
- Value Identification

Bill of Material

- Solutions
- Consulting Service Offerings
- Custom Development
- ES-Bundles

Support

- Best Practice
- SDN
- Heterogeneous SOA
- SAP Training

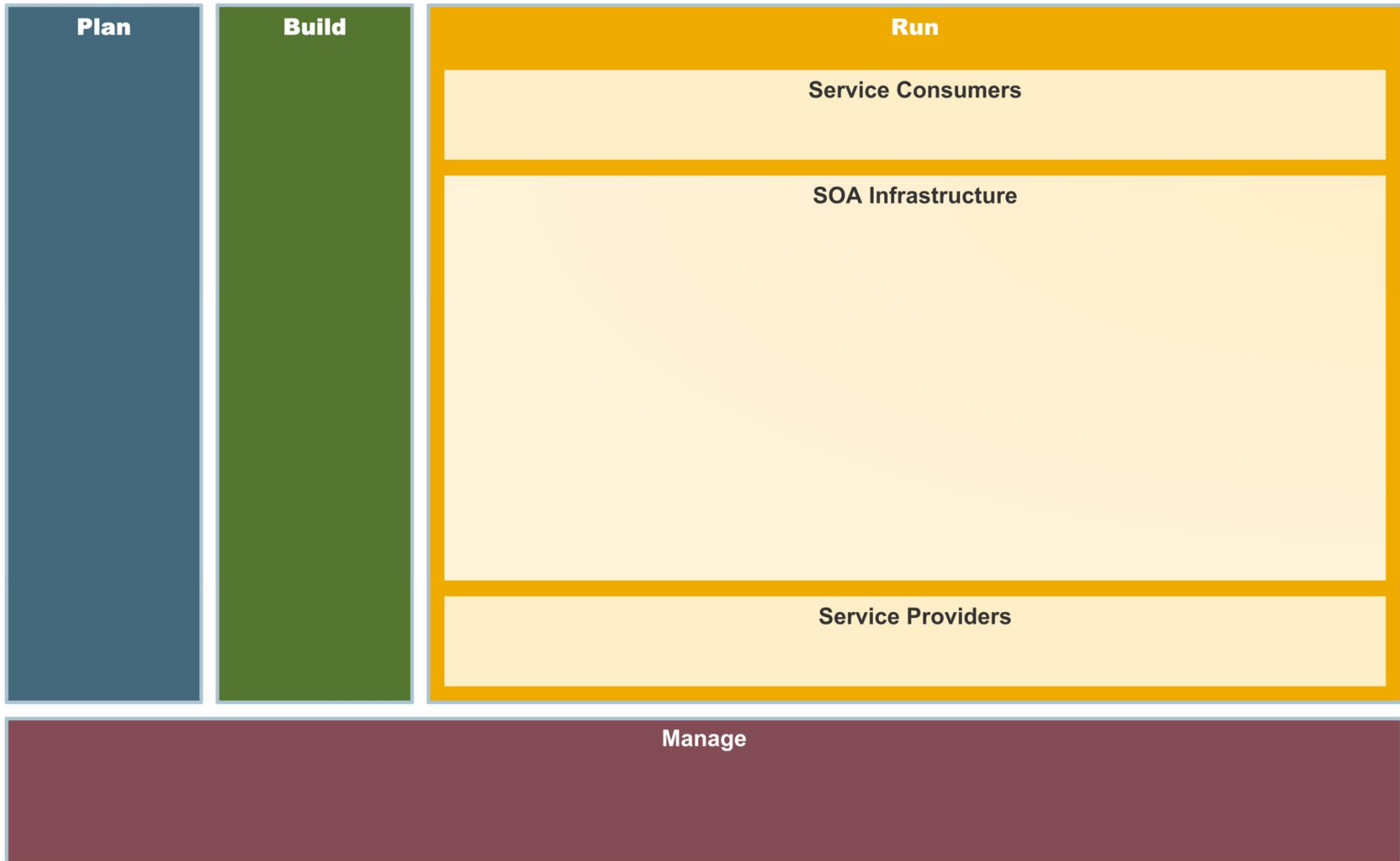
- Define and prioritize the needs – develop a baseline

- For each Process Requirement, identify the needed Capabilities

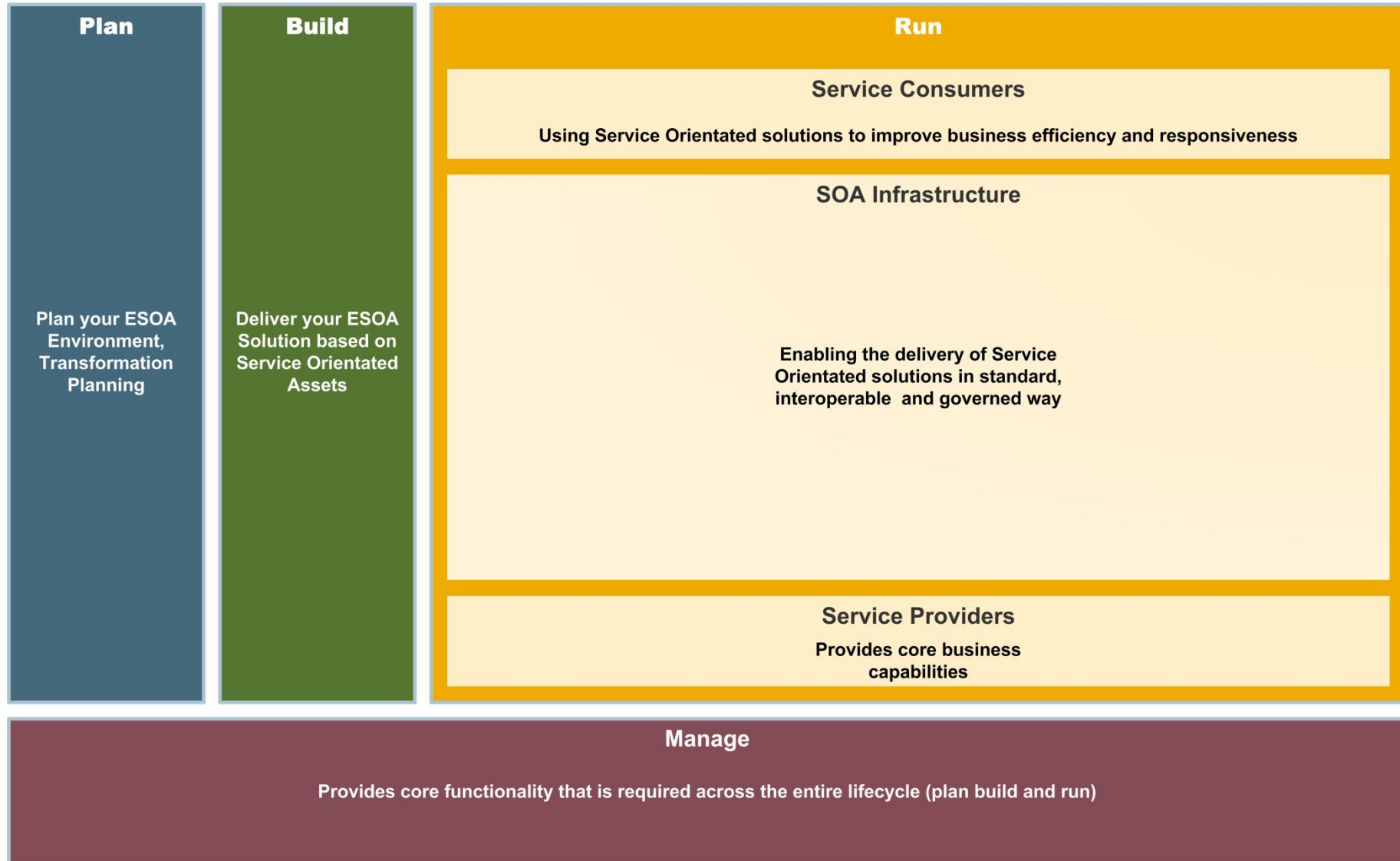
- Map the Capabilities, in order to develop the target landscape

Reference Architecture Conceptual View

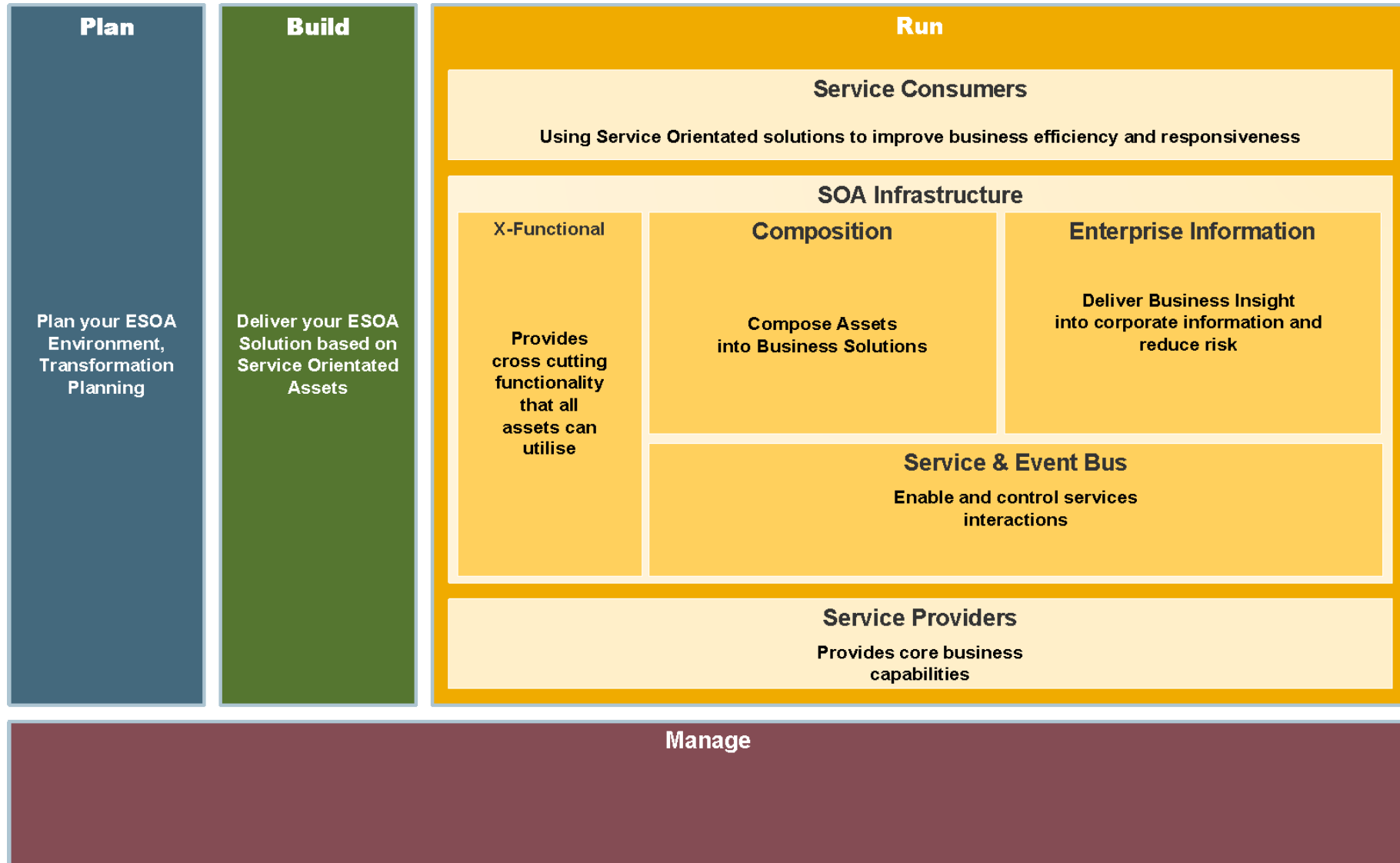
Building Blocks - empty



Reference Architecture Conceptual View Building Blocks

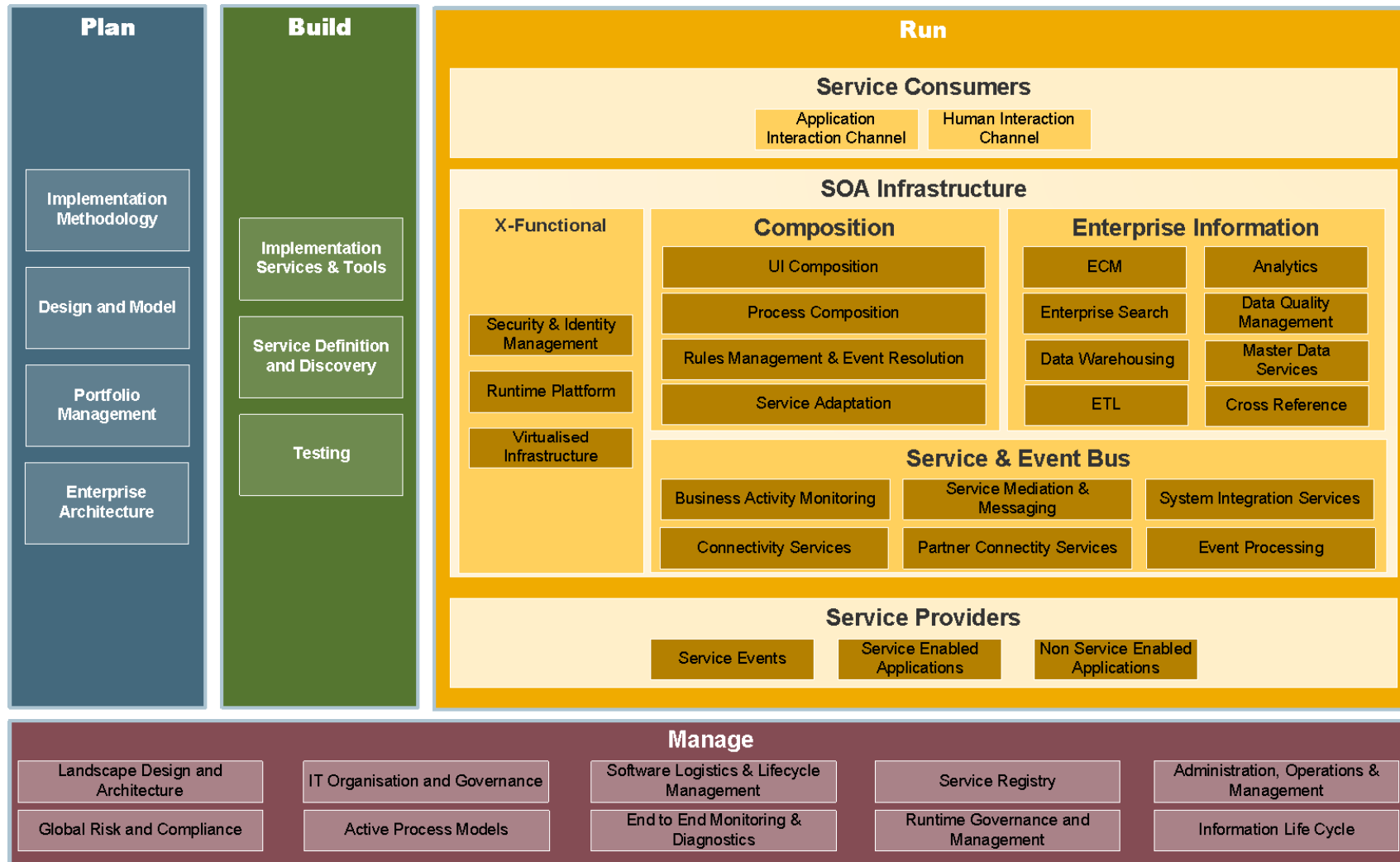


Reference Architecture Conceptual View Simplified View



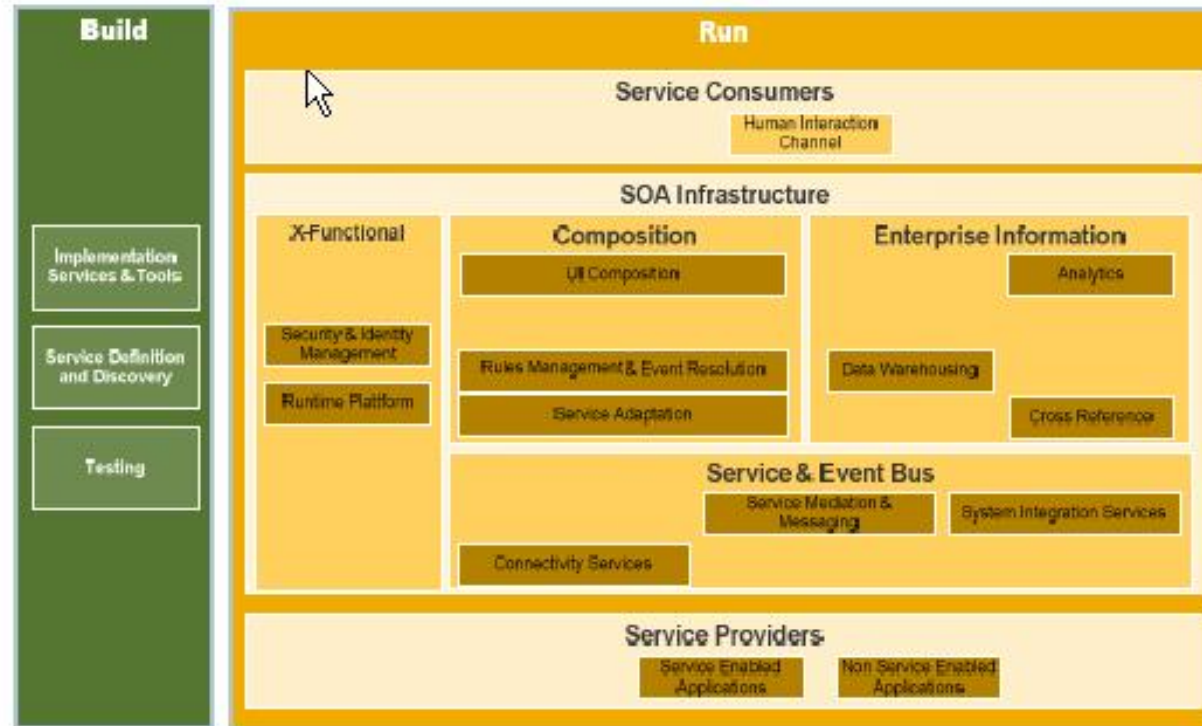
Reference Architecture Conceptual View

Detailed View



SAP SOA Process Pattern I

Minimal Landscapes - UI Dashboard Composite



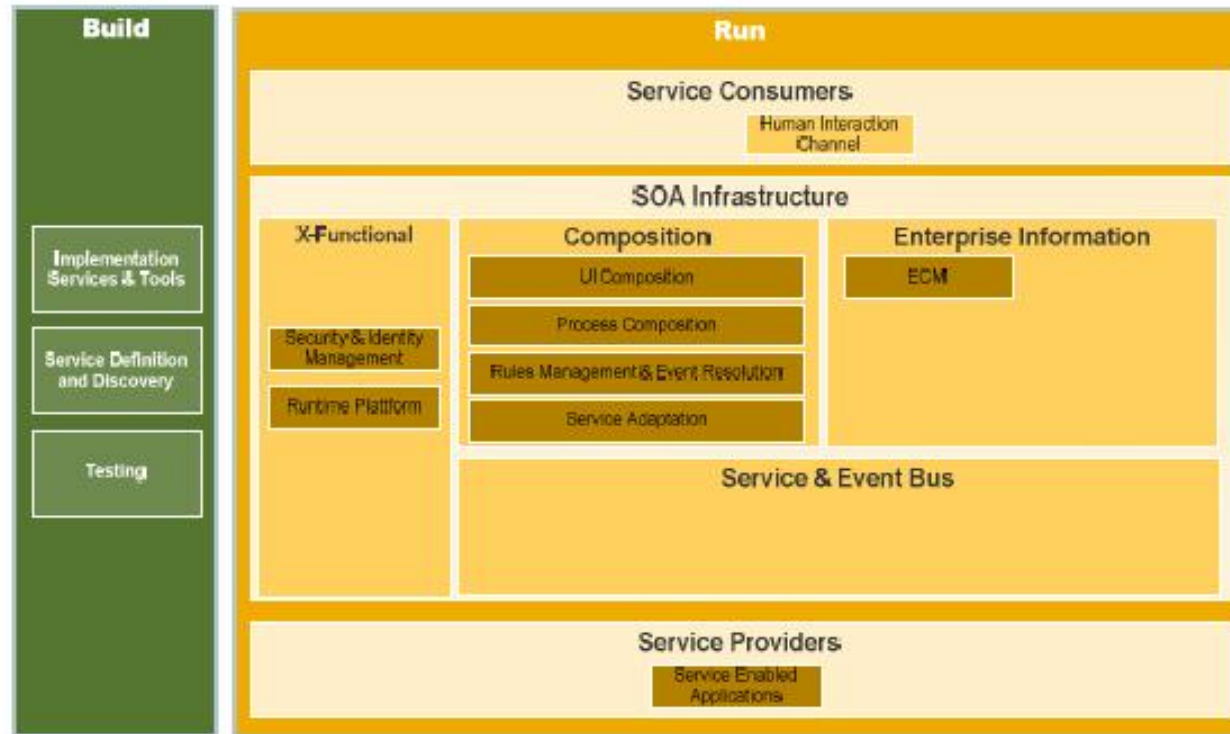
** Minimal conceptual footprint for a UI oriented dashboard Composite **

* Non service enablement needed * Multiple S2S access *

* Tx & Analytical View / EIM needed * BRM automating decisions *

SAP SOA Process Pattern II

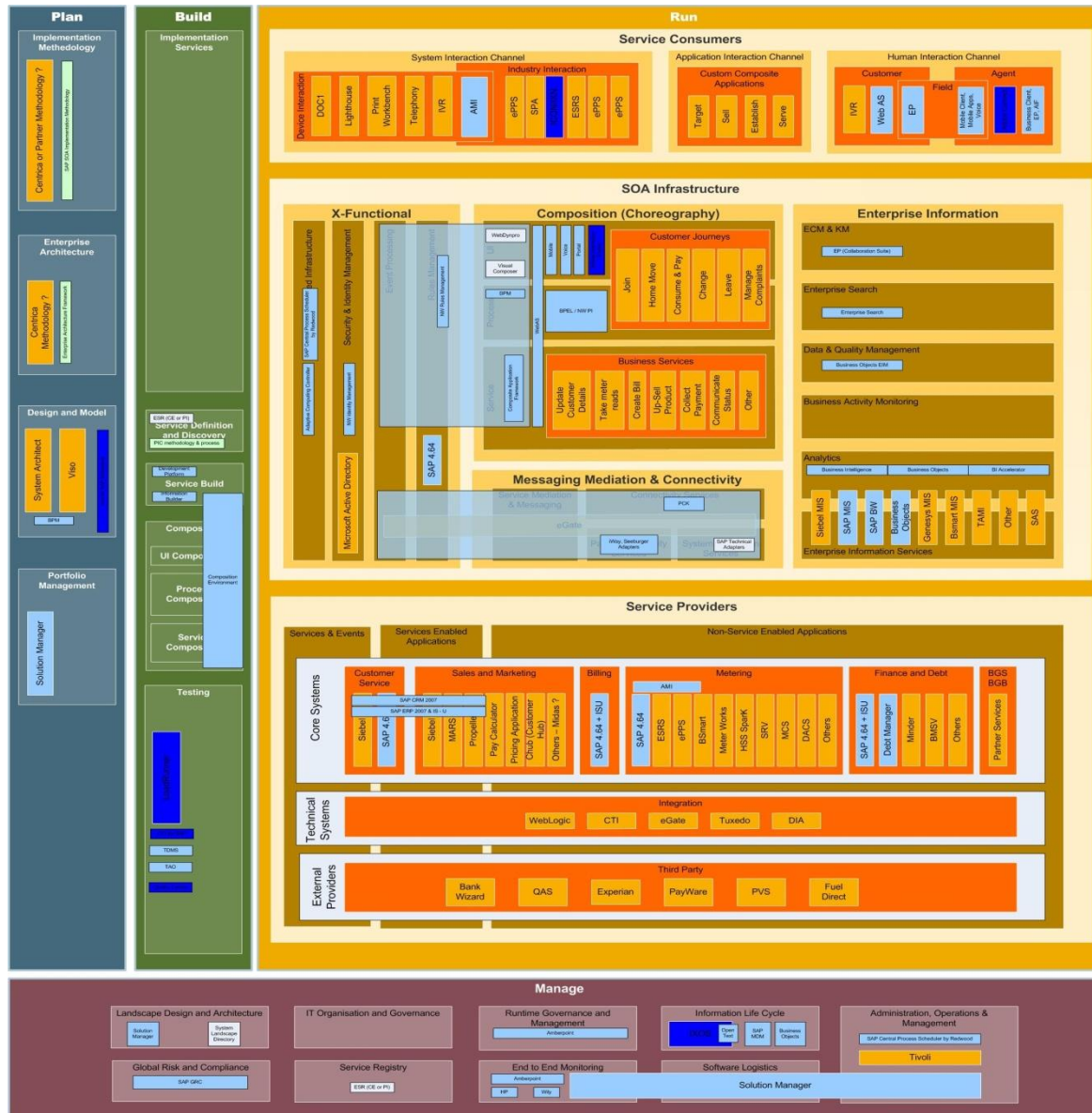
Minimal Landscapes – Before / Post Processes



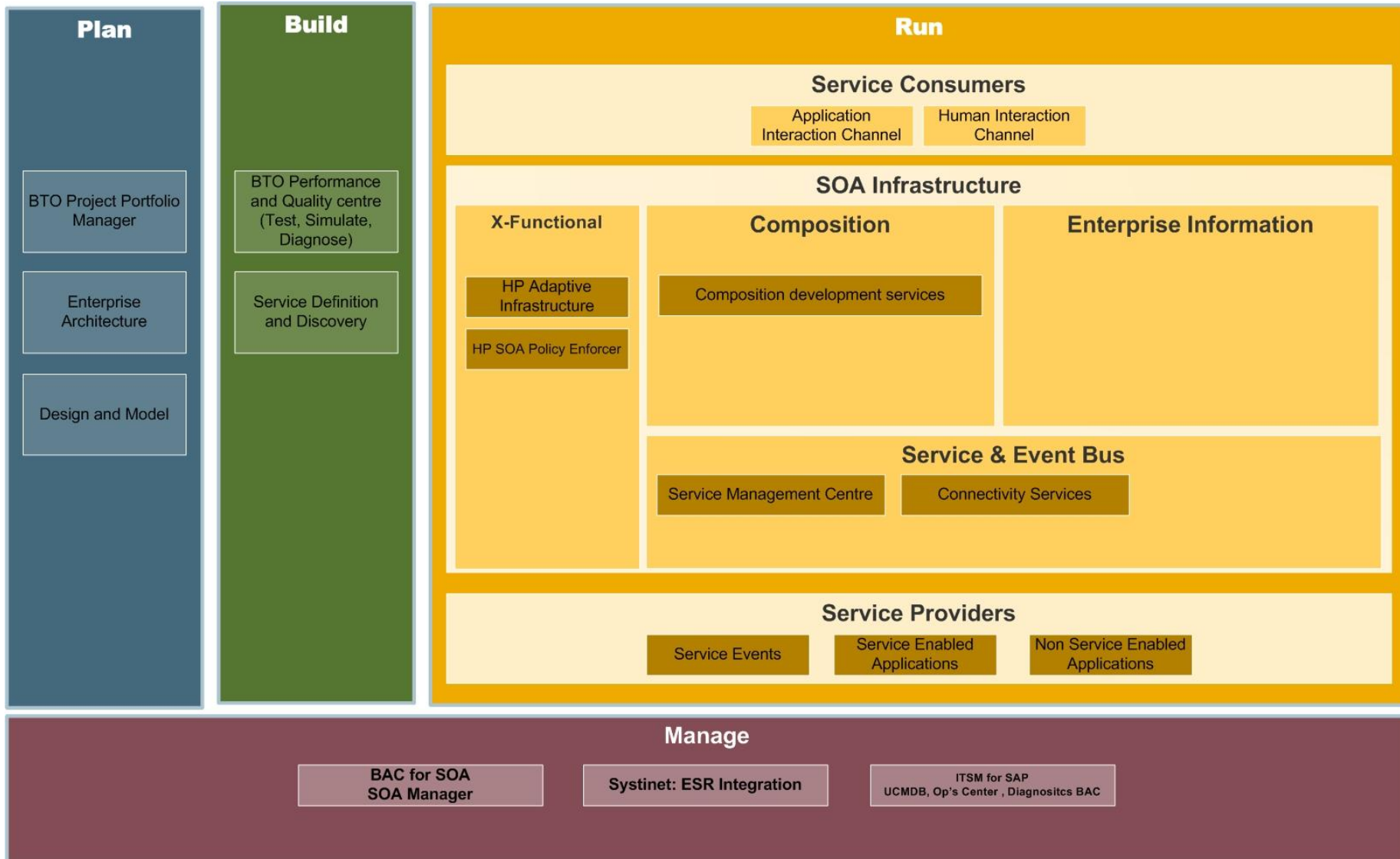
** Minimal conceptual footprint for common Workflow Pattern (Adding processes before / after CORE processes)**

* Predefined processes from SAP Business Suite * Composite Business Processes (H2H) *

Use Case II - Utilities Customer



Use Case III – Software Partner (HP)



Starter Kit for Enterprise SOA

Overview



starter kit for enterprise SOA

Introduction

Topics

- Value and Benefits
- Governance
- Architecture
- Composition
- Operations

Guidance

- Methodology
- Development Handbook

Experience

- Use Cases
- References
- Community

WELCOME TO SAP'S STARTER KIT TO SUPPORT ADOPTION OF ENTERPRISE SOA.

Learn & Discover | Plan & Experience | Build & Deploy | Operate & Improve

CONTENT

- Governance
- Value & Benefits
- Composition
- Architecture
- Operations
- Services / References / Community

Watch the introductory film

METHODOLOGY

Take a look at SAP's methodology, which has been developed to provide you with hands-on guidance throughout your enterprise SOA adoption journey and accelerate the transformation of your business networks.

Click here for more

Objective & Scope

The Starter Kit for enterprise SOA provides **step-by-step guidance for initial SOA projects** with knowledge building blocks including content focused on value and benefits, architecture, governance, composition of services and ongoing operations.

In addition, the kit contains a **methodology** for project managers and hands-on **developer guidance**.

To learn from other user experiences, **references** and customer cases are included as well.

Value for Customer

By providing a "**one-stop shop**" of integrated information, SAP offers customers the value of transparency and step-by-step guidance needed for an **efficient and successful start** with enterprise SOA.

Media Distribution

Info in SDN: <https://www.sdn.sap.com/irj/sdn/bpx-enterprisesoa>

Download: <https://www.sdn.sap.com/downloads/Subscriptions/StarterKit/StartKit.zip>

CD-ROM: <https://www.sap.com/shop>

Thank You! – Questions?





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