Why is Design Time Governance key for the success of SOA?

Rathish Balakrishnan

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Agenda

1. **Design Time Governance – An overview**
2. SAP – A case study
3. Demo
4. Summary

Three Typical SOA Failures
80% Failure Rate

"[T]hrough 2010, the biggest barriers to SOA adoption will be non-technical issues related to inadequate governance…"

Michael Barnes & Paolo Malinverno
Research Vice Presidents,
Gartner, Inc., November 2006

Wild West SOA

- **No harmonization, lots of duplications, low re-use**

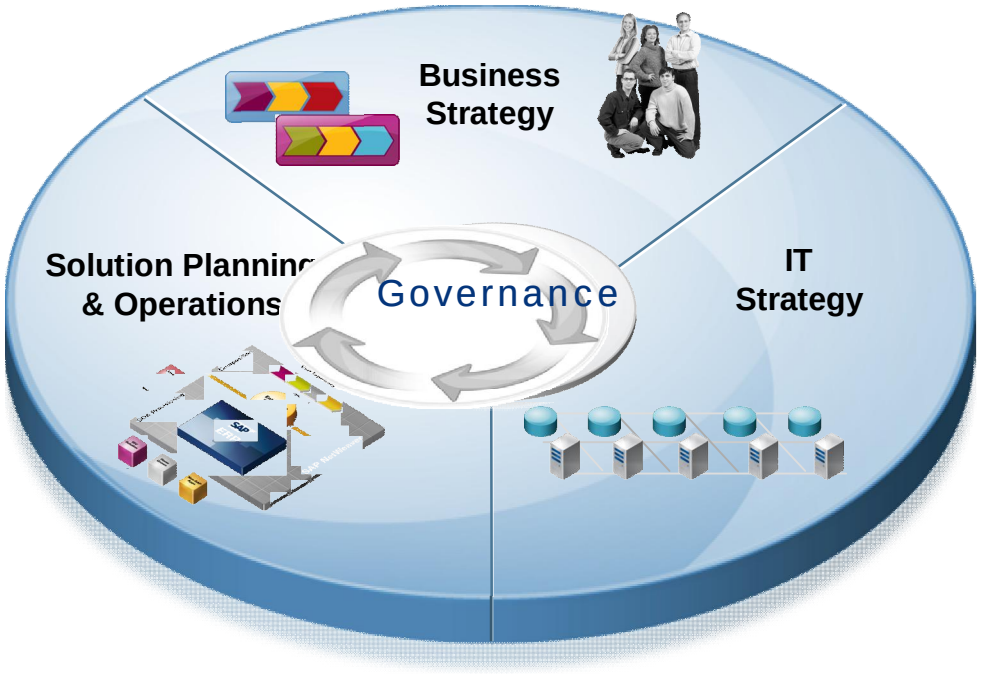
Shelfware SOA

- **Well-designed SOA, missing buy-in, low (re-)use**

Blown Budgets and Deadlines

- **Working SOA, alignment and skill set / methodologies underestimated, many lessons hard learned**

Enterprise SOA Governance

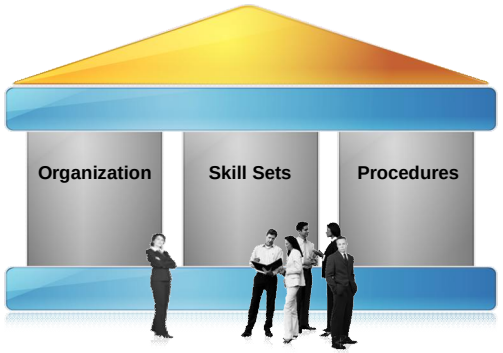


> **Governance refers to the processes that an enterprise puts in place to ensure that things are done right… SOA governance refers to the processes used to govern adoption and implementation of SOA.”**

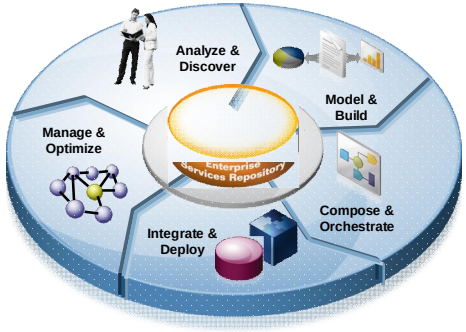
Anne Thomas Manes,
Vice President and Research Director,
Burton Group

Enterprise SOA Governance
The safeguard to Enterprise SOA

Organizational Governance



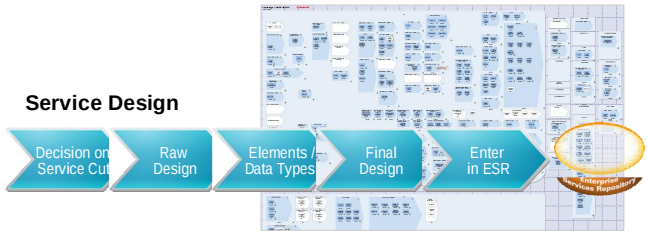
Automation & Lifecycle Mgmt.



Governance

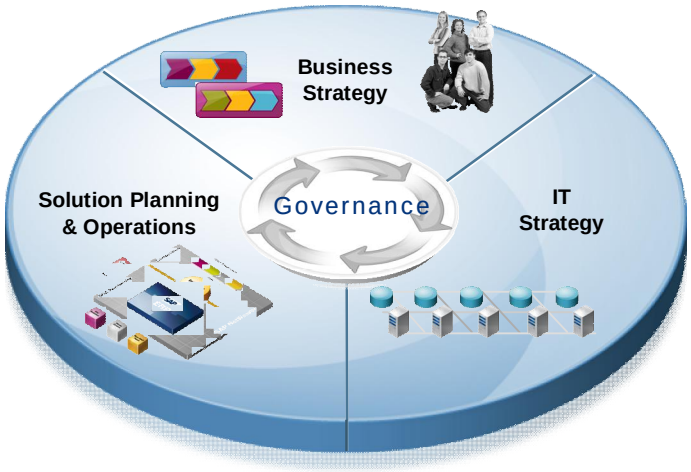
Community

Design & Modeling Methodology



Enterprise SOA Governance

Aligning people, processes, tools and design methodology to the strategy



Realized Enterprise SOA benefits

by aligning people, processes, tools and design methodology to the strategy

Safeguarded Enterprise SOA projects

by installing procedures, principles and roles to ensure right execution

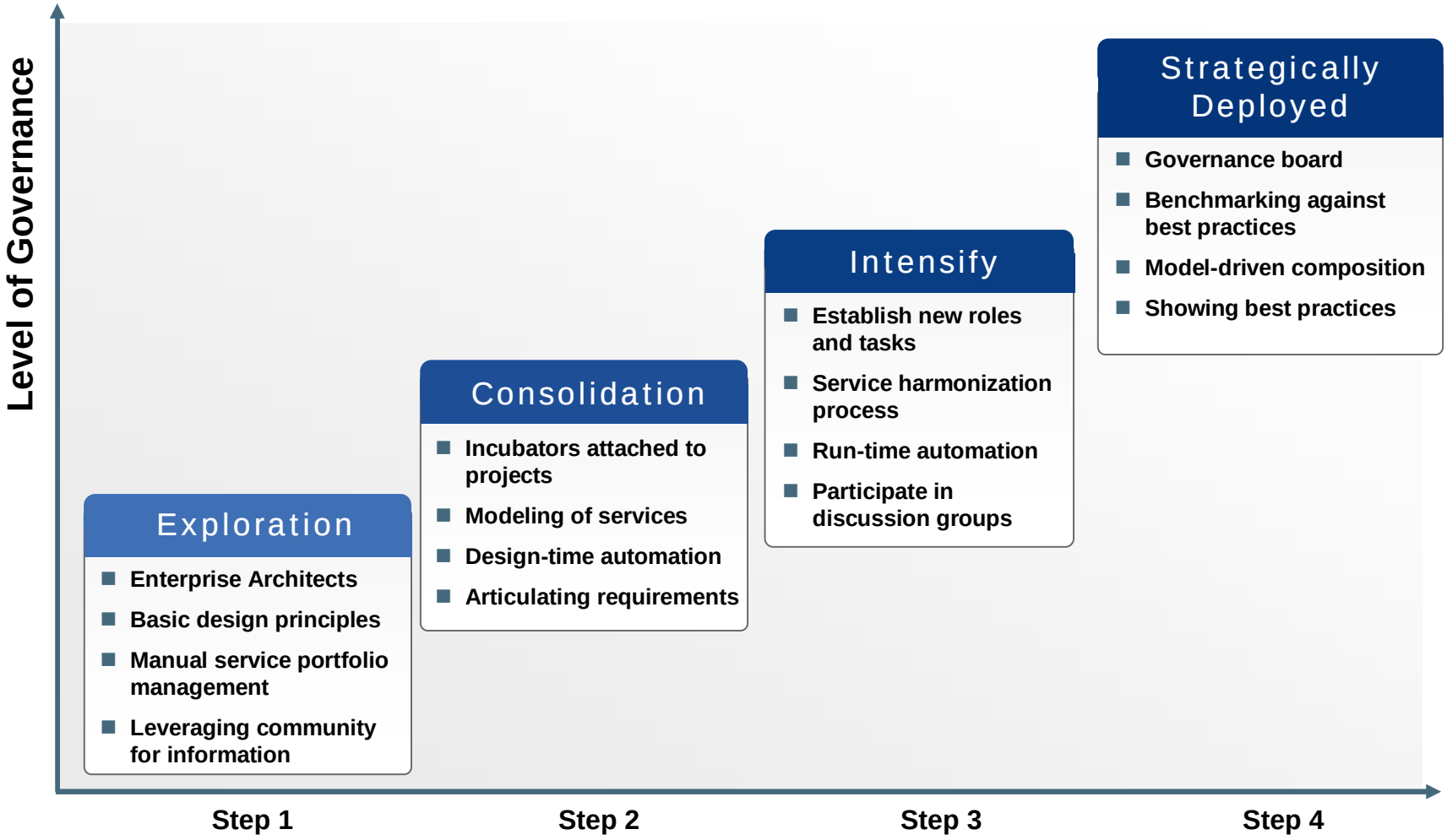
Accelerated learning curve

by tapping into best practices of the communities

Re-usable services for the enterprise

by leveraging methodologies, models and tools for adherence and automation

Phased Implementation of Enterprise SOA Governance



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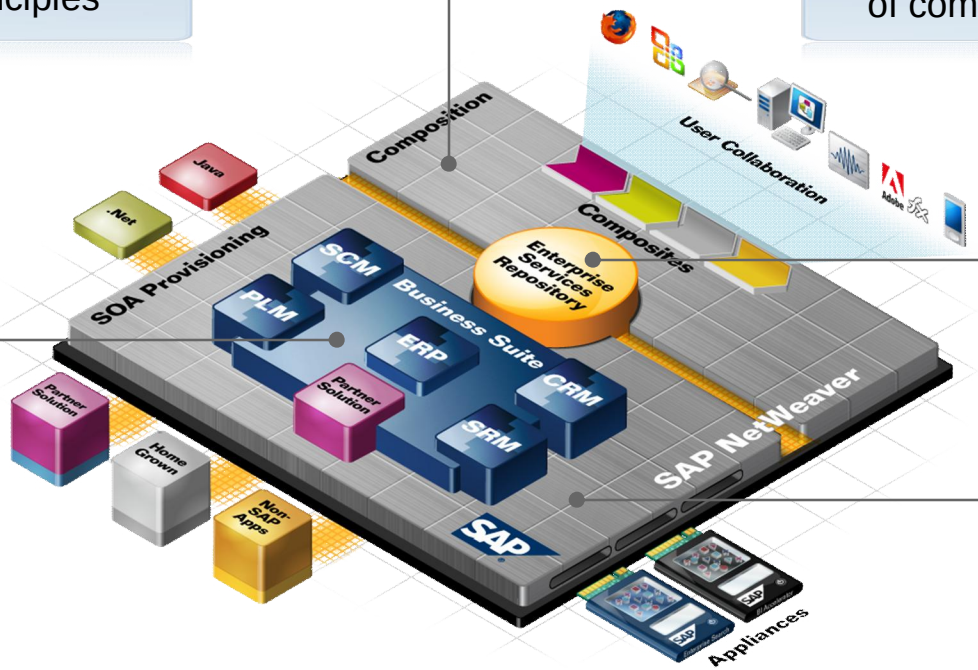
SAP's Business Process Platform delivers

… a composition environment

Rapid modeling and deployment on enterprise SOA principles

… enterprise services definitions

simplified discovery and governance of composition-ready services



… process components

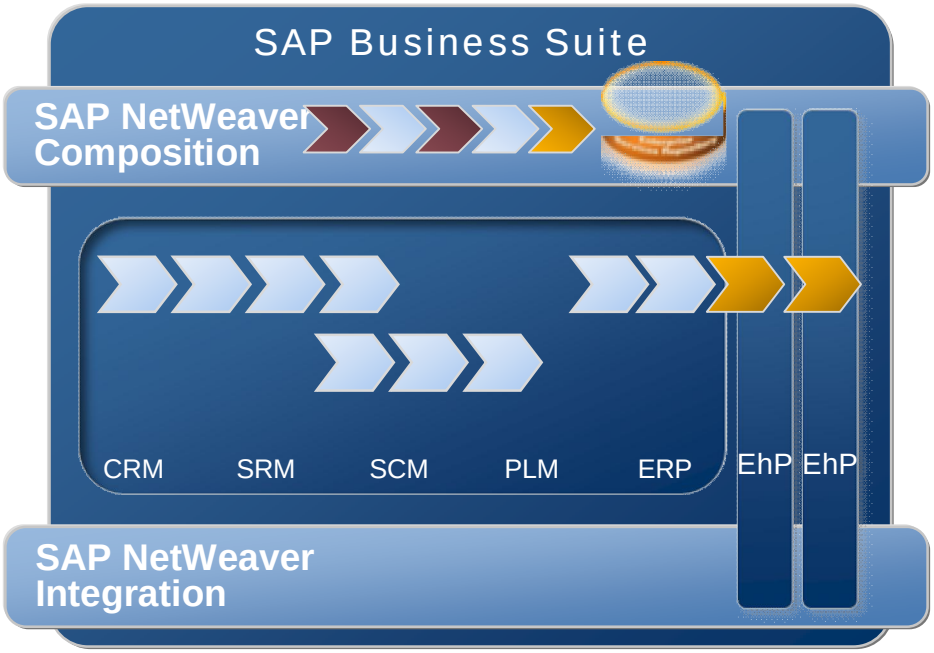
with 30+ years of best practices from 26 industries built-in

… an integration platform

for robust provisioning and integration of heterogeneous applications

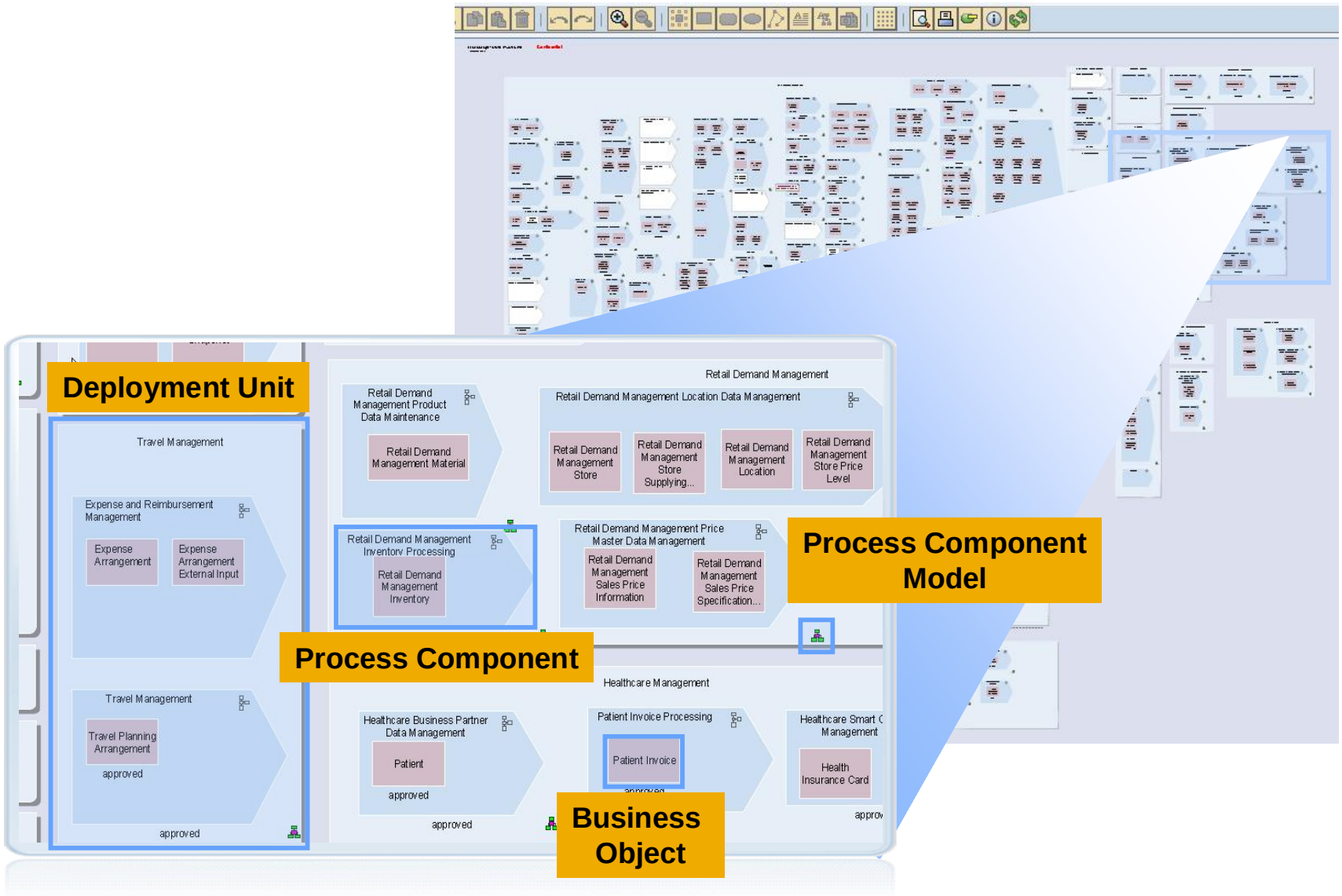
Where are we today?

SAP Business Suite: cross-industry and service-enabled

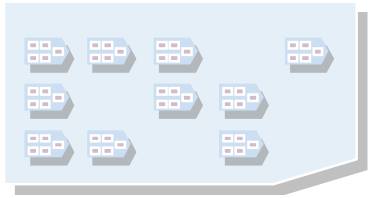


- 2,800+ ready-to-run services
- Best practices for 24 industries
- SAP Enterprise services are defined across ERP, CRM, SRM …
- Distributed definition and development of the Services
- Stability of definition extremely vital to ensure adoption of services
- Harmonization across applications necessary for building cross processes

Enterprise Services are delivered along rich semantic models



Service Definitions are based on



Deployment units

Are groups of decoupled process components that can be operated separately.

Process component

Process components

Group business objects. A business object belongs to exactly one process component. Process components describe a part of the value chain. That part is typically executed by one department (in large companies).

<Business Object>

Business objects

Represent a specific view on well-defined and outlined business content. Business objects are defined free of business functionality redundancies.

<Service Interface>

Service interfaces

Are grouping service operations.

<sync. Service Operation>

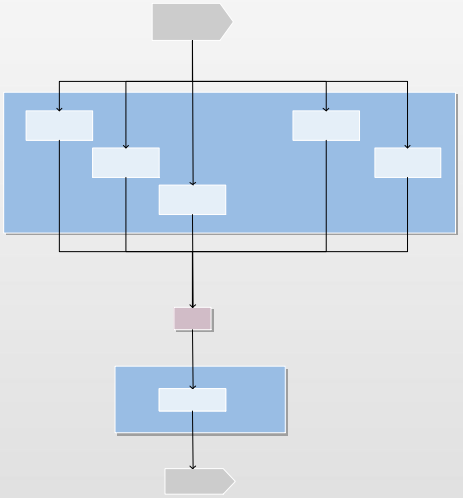
Service operations

Each belongs to exactly one business object. A business object has multiple operations.

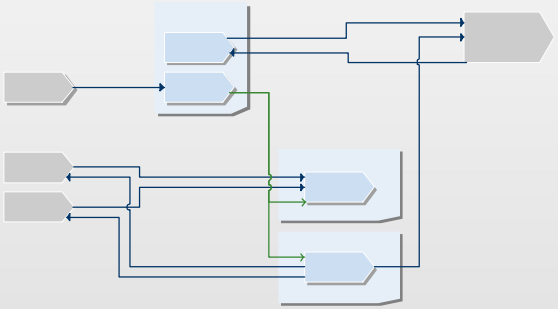
Service Modeling Roadmap

Rich models to support end to end service definition process

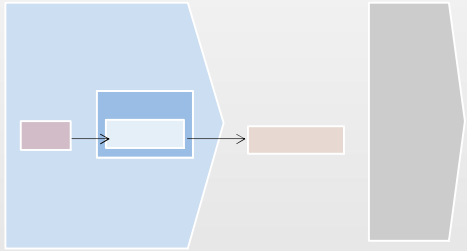
Process Component Model



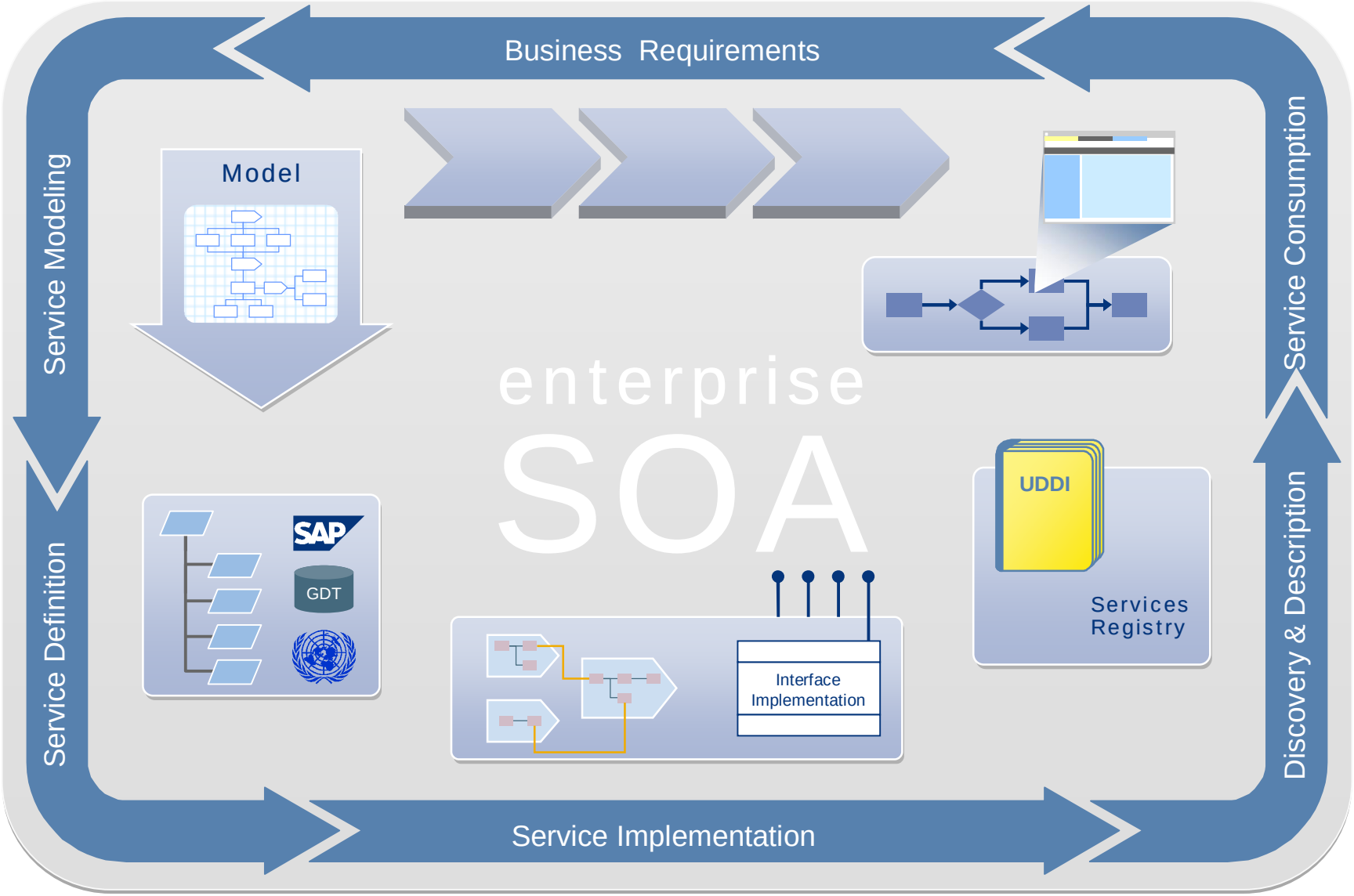
Integration Scenario Model



Process Component Interaction Model



enterprise SOA development lifecycle



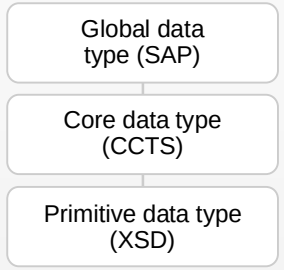
Governance for Enterprise Services

Semantics and taxonomy

- **Harmonized enterprise model:** same understanding between service consumers and service providers
- **Technical** (transport protocols, security standards, formats, and so on)

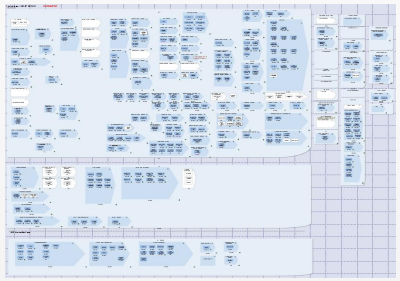
GDTs

- Companywide defined data types based on international standards
- Semantic building blocks for interfaces



SERVICE DEFINITION AND IMPLEMENTATION

Common modeling and implementation guidelines proven by SAP development are the basis for every (new) service development



Architectural guidelines and standards

The ES Repository is the central repository in which service interfaces and enterprise services are modeled and the corresponding metadata is managed throughout the life cycle

ES Repository

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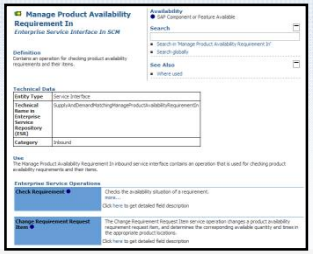
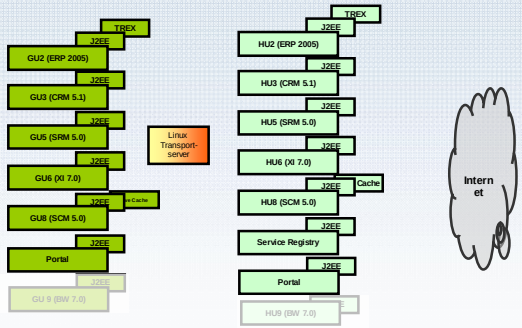
ES Workplace - Browsing Enterprise Services

Where can I find out which enterprise services are provided by SAP?

Where are they documented?

Where can I test-drive them?





Via the ES Workplace SAP shares the information on the available SAP enterprise services with the community and there is access to SAP systems where you can test-drive SAP enterprise services

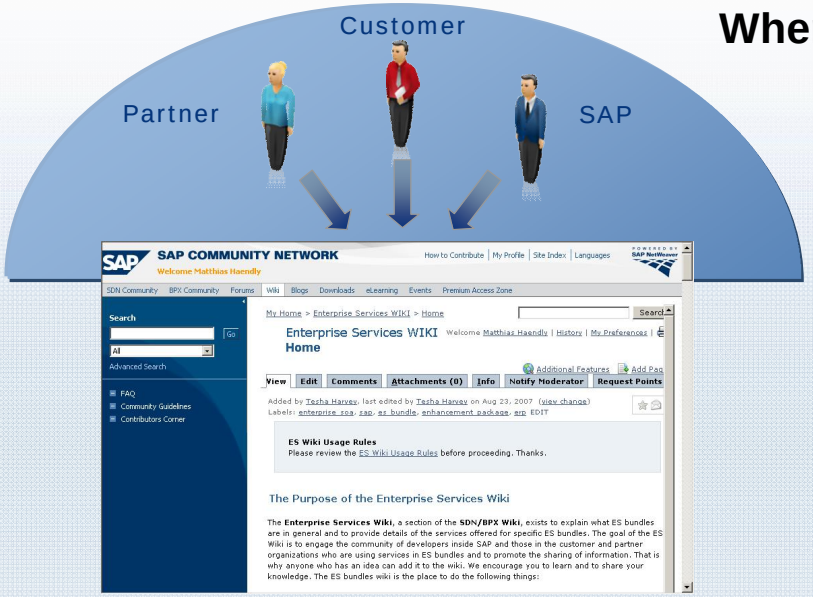
View them in www.sdn.sap.com ➔ Enterprise SOA ➔ Explore Enterprise Services (➔ ES Workplace)**

***Disclaimer: SAP reserves the right to change the ES bundles listed without prior notice.**
****Some of the bundles listed on this page can be previewed in the ES Wiki.**

Enterprise Services Wiki – Description for all ES bundles

Collaboratively describe the scope & value of enterprise services use cases

What can I do with them?
Where is their value?



https://www.sdn.sap.com/irj/sdn/wiki

The ES Wiki is the place in SDN where the value of enterprise services is described in a business context.

Here you find “blueprints” for implementing enterprise SOA

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Key Learnings and Recommendations

1. Start with your portfolio decision and leverage existing projects

> **We can leverage a project that's underway … and avoid a big-bang approach from an architecture standpoint."**
>
> **Matt Stultz,**
> The Home Depot, Inc.

2. Ensure business and IT alignment to get buy-in and to achieve business value

> **We have to enable that change and align to those business imperatives. ... The better we get …, the more we'll have an impact at a greater level to the bottom line of the business, ..."**
>
> **Pete Lagana,**
> Wyeth

Key Learnings and Recommendations (cont.)

3. Install enterprise architects and an enterprise services repository to avoid wild west SOAs

> **So you really need one who makes the design, who takes care about the design, who also takes care about that people do it always in the same way."**
>
> **Mechthild Hauser,**
> Burda Digital Systems GmbH

> **… without this repository and registry it's really like SOA in the wild. You've got duplication of effort, same services are being created and you don't know about it, ..."**
>
> **Kevin Sprague,**
> Wyeth

Key Learnings and Recommendations (cont.)

4 Build and adhere to an SOA design methodology to drive re-use

> **When we design business services out there …, the level of granularity that we define that service at is very important."**
>
> **Matt Stultz,**
> The Home Depot, Inc.

> **If you are not taking care about these designing rules …, it will end in not having the best output of reusability. Then you are getting more and more services, but the services are not able to be reused."**
>
> **Mechthild Hauser,**
> Burda Digital Systems GmbH

Key Learnings and Recommendations (cont.)

5 Leverage communities to tap into best practices and accelerate the learning curve

> **So we're learning a lot from each other. And actually SAP enabled us to talk to each other ...”**
>
> **Johann Smessaert,**
> ING

> **The information is shared … and by working in this fashion, you have much faster innovation.”**
>
> **Herman Singh,**
> Standard Bank

Key Learnings and Recommendations (cont.)

6 Harvest the existing applications for re-usable services out of the box

> **SAP is doing a great job of service enabling their applications, so you get services out of the box."**
>
> **Pete Lagana,**
> Wyeth

> **SAP delivers a lot of services on ERP 2005 footprint. We should be able to take those services, because at the end of the day those services support SAP standard business models ..."**
>
> **Matt Stultz,**
> The Home Depot, Inc.

"SOA governance isn't
an option — it's an imperative."

Paolo Malinverno, Research Vice President, Gartner, Inc., January 2006

Re-use does not just happen. Re-use has to be planned and worked at.

> **… embrace change while you're able to. Don't wait until it's too late to change, when maybe you don't have the resources and the strength to initiate change in your organization. So be willing to change and adapt while you're strong."**
>
> **Kevin Sprague,**
> Wyeth

Start Your Enterprise SOA Governance now!

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Product Manager, SAP Labs India