

IBM SOA Technology Summit

Moving Ahead With SOA SOA: impact on IT Governance

Pascal Paisant SOA Infrastructure Solution Leader IBM Global Technology Services

SOA on your terms and our expertise





Summary

The context : SOA infrastructure & IT production

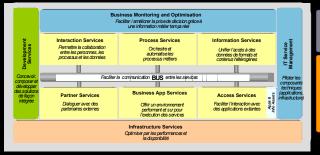
IT governance, processes and organization

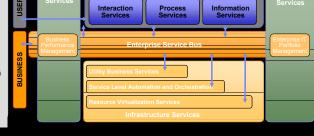
How do I start?



SOA transformation projects deal with functional and operational architecture and with IT development and IT production governance.

- The SOA projects must deal with transformation for:
 - functional architecture
 - operational architecture

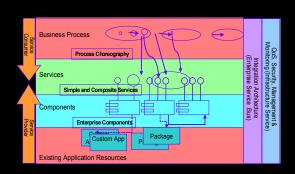




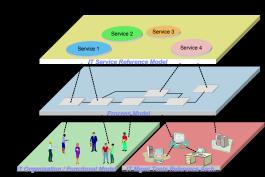
SOA Reference Architecture

On Demand Operating Environment Architecture

- and with governance, organisation and processes for:
 - IT development
 - IT production



IT development

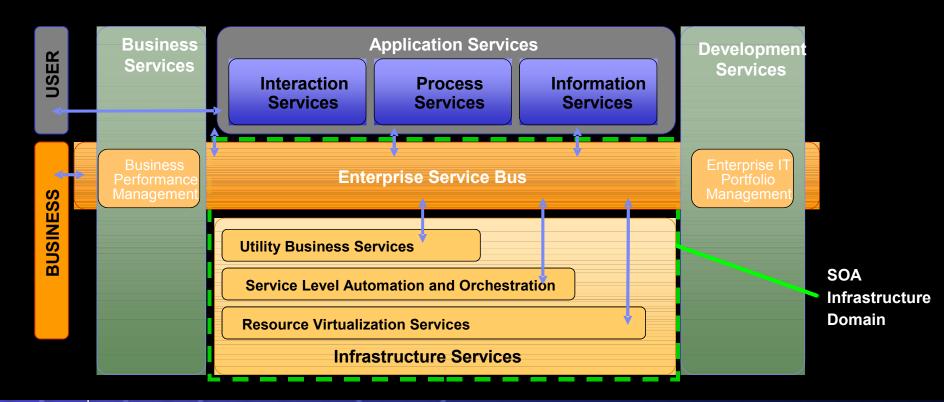


IT Production



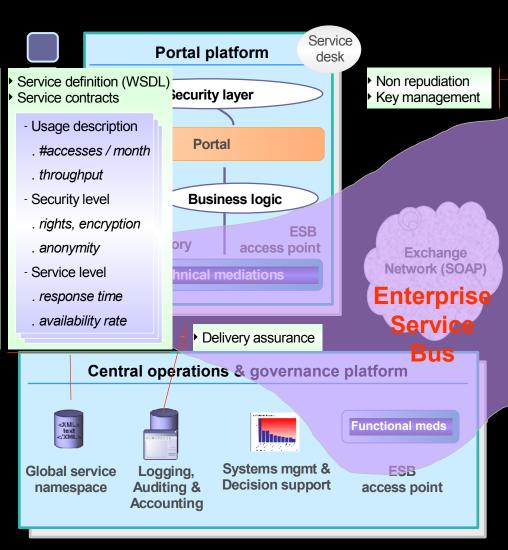
The SOA Infrastructure environment is part of the On Demand Operating Environment, which itself is based upon SOA design principles.

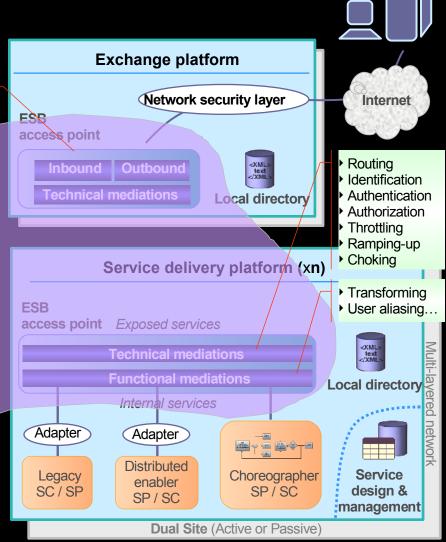
SOA infrastructure is focused on adapting the IT infrastructure layers to enable the functional services layers to function optimally in an SOA.





Generic SOA infrastructure pattern







The context : SOA infrastructure & IT production

IT governance, processes and organization

How do I start?



What is Governance?

It's all part of Corporate Governance

What is IT governance?

Establishing decision making rights associated with IT

Establishing mechanisms and policies used to measure and control the way IT decisions are made and carried out

What is SOA governance?

Extension of IT governance focused on the **lifecycle**of services to ensure the business value of SOA

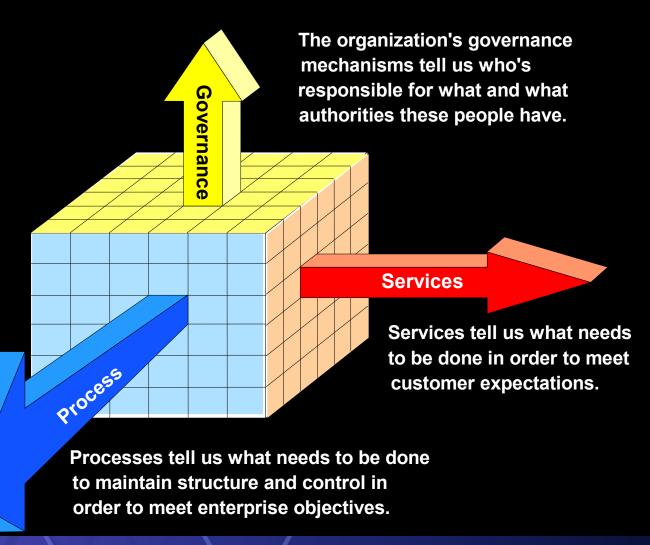


The corporate governance structure specifies distribution the of rights and responsibilities among different participants in the corporation, such as, the board, shareholders and others managers, stakeholders, and spells out the rules and procedures for making decisions affairs. corporate

"OECD April 1999"

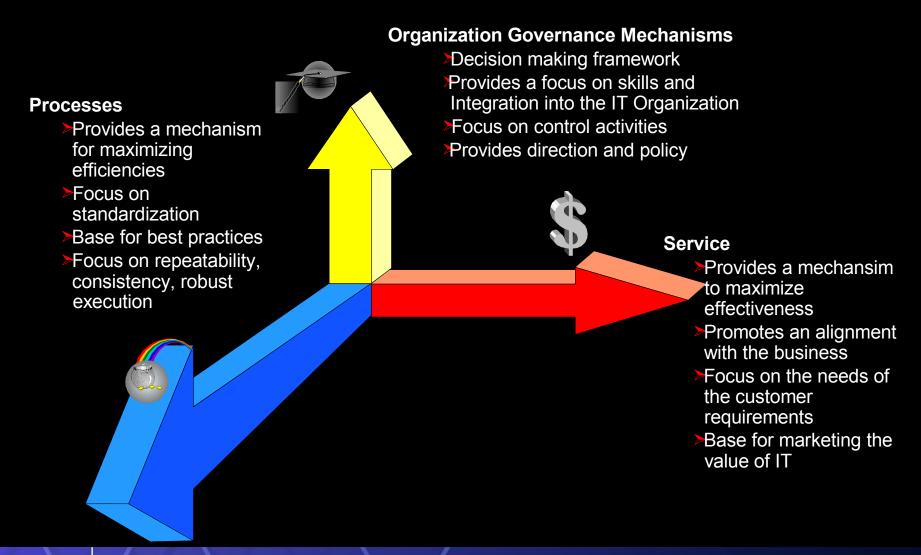


Governance, Services and Process perspectives each provide a necessary way of looking at SOA projects





All three perspectives must be considered to optimize SOA IT value.





The implementation of an appropriate infrastructure and governance is a key success factor for SOA projects and their recurring operation.

To support an SOA architecture, the conception and implementation of the infrastructure must meet the requirements expressed in the Service Level Agreements:

- Availability
- Performances
- Security
- Operability

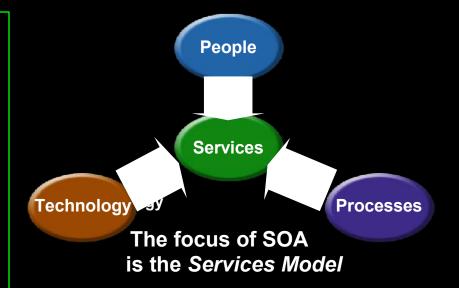
and integrate legacy applications

The SOA governance stakes for the infrastructure and IT production projects:

Who decide?

Who pay?

Which measures?



The governance model defines:

- What has to be done? Service Lifecycle
- How is it done? Decision-path based Processes
- Who has the authority to do it? Roles and Responsibilities
- How is it measured? Conformance and Vitality Checkpoints?



The context : SOA infrastructure & IT production

IT governance, processes and organization

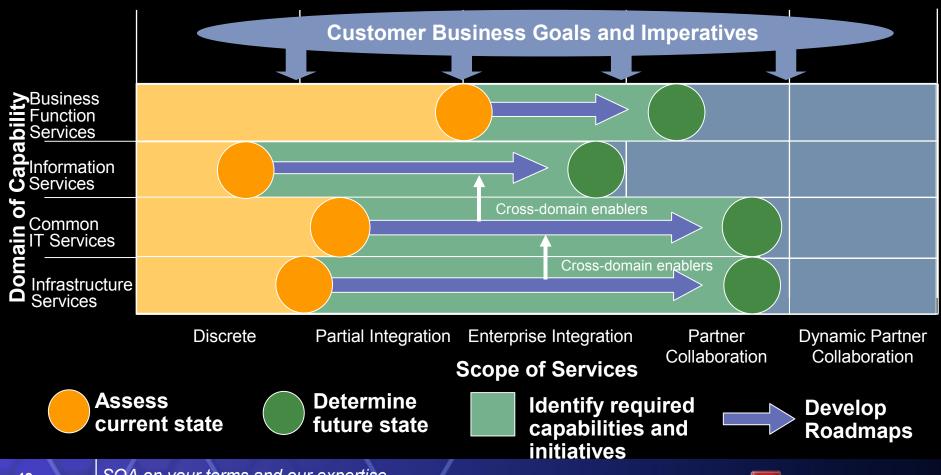
How do I start?



IBM technique: Component Infrastructure Roadmap (CIR)

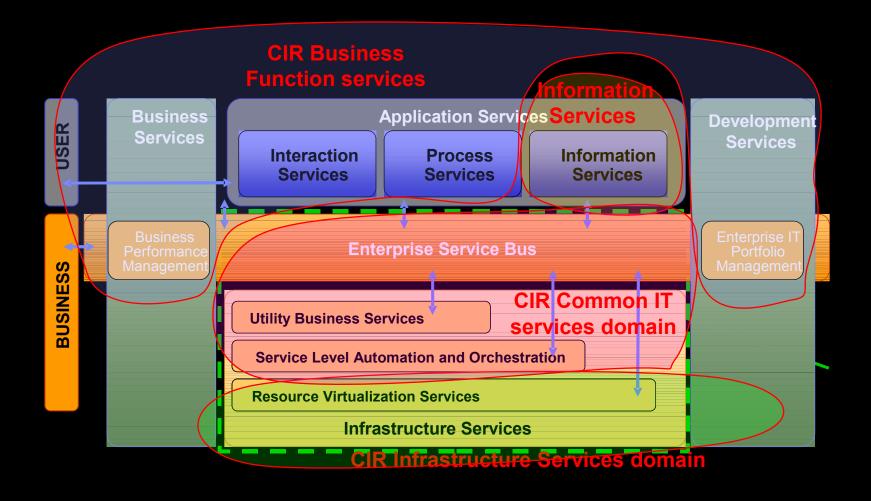
Customer Tailored Roadmaps

Analysis identifies current states and desired target states based on business goals and **SOA** target maturity levels. Incremental roadmaps are developed to achieve these states.



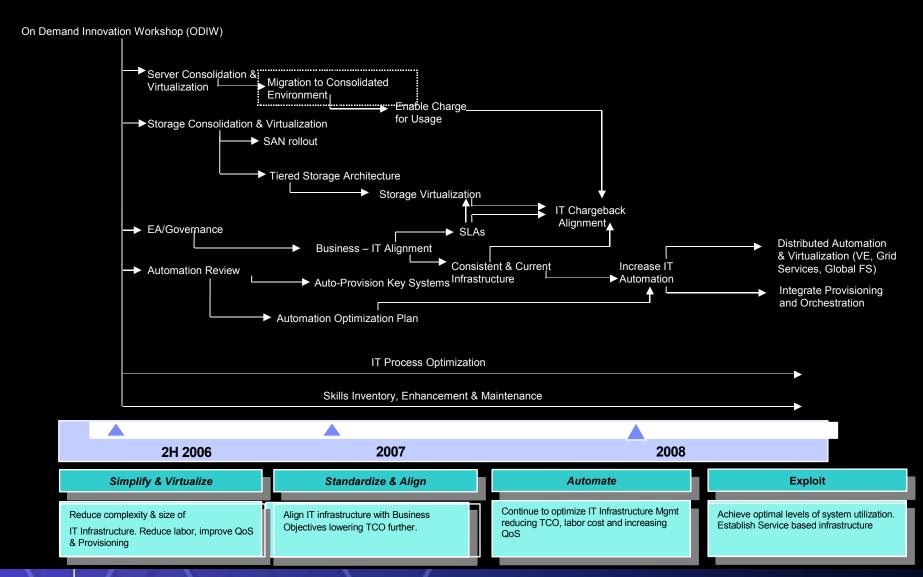


CIR domains of capability are based on the On Demand Operating Environment





Example of deliverable: roadmap





CIR for SOA value proposition

- A technique based on tools and a knowledge database allowing to quickly analyze a business context and to identify the initiatives and projects to be launched to move to SOA.
- CIR is a 2 days workshop to :
 - Define business needs
 - Identify existing and planned capabilities
 - Evaluate the necessary SOA maturity level
 - Identify the target capabilities
 - Define the projects priorities
- Deliverable: A customer tailored roadmap to implement products, services and technologies.

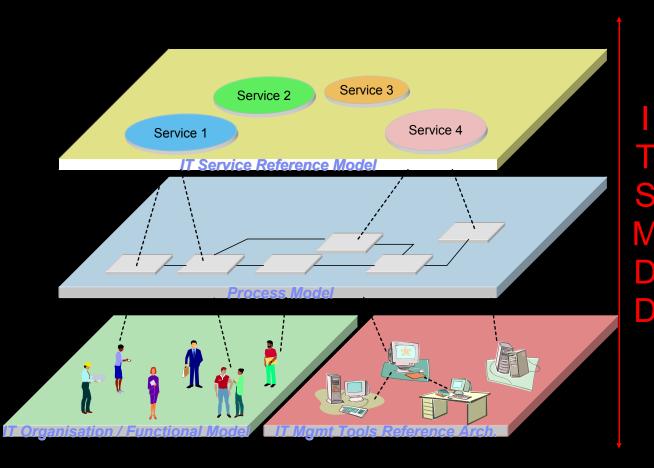
How my IT services must evolve to support SOA. What services new are

technologies.

needed

How my IT processes must be improved to support SOA

my IT organization, responsibilities roles and must evolve to support SOA What new roles are needed



processes, defined roles, teams & functions, as well as management

How my management tools must evolve to support SOA



The following are the service groups defined from the IBM starter set of services. The groups do not exclude interaction of services across groups, or preclude grouping of services in different ways.

USER / CUSTOMER SUPPORT SERVICES	Direct support to the internal / external user to enable day to day usage of IT resources
DEPLOYMENT SERVICES	Planning, administering, and implementing new or updated services (remote or central site)
APPLICATIONS SERVICES	Creation and support of applications to support the business
OPERATIONAL SERVICES	Day to day delivery of the technology services
DELIVERY SUPPORT SERVICES	Enabling services needed to keep Operational Services up, running, and continually improving
MANAGEMENT AND CONTROL SERVICES	Management and control of resources, projects and services deliveries
BUSINESS SUPPORT SERVICES	Financial and strategic alignment of IT and enterprise business initiatives

Services candidates to be re-designed in an SOA environment are further identified in red





First repartition of SOA impacts on IT Services

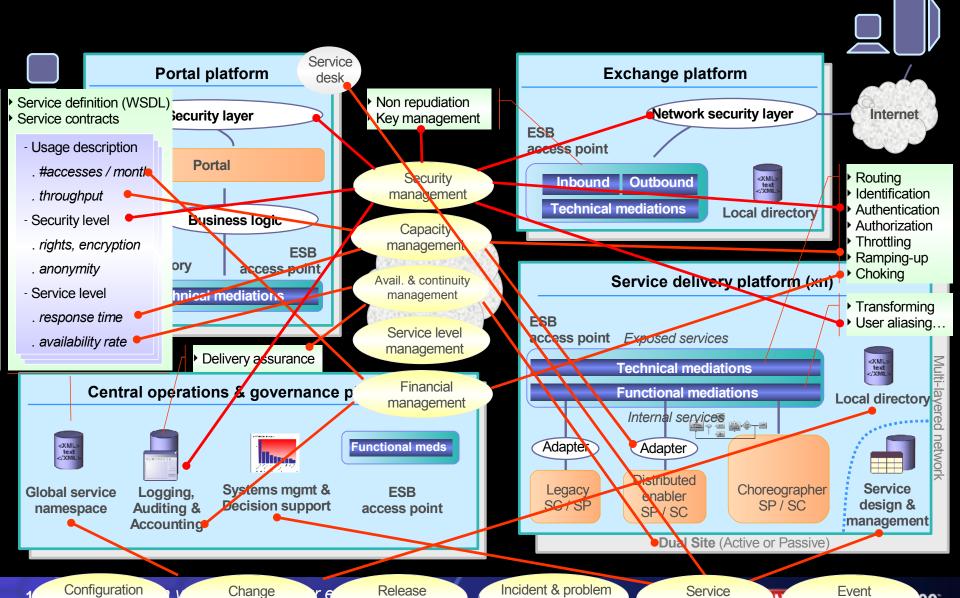
group Service sensibility Comment USER / CUSTOMER SUPPORT SERVICES User call management SOA does'nt bring specific new needs on these services User training Install/Move/Add/Change Deskside support Access enablement DEPLOYMENT SERVICES Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing APPLICATION SERVICES Development and production teams are impacted APPLICATION SERVICES	
User call management User training Install/Move/Add/Change Deskside support Access enablement DEPLOYMENT SERVICES Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing SOA does'nt bring specific new needs on these services SOA does'nt bring specific new needs on these services Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Development and production teams are impacted	
User training Install/Move/Add/Change Deskside support Access enablement DEPLOYMENT SERVICES Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing Development and production teams are impacted	
User training Install/Move/Add/Change Deskside support Access enablement DEPLOYMENT SERVICES Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing Development and production teams are impacted	
Deskside support Access enablement DEPLOYMENT SERVICES Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing Development and production teams are impacted	
Access enablement DEPLOYMENT SERVICES Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing Development and production teams are impacted	
DEPLOYMENT SERVICES Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing SOA does'nt bring specific new needs on these services SOA does'nt bring specific new needs on these services Pre delivery preparation SOA does'nt bring specific new needs on these services Development and production teams are impacted	
Site preparation Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing SOA does'nt bring specific new needs on these services Pre delivery preparation Roll-out and installation Development and production teams are impacted	
Pre delivery preparation Roll-out and installation Install/Move/Add/Change Software distribution Solution testing Development and production teams are impacted	
Roll-out and installation Install/Move/Add/Change Software distribution Solution testing Development and production teams are impacted	
Install/Move/Add/Change Software distribution Solution testing Development and production teams are impacted	
Software distribution Solution testing Development and production teams are impacted	
Solution testing Development and production teams are impacted	
ADDITION SEDVICES	
AFFLICATION SERVICES	
Develop applications Development teams are impacted	
Integrate applications Development and production teams are impacted	
Maintain applications Development teams are impacted	
Support Application Development and production teams are impacted	
OPERATIONAL SERVICES	
Job scheduling	
Job execution	
Infrastructure maintenance	
Performance management Performance management among services loosely coupled	is modified
DELIVERY SUPPORT SERVICES	
Event management	
Security management	
Availibilty management	
Capacity management These services need to be at a good level for SOA	
Hardware maintenance management	
Problem management These services need to be at a good level for SOA	
Inventory administration	
Change management These services need to be at a good level for SOA	
MANAGEMENT AND CONTROL SERVICES	
Disaster recovery These services must be adapted to SOA	
IT Architecture definition and support	
Project audit and control	
Service Level Management	
IT Consulting	
IT Plan Management	
BUSINESS SUPPORT SERVICES	
IT Strategy definition Must shift to a SOA strategy	
Finance / Budget Management Billing in particular is impacted (how to bill business service:	s)
Procurement	
Supplier liaison	



IT processes impacted by SOA

management

management



management

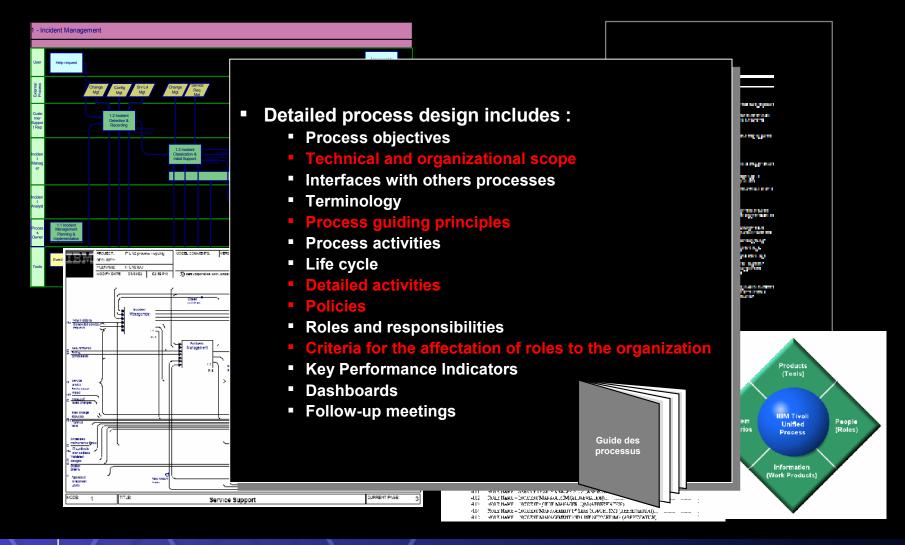
management

Execution

management

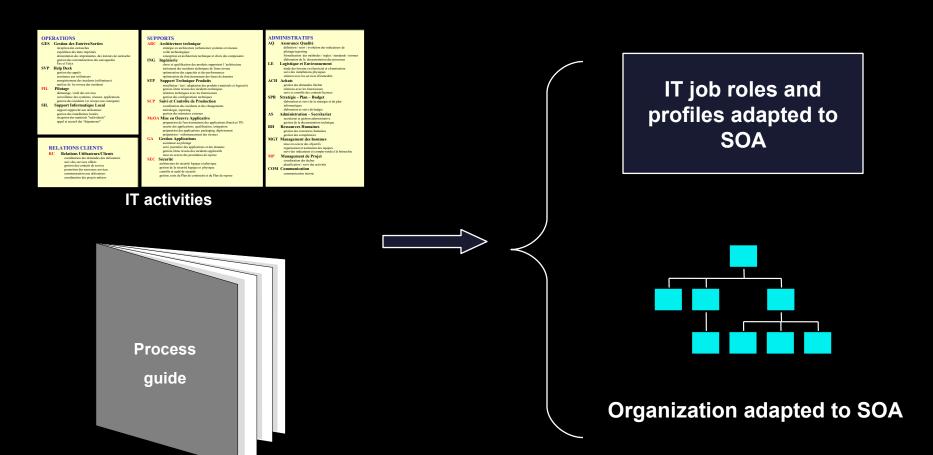


Detailed process design has to be reviewed to be adapted to SOA. The items which are more likely to be reviewed are highlighted in red.





The evolution of activities and processes may induce modifications of the IT job roles and possibly of the IT production organization.



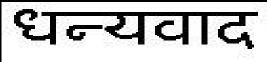


ITSM DD (IT Service Management Design and Development) for SOA value proposition

- ITSM DD capability Overview
 - Methods and Models : Assess, Plan, Design and Implement best practices
 - Intellectual Capital: Templates and examples save time and ensure quality
 - Competencies: Experienced consultants with diverse skills deliver quality results
- A global scope covering :
 - IT Services
 - Processes
 - Organization
 - Outils
- ITSM DD covers the full IT service management implementation life cycle from Readiness Engagement to Implementation Services



- A successful operational SOA demands to :
 - Design and roll out an operational architecture, flexible and reactive, satisfying the main non functional requirements (e.g. performances, security, availability)
 - Take into account the impacts of SOA on IT production, related to IT governance, services processes and organization



Hind







Gracias



Thank You

Obrigado Braziian Portuguese

Grazie

Italiar





Dank

e

Merci

감사합니다

Korean

ありがとうございました

Japanese