





ONEIT WORLD

THE PROCESS OF MODELING ENTERPRISE ARCHITECTURES NEW YORK ORACLE USERS GROUP

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Agenda

ARCHITECTURE & STANDARDS

- ✓ Service Oriented Industries
- ✓ Service Oriented Architectures
- ✓ SOA Value Patterns
- ✓ Enteprise Architectures

TECHNOLOGY: ORACLE SOA SUITE 11g

- Oracle Technology Architecture
- ✓ Integration Architecture
- ✓ Process Architecture
- ✓ Business Event Processing Architecture
- Recommendations



About the Speaker: Mauricio Naranjo

Experience on Architecture

- Mr. Mauricio Naranjo is an Engineer with experience since 1994 specialized on Architecture and Design of Information Technology Solutions using Standards, Middleware, Enterprise Architecture & IT Governance.
- Enterprise Solutions Experience for more than 60 banks & financial institutions, communication companies and governments.
- 2002 & 2003. Architect for Inter-American Development Bank, + 18 Banks & 20 Stock Brokers.
- Oracle SOA Architect Certified Expert (US)
- ITIL v3 Certification IT Governance (UK)
- Speaker at New York Oracle Users Group (NYOUG), Oracle Developer Tools Users Group (ODTUG), Independent Oracle Users Group (IOUG).
- Speaker at Oracle Events: Chile, San Salvador, Costa Rica, Bogota, Lima, Quito.



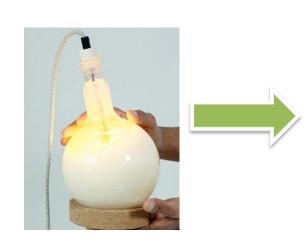
Oracle ACE Director at Oracle Corporation (US), since 2007.

Oracle ACE

Co-Author of the Book: Oracle Java Programming, Wrox Press (UK).



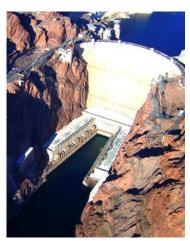
Service Oriented Industries







Energy Plants



Light

Energy Generators







Service Oriented Industries

LAN/WAN



Internet Services:

WWW, E-MAIL, FILE-TRANSFER, SEARCH, SOCIAL NETWORKS

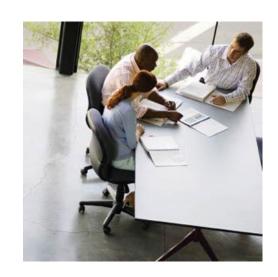


System's Reality

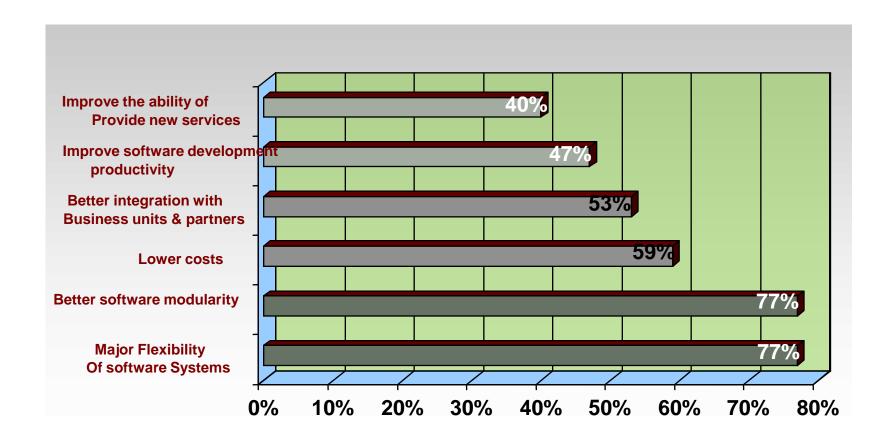
ERP CRM Legacy **Custom** Screen **Presentation Channels** scrape **Business Processes Data Integration** 4 **RPC** 牊 **Business Rules** <> $\Sigma \% <>$ <> **ORB** */= $\Sigma \% <>$ Batch **Reports & Analysis** file **Security & Users** Admin.

Business Needs & Challenges

- Reduce operacional costs
- Control and improve the efficiency of processes and services.
- Improve the quality of the information.
- Improve the quality of decisions.
- Improve the collaboration between business areas and eco-system of customers, providers and partners.

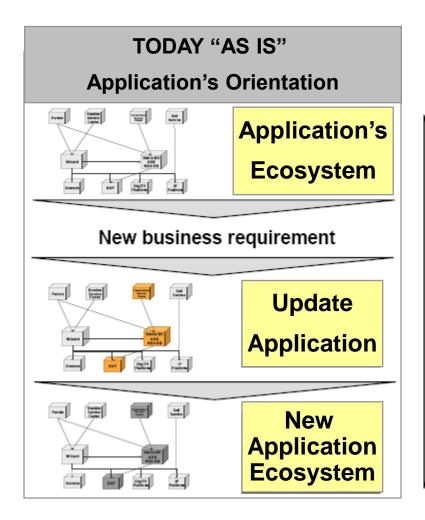


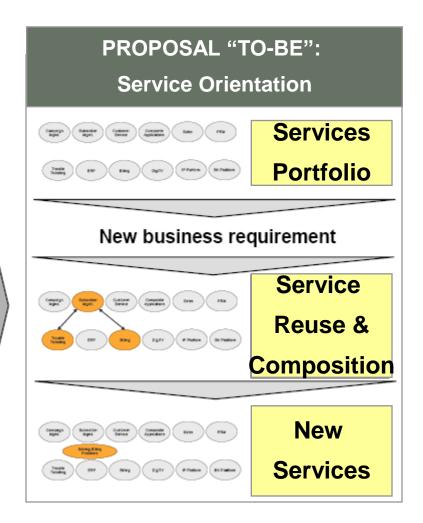
IT Directors Expectations



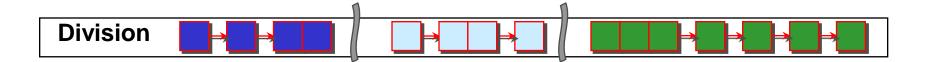


Change of IT Philosophy





How Are the Business Process Today?



- ✓ Inflexible: Hard-coded in systems and applications.
- ✓ Isolated: By departments or areas.
- ✓ Coupled. Integration: Point to Point, DB Links, Flat Files, Batch.
- ✓ Low Visibility. Black boxes. No visibility to the business. Difficulty for making decisions of Directors and Managers.

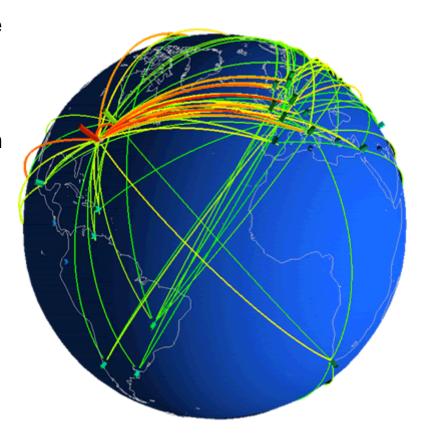
What is Service Oriented Architecture?

- ✓ SOA Service Oriented Architecture is an architectural estyle of bulding software systems, based on the paradigm of service re-use and composition.
- ✓ Software architecture concept focused on service reuse to support new business requirements (Wikipedia).

OASIS N

Reference Model for Service Oriented Architecture 1.0

 Paradigm for organizing the distributed capabilities that can be controlled by different business domains



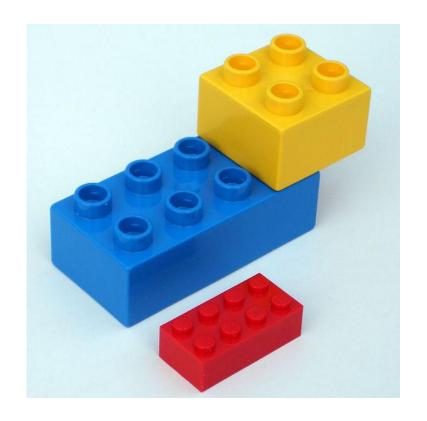
Services Classifications

Four Major types include:

- Application Services
- Information Services
- Integration Services
- Process Services

Other Services:

- Infrastructure Services
- Presentation Services

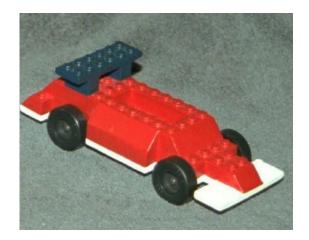


SOA - Service Reuse & Composition









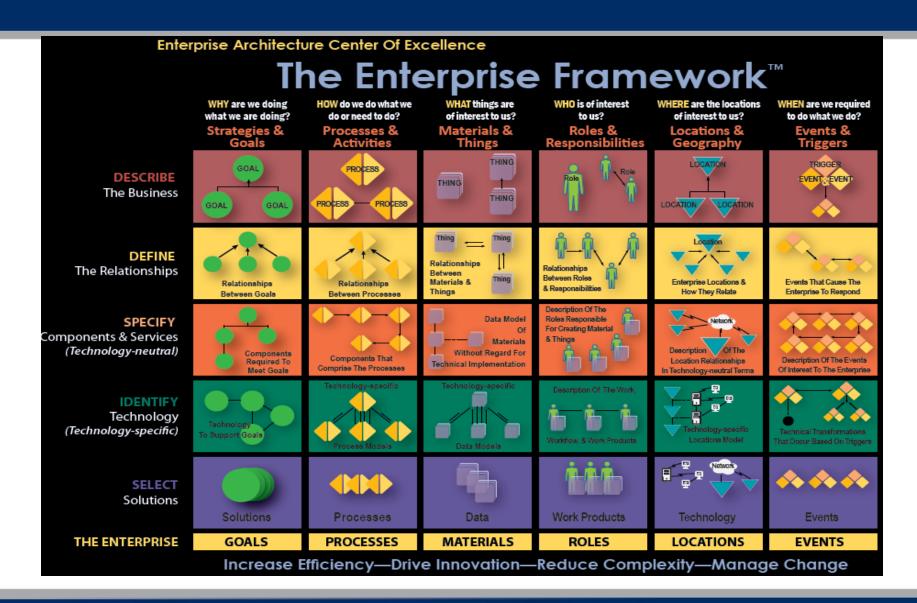


Complementary Technologies & Methodologies to SOA

- SOA MUST be used in conjunction with other technologies and methodologies from Software Industry for the sucessful transformation and business improvement:
- ✓ Enterprise Architecture (TOGAF, FEAF)
 - ✓ Arquitectura de Software
 - ✓ Arquitectura de Informacion.
 - ✓ Arquitectura de Integracion.
 - ✓ Arquitectura de Tecnologia
- ✓ IT Governance (ITIL, COBIT, MOF) for Service control and Improvement
- Business Process Management (BPM, BPMN)
- Project Management (PMP)

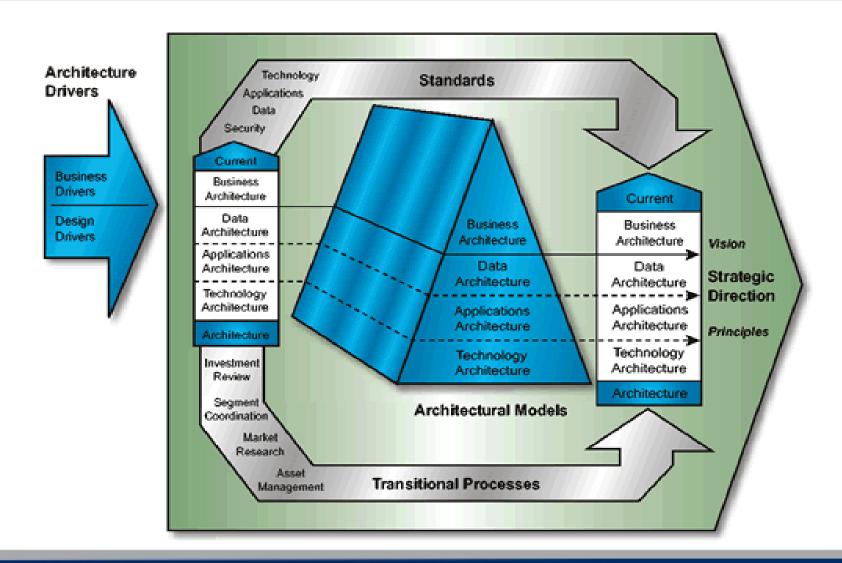


Zachman - Enterprise Architecture

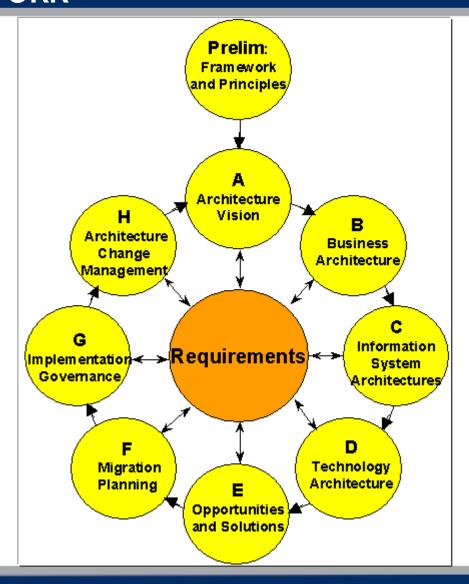




FEAF - FEDERAL ENTERPRISE ARCHITECTURE FRAMEWORK



TOGAF - THE OPEN GROUP ARCHITECTURE FRAMEWORK





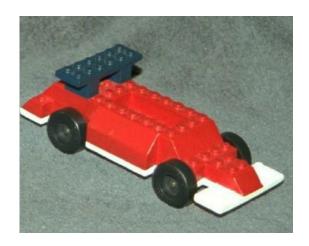
What are the components of an Enterprise SOA Solution?

Portfolio of "REUSABLE" Services - Instead of a Massive Bunch of "NON-Reusable" Services





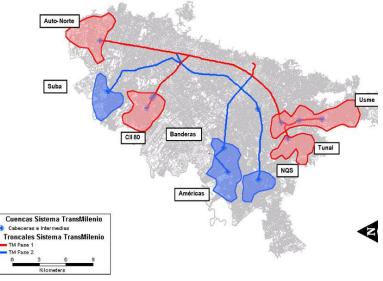






Enterprise Service Bus: Connectivity, Adapters, Routing, Transformation





Business Events

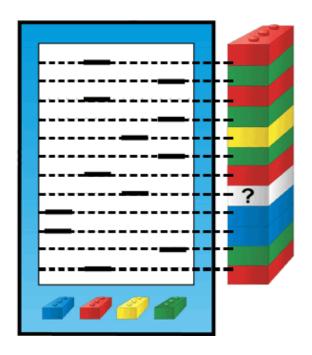


Every business event generates a business reaction



Business Process Engine



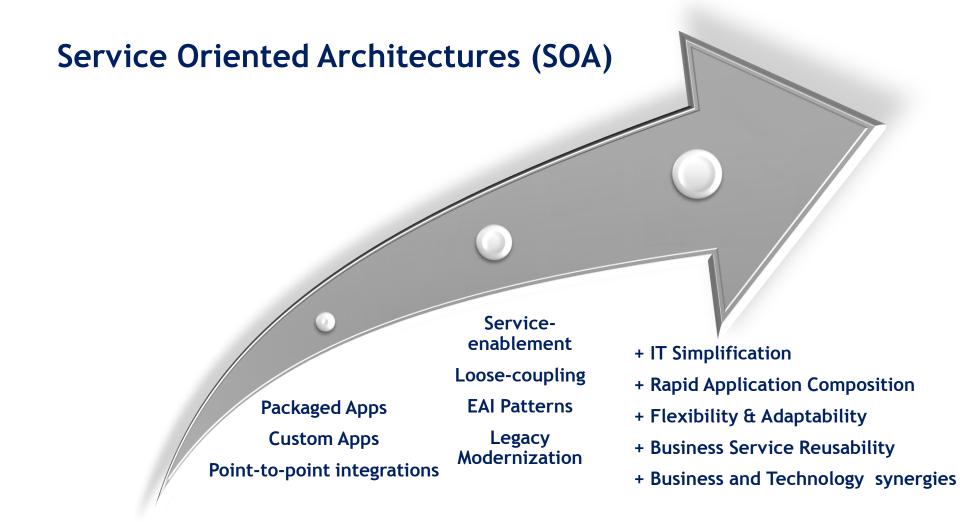


Coordinates the execution's sequence of services:

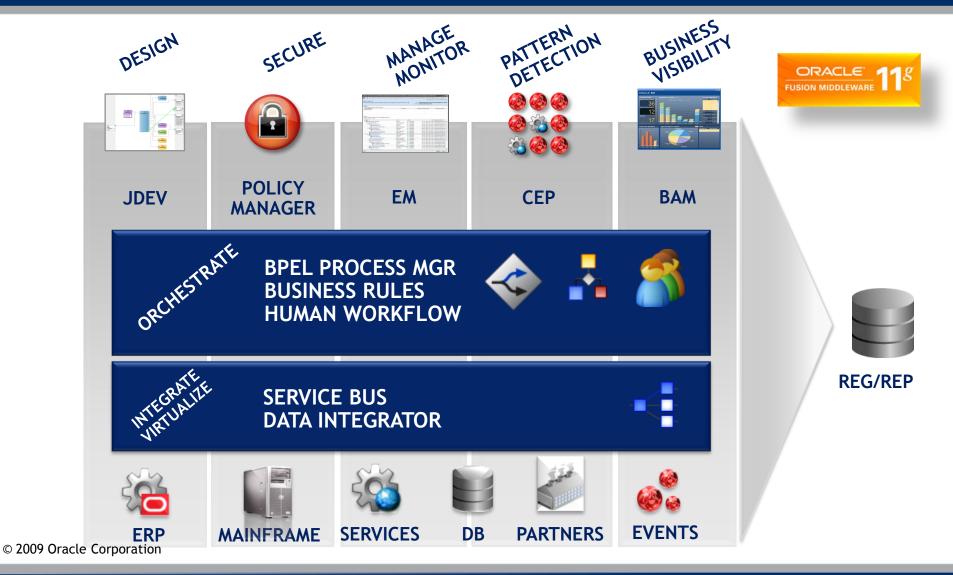
Information, Application, Integration



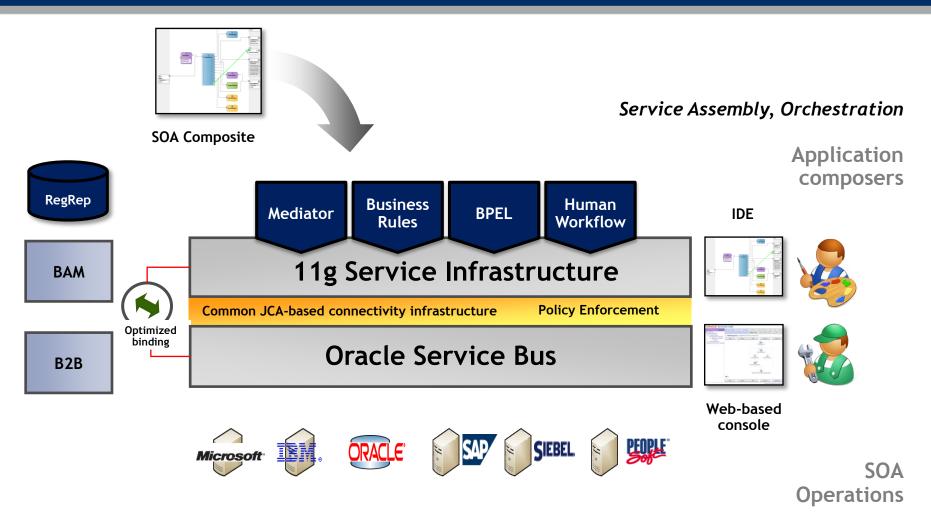
Technology Evolution to:



Service Oriented Architectures | Oracle SOA Platform



SOA Integration Architecture



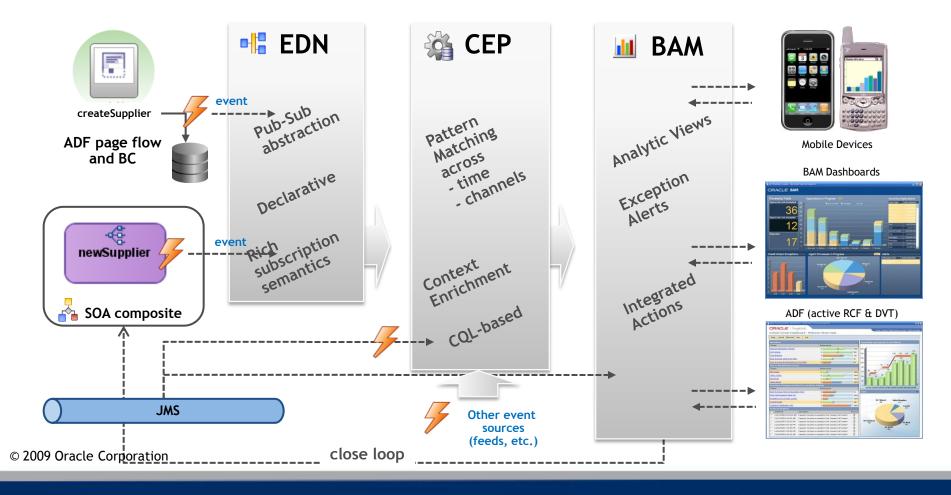
Service virtualization, Shared Service Gateway, Monitoring

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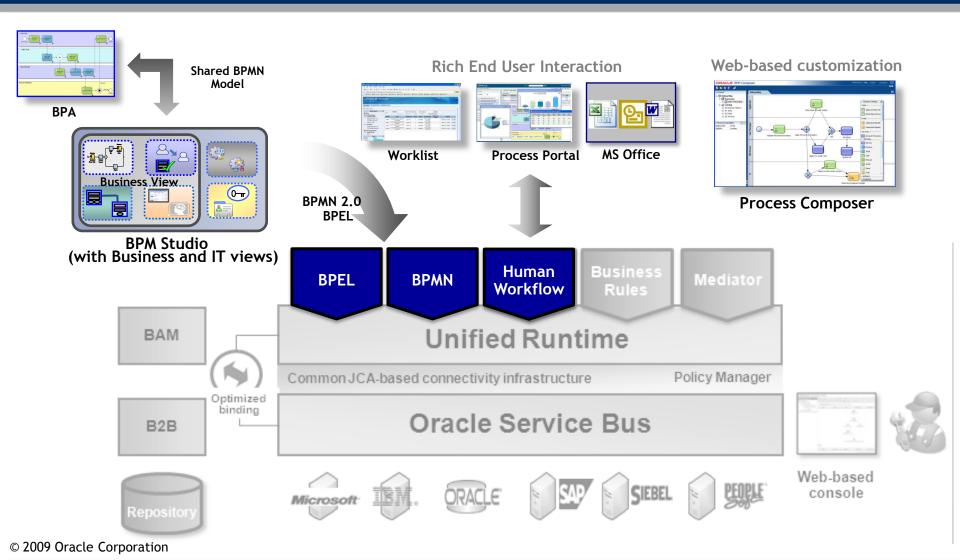


Real-Time Business Event Architecture

EDA delivers real-time event processing for monitoring, analyzing, and acting on business process optimization.



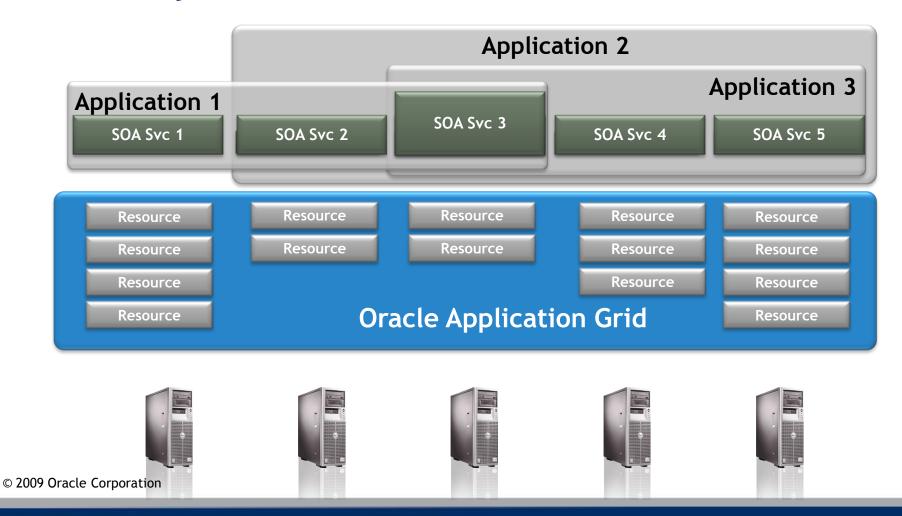
Business Process Architecture



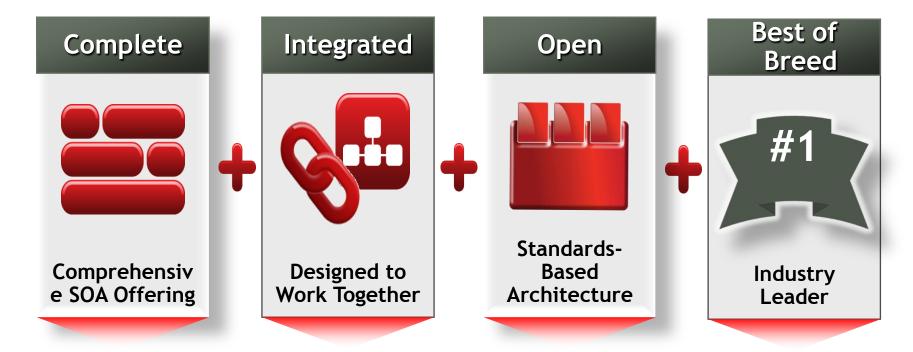
● ON€ IT WORLD

Scalable Architecture

Grow your Business on-demand!



Oracle SOA Architecture Benefits



Broad & Deep Offering Lower Cost, Lower Risk

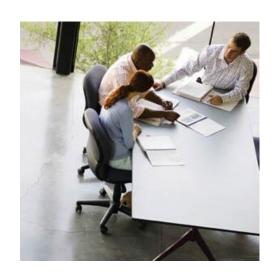
Less Effort More Value More Choice Maximizes Existing Investments Robust, Proven Industry leading Software

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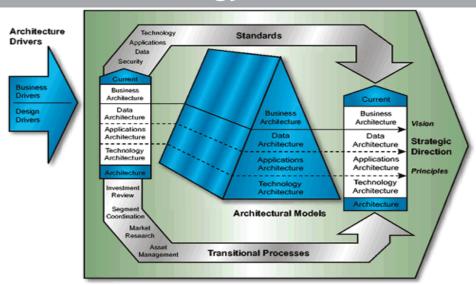


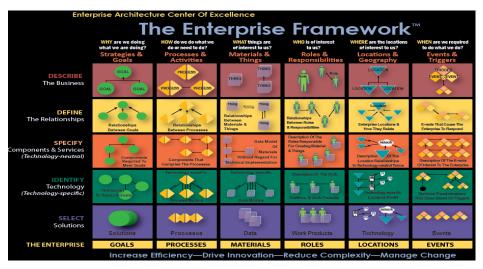
Recommendations

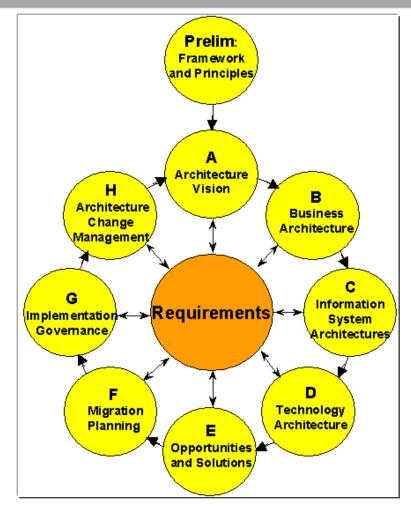
- ✓ The following cases are recommended for implementing SOA in enterprises:
 - Business Process Automation & Monitoring.
 - Secure, non-intrusive application's Integration.
 - Business Dashboards
 - Centralized Auditory and Security
 - Incremental Modernization of Legacy Systems.
 - Information Consolidation and Exposure.
 - Multi-Channel Applications. (Internet Online-Services, Mobile Applications, IVRs)
 - PLAN YOUR ARCHITECTURE! AND GOVERN ITS IMPLEMENTATION TO IMPROVE THE QUALITY, EFFICIENCY AND RELIABILITY OF YOUR BUSINESS!.



Define your Enterprise Architecture, NOT ONLY your Technology Architecture









About ONE IT WORLD

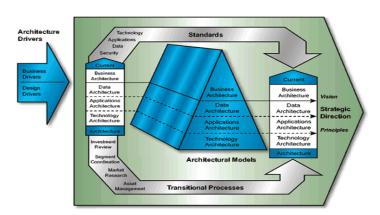


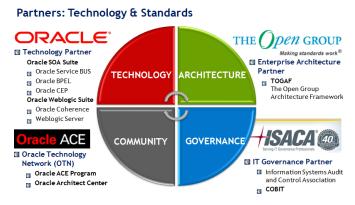






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- www.oneitworld.com
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- Industries: Banking | Financial sector | communications | Government.
- Partnerships with major technology and standards organizations in progress!.











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