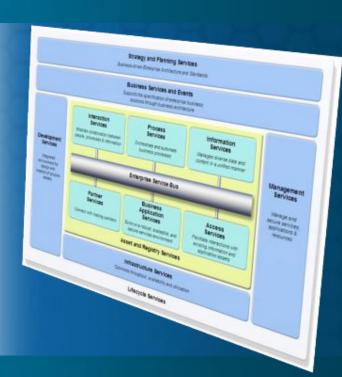


IBM SOA Architect Summit

Keynote:

Architecting SOA with a Business Focus

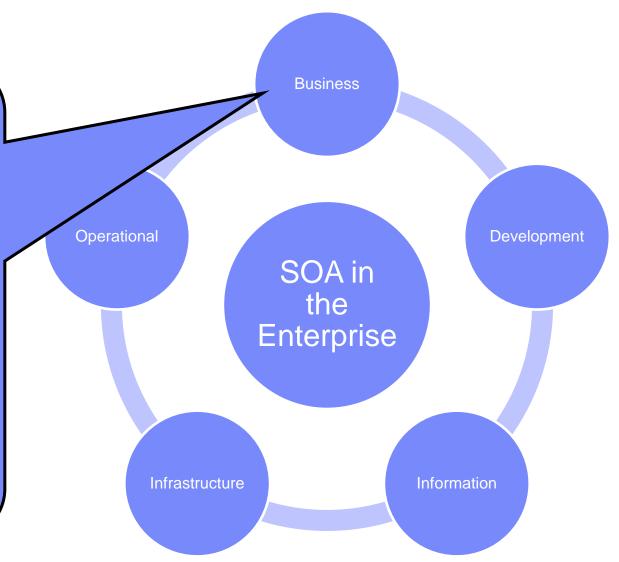
Dejan Mihajlovic Senior Managing Consultant





Architecting SOA with a Business Focus

- Business
 Architecture
 powered by SOA
- 2. SOA Governance
- 3. Building Business Process Solutions
- CompositeBusiness Services
- Real World Examples
- 6. What is on the horizon?





Agenda

- Business Architecture powered by SOA
- SOA Governance
- Building Business Process Solutions
- Composite Business Services
- Real World Examples
- What is on the horizon?

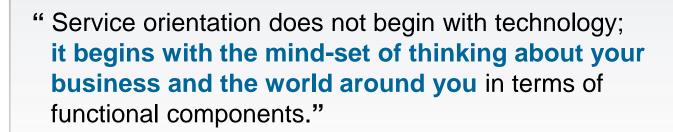




Innovation Impacts Business Models *Is Your Architecture Ready?*

"On a flat earth, the most important attribute is creative imagination – the ability to be the first to figure out how all these enabling tools can be put together in new and exciting ways to create products, communities, opportunities, and profits."

Thomas Friedman, The World is Flat

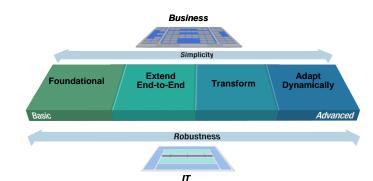


Steve Mills, SVP and Group Executive, IBM Software Group The Future of Business June 2007





The Road towards Strategic Change



- Have a vision
 - In enough detail
 - Sometimes you just know what needs to be changed
- Understand the existing portfolio of solutions and how the vision impacts it
 - In enough detail and scope for what you are trying to do right now
 - Remember to not mess up ongoing business and IT operations
- Define scope and organization of a change project
 - Just enough to implement the change
 - Understand how this project relates to everything else that goes on
- Different levels of maturity lead to different ways of doing these three things
 - Yet they are always present in one form or another, explicitly or implicitly
 - The key question is how to get to the science of executing strategic change!?



Business Component Analysis

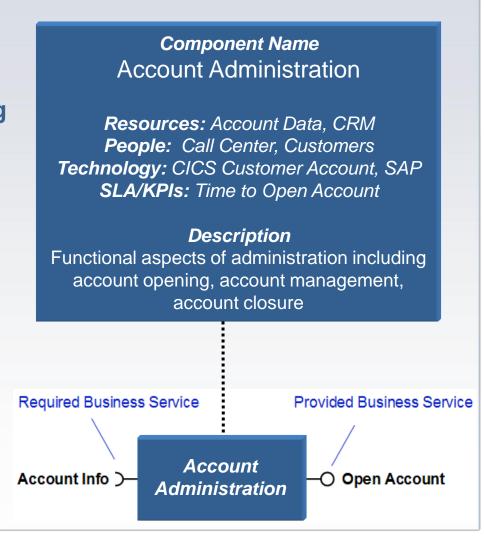
- The enterprise is mapped out as a set of categorized business components
- Heat map highlights components for analysis based on criteria such as gaps and efficiency
- Enables approaches to understanding how the business can be improved

	Business Administration	New Business Development	Relationship Management	Servicing & Sales	Product Fulfillment	Financial Control and Accounting
Directing	Business Planning	Sector Planning	Account Planning	Sales Planning	Fulfillment Planning	Portfolio Planning
Controlling	Business Unit Tracking	Sector Management	Relationship Management	Sales	Fulfillment Monitoring	Compliance
	Staff Appraisals	Product Management	Credit Assessment	Management		Reconciliation
Executing	Account Administration	Product Directory	Credit Administration	Sales	Product Fulfillment	Customer
	Product Administration	Marketing Campaigns		Customer Service	Document	Accounts
	Purchasing					General Ledger
	Branch/Store Operations	Cupuigiio		Collections	Management	



Business Components Define The Key Business Functions

- A business component is "a grouping of the people, technology, & resources delivering specific business value"
- Components have well-defined interfaces, allowing them to interact smoothly with each other and to be 'snapped' in and out at will, like building blocks"
- The Interfaces of the Business Components Enable Identification of Candidate Business Services





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Chegrate Bushes Control Contro

Governance and coordination at many levels

IBM Reference Models	Client Reference Models	Enterprise Planning Models					
		Portfolio of Solution Models					
		Project Models	Project Models	Project Models	Project Models		

- Reference Models may be used at any purpose level and for two different purposes:
 - As a framework and a catalogue structure, constraining the enterprise (most likely at the planning level)
 - As accelerator assets, content "instances" seeding a solution (most likely at the solution level)
- Enterprise Planning Models are for the purpose of analyzing and planning changes to the Solution Portfolio
- The Portfolio of Solution models is a consolidated set of models for the entire Solution Portfolio
- Project Models are temporary Solution Models that at the end of the project get consolidated into the Portfolio of Solution Models



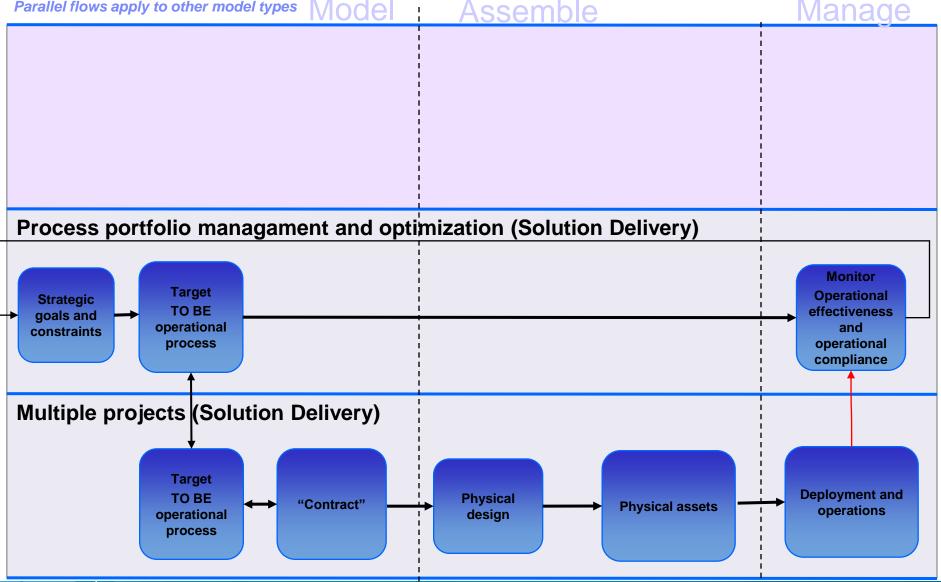
#1 Source of Change – Process example

Parallel flows apply to other model types | Model | Assemble Planned improvement (Enterprise Planning) **Monitor Target Architectural Blueprints Strategy** compliance and and effect of principles changes Multiple projects (Solution Delivery) **Target Deployment and** TO BE **Physical** "Contract" **Physical assets** operations operational design process



#2 Source of Change – Process example Parallel flows apply to other model types Model: Assemble

Deploy &





Continuous improvement – Process example

Parallel flows apply to other model types Model Assemble Planned improvement (Enterprise Planning) **Monitor Target Architectural Blueprints Strategy** compliance and and effect of principles changes Process portfolio management and optimization (Solution Delivery) **Monitor Target Operational Strategic** TO BE effectiveness goals and operational and constraints process operational compliance Multiple projects (Solution Delivery) **Target Deployment and** TO BE **Physical** "Contract" **Physical assets** operations operational design process



SOA Governance & Management Method (SGMM) IBM's Comprehensive Approach to SOA Governance

Plan

Determine the Governance Focus

Tailor method for goals/environment

Understand current Governance structures

Define scope of governance

Conduct change readiness survey

Define

Define the SOA Governance Model

Define and refine governance processes

Define organizational change

Define IT changes in SOA development

Enable

Implement the SOA Governance Model

Implement the transition plan

Initiate SOA Org Changes

Launch the SOA Center of Excellence

Implement infrastructure for SOA

Measure

Refine the SOA Governance Model

Measure effectiveness governance processes

Measure effectiveness of organization change

Review and refine operational environment

Continuous SOA Governance Process Measurement & Improvement

Define the scope of governance: business, development governance or service management or all of the above Define new governance processes for services and define SOA governance mechanisms such as the SOA Center of Excellence

Begin implementation of the SOA Center of Excellence, Skills Enablement, Organizational Change, Infrastructure Change, etc. Monitor composite application performance and adjust; Monitor effectiveness of governance changes



Smart SOA Governance Optimizing the Enterprise Portfolio

Foundational

Extend End-to-End

Transform

Adapt Dynamically

Basic

Advanced

Basic Intermediate **Advanced** Enhance cross Support key business Assess & establish organizational adoption initial SOA environment opportunities Focus: Focus: Focus: Create inventory of current Expand governance Enhance & automate services and biz processes processes & policies Business/IT governance Establish Center of Enhance Culture & Org Expand infrastructure Excellence (CoE) Change management & metrics

End-to-end Quality Management

Enable SLM tools

Initial Registry/Repository



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BPM Enabled by SOA Supports Continuous Alignment of Business Processes

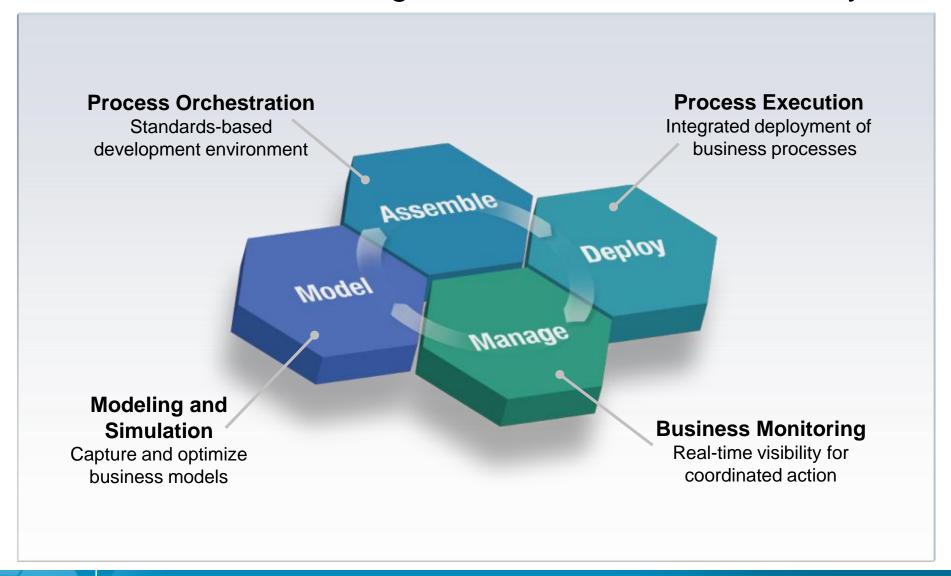


IBM's BPM Suite is unique in enabling all Six Agility Enablers





Business Process Management Within The SOA Lifecycle





Developing Business Process Models

- Enable business users to graphically model processes
- Support documentation and training for the organization and external parties
- Support simulation and analysis to substantiate process design decisions
- Generate code artifacts to support IT implementation of processes



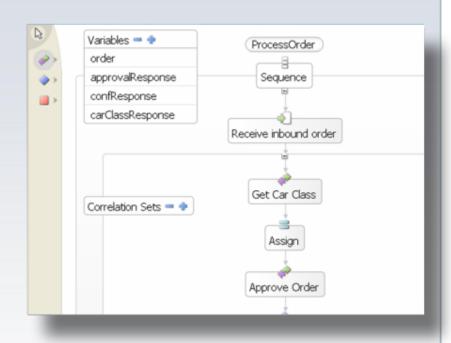
Architectural Benefit:

- Support top-down approach to service and process design
- Coordination of process development across business stakeholders as well as interaction with IT organization to articulate process design
- Creation of artifacts to support process development and implementation



Building Process Solutions

- Business Process Choreography orchestrates services as deployable processes
- Integrate information and user interaction into process development and deployment
- Mediations to transform/route service requests and responses
- Enable inter and intra-enterprise (B2B) service integration



Architectural Benefit:

- Simplified, standards-based business process development
- Support for industry process and data models
- Invoke mediations for routing/transforming requests between services



Monitoring Business Process Solutions

- Assemble dashboards on process behavior for different views/user perspectives
- Generate business event triggers and notifications via email, pager, SMS messages based on process events
- Generate preprogrammed responses based on process behavior
- Analyze process metrics over time to identify process trends



Architectural Benefit:

- Monitoring links to KPIs and Metrics defined by business analysts
- Integrates processes as part of an event-driven infrastructure
- Analyze trends in the business to enable ongoing optimization of solutions



Business Space - Access the Breadth of Capability Through a Single User Interface

- One web entry point for user login, regardless of what BPM products are deployed and how they've been deployed
- Assemble integrated interfaces across the full breadth of BPM capability

Align Business and IT for Continuous Process
Optimization

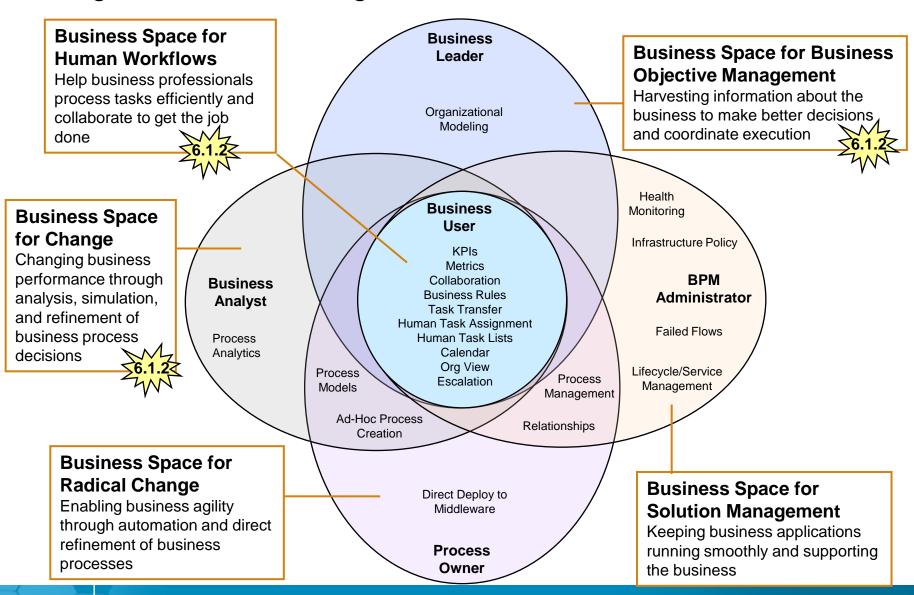
Collaborate and act through a single integrated, flexible, and customizable user interface to all BPM Products





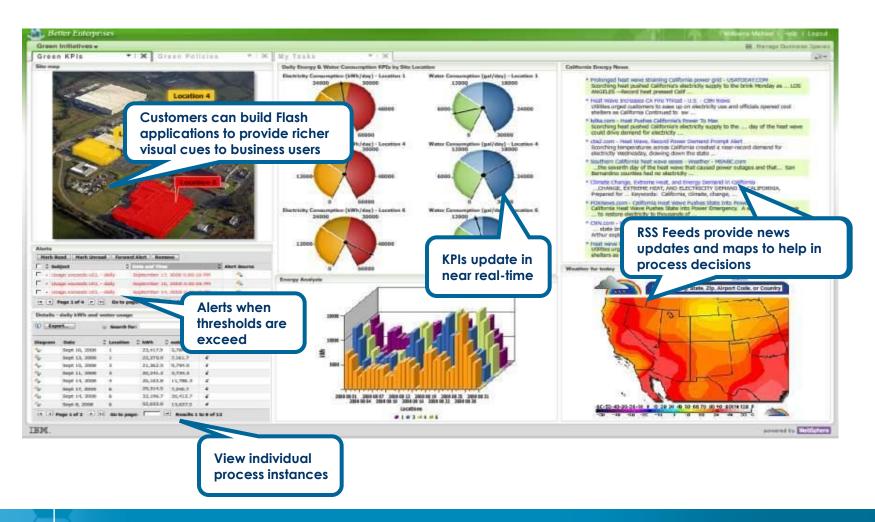


Driving BPM Portfolio Integration Around Five Scenarios



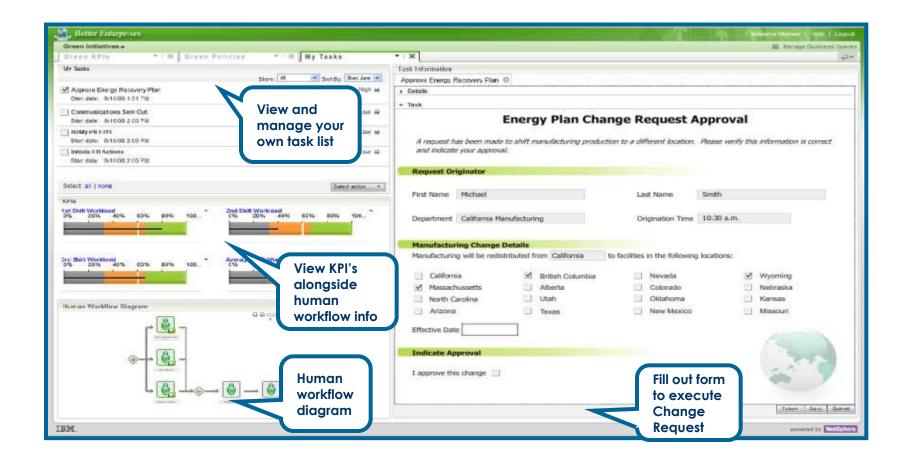


WebSphere Business Monitor with RSS Feeds



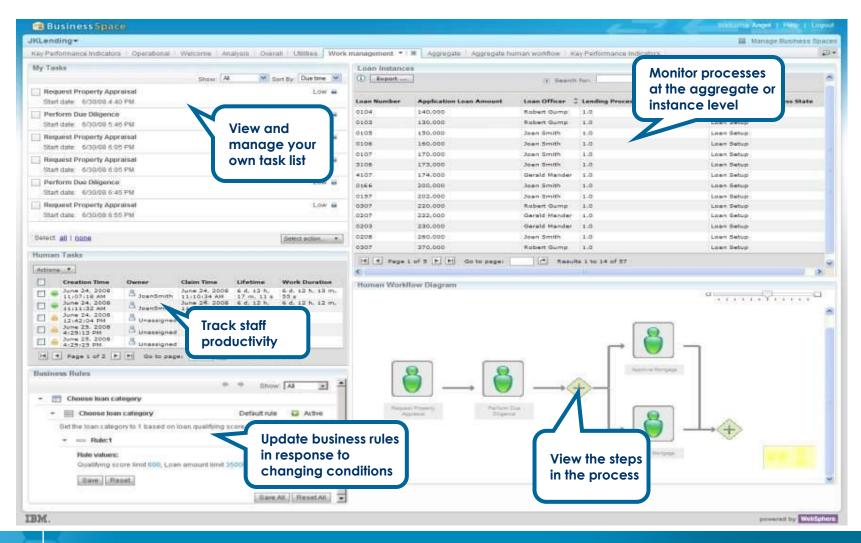


Manage Process Performance and Work





Gain Visibility into Process Performance & Staff Productivity Combine Process Automation with BAM





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Composite Business Services Business Services Provide the "Building Blocks"

Composite Business Services definition:

A collection of integrated and related business services that provide a specific business solution and support business processes built on SOA

Business Services definition:

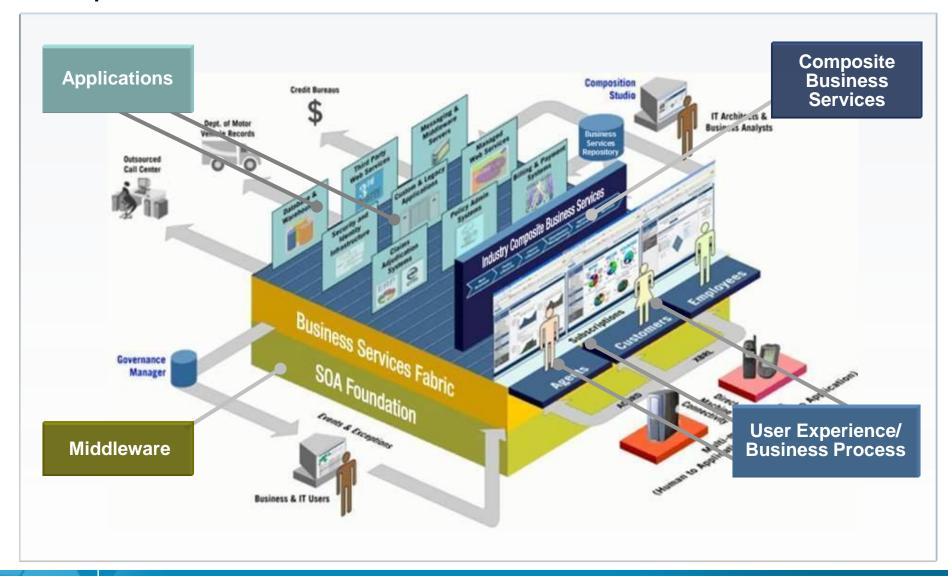
A business function whose execution can be adapted at runtime based on business policy and user context

- Designed at business level to represent a discrete business function (e.g. check credit, open account)
- Can provide flexible, adaptable behavior based on business policy and user context
- Provisioned through multiple communication channels





Composite Business Services





Industry Frameworks & Solutions Focus: Driving Differentiation by Linking Business with IT



An Industry Solution

Offering that solves a business problem through a combination of:

- Industry and subject matter expertise
- Defined content, applications, tools and methodologies
- Global delivery model

An Industry Framework

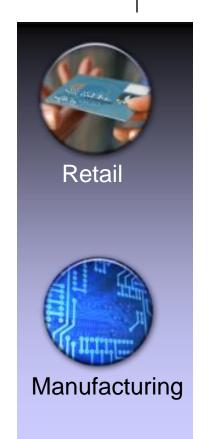
A software platform based on business specific usage pattern, and includes:

- Industry-specific extensions / business & technology standards
- Based on service-oriented architecture



Delivering value based on industry solutions

- Business commitments to be met at market speed or better
- Project costs in bite-sized bits
- Technology that best supports strategy











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Enabling Smarter Satellite Television Delivery

1 million connections in first year

8 million connections by 2012







SOA Helped Jump Start a High Growth Business Model







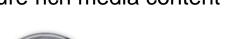
Multi-channel integration for customer service

Flexible support for rapid physical asset rollout

Immediate service access on installation

Enabled for future rich media content

Customer Service





IBM WebSphere Application Server IBM WebSphere Message Broker IBM WebSphere Process Server IBM Services

Flexible SOA-based IT Foundation

Allowing Smarter Food Tracking

New revenue streams in new markets

New service enables client cost avoidance





SOA Helped Dynamically Connect Moving Parts





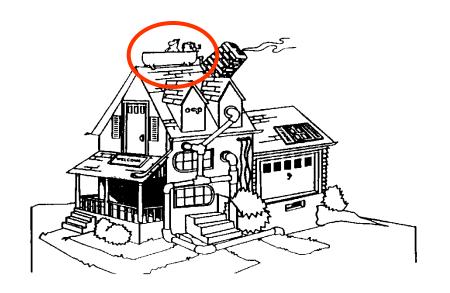
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Without the power of architecture, even with the best of intentions, we are more likely to descend into chaos...



... and even if an individual house is well architected, if each house is different (e.g. different electricity voltage, water pressure) then the city will not work...



... plus, if the purpose of the building is not clear...



I want you to start designing the product anyway.
Otherwise it will look like we aren't accomplishing anything.





Hindi





Teşekkür ederim

Gracias



Thank You





Italian





Danke

German

Merci

감사합니다

Korean

ありがとうございました

Japanese

IBM SOA Architect Summit

