Rich Enterprise Applications

Powered by Oracle Application Development Framework (Oracle ADF)



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Building Process Centric Applications with ADF and BPM

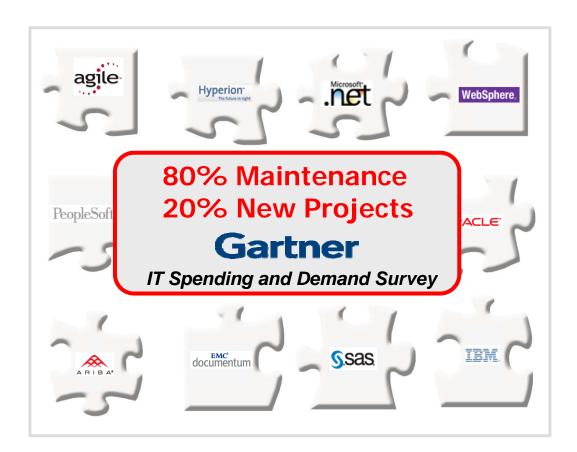
Manoj Das Sr. Director, BPM Suite Product Management The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Agenda

- Why BPM for building applications
 - Introduction to Oracle BPM Suite 11g
 - BPM 101 Demo
 - How to use BPM for building applications
 - BPM and ADF
 - Learn More



The Challenge



How to....?

- ... orchestrate multichannel customer interactions?
- ...automate processes across applications?
- ...easily modify such processes?
- ...make relevant business insight available to the masses?
- ... make upgrade safe customization to applications?



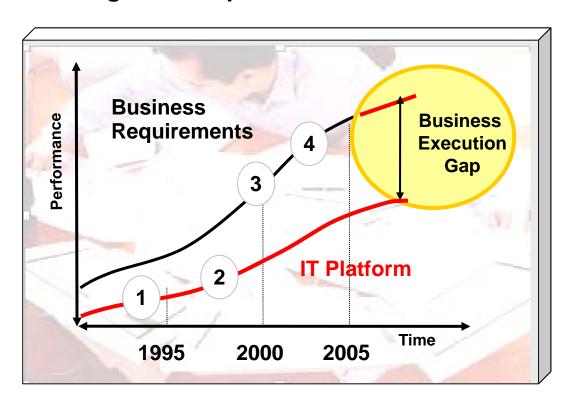
7 Impediments

- Business intent is "lost-in-translation" due to business-IT "impedance mismatch"
- 2. Change is hard but shows up immediately and never ends
- Variations in needs and requirements between geographies and departments
- User adoption is harder than anticipated
- 5. Lack of business visibility into status of transactions
- Difficult to relate investment to business benefits delivered
- 7. No methodology to continually improve



The Result

When business conditions evolve faster than the company's ability to change and respond...

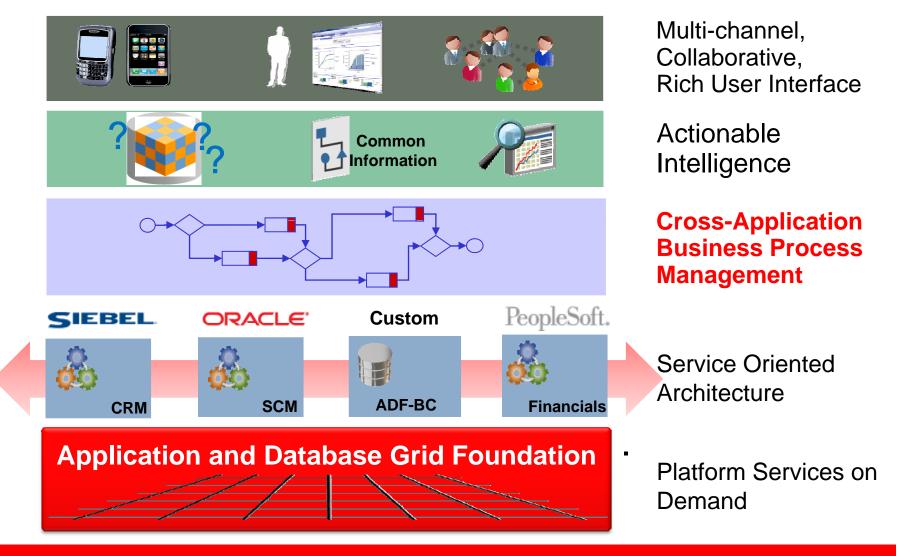


- 1 ERP Deployment
- 2 CRM Deployment
- 3 Internet Explosion
- 4 Industry
 Consolidation

... business performance suffers



The Ideal Solution



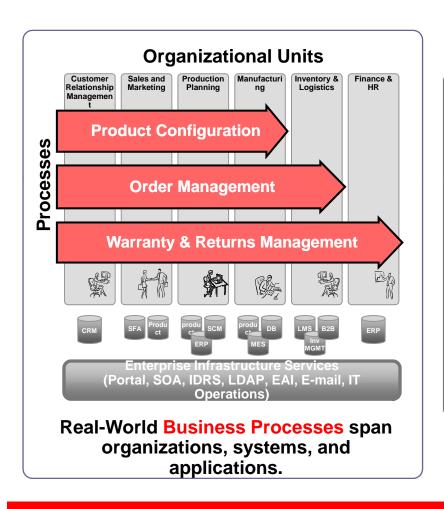
BPM Defined

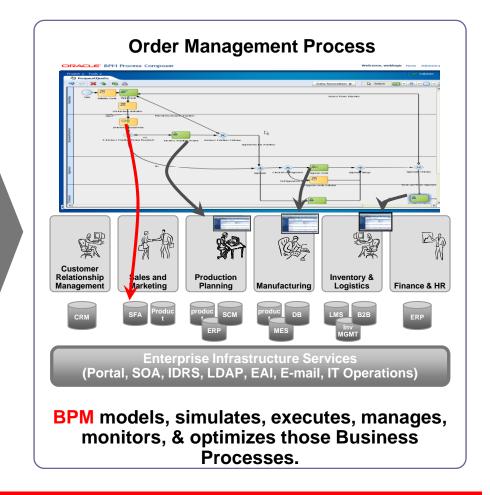
Business
Process
Management

An explicit approach to modeling, automating, measuring and optimizing business processes across organizational divisions, systems and applications

End-to-End Business Processes

Optimized, Transparent and Agile



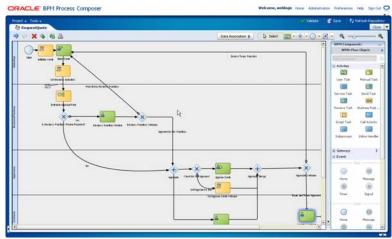




Business and IT Collaboration

Tailor-to-fit Business Processes



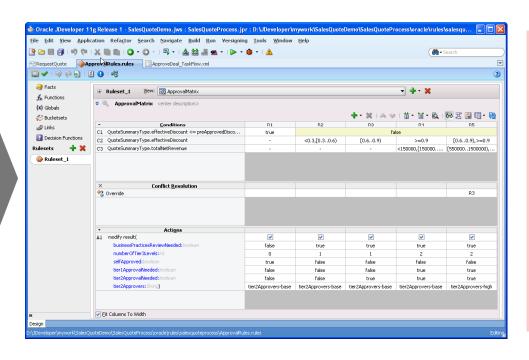




- Empower business users with easy-touse process and rules modeling
- Seamless business and IT Collaboration

Rules driven Process Execution





- Rules driven approval flows and task routing
- Rules driven process logic
- Rules driven validations

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BPM 11g – Functional Summary

Process Composer



- Web-based customization
- Deployment ready processes

BPM Studio



- Business IT Collaboration
- Agile Development
- Unified IDE

Process Analytics



- BAM, BI
- Business Indicators & Measures
- Process Cubes

Process Spaces



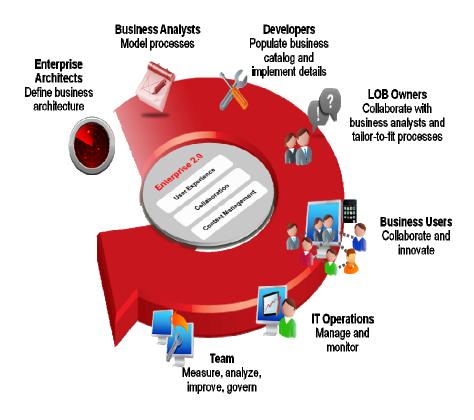
- Rich persona based UI
- Web 2.0 based Extreme collaboration
- Contextual insight

BPM Runtime

- Standards BPMN
 2.0, BPEL, WS Human Task
- Dynamic
- Enterprise-grade
- Business Rules
- Layered on SCA based SOA server

BPM 11*g* Feature Highlights

- 1 BPMN 2.0 modeling & simulation
- Web-based Process Composer
- Model is the executable (Zero Code)
- 4 Business catalog driven collaboration
- 5 Social Process Spaces
- 6 Ad-hoc and collaborative processes
- 7 Rich process analytics
- 8 Unified BPM & SOA runtime server





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Demo



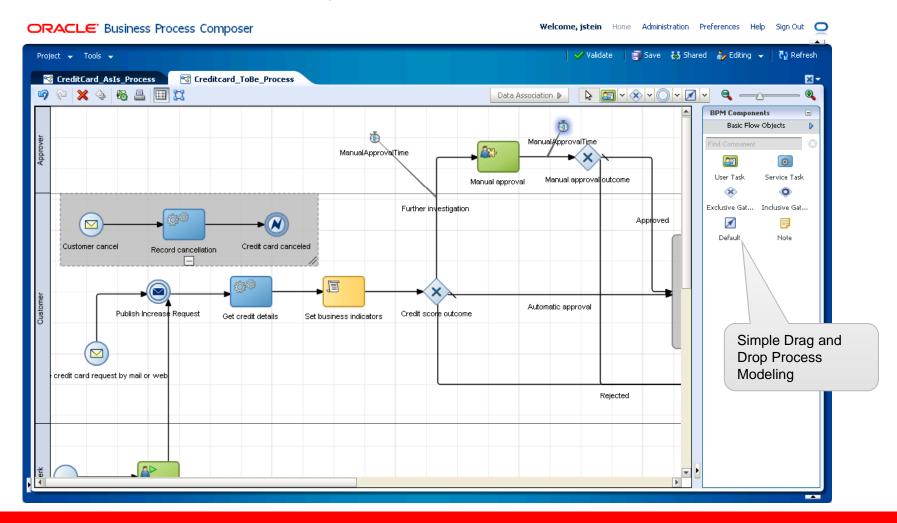
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Process Composer

Let Business Analysts Drive





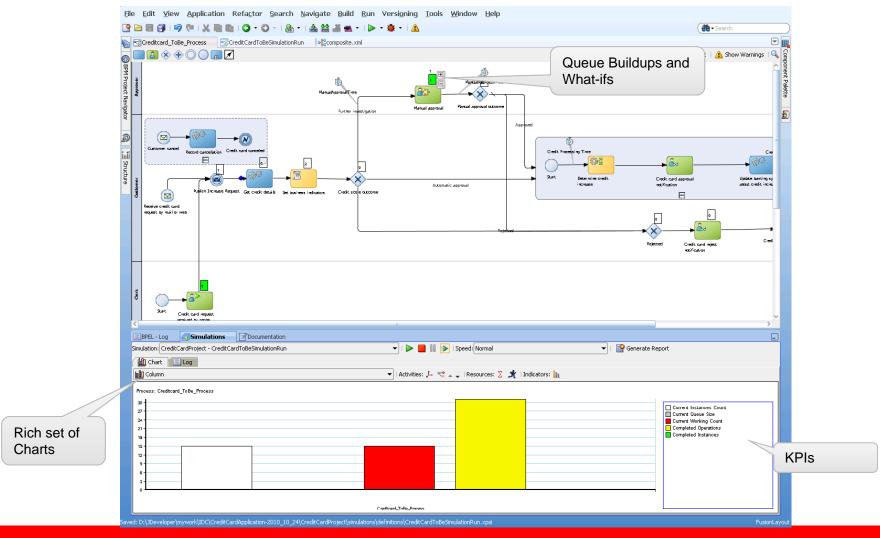
Process-centric Application Design

Single Model From Modeling to Execution

Studio - Comprehensive IDE for Developers File Edit View Application Refactor Search Navigate Build Run Versioning Tools Wind ☐ Creditcard_ToBe_Process ☐ composite.xml Component Palette CreditCardApplication▼ | 🗁 🚰 🖪 🖠 🧰 🙆 🔕 ∔ 🔘 🧼 🥌 🤻 | 🔚 Layout | 🔥 Show Warnings | 🔍 врм □ ── CreditCardProject Activities Activity Guide Default 🚣 Organization Activity Business Rule ⊕ BusinessExceptions Call 🗓 👍 Data Errors Event Subprocess 🗓 👍 Events Manual Receive Script Rules Send 🗄 -- 👍 Types Automatic approval Service lequest Getoredit desails Subprocess - Interactive Complex Empower business analyst with A FYI Group catalog of implementation [AD] Initiator artifacts Management <u>, ≡</u> crediccard_robe_eroce... User Single BPMN 2.0 → Activities model ⊕ o Measurements ₱ Trocess Data Objects ± Project Data Objects None Gateways **3** Simulations



Simulate Before You Implement

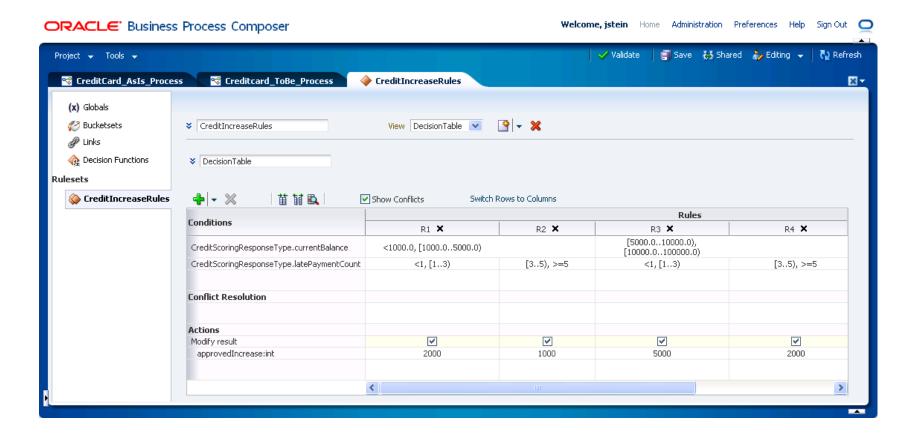


Virtual Developer Day: Rich Enterprise Applications

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Business Rules

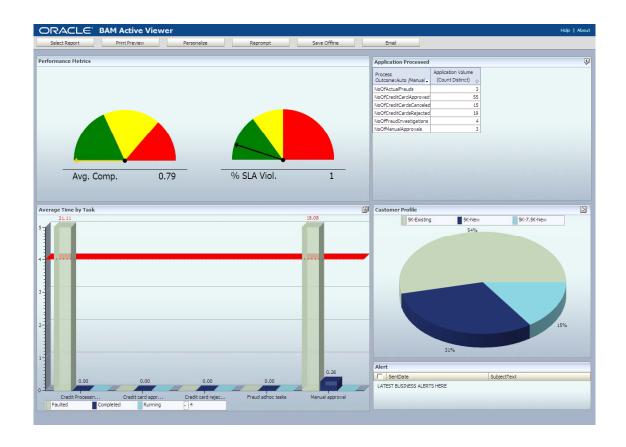
Delegate business-interesting, volatile, dynamic, and highly-varying logic to Business Rules





Process Analytics

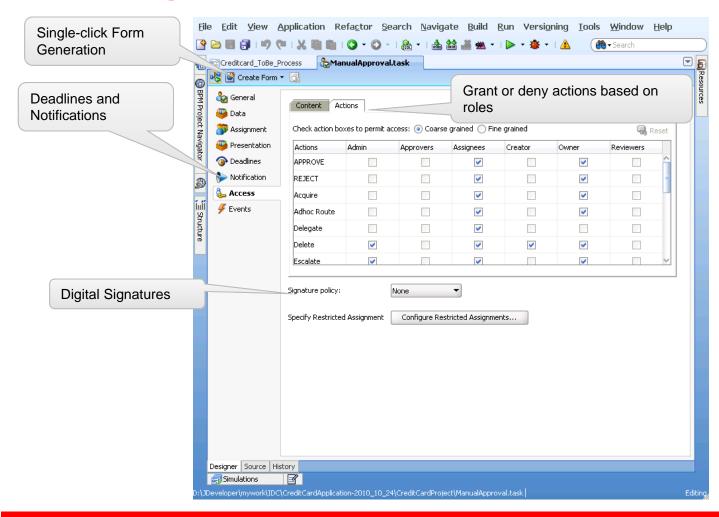
Build business metrics into design and drive continuous process improvement





Task-centric Design

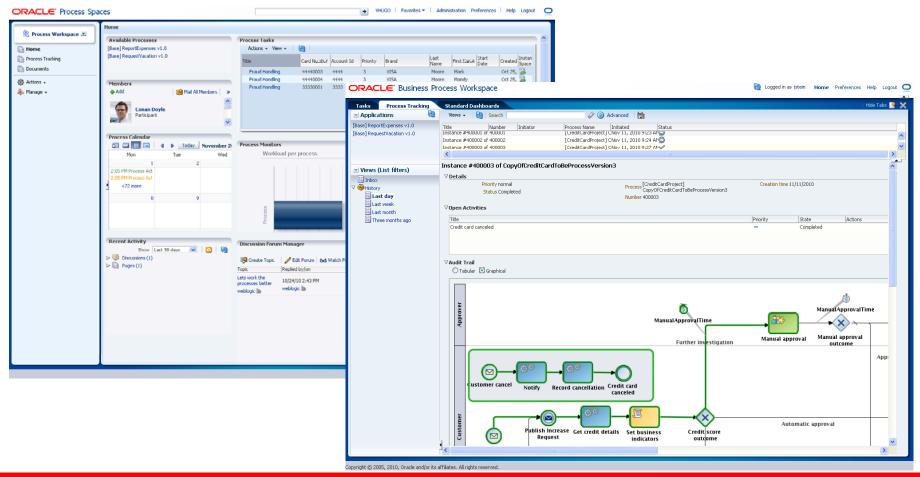
Design Deadlines, Notifications, Authorizations





Process Workspace

Business visibility into status of transactions and easy-to-use collaborative task-driven interface





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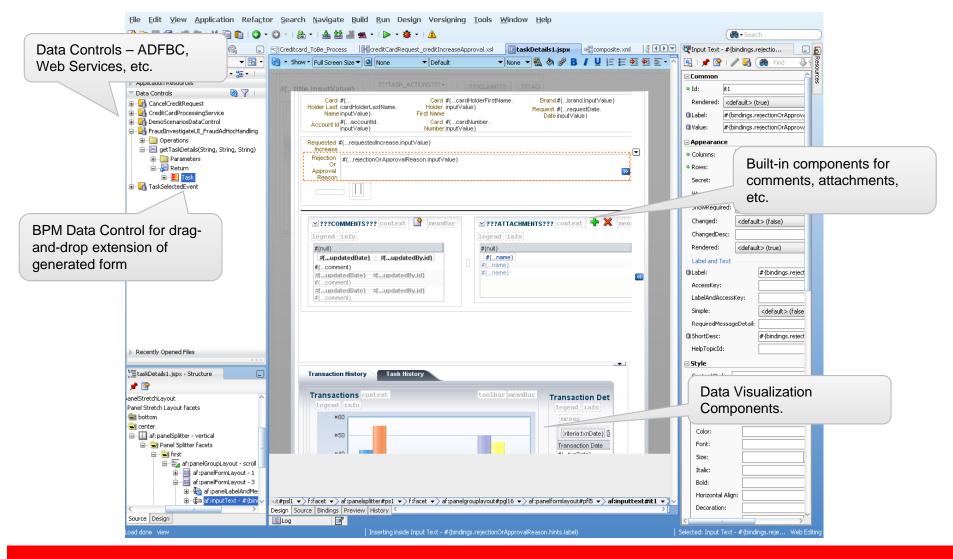


BPM and ADF

- View Controller BPM generates and uses ADF Faces and Task Flows for BPM UI elements
- Model/Binding Layer BPM Data Control
- Business Services Layer BPM can leverage ADF-BC data and services



BPM Forms are ADF Task Flows





BPM Forms continued

- 3 Flavors of Form Generation
 - Generate to new ADF View Controller Project
 - 1. One-click
 - 2. Wizard driven, template based
 - Add BPM Task Flow to existing ADF View Controller Project
 - 3. New → ADF Task Flow based on Human Task
- All flavors can be modified in ADF editors
 - Special drop-handlers for adding BPM elements when dragging and dropping Task element from Data Control
- ADF page included in email notification



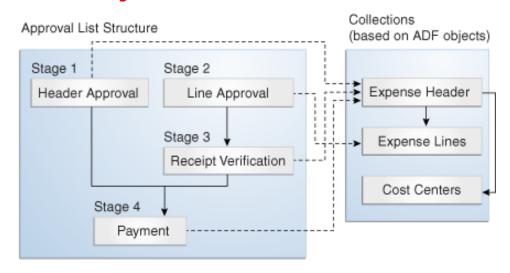
BPM and ADF-BC Interaction Patterns

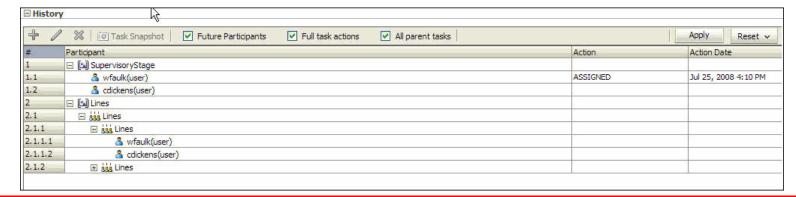
- BPM Task Flows can include ADF-BC data controls
- BPM can get data using ADF-BC services
- Human Tasks can work with ADF-BC services
- Business Rules support ADF-BC facts
- BPM and ADF can interact via EDN events



ADF-BC Driven Approval Routing

Tasks can be routed and assigned based on ADF-BC objects

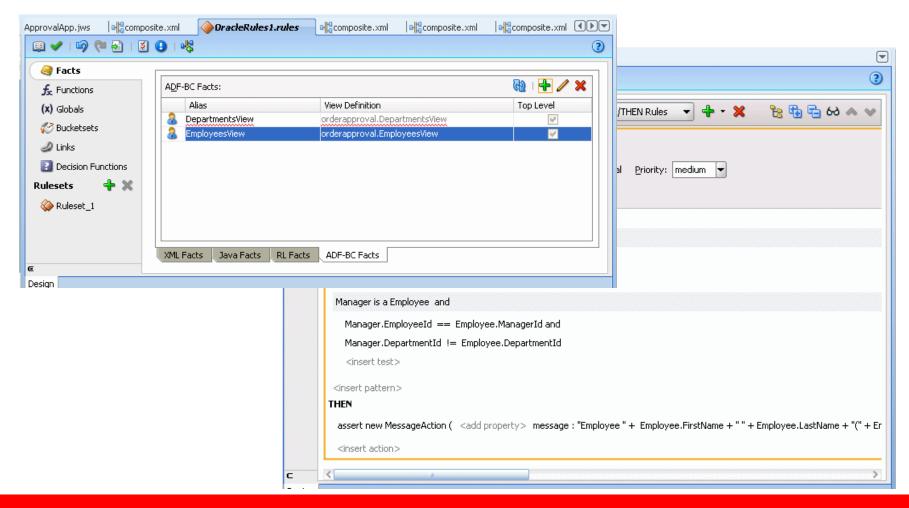






Business Rules and ADF-BC

ADF-BC Facts and Decision Point API





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Conference Tracks

Time	Basics	Advanced	Hands on Lab	Best Practices	Enterprise
8:00 – 8:15	Conference orientation				
8:15 – 9:00	Keynote: Rich Enterprise Applications				
9:00 – 10:00	Rich Web UI made simple - an ADF Faces Overview	Developing for Mobile Devices with Oracle ADF	LAB – Web Applications with ADF Part 1	Starting an Enterprise ADF project	Developing with Oracle WebCenter
10:00 – 11:00	Next Generation Controller for JSF	ADF Binding Internals	LAB – Web Applications with ADF Part 2	The bit every one forgets: Unit testing your ADF applications with JUnit	Build Killer Sites with Oracle WebCenter
11:00 – 12:00	From Forms to ADF - When, Why, How?	Advanced ADF Faces - Skinning & Javascript	LAB - Web Applications with Oracle WebCenter	ADF Security in a Project-Centric Environment - An ADF Case Study	Building Process Centric Applications with ADF and BPM
12:00 – 12:30	Survey & Event checkout				



Learn More at ODTUG K-Scope 2011

- http://kscope11.com/
- Special Fusion Middleware Track
- 50 dedicated sessions and hands on labs
- Presented by Oracle ACEs, developers and product managers
- ADF, WebCenter, BPM Suite and more





Available Now Hands-On **Tutorial**

http://snipurl.com /bpm11packt



A Hands-On Tutorial

Leam from the experts – teach yourself Oracle BPM Suite 11g with an accelerated and hands-on learning path brought to you by Oracle BPM Suite Product Management team members



http://www.oracle.com/te chnetwork/middleware/b pm/overview/index.html

Ask and Discuss

Downloads and More

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http://forums.oracle.co m/forums/forum.jspa?f orumID=560

Coming Soon Handbook

http://snipurl.com /bpm11handbook



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Summary

- BPM is an essential tool in an application developer's toolbox
- BPM enables process-centric applications that:
 - Adapt to change easily
 - Provide business end-to-end visibility
 - Drive outcome optimization through focus on metrics
- BPM as a methodology:
 - Enhances business IT collaboration
 - Drives continuous process improvement
- BPM leverages existing ADF skills and assets



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