Lucas Jellema – AMIS Services, The Netherlands

FORMS TO FUTURE – HISTORY, EVOLUTION, ARCHITECTURE AND FUTURE

PRESENT
PAST
FUTURE

AMIS – 15th of May 2012 – Nieuwegein, The Netherlands

OVERVIEW

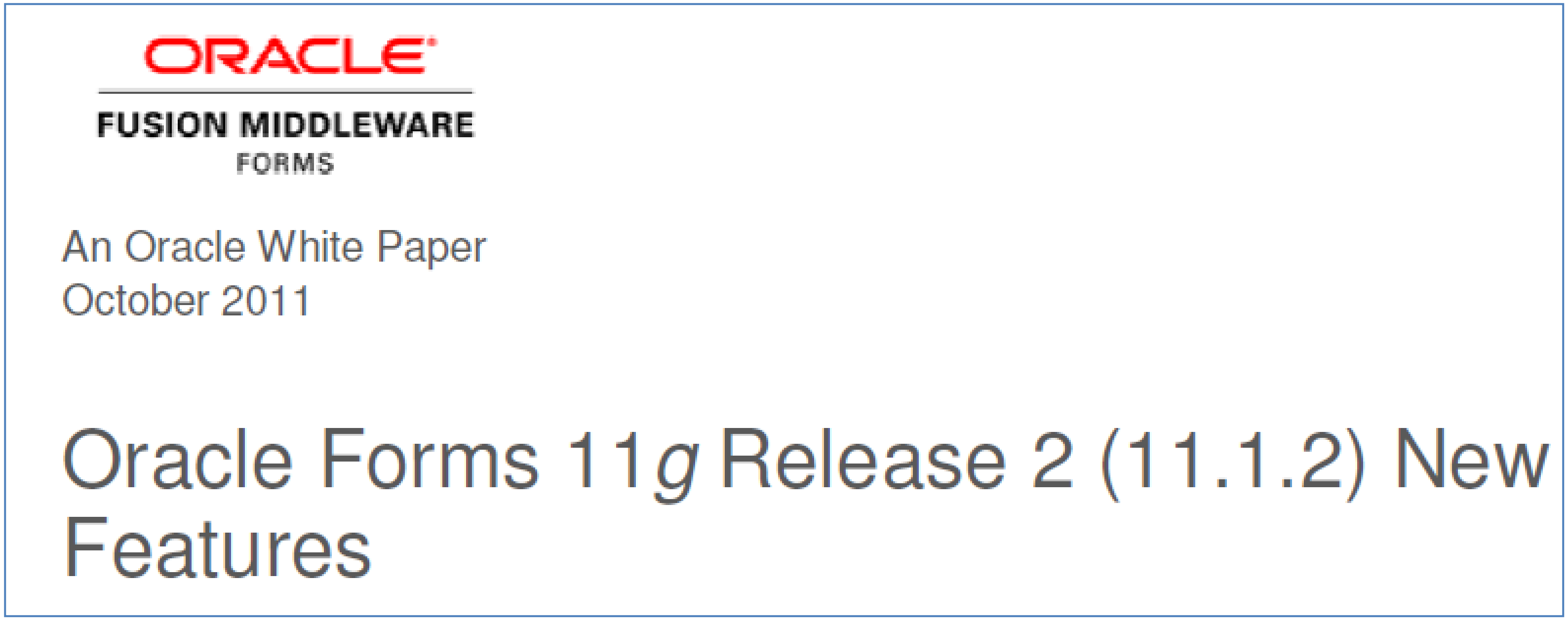
- **History**
- **What says Oracle?**
  - Statement of Direction and explanation
- **Why?**
- **What?**
- **How?**
- **When?**
- **Key elements of the Future**
  - Vision
  - Trends and evolution
  - Continuous preparation
  - People, people, people
- **Take aways**

20 YEAR HISTORY OF FORMS

- **1981/83** IAF/IAG
- **1987** SQL*Forms 2.0 & 2.3
- **1990** SQL*Forms 3.0
- **1993** Oracle Forms 4.0
- **1994** Oracle Forms 4.5 & 5.0
- **1996** Oracle iDS Forms 6i & 6i Web Forms
- **2002/2005** Oracle 9i Forms & 10g Forms
- **2009** ORACLE FUSION MIDDLEWARE FORMS 11g
- **2011** Forms 11gR2

MODERN FORMS

- **Forms 11gR2 was released recently (October 2011)**



ORACLE
FUSION MIDDLEWARE
FORMS

An Oracle White Paper
October 2011

Oracle Forms 11*g* Release 2 (11.1.2) New Features

- **Note: 12c has been announced. The story may continue beyond that.**

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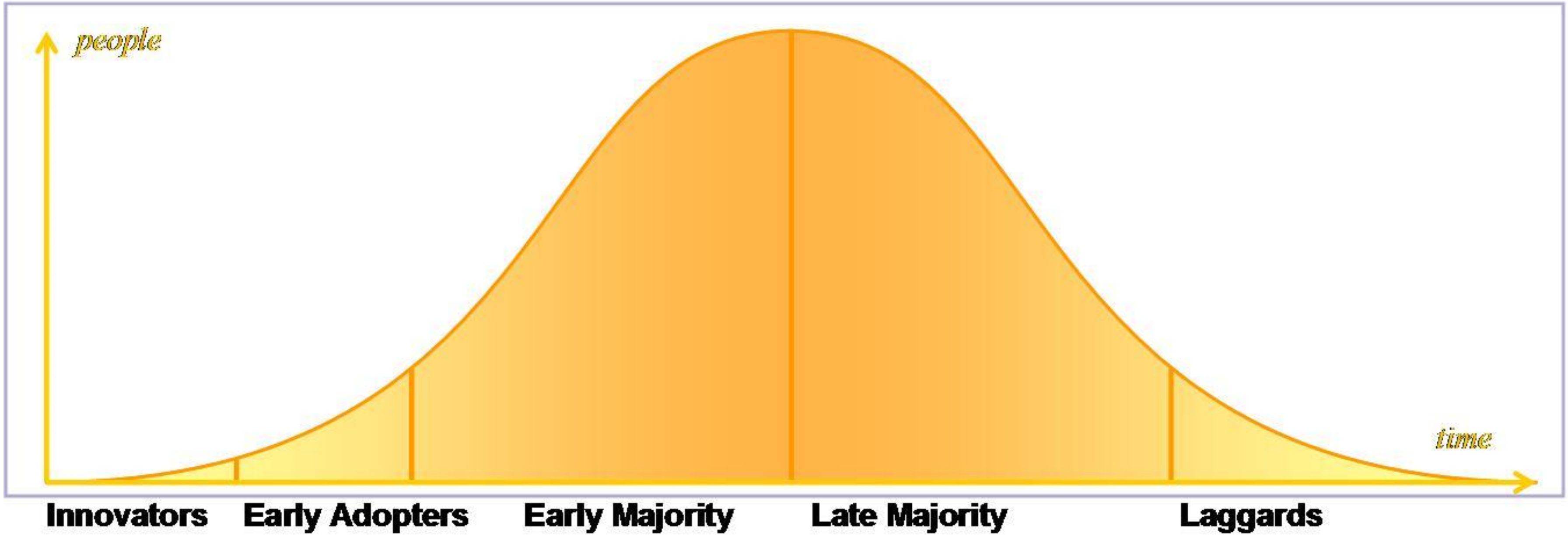
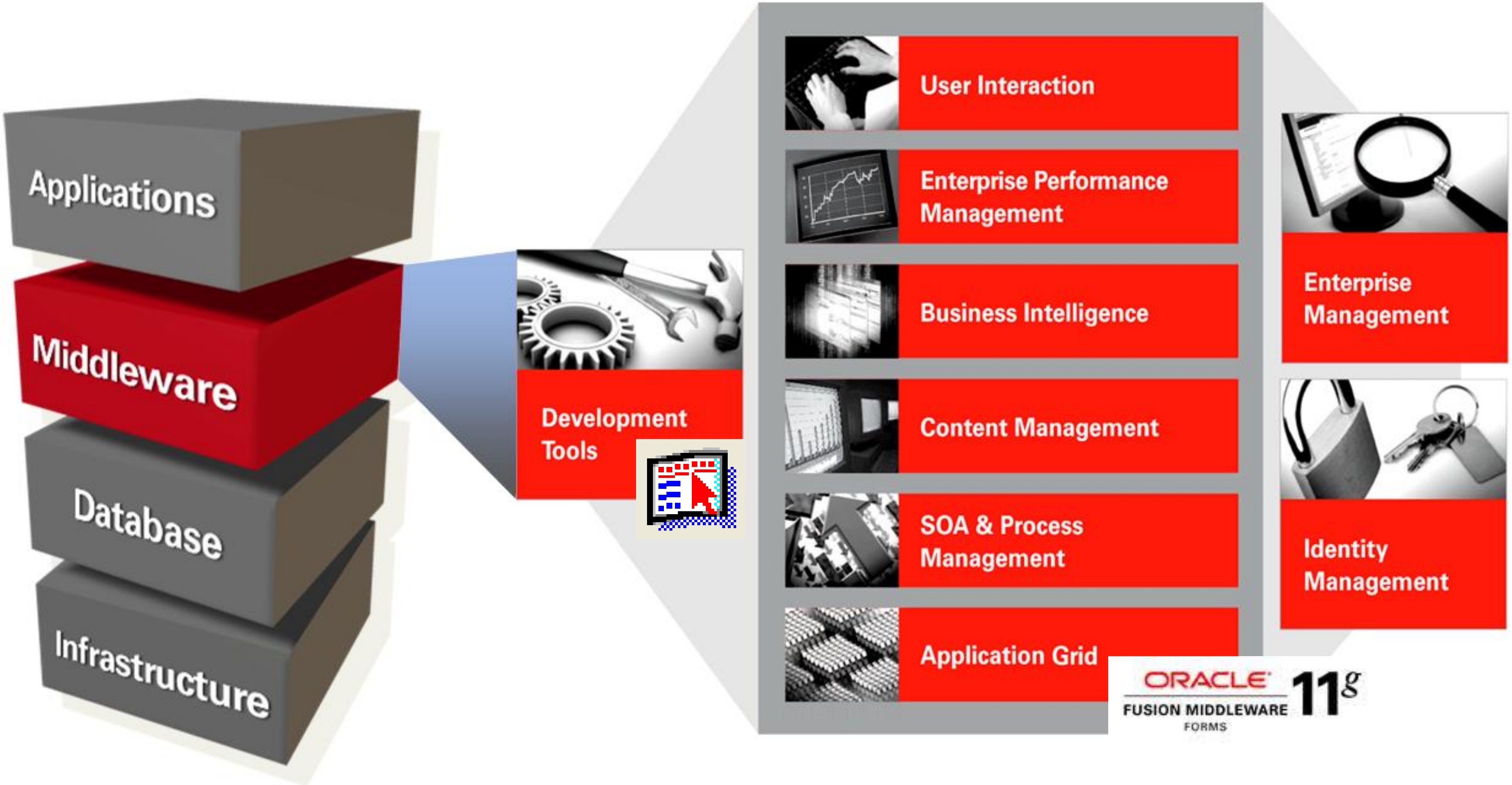
WHAT IS HISTORY FOR ONE, MAY STILL BE FUTURE FOR ANOTHER…



- GUI (Graphical User Interface)
- Web
- Extranet, Internet, Self Service
- SOA, Integration, B2B
- Mobile
- BPM and Workflow Management

FORMS 11G IS PART OF FUSION MIDDLEWARE – *PLATFORM FOR INNOVATION*



Applications

Middleware

Database

Infrastructure

Development Tools

User Interaction

Enterprise Performance Management

Business Intelligence

Content Management

SOA & Process Management

Application Grid

Enterprise Management

Identity Management

ORACLE FUSION MIDDLEWARE FORMS 11g

Review of Oracle Forms Strategy

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1998

300% JAVA

WHY?

THE WRONG REASONS

- Forms is not Web 2.0
- Forms is no longer/will no longer be supported
- Forms is old
- Development productivity with Forms is not high enough
- Our infrastructure cannot run Forms
- Forms is not Open Source
- Forms does not fit into our enterprise architecture
- My end users complain about their productivity
- We cannot provide the functionality required of us using Forms

AMIS

2010

END USERS ON STRIKE

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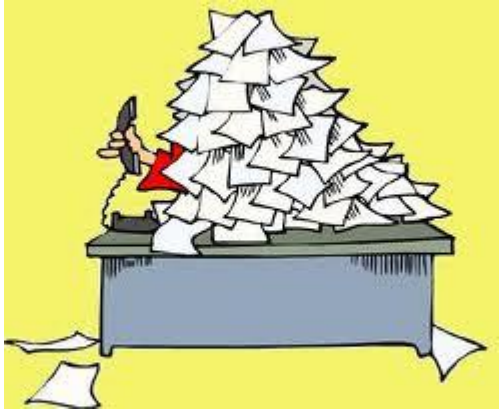
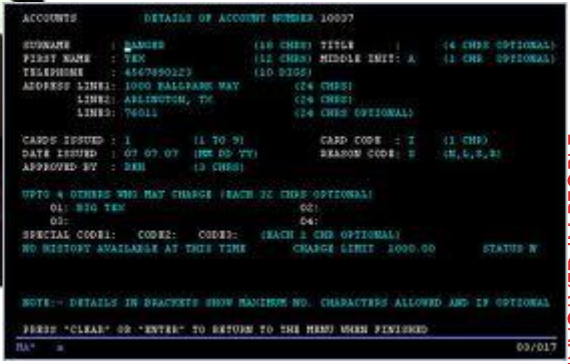
THE END USER – BACK THEN





```
ACCOUNTS          DETAILS OF ACCOUNT NUMBER 10007

SURNAME      : RANGER            (18 CHRS) TITLE      :        (4 CHRS OPTIONAL)
FIRST NAME   : TEX               (12 CHRS) MIDDLE INIT: A      (1 CHR  OPTIONAL)
TELEPHONE    : 4567890123        (10 DIGS)
ADDRESS LINE1: 1000 BALLPARK WAY       (24 CHRS)
        LINE2: ARLINGTON, TX           (24 CHRS)
        LINE3: 76011                   (24 CHRS OPTIONAL)

CARDS ISSUED : 1        (1 TO 9)        CARD CODE  : I     (1 CHR)
DATE ISSUED  : 07 07 07 (MM DD YY)      REASON CODE: N     (N,L,S,D)
APPROVED BY  : DEN      (3 CHRS)

UPTO 4 OTHERS WHO MAY CHARGE (EACH 32 CHRS OPTIONAL)
    01: BIG TEX                        02:
    03:                                04:
SPECIAL CODE1:   CODE2:   CODE3:   (EACH 1 CHR OPTIONAL)
NO HISTORY AVAILABLE AT THIS TIME      CHARGE LIMIT  1000.00      STATUS N


NOTE:- DETAILS IN BRACKETS SHOW MAXIMUM NO. CHARACTERS ALLOWED AND IF OPTIONAL

PRESS "CLEAR" OR "ENTER" TO RETURN TO THE MENU WHEN FINISHED
MA*   a                                                          03/017
```

THE END USER - NOW

GMS
talk
Salesforce
Google Apps
YouTube
twitter
facebook
skype
LinkedIn
DELL
AXIM
Internet Explorer
http://osnews.com/
OSnews

RIGHT REASONS

- We (soon) can no longer find (enough) resource willing and able to work on Forms technology
- Forms applications do not have the visual appeal we need to be competitive as an ISV
- We want to start servicing new (external) user groups who we cannot formally train on using the application
- We want to start supporting new channels in addition to intranet/extranet (internet, web service, mobile)

2009

NEW USERS GROUPS AND NEW CHANNELS

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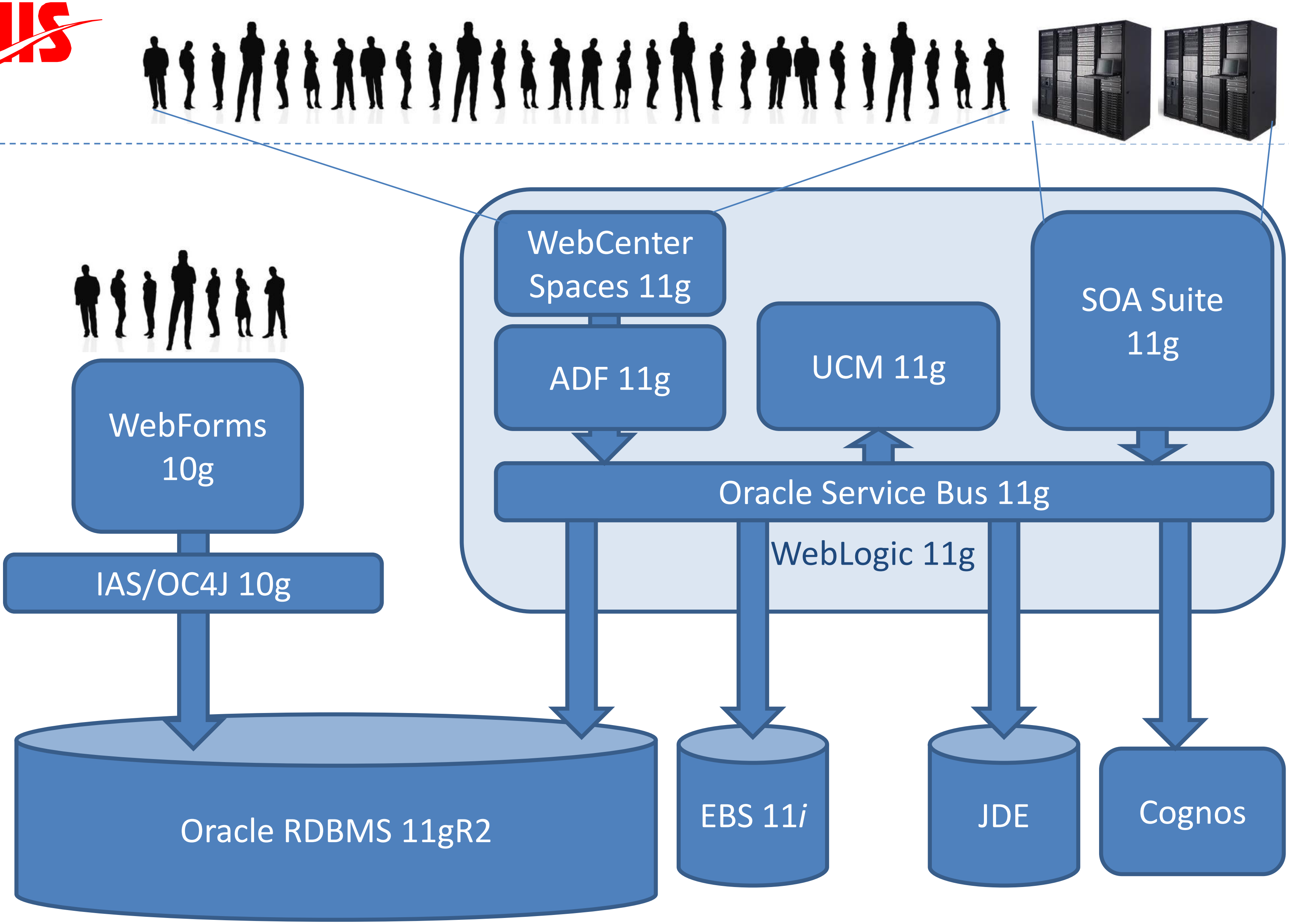


WebCenter Spaces 11g

ADF 11g

UCM 11g

SOA Suite 11g

Oracle Service Bus 11g

WebLogic 11g

WebForms 10g

IAS/OC4J 10g

Oracle RDBMS 11gR2

EBS 11*i*

JDE

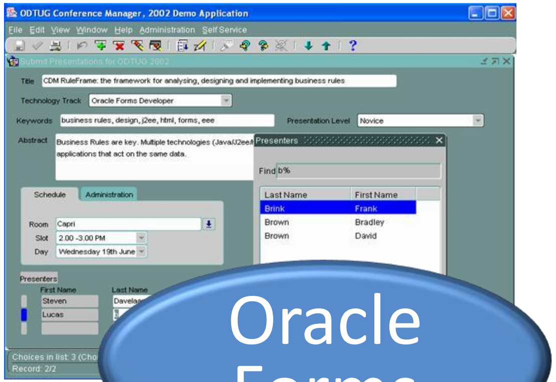
Cognos

ALWAYS GOOD REASONS …

- **For *investigating* new options for application development**
- **For updating people skills**
- **For constantly evolving the vision for business, architecture and application**
- **For applying modern software engineering methods and tools**
- **For constantly modernizing your applications (in baby steps)**
  - Note: there is hardly ever a *business* case for a migration for *technical* (or FUD) reasons only
- **For applying the right tool for the right job**

00
RUCANOR.
CENTER
max
Size 6

STANLEY
BLUE STRIKE
STANLEY



ODTUG Conference Manager, 2002 Demo Application

Submit Presentations for ODTUG 2002

Title: CDM RuleFrame: the framework for analysing, designing and implementing business rules

Technology Track: Oracle Forms Developer

Keywords: business rules, design, j2ee, html, forms, eee

Presentation Level: Novice

Abstract: Business Rules are key. Multiple technologies (Java/J2ee/ applications that act on the same data.

Schedule | Administration

Room: Capri

Slot: 2.00 -3.00 PM

Day: Wednesday 19th June

Presenters

First Name	Last Name
Steven	Davelaa
Lucas	

Presenters

Find: b%

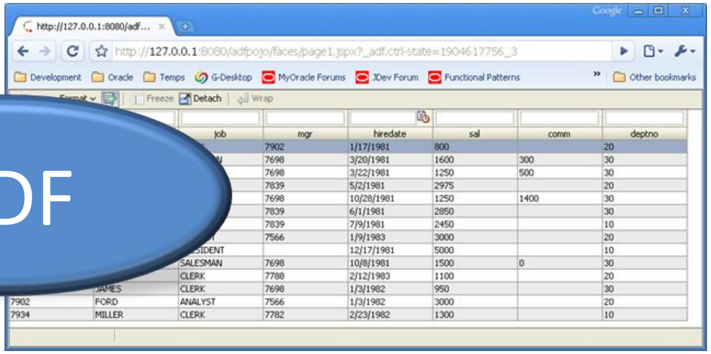
Last Name	First Name
Brink	Frank
Brown	Bradley
Brown	David

Choices in list: 3 (Cho

Record: 2/2

File
Edit
View
Window
Help
Administration
Self Service

Oracle Forms

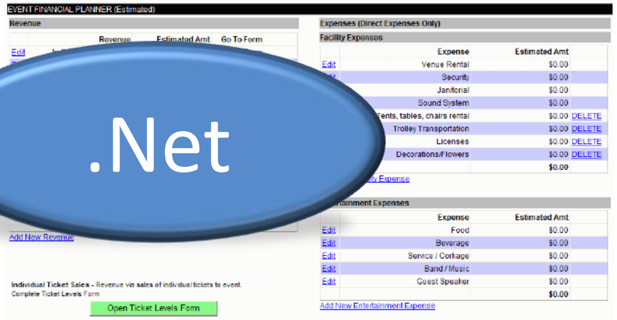


http://127.0.0.1:8080/adfpojo/faces/page1.jspx?_adf.ctrl-state=1904617756_3

Development
Oracle
Temps
G-Desktop
MyOracle Forums
JDev Forum
Functional Patterns
Other bookmarks
Format
Freeze
Detach
Wrap

		job	mgr	hiredate	sal	comm	deptno
			7902	1/17/1981	800		20
			7698	3/20/1981	1600	300	30
			7698	3/22/1981	1250	500	30
			7839	5/2/1981	2975		20
			7698	10/28/1981	1250	1400	30
			7839	6/1/1981	2850		30
			7839	7/9/1981	2450		10
			7566	1/9/1983	3000		20
		SIDENT		12/17/1981	5000		10
		SALESMAN	7698	10/8/1981	1500	0	30
		CLERK	7788	2/12/1983	1100		20
	JAMES	CLERK	7698	1/3/1982	950		30
7902	FORD	ANALYST	7566	1/3/1982	3000		20
7934	MILLER	CLERK	7782	2/23/1982	1300		10

ADF



EVENT FINANCIAL PLANNER (Estimated)

Revenue

	Revenue	Estimated Amt	Go To Form
Edit			

Add New Revenue

Individual Ticket Sales - Revenue via sales of individual tickets to event.
Complete Ticket Levels Form

Open Ticket Levels Form

Expenses (Direct Expenses Only)

Facility Expenses

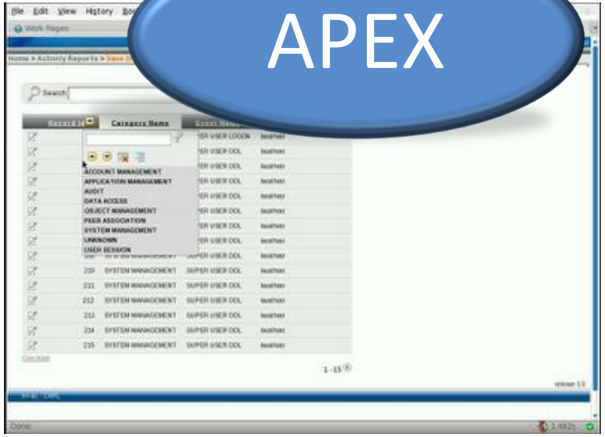
	Expense	Estimated Amt	
Edit	Venue Rental	$0.00	
	Security	$0.00	
	Janitorial	$0.00	
	Sound System	$0.00	
	Tents, tables, chairs rental	$0.00	DELETE
	Trolley Transportation	$0.00	DELETE
	Licenses	$0.00	DELETE
	Decorations/Flowers	$0.00	DELETE
		$0.00	

Entertainment Expenses

	Expense	Estimated Amt
Edit	Food	$0.00
Edit	Beverage	$0.00
Edit	Service / Corkage	$0.00
Edit	Band / Music	$0.00
Edit	Guest Speaker	$0.00
		$0.00

Add New Entertainment Expense

.Net



APEX

Open Source

2011

VISION FOR ISV

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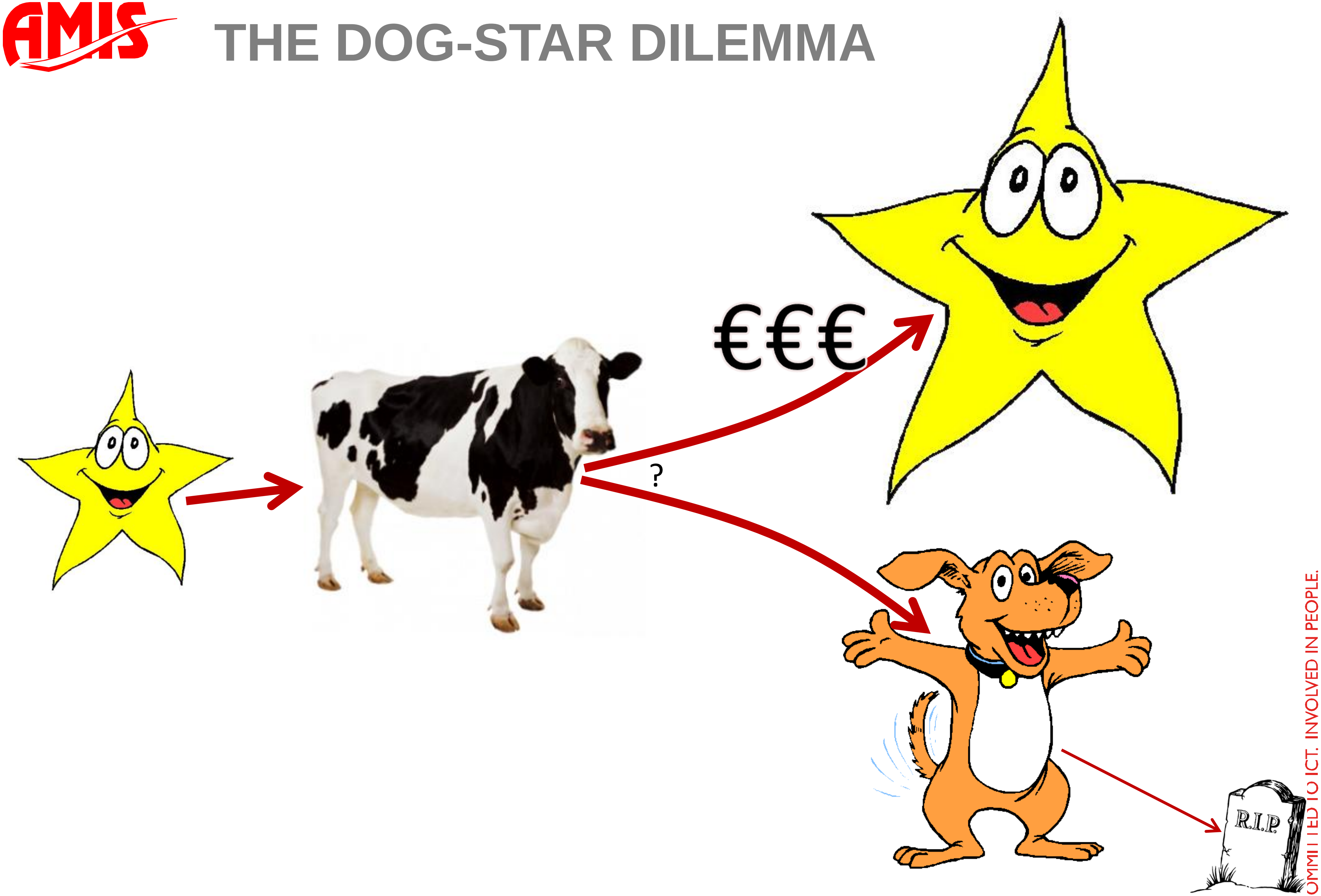
THE DOG-STAR DILEMMA



ACCOUNTING

- **Any application represents a substantial investment**
  - The actual lines of code themselves (and the functionality they provide)
  - The acceptance and skills of end users & other parties
  - The expertise of the development team
    - As well as architects, analysts, testers, administrators, …
- **Any replacement will require a similar investment**
  - Note that the original investment has been made over a period of 5 years, 10 years or even longer!
- **The applications and their underlying technology stack warrant a solid depreciation scheme**
  - For building up the budget to keep evolving

THERE IS NO BUSINESS CASE…

- **For a 1:1 rebuild (or even automated migration) of your existing Forms application**

- **If it looks like Forms, works like Forms, feels like Forms…**
- **… it might as well be Forms**

- **Business cases revolve around:**
  - New users/customers or channels
  - New functionality
  - Retention of customers with improved X, Y and Z
  - Lower costs for existing functionality

WHAT YOU SHOULD ALWAYS BE DOING

- **Work on your vision**
  - Strategy for the application and its architecture – derived from the strategy for the company
- **Stay on top of features of your current tool stack**
  - To at least pick the low hanging fruit

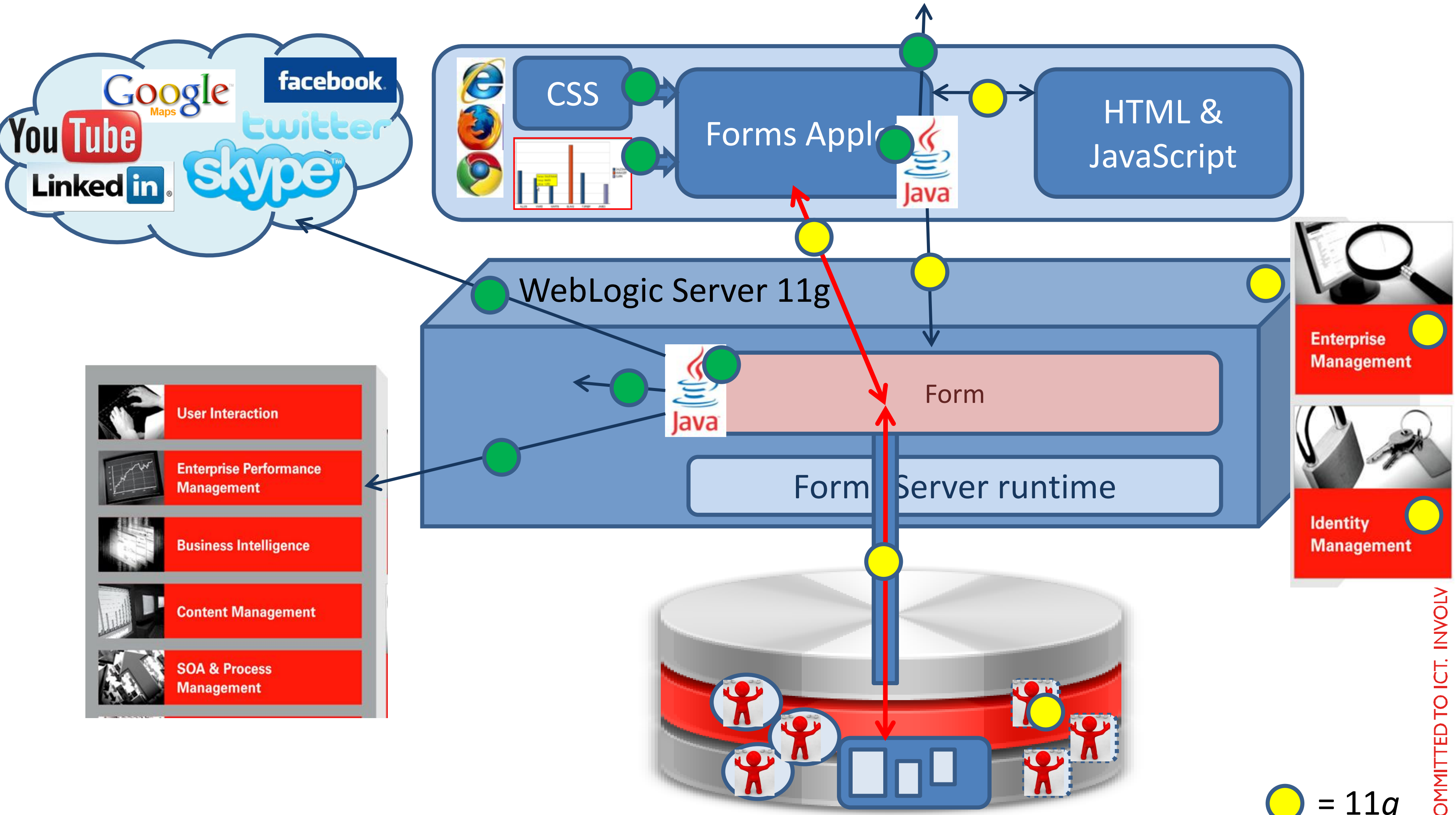
FORMS FUTURE SCENARIOS

- *Evolve/improve/"pimp'* existing Forms, continue to run as Forms but with a much more modern look and feel
- *Integrate in SOA environment* - hook up to push-mechanisms, queuing interaction and workflows
- *Embed in Web 2.0* (UI integration with ADF, .NET or other 'modern' web technologies)
- *Wrap as web service* (publish business logic from Forms & reuse with new User Interfaces or WebServices on top)
- *Render to new platforms* (render Forms as they are to new platforms like HTML browsers and mobile devices)
- *Migrate to new technology stack and architecture* (semi)-automagically *migrate/convert* Forms to new technology
- *Migrate to new technology stack and architecture: rebuild* functionality in new technology stack - leveraging functionality and experience from current Forms

MODERN FORMS – KEY PROOF POINTS

- **Runs on WebLogic – same platform as strategic middleware products including ADF/WebCenter, SOA Suite, BPM Suite, UCM, OBIEE and IdM**
- **Managed from Enterprise Manager 11g**
- **Integration with Oracle 11g Access Manager**
- **Support for Database Proxy Users**
- **(Client Side) Pluggable Java Components to add custom functionality and interaction elements to UI**
- **Integration with AQ – to allow for Server-to-Client push**
- **Java Importer – extend Form with middle tier Java**
- **JavaScript bridge**
  - from JavaScript to Form: pass information and events from web page to Form
  - from Form to JavaScript: pass data and event from Form to web page

FORMS 11G ARCHITECTURE

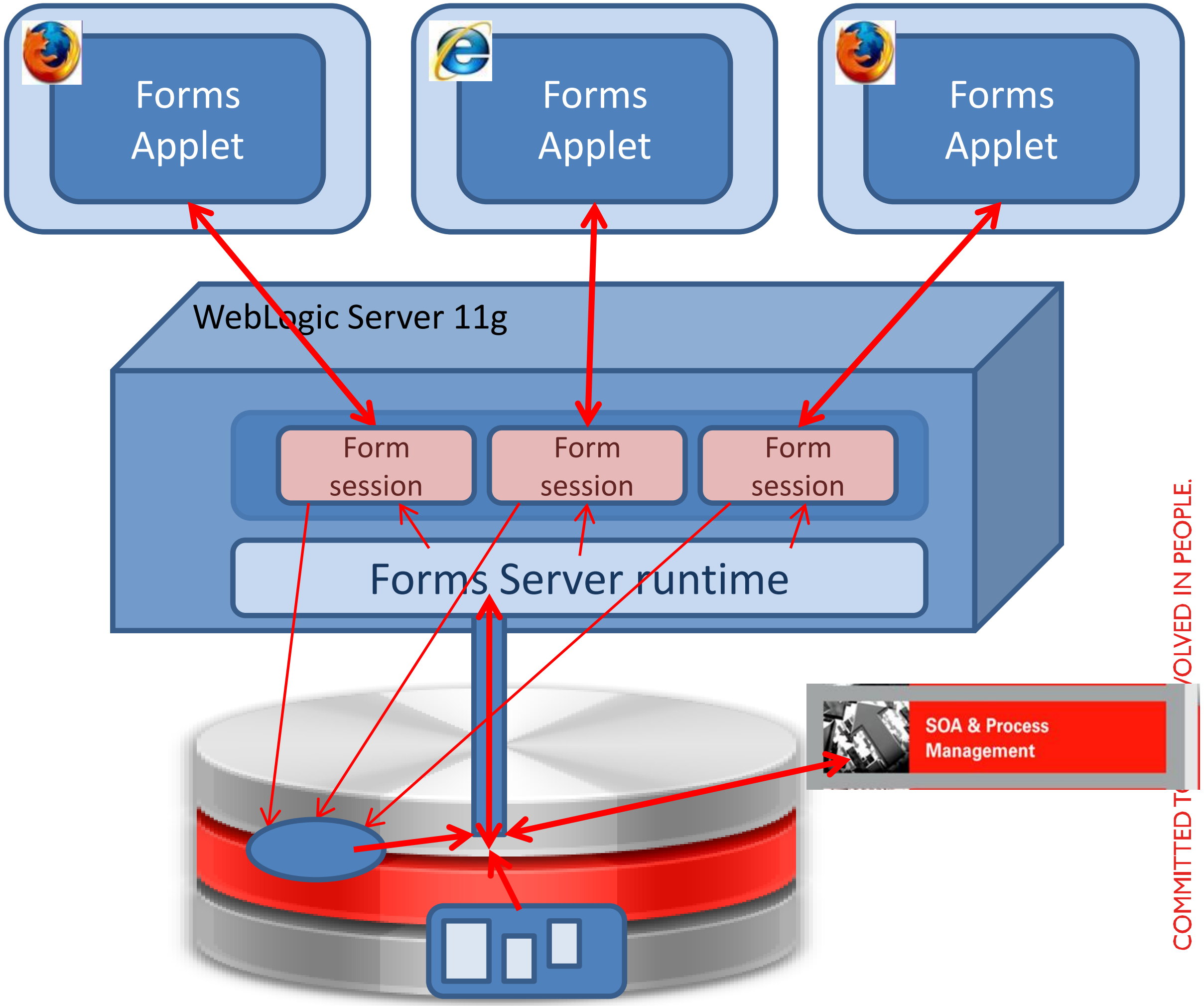

Google Maps
facebook
YouTube
twitter
LinkedIn
skype
CSS
Forms Appl
Java
HTML & JavaScript
WebLogic Server 11g
Java
Form
Form Server runtime
User Interaction
Enterprise Performance Management
Business Intelligence
Content Management
SOA & Process Management
Enterprise Management
Identity Management

🟡 = 11*g*

🟢 = 10*g*

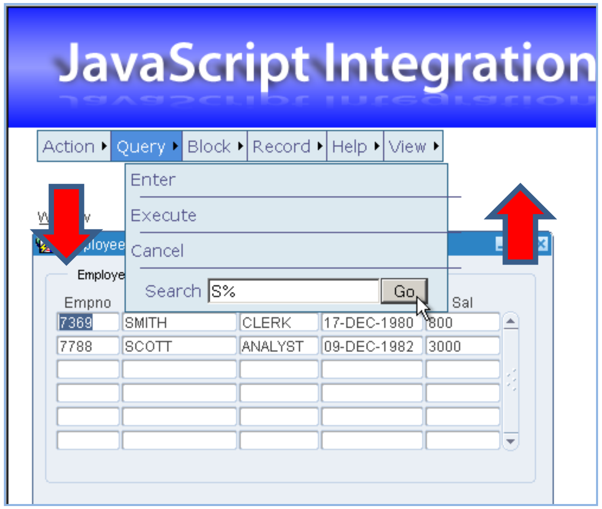
SERVER PUSH BASED ON AQ INTEGRATION

- **Form can subscribe on Advanced Queue**
- **WHEN-EVENT-RAISED trigger deals with event**
  - In Forms Server
- **Event can be pushed from Server to client**
- **Form can call PL/SQL procedure to publish events on AQ**
  - This enables Form2Form push


Forms Applet
Forms Applet
Forms Applet
WebLogic Server 11g
Form session
Form session
Form session
Forms Server runtime
SOA & Process Management

TWO-WAY JAVASCRIPT API IN FORMS APPLET TO INTERACT WITH WEB PAGE

- **JavaScript in web page can send information into Form**
  - HTML page uses raiseEvent JavaScript method on Applet Object to pass event with payload to the Form
  - Form receives and processes the event with WHEN-CUSTOM-JAVASCRIPT-EVENT triggers
- **Form can execute JavaScript snippet in the containing HTML page**
- **This allows for mutual synchronization, opening the door for embedding, merging of technologies**
  - For example Forms and .NET, APEX, any Java Web framework, ADF

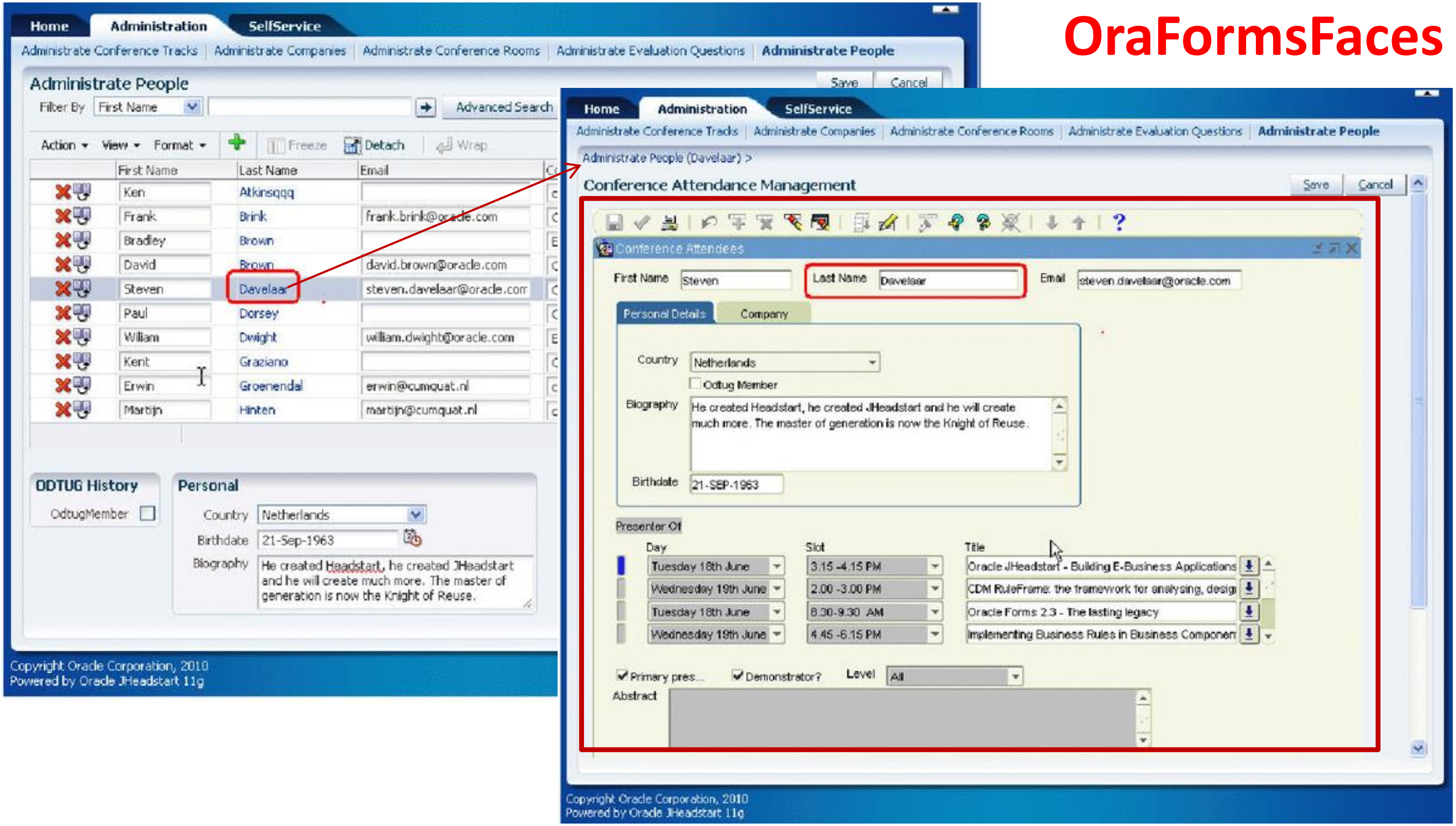

JavaScript Integration
Action
Query
Block
Record
Help
View
Enter
Execute
Cancel
Go
Employee
Employe

Search S%

Empno				Sal
7369	SMITH	CLERK	17-DEC-1980	800
7788	SCOTT	ANALYST	09-DEC-1982	3000

FORM EMBEDDED IN WEB APPLICATION (ADF, APEX, OSS JAVA)

OraFormsFaces


Home
Administration
SelfService
Administrate Conference Tracks
Administrate Companies
Administrate Conference Rooms
Administrate Evaluation Questions
Administrate People
Save
Cancel
Advanced Search
Action
View
Format
Freeze
Detach
Wrap

Administrate People

Filter By: First Name

First Name	Last Name	Email
Ken	Atkinsqqq	
Frank	Brink	frank.brink@oracle.com
Bradley	Brown	
David	Brown	david.brown@oracle.com
Steven	Davelaar	steven.davelaar@oracle.co
Paul	Dorsey	
William	Dwight	william.dwight@oracle.com
Kent	Graziano	
Erwin	Groenendal	erwin@cumquat.nl
Martijn	Hinten	martijn@cumquat.nl

ODTUG History

OdtugMember ☐

Personal

Country: Netherlands

Birthdate: 21-Sep-1963

Biography: He created Headstart, he created JHeadstart and he will create much more. The master of generation is now the Knight of Reuse.

Copyright Oracle Corporation, 2010
Powered by Oracle JHeadstart 11g

Administrate People (Davelaar) >

Conference Attendance Management

Conference Attendees

First Name: Steven

Last Name: Davelaar

Email: steven.davelaar@oracle.com

Personal Details
Company

Country: Netherlands

☐ Odtug Member

Biography: He created Headstart, he created JHeadstart and he will create much more. The master of generation is now the Knight of Reuse.

Birthdate: 21-SEP-1963

Presenter Of

Day	Slot	Title
Tuesday 18th June	3.15 -4.15 PM	Oracle JHeadstart - Building E-Business Applications
Wednesday 19th June	2.00 -3.00 PM	CDM RuleFrame: the framework for analysing, desig
Tuesday 18th June	8.30-9.30 AM	Oracle Forms 2.3 - The lasting legacy
Wednesday 19th June	4.45 -6.15 PM	Implementing Business Rules in Business Componen

☑ Primary pres...

☑ Demonstrator?

Level: All

Abstract

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Powered by Oracle JHeadstart 11g

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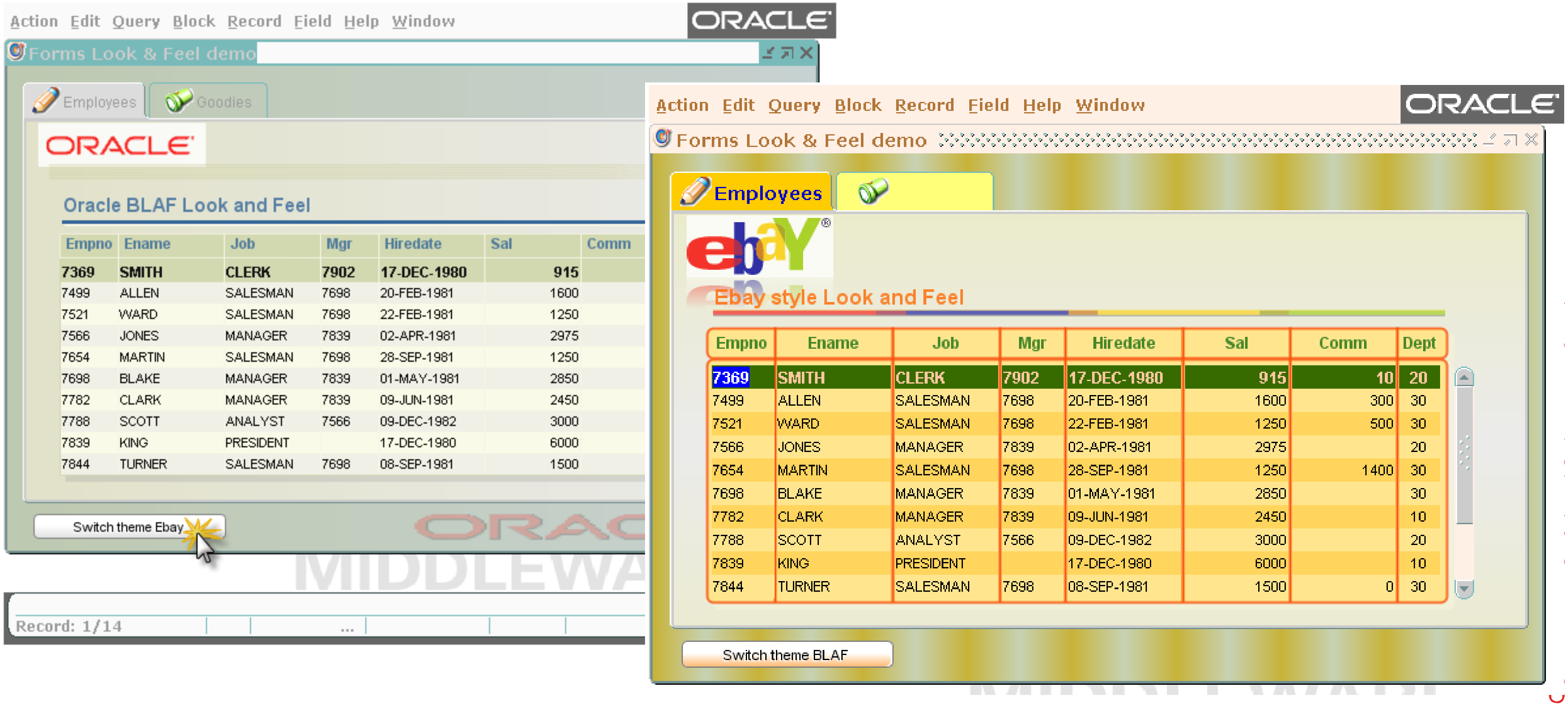
WEB 2.0 LOOK & FEEL – DRIVEN BY CSS

- **Community Project *Forms Look and Feel***
- **PJC based mechanism to style Forms using CSS**


Action Edit Query Block Record Field Help Window
ORACLE
Forms Look & Feel demo
Employees
Goodies
ORACLE
Switch theme Ebay
Record: 1/14
Action Edit Query Block Record Field Help Window
ORACLE
Forms Look & Feel demo
Employees
Switch theme BLAF

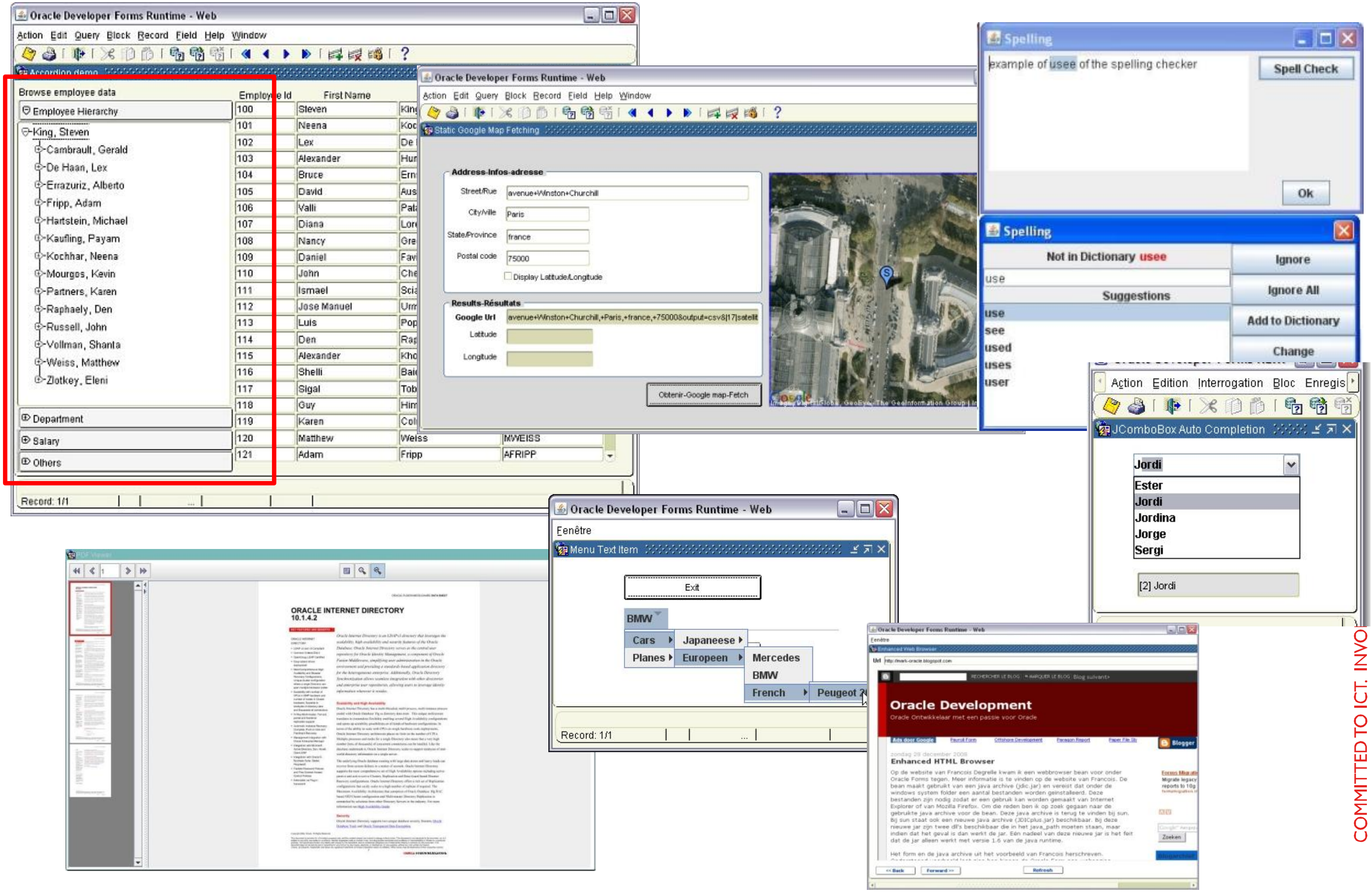
Oracle BLAF Look and Feel

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm
7369	SMITH	CLERK	7902	17-DEC-1980	915	
7499	ALLEN	SALESMAN	7698	20-FEB-1981	1600	
7521	WARD	SALESMAN	7698	22-FEB-1981	1250	
7566	JONES	MANAGER	7839	02-APR-1981	2975	
7654	MARTIN	SALESMAN	7698	28-SEP-1981	1250	
7698	BLAKE	MANAGER	7839	01-MAY-1981	2850	
7782	CLARK	MANAGER	7839	09-JUN-1981	2450	
7788	SCOTT	ANALYST	7566	09-DEC-1982	3000	
7839	KING	PRESIDENT		17-DEC-1980	6000	
7844	TURNER	SALESMAN	7698	08-SEP-1981	1500	

Ebay style Look and Feel

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Dept
7369	SMITH	CLERK	7902	17-DEC-1980	915	10	20
7499	ALLEN	SALESMAN	7698	20-FEB-1981	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-1981	1250	500	30
7566	JONES	MANAGER	7839	02-APR-1981	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-1981	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-1981	2850		30
7782	CLARK	MANAGER	7839	09-JUN-1981	2450		10
7788	SCOTT	ANALYST	7566	09-DEC-1982	3000		20
7839	KING	PRESIDENT		17-DEC-1980	6000		10
7844	TURNER	SALESMAN	7698	08-SEP-1981	1500	0	30

COLLECTION OF PJC BASED EXTENSIONS


Oracle Developer Forms Runtime - Web
Action Edit Query Block Record Field Help Window
Accordion demo
Static Google Map Fetching
Spelling
Menu Text Item
JComboBox Auto Completion
Action Edition Interrogation Bloc Enregis
Enhanced Web Browser
PDF Viewer

Browse employee data

Employee Hierarchy

- King, Steven
  - Cambrault, Gerald
  - De Haan, Lex
  - Errazuriz, Alberto
  - Fripp, Adam
  - Hartstein, Michael
  - Kaufling, Payam
  - Kochhar, Neena
  - Mourgos, Kevin
  - Partners, Karen
  - Raphaely, Den
  - Russell, John
  - Vollman, Shanta
  - Weiss, Matthew
  - Zlotkey, Eleni

Department

Salary

Others

Employee Id	First Name
100	Steven
101	Neena
102	Lex
103	Alexander
104	Bruce
105	David
106	Valli
107	Diana
108	Nancy
109	Daniel
110	John
111	Ismael
112	Jose Manuel
113	Luis
114	Den
115	Alexander
116	Shelli
117	Sigal
118	Guy
119	Karen
120	Matthew
121	Adam

Record: 1/1

Address-Infos-adresse

Street/Rue: avenue+Winston+Churchill
City/Ville: Paris
State/Province: france
Postal code: 75000
☐ Display Latitude/Longitude

Results-Résultats

Google Url: avenue+Winston+Churchill,+Paris,+france,+75000&output=csv&|17|satellit
Latitude:
Longitude:

Obtenir-Google map-Fetch

example of usee of the spelling checker

Spell Check

Ok

Not in Dictionary **usee**

use

Suggestions

- use
- see
- used
- uses
- user

Ignore | Ignore All | Add to Dictionary | Change

Jordi

- Ester
- Jordi
- Jordina
- Jorge
- Sergi

[2] Jordi

Fenêtre

Exit

BMW

- Cars
- Planes
  - Japaneese
  - Europeen
    - Mercedes
    - BMW
    - French
      - Peugeot

Record: 1/1

ORACLE INTERNET DIRECTORY 10.1.4.2

Url: http://lmark-oracle.blogspot.com

Oracle Development

Oracle Ontwikkelaar met een passie voor Oracle

zondag 28 december 2008

Enhanced HTML Browser

Op de website van Francois Degrelle kwam ik een webbrowser bean voor onder Oracle Forms tegen. Meer informatie is te vinden op de website van Francois. De bean maakt gebruikt van een java archive (jdic.jar) en vereist dat onder de windows system folder een aantal bestanden worden geinstalleerd. Deze bestanden zijn nodig zodat er een gebruik kan worden gemaakt van Internet Explorer of van Mozilla Firefox. Om die reden ben ik op zoek gegaan naar de gebruikte java archive voor de bean. Deze java archive is terug te vinden bij sun. Bij sun staat ook een nieuwe java archive (JDICplus.jar) beschikbaar. Bij deze nieuwe jar zijn twee dll's beschikbaar die in het java_path moeten staan, maar indien dat het geval is dan werkt de jar. Eén nadeel van deze nieuwe jar is het feit dat de jar alleen werkt met versie 1.6 van de java runtime.

Het form en de java archive uit het voorbeeld van Francois herschreven.

<< Back | Forward >> | Refresh

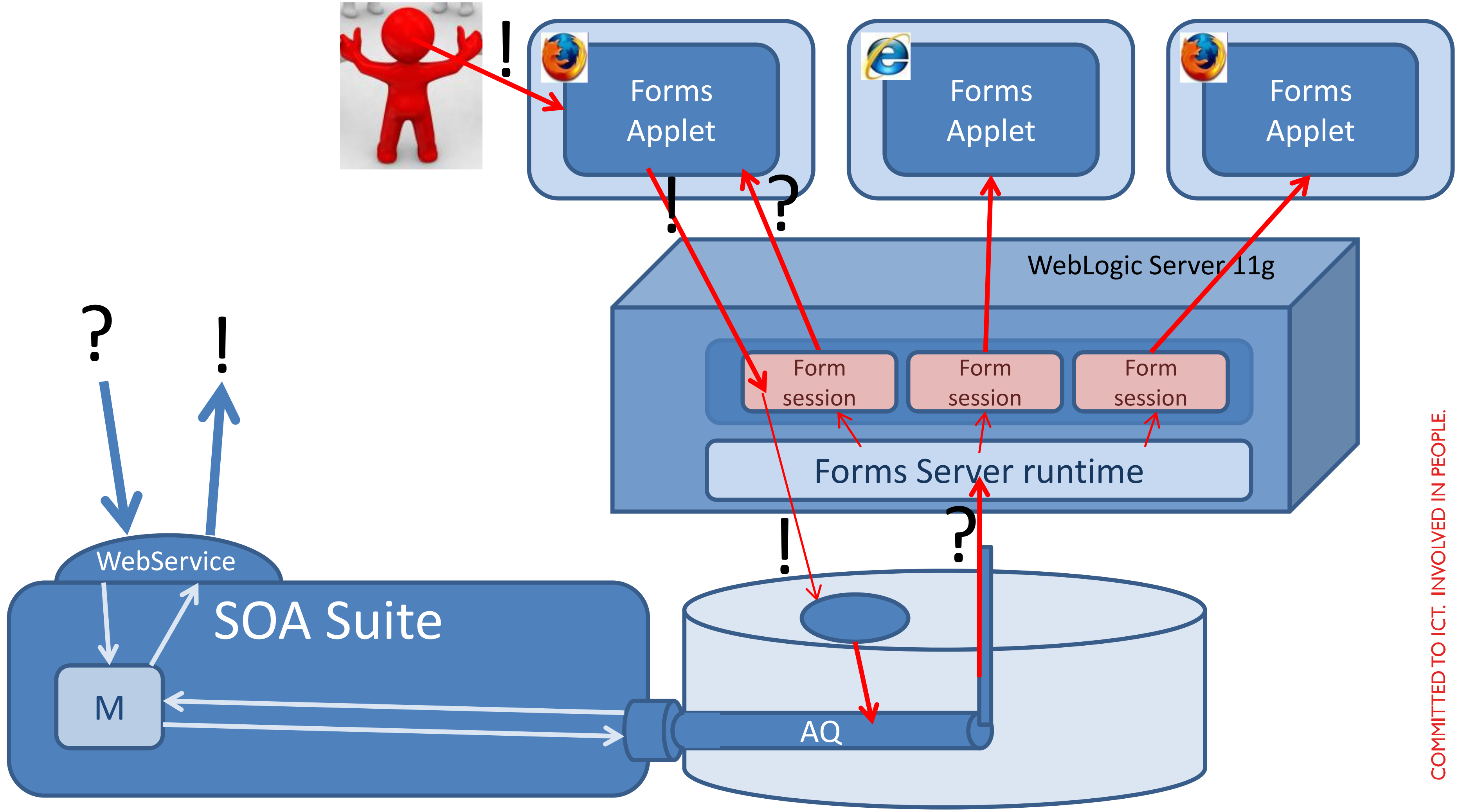
Common Theme in Forms Evolution:

INTEGRATION

BASED ON STANDARDS –
WITH TECHNOLOGIES ON EVERY TIER

CATERING FOR HYBRID-AND-INTEGRATED APPLICATION ARCHITECTURE

MODERN FORMS SCENARIOS – FORMS IMPLEMENTING SOAP WEB SERVICE


!
Forms
Applet
Forms
Applet
Forms
Applet
!
?
WebLogic Server 11g
Form
session
Form
session
Form
session
Forms Server runtime
?
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WebService
SOA Suite
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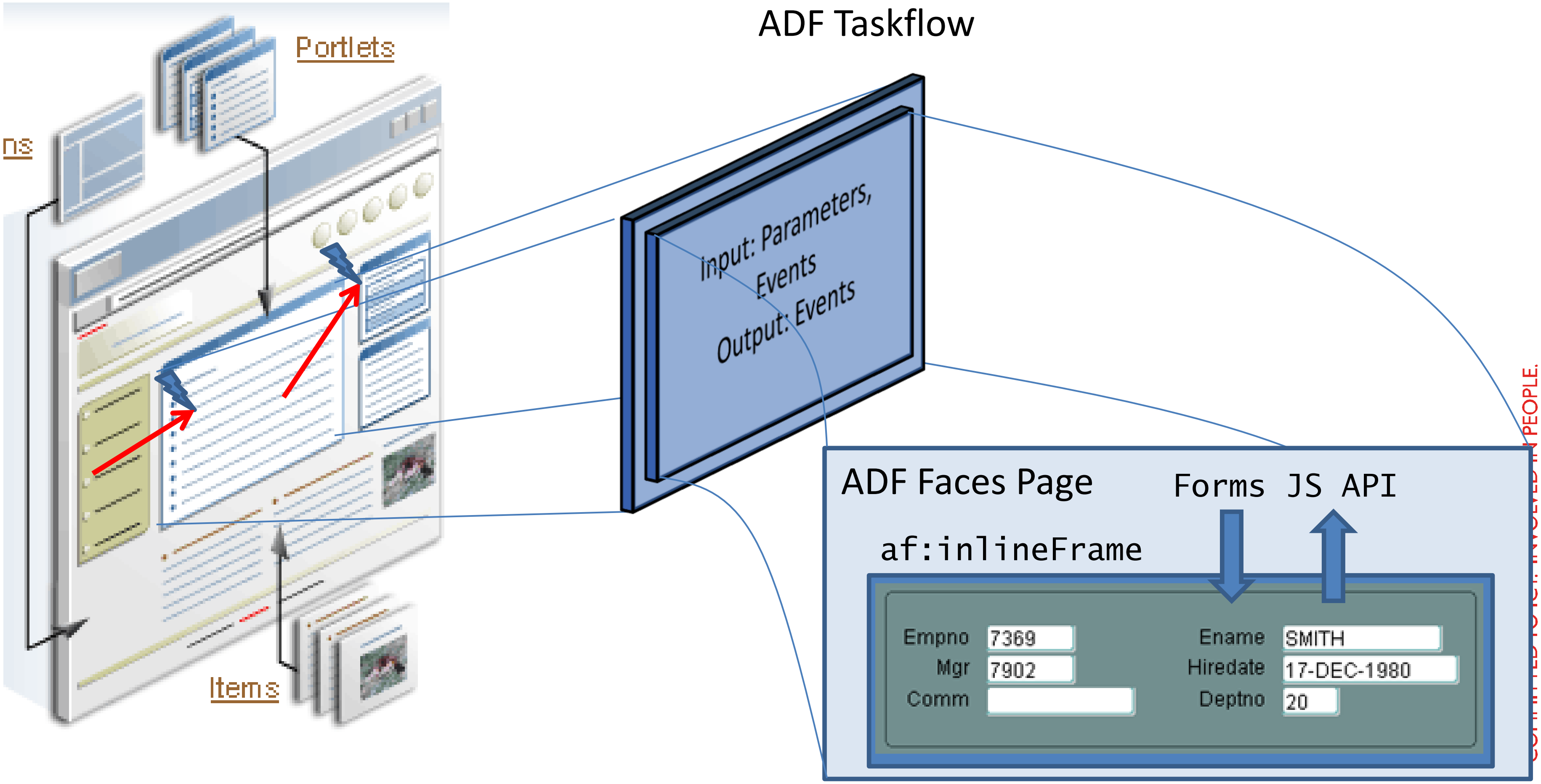
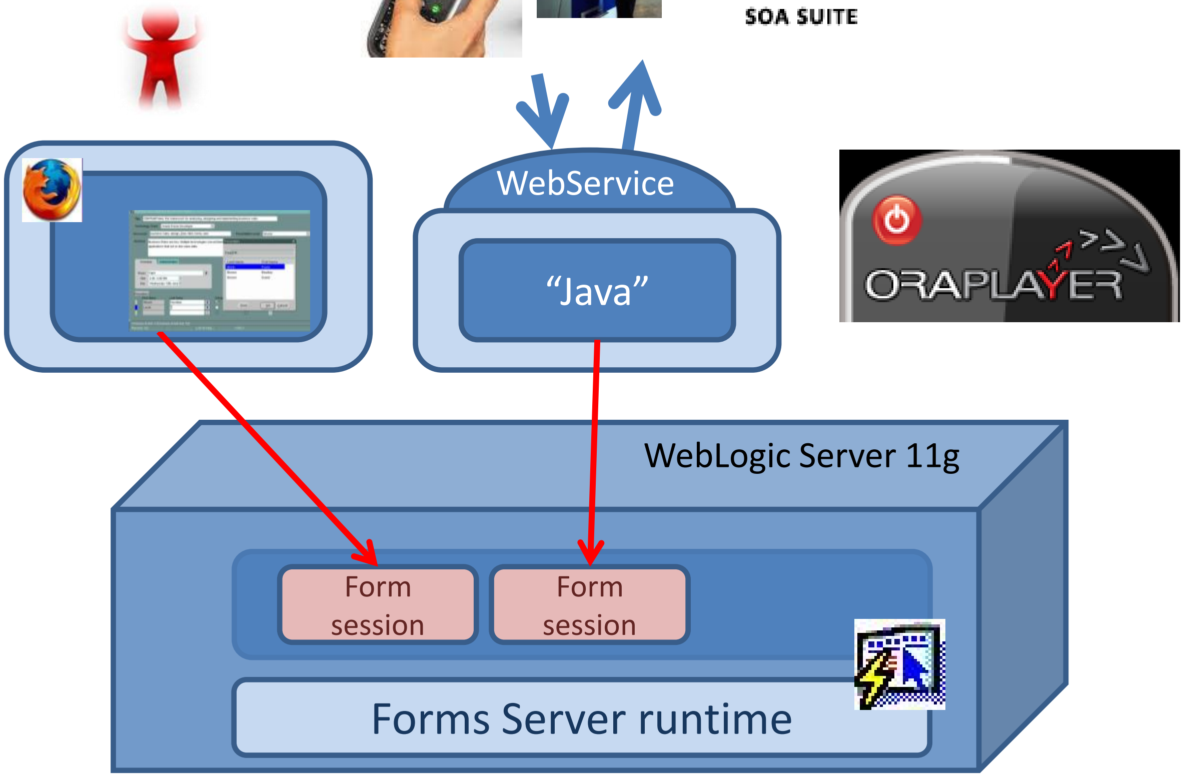
MODERN FORMS SCENARIOS – FORMS IN JEE / WSRP WEB PORTAL


Portlets
ns
Items
ADF Taskflow
Input: Parameters, Events
Output: Events
ADF Faces Page
Forms JS API
af:inlineFrame

Empno 7369
Mgr 7902
Comm
Ename SMITH
Hiredate 17-DEC-1980
Deptno 20

WRAP FORMS AS WEB SERVICE AND CREATE NEW USER INTERFACES

- **Reuse existing Forms – running on Form Server, unchanged, leveraging all existing business logic, interaction scenarios wrapped as Web Service**
- **OraPlayer**



WebService

"Java"

WebLogic Server 11g

Form session

Form session

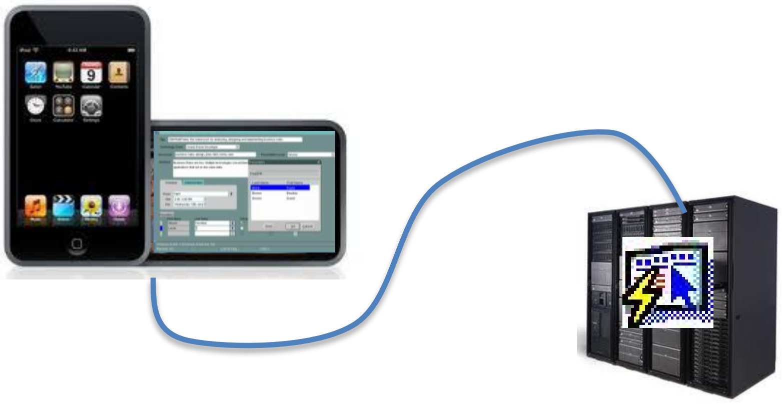
Forms Server runtime

RENDER EXISTING FORMS TO DIFFERENT (NEW) PLATFORMS

- **Reuse existing Forms –render as pure HTML to any HTML browser –including on Mobile devices**
- **Yo!Forms and Yo!Server**

Yo!Forms

Yo!Server



MIGRATE OR REBUILD SELECTED PIECES FOR NEW USER GROUPS OR CHANNELS

- **Rebuild: using your technology of choice**
  - .NET
  - Some Java Open Source Framework
  - 3rd Party 4GL like technology
  - ADF (Oracle's own strategic application development framework)

Microsoft .net

Java

ORACLE
FUSION MIDDLEWARE
APPLICATION DEVELOPMENT FRAMEWORK

- **Or: Migrate (even convert) using tools on offer**
  - Pitss, Ciphersoft, Qafe, JHeadstart, ASP Solutions

professional it software & services pitss™

ORACLE FUSION MIDDLEWARE 11g
JHeadstart

BUILD ON NEW TECHNOLOGY STACKS USING EXISTING DEVELOPER SKILLS

- **APEX**
  - Comes even with (basic) migration tool
- **Formspider**

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formspider™

www.theformspider.com

Yalım K. Gerger

- 100% PL/SQL
- No Java, No JavaScript Needed.
- Applications work 100% AJAX DTHML/JavaScript
- All Applications work in All Browsers by Default
- Formspider is cross platform like Oracle Forms
- Formspider Development is Very Much Like Oracle Forms
- Downloaded over 2000 Oracle Customers. It is the new hot tool. :-)
- Formspider is the tool Oracle should have built for PL/SQL Developers

formspider™ References

- U.S. Air Force

Recruiting System. 3000 users.

- ING Insurance&Retirement Fund

Agency Portal.

- New York State

OASAS Drug and Alcohol Abuse Treatment Program Budget Management Applications. The Application manages about a billion dollars. 250 users.

- OK International

Leading global supplier of soldering tools.

- Rotometrics

World’s largest Rotary Die Manufacturer. Ordering System.1000 users.

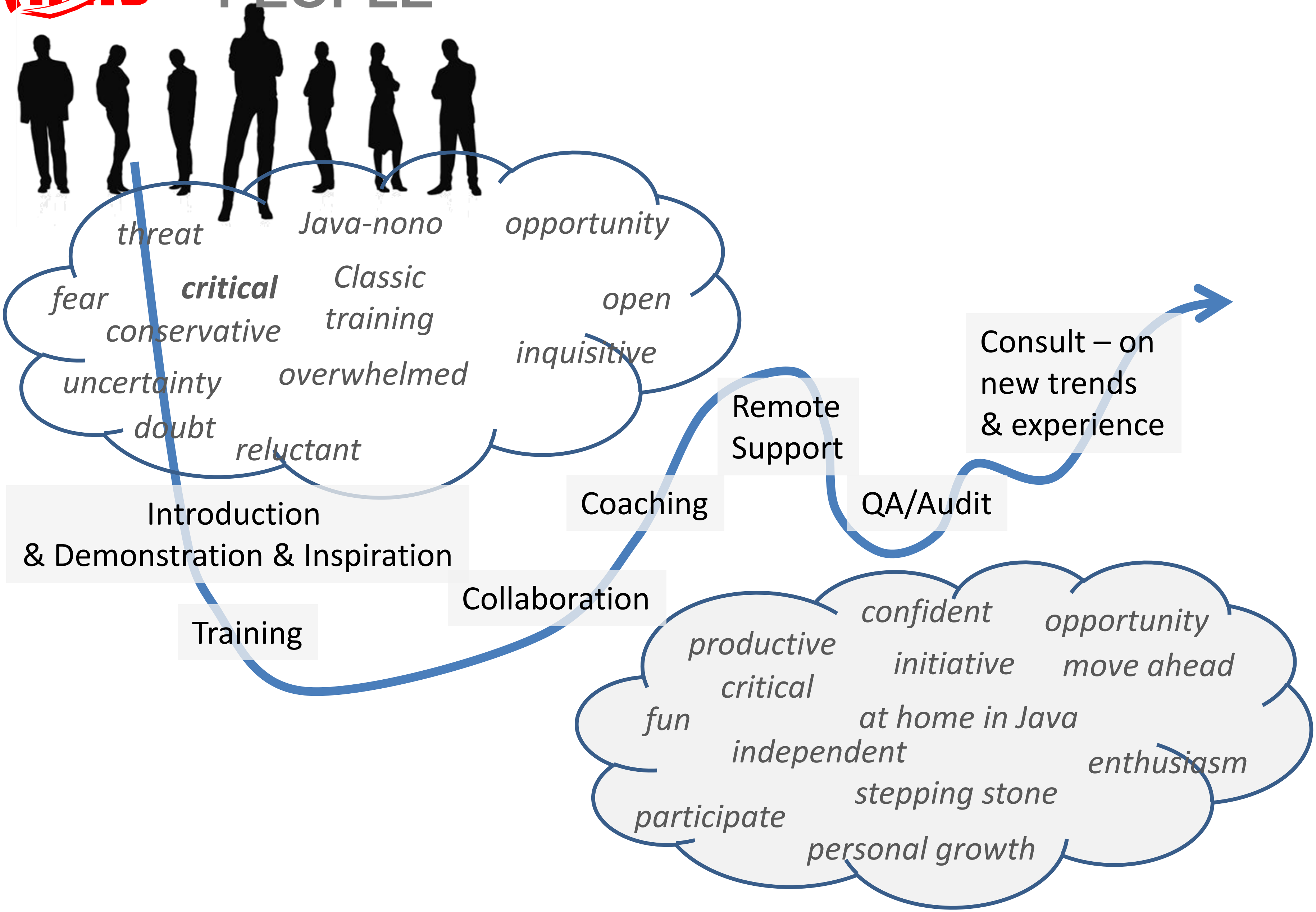
HYBRID RESULT

- **Differences across**
  - User groups
  - Channels and devices
  - Functional requirements
  - ‘Service Level’ demands
- **.. *will* require various, different technological solutions.**
- **Moderns IT architectures, standards and technologies make hybrid and integrated solutions possible.**
- **This should be your objective too!**

WHAT YOU SHOULD ALWAYS BE DOING

- **Work on your vision**
  - Strategy for the application and its architecture – derived from the strategy for the company
- **Stay on top of features of your current tool stack**
  - To at least pick the low hanging fruit
- **Prepare for a future with a hybrid environment**
- **Continue to evolve skills of the people involved**
  - You need to have at least some Java, XML, Web Service skills on the team
  - Continue to upgrade SQL, PLSQL and Forms skills
- **Design and implement following 'decoupling' as architecture principle**

PEOPLE



threat
Java-nono
opportunity
fear
critical
Classic training
open
conservative
inquisitive
uncertainty
overwhelmed
doubt
reluctant

Introduction
& Demonstration & Inspiration

Training

Collaboration

Coaching

Remote Support

QA/Audit

Consult – on new trends & experience

confident
opportunity
productive
initiative
move ahead
critical
fun
at home in Java
independent
enthusiasm
stepping stone
participate
personal growth

CHERISH & INVOLVE *ALL* STAKEHOLDERS

- **Make project visible**
- **Involve *everyone***
- **Frequent communication**
- **Search for added value in various dimensions**
  - Functionality, Quality, Cost, Satisfaction for both end users and the IT team

✓Developers
✓Administrators
✓Information analysts
✓Business owner & Sales
✓Customers & End Users

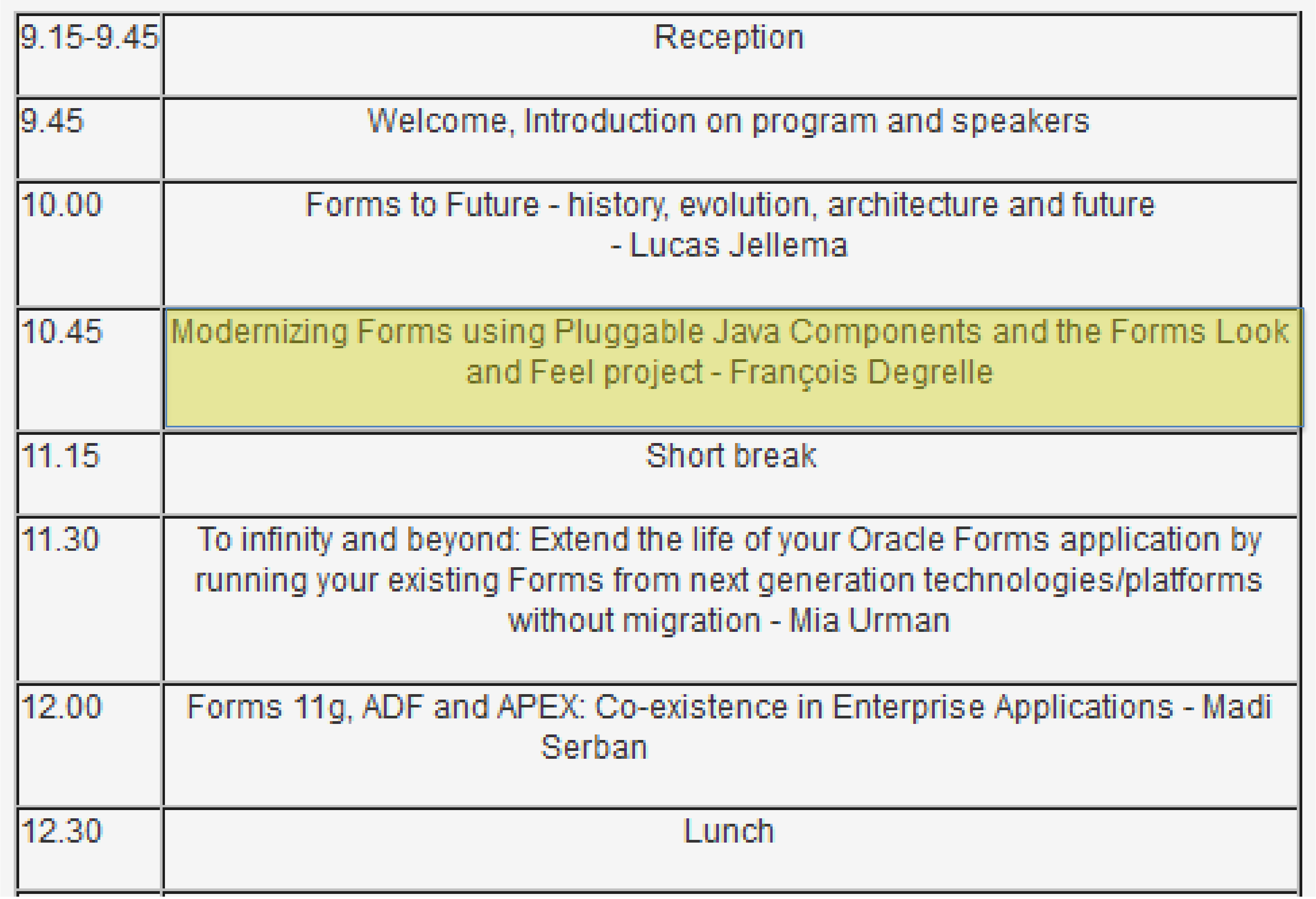
TAKE AWAYS

- **Plan based on a vision with the application (and perhaps the enterprise on the whole)**
- **Decide using valid, rational arguments**
- **Reckon with a prolonged (continuous) evolution rather than a big bang switch over**
- **Do *not even* consider fully automated migration from Forms to <something else>**
- **Hybrid environments and mutually complementary approaches are likely the way to go**
- **Decoupling will help with building the hybrid architecture and helps low-impact optimization**
  - Move data-oriented business logic out of Forms to DB
- **Moving to Forms 11g (more specifically: to WebLogic Server) is a smart move to a solid foundation**
- **Forms 11g is more modern than many people realize**
- **People are the key to success**

THE FUTURE OF FORMS IS….

A LANDSCAPE IN WHICH **FORMS** WILL PROBABLY PLAY AN IMPORTANT ROLE FOR QUITE SOME TIME TO COME – ALONG WITH NEW TECHNOLOGIES TO CATER FOR NEW USER GROUPS, NEW CHANNELS AND NEW FUNCTIONAL REQUIREMENTS

NEXT UP …



9.15-9.45	Reception
9.45	Welcome, Introduction on program and speakers
10.00	Forms to Future - history, evolution, architecture and future - Lucas Jellema
10.45	Modernizing Forms using Pluggable Java Components and the Forms Look and Feel project - François Degrelle
11.15	Short break
11.30	To infinity and beyond: Extend the life of your Oracle Forms application by running your existing Forms from next generation technologies/platforms without migration - Mia Urman
12.00	Forms 11g, ADF and APEX: Co-existence in Enterprise Applications - Madi Serban
12.30	Lunch

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