Forms 11g, ADF & APEX Co-existence in Enterprise Applications – PART 2

The Future of Forms SIG Meeting
May 15, 2012
AMIS, Edisonbaan 15, Nieuwegein

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Product Manager
PITSS

professional it software & services pitss

ORACLE Gold Partner

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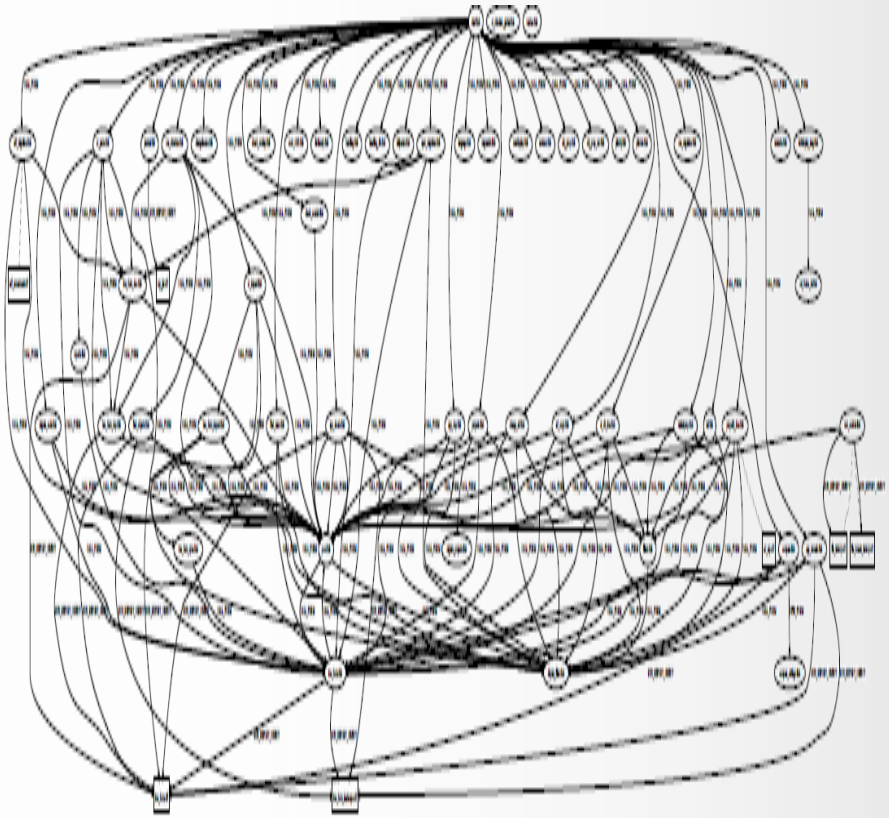
Where Were We? Complexity Analysis

Agenda

1. Simplify, de-clutter
2. Evaluate application
3. Take decisions: where to go
4. Learn: how to do it
5. Migrate
6. Integrate



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PITSS.CON Modernization Process

Quality Assurance

Documentation

Re-Engineering

Analysis

Cleaning
Dead Code
Redundancy

SOA

BL 2 DB

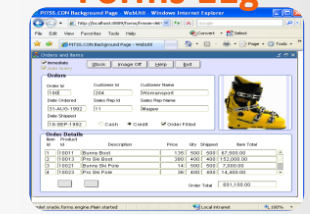
SOA

Migration

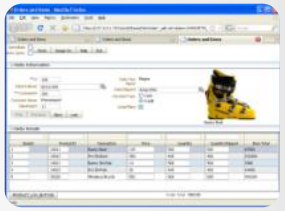
Iterations

Co-Existence of Technologies/ Partial Projects

Forms 11g

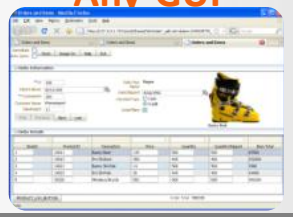


ADF



APEX

Any-GUI



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PITSS.CON Modernization Process in ADF Projects

Phase 1

Analyzing

SOA Cleaning Dead Code Redundancy

SOA Business Logic to Database

SOA Forms 11g Migration

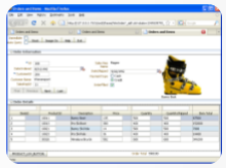
Forms 11g

Phase 2

Phase 3

SOA ADF 11g Migration

Java ADF



ADF Fine-tuning

Re-Engineering

Quality Assurance

Documentation

Iterations

Co-Existence

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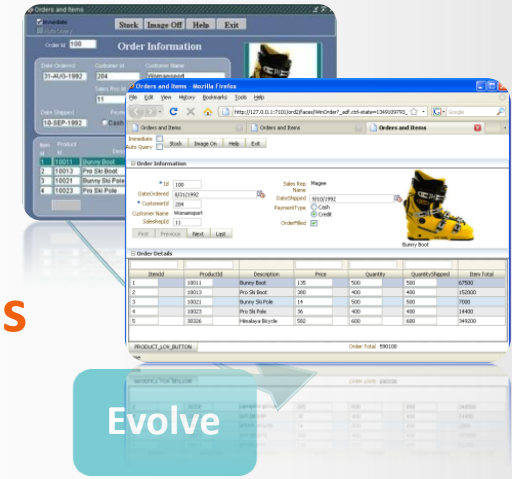
PITSS Recent ADF Projects



- → Boeing, US
- → Airas Intersoft, UK — in progress
  - 600 Forms 10g to Forms 11g and ADF 11g
  - Designer-generated, very complex UI
- → ADF Migration Days Germany — 2 x Year
- → USSOCOM — in progress
  - 400 Forms 10g to ADF 11g
- → US Health Care Provider — completed
  - Forms 6i to ADF 11g
  - Complex UI, Webutil, LDAP security, Reports

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1. Application Analysis

How to estimate the efforts down to each individual module?

All application components are important:

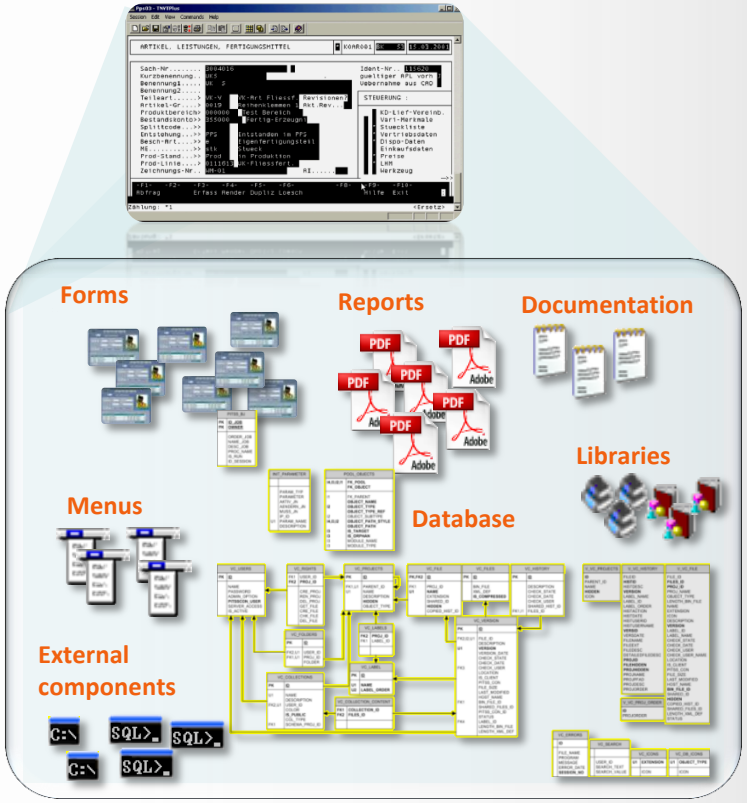
FMB, MMB, PLL, OLB, DB, …

⇒ Dependency Analysis

⇒ Forms Flow Analysis

⇒ Application

Assessment Report



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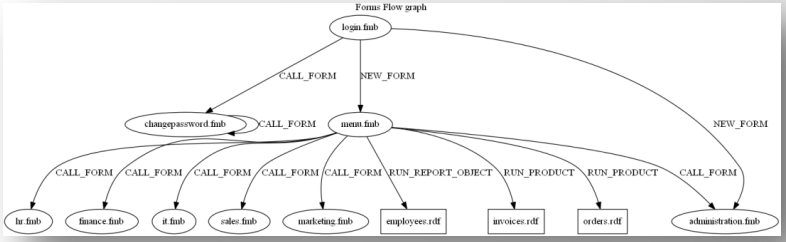

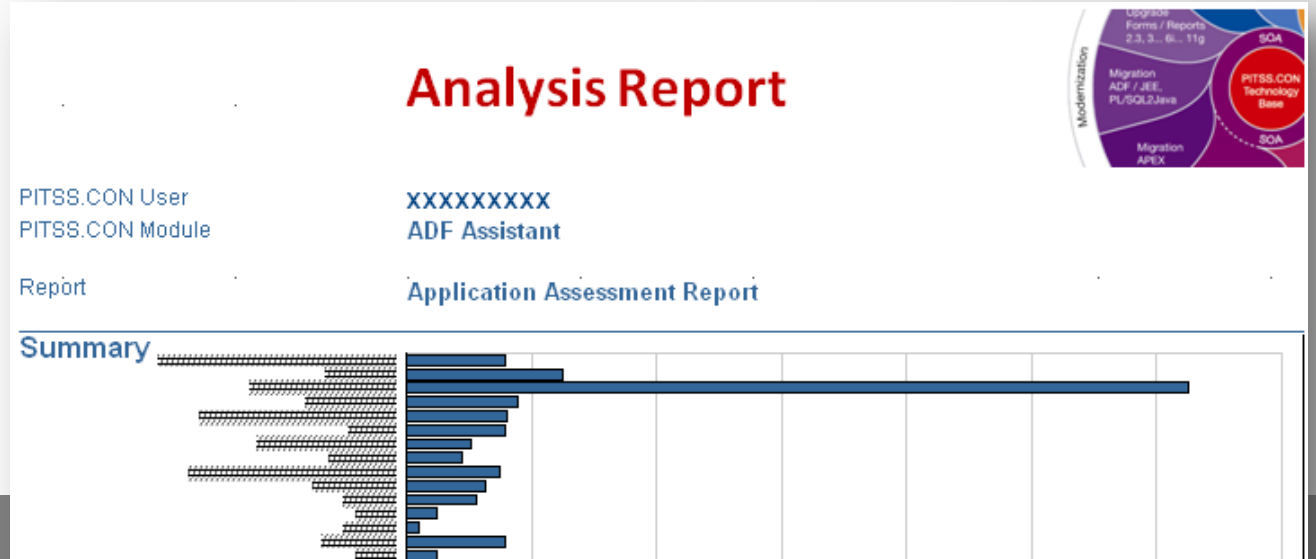

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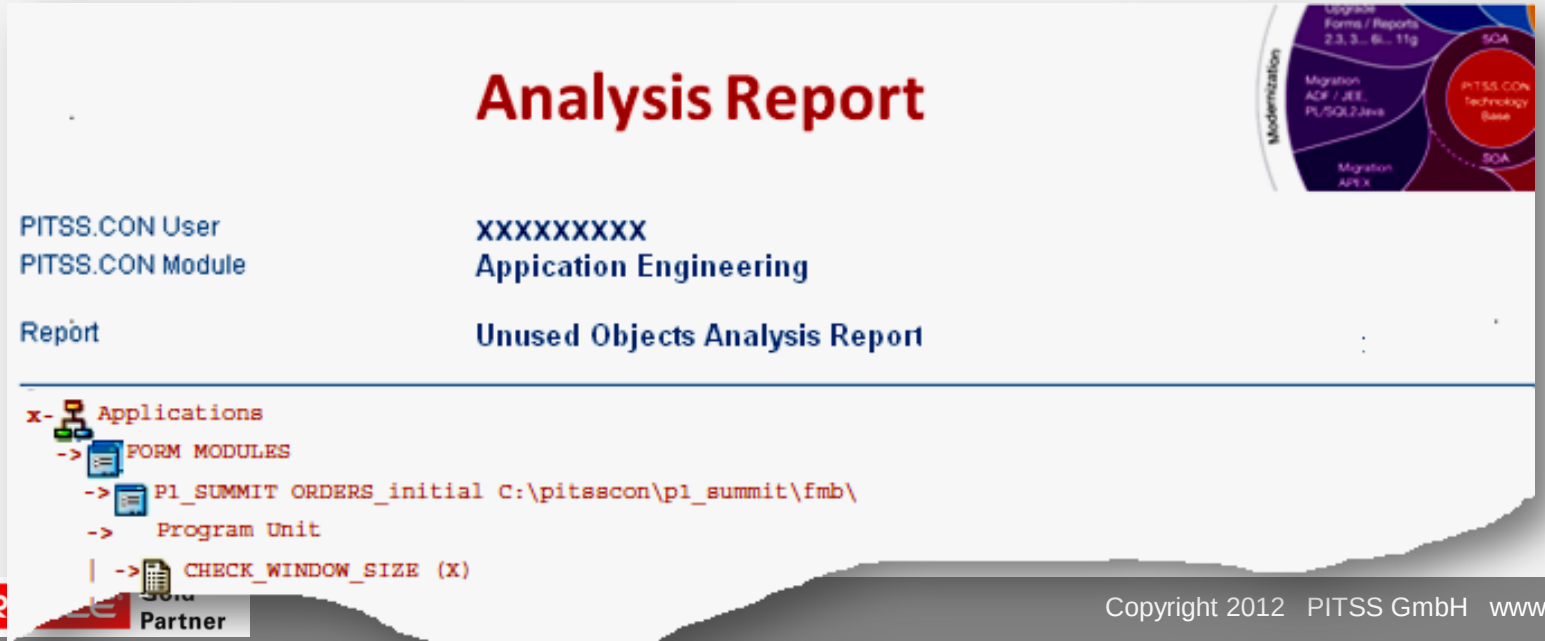
2. Cleaning

How to eliminate safely the unused or redundant objects

Reaching an average of 30% less objects

⇒ PITSS.CON Application Engineering

⇒ Unused Objects Analysis



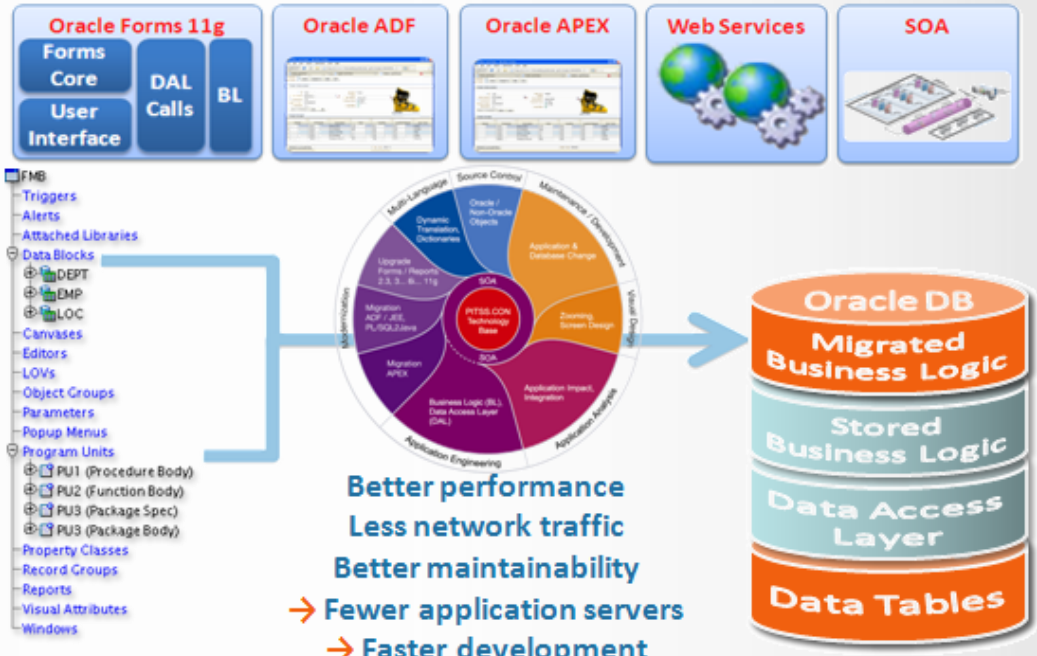
3. Migrating the Business Logic

How to preserve the business logic investment?

⇒ PITSS.CON Application Engineering

⇒ Business Logic Assistant

⇒ ADF Assistant PL/SQL2Java



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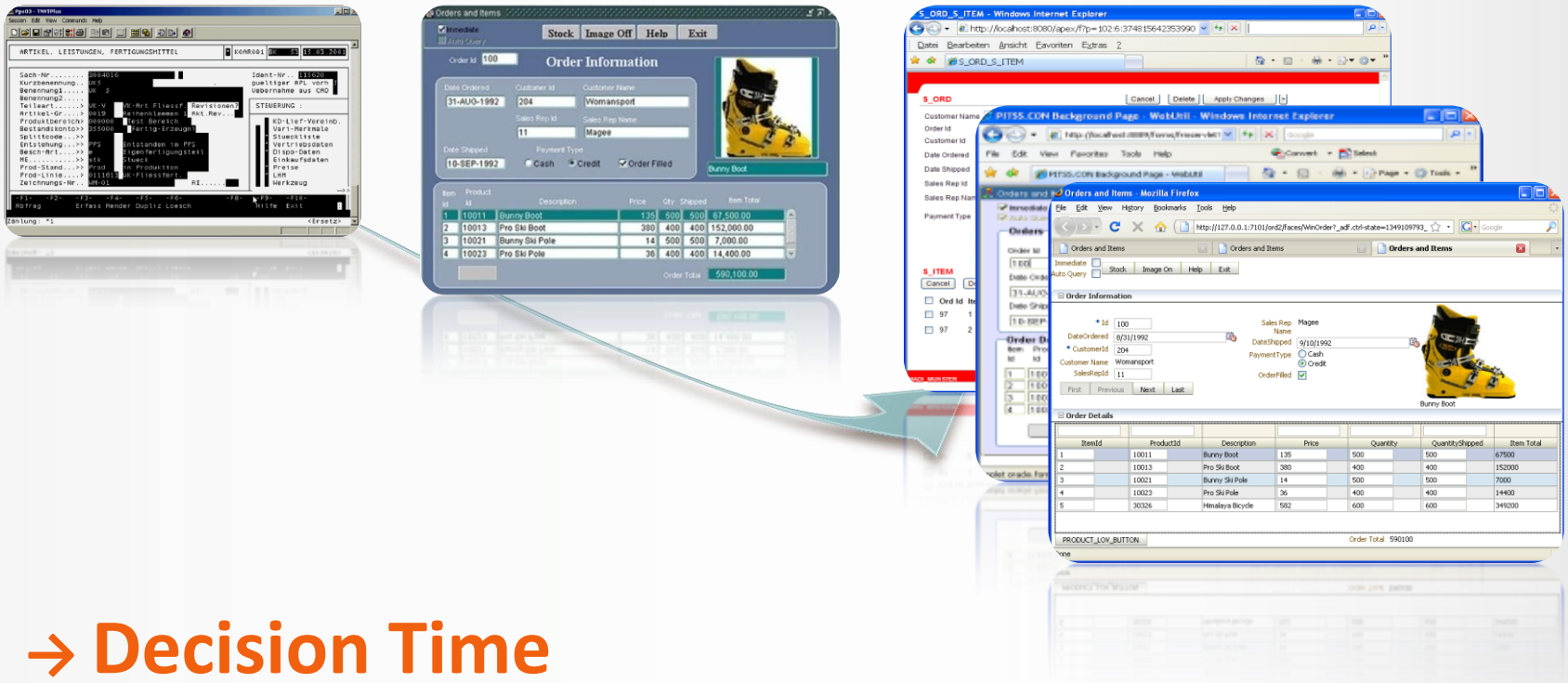
Forms 11g, ADF & APEX: Co-Existence in Enterprise Applications



→ Decision Time

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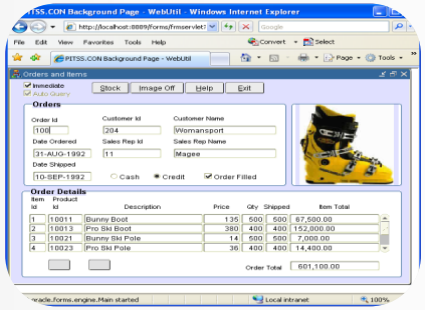
The Technology Choice Challenge

Decision factors

* *Business needs*
* *Application complexity*
* *Skills*

Forms11g



Quick development

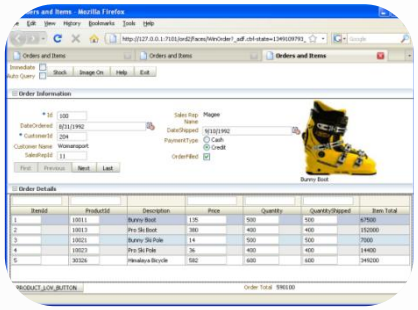
tested technology

low-risk

SQL, PL/SQL

Forms, Weblogic

ADF, Java



Fusion, open standards

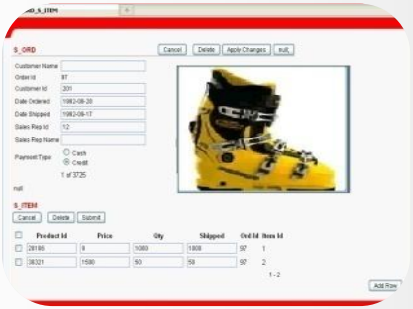
DB independent

Rich User Interface

Java, XML, SQL PL/SQL

ADF, JDeveloper, JavaScript

APEX



tightly integrated: Oracle DB

huge community

Freeee

SQL, PL/SQL

HTML, JavaScript, CSS

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Decision factors

* *Business needs*
* *Application complexity*
* *Skills*

Redesign Decision

Full Rewrite or Tool-supported?

```
if Rewrite then read_first (
 „How To Survive a Software Rewrite*”);

elsif Tool then check_tool (
 „Manage Entire Application: fmb,mmb,pll,olb,DB,etc”,
 „No Forms Engine in ADF”,
 „No Proprietary Components Inside”);

end if;
```

* http://jamesshore.com/Blog/How-to-Survive-a-Rewrite.html

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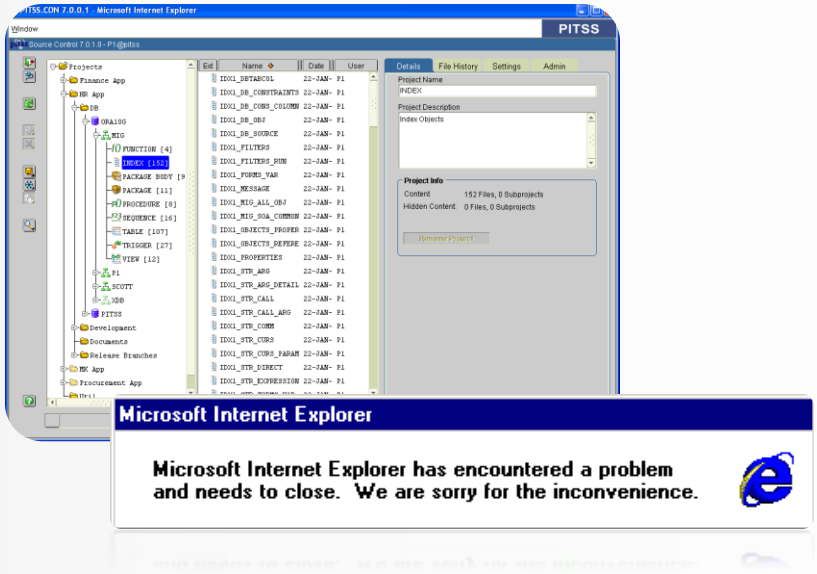
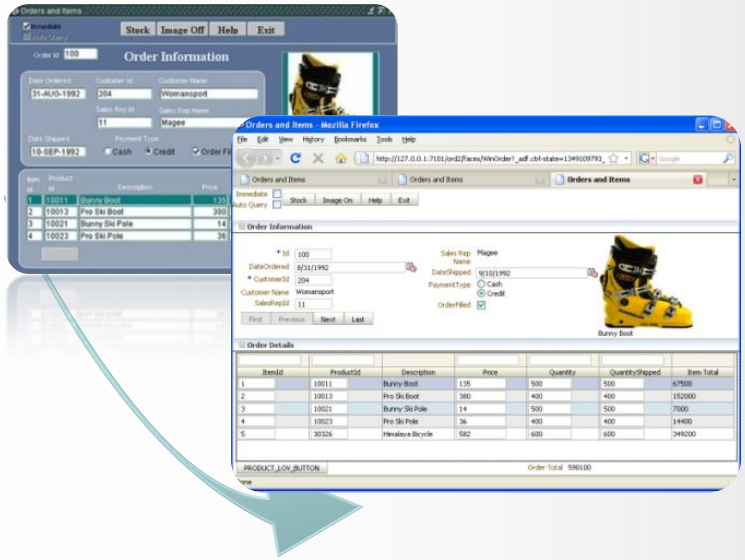
The Browser Challenge

No Applet? Redesign UI to meet Browser Standards:

→ No 100+ fields or records



→ No pixel-based UI



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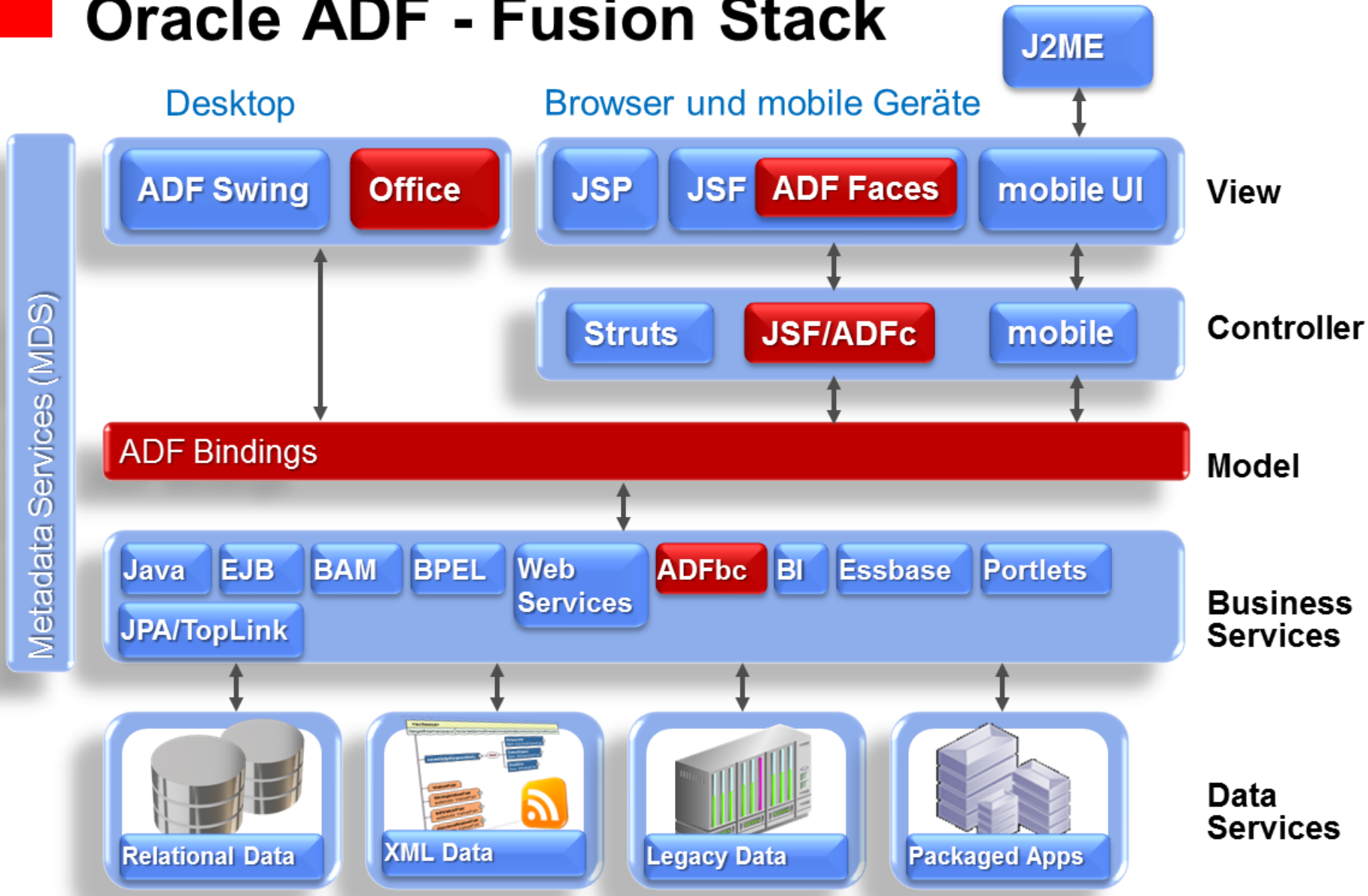
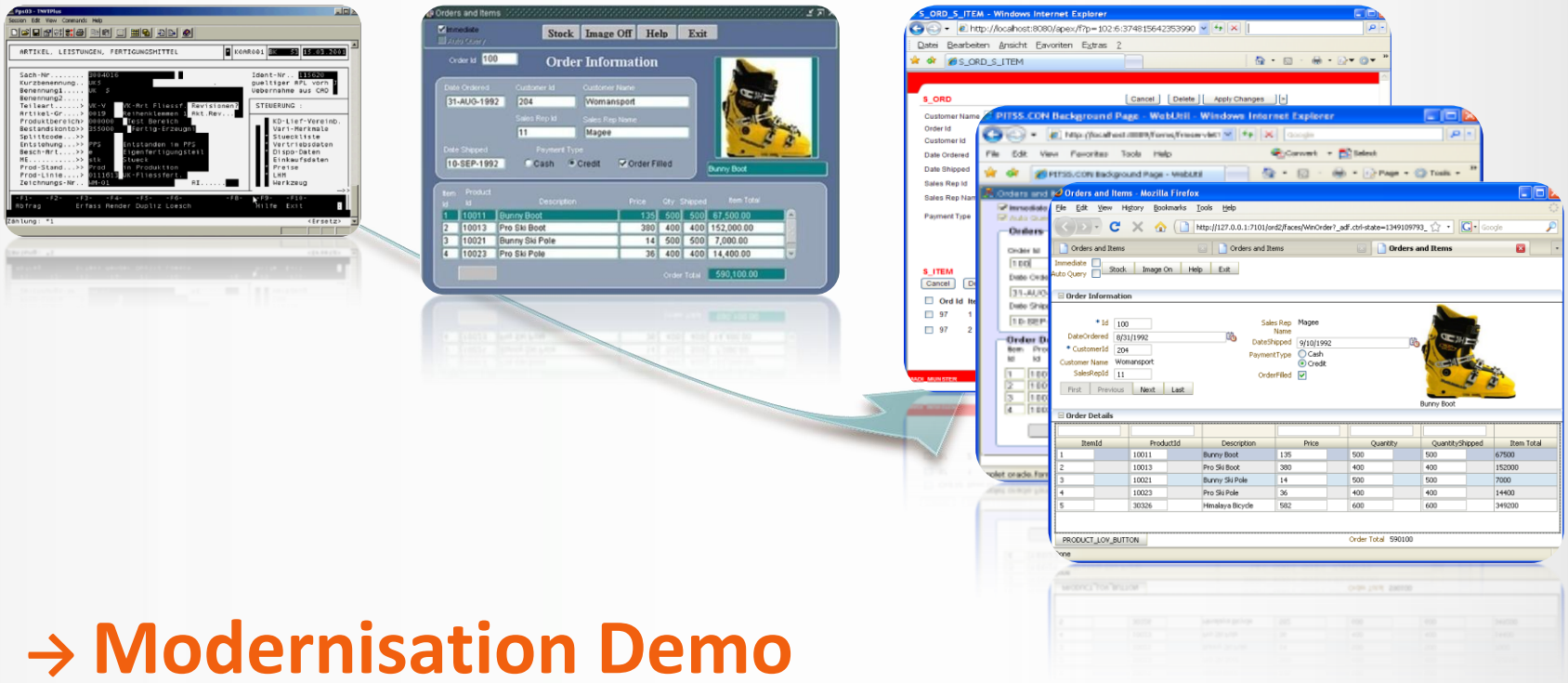
Oracle ADF - Fusion Stack



Forms 11g, ADF & APEX: Co-Existence in Enterprise Applications



→ Modernisation Demo

Migrate and Integrate

Forms 11g, ADF, APEX, Reports, ….

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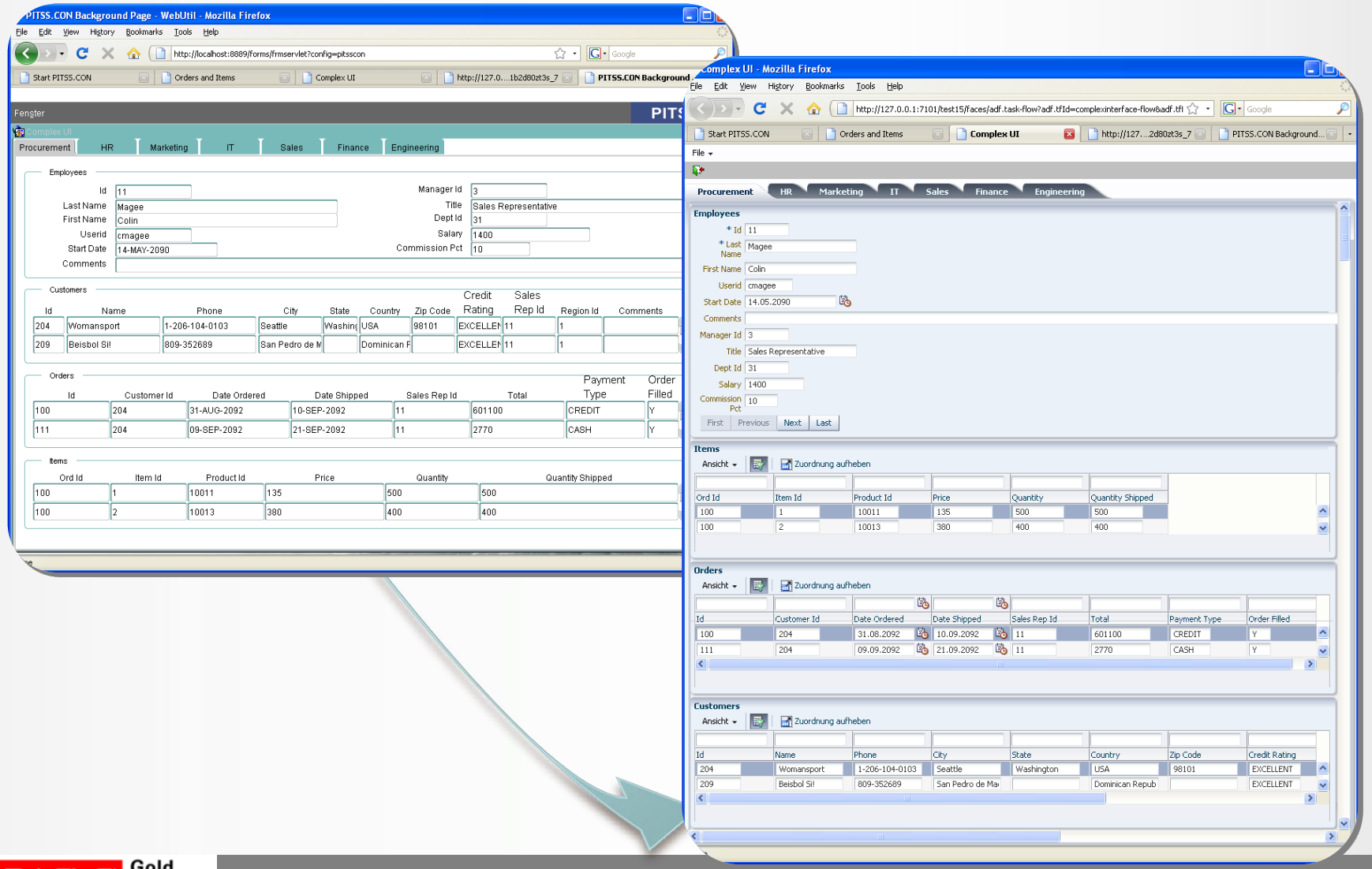
Forms 11g, ADF & APEX: Co-Existence in Enterprise Applications



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Where to Start? Pilot projects

- 1-2 Forms modules of middle complexity
- migrate to Forms11g, APEX, ADF
- typical duration: 1-2 weeks

Re-Engineering

Analyzing → Cleaning Dead Code Redundancy → SOA BL 2 DB → SOA Modernizing

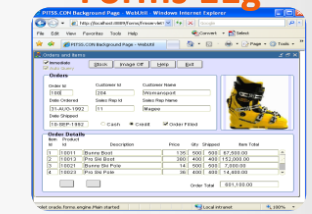
⇒ avoid big-bang projects risks

⇒ be confronted with 80% of the future project challenges

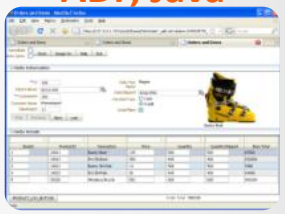
⇒ make accurate estimations

⇒ take decisions based on FACTS

Forms 11g

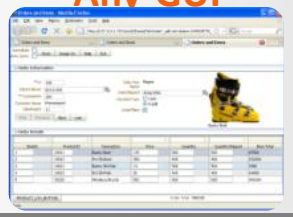


ADF, Java



APEX

Any-GUI



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Challenge us!

- ✓ Upgrade to Forms 11g
- ✓ Migration to ADF, APEX or Any-GUI
- ✓ Pilot/ Full migration projects

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To Do

* Download Jdeveloper, APEX
* Start learning
* Write how it worked

Source Control

Multi Language

Modernization
Upgrade – Forms / Reports
3,4,5... 6i... 11g

Modernization
Migration
ADF /JEE – PL/SQL 2 Java

Modernization
Migration
APEX

Application Engineering

Application Analysis

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