# Mixing E-Business & Pleasure

Integration scenarios for Oracle EBS and SOA Suite

Also visit presentation Increase Throughput and Customer Service with Production Scheduling (S292721)



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## **Agenda**

- Introduction SABIC Innovative Plastics
- Project overview
- Design Principles & Solution Architecture
- E-Business Suite Adapters
- Lessons learned



#### **SABIC Innovative Plastics**





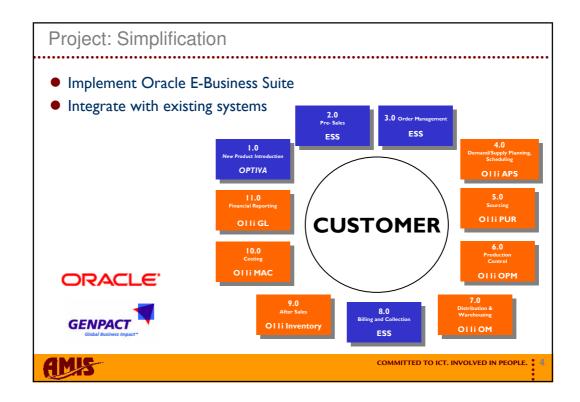
SABIC Innovative Plastics, formerly GE Plastics, is one of the world's leading providers of advanced engineering thermoplastics with annual revenues of \$6.8 billion.

SABIC-IP has over 10,000 employees globally and operations in over 40 countries.

Founded in 1976, SABIC has been a top player in the materials industry and was recently recognized by Platts as "Petrochemical Company of the Year" and Fortune Magazine's: Global Most Admired List (2006).

With over \$80 billion in market capitalization, SABIC ranks in the Top 10 petrochemical companies worldwide. SABIC is known for its commitment to technology and R&D and considers employees to be its most important asset.



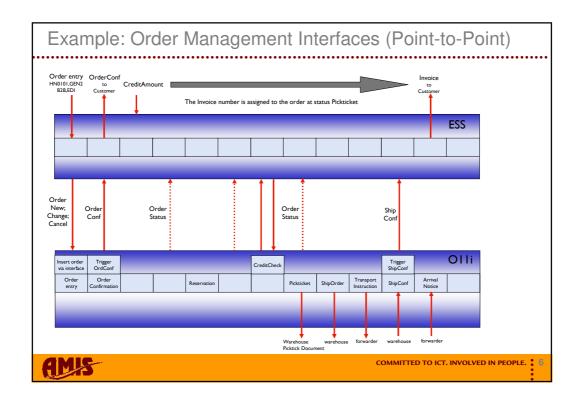


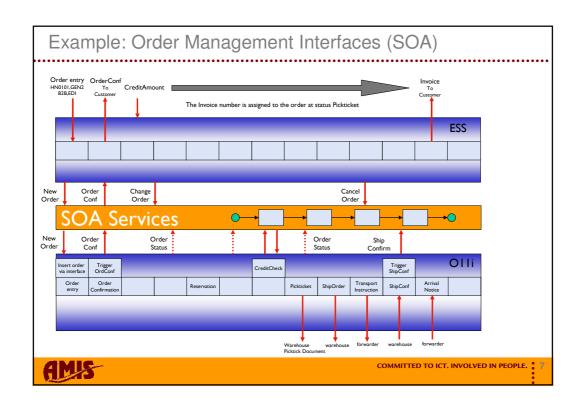
### Integration Project: Ambitious

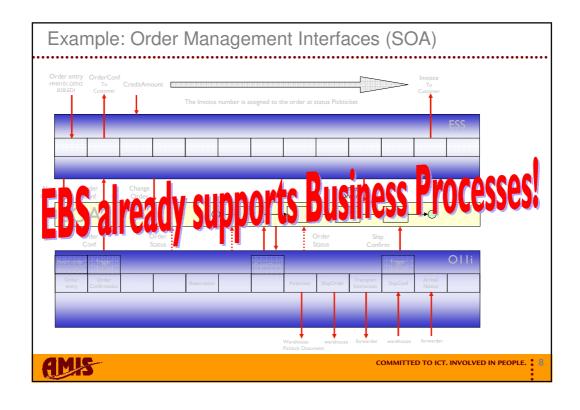
- Approximately 100 point-to-point interfaces
- 12 Satellite systems; many external parties
- Different integration types & patterns
- IIi + SOA integration
  - First business live is NORYL\*
  - Rest of businesses to follow later
- Short timeline: in 5 months
  - Introduce new concepts and technology
  - Define the solution
  - Train project team and get them up to speed
- Meanwhile Plastics is sold by GE and bought by SABIC ...

\* Trademark of SABIC Innovative Plastics IP BV

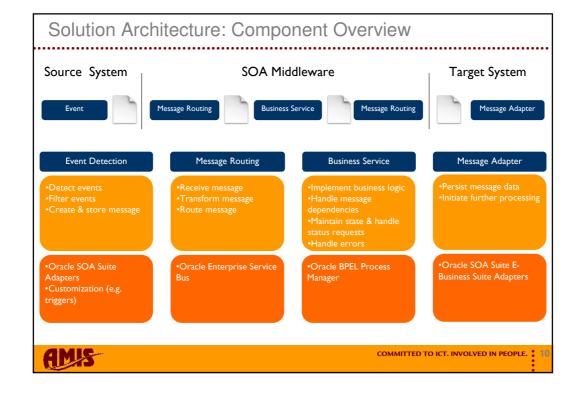


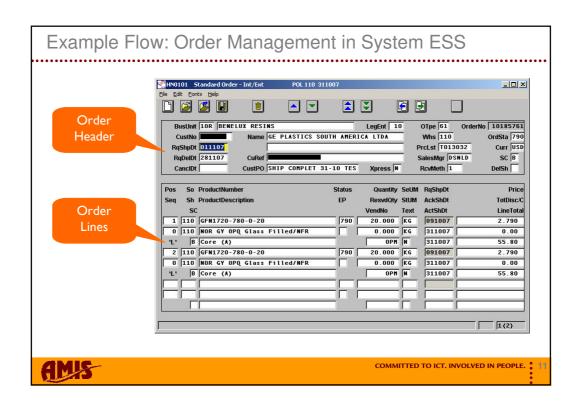


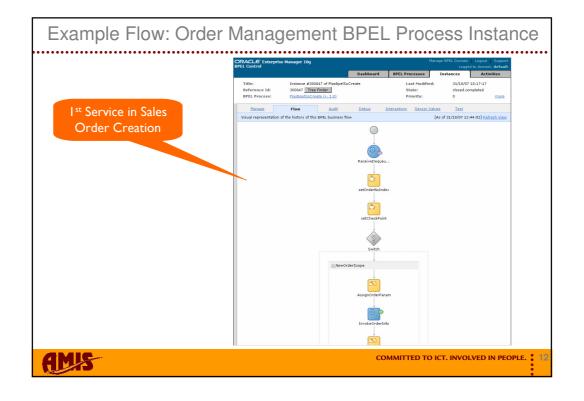


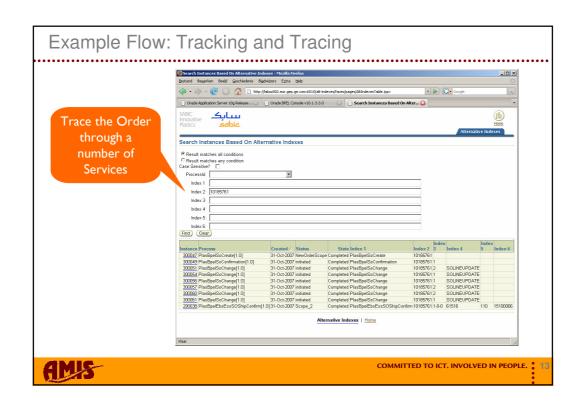


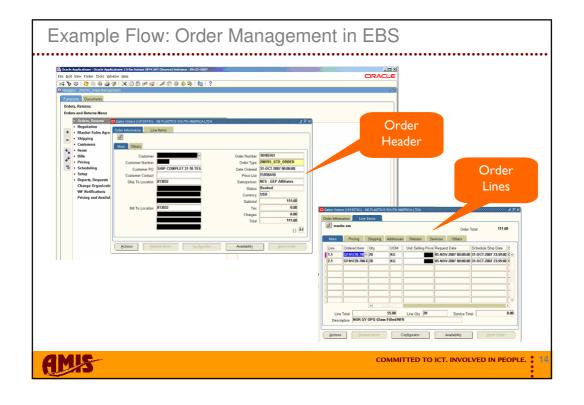
### Solution Architecture: Design Principles Buy over build Packaged apps, Fusion technology → E-Business Suite is leading → Leverage EBS process support Bridging gaps between different worlds Technicalities (e.g. availability) Semantics → Loosely coupled → Canonical model Team understands E-Business Suite & traditional Oracle technology (PL/SQL) → Assembly over programming → Use of SOA Suite adapters where possible Time constraints → Parallel work → Design to interfaces & contracts COMMITTED TO ICT. INVOLVED IN PEOPLE. : 9









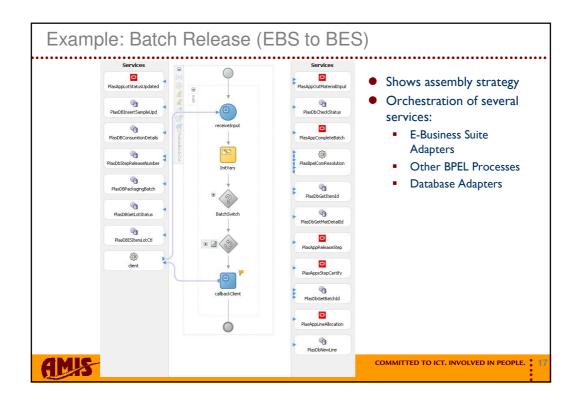


### Oracle EBS Adapters Part of the SOA Suite Adapter Framework (version 10.1.3+) Interfaces being added constantly (http://irep.oracle.com) Types: Business Event System XML Gateway Oracle E-Commerce / EDI Gateway PL/SQL API's Browse Interfaces - Mozilla Firefox Elle Edit View History Bookmarks Icols Help 🔄 🕶 🤛 🕝 🚷 🔝 http://rep11i10.oracle.com/OA\_HTML/OA.isp?page=%2Foracle%2Fapps%2Ffnd%2Frep%2Fwebul%2FInterl 💌 🔊 🖫 Google ORACLE' Integration Repository Welcome to the Oracle Integration Repository (Search) Advanced Paralleling Applications Technology Contracts Suite Cipicrete Manufacturing Cipicrete Suite The Integration Repository is an integral part of Oracle E-Business Suite. It provides a complete catalog of Oracle E-Business Suite's Business Service interfaces. The tool lets users easily discover and deploy the appropriate business service interface from the catalog for integration with any system, application, or business partner. Financial Globalizations Suite COMMITTED TO ICT. INVOLVED IN PEOPLE.

#### Using the Oracle EBS Adapters

- Started with Proofs of Concept
- Worked closely with Oracle
  - On-site EBS consultants
  - Support and Development (OWC Sessions)
  - Offshore development team in India (training and roadmap)
- Focus on PL/SQL API Adapters
  - Risk-averse
  - Other interfaces may require additional license fee





### EBS Adapters: Design considerations

- Setup interfacing account in EBS with matching responsibilities
- Concurrency problems → 'Trickle-feeding pattern'
- Where and how to handle exceptions?
  - There will be exceptions, mostly functional errors
  - Preferred: let user handle exceptions in EBS
  - But: what if data does not appear in EBS when adapter returns functional error? Options are:
    - Use of traditional open interfaces
    - · Handle exceptions in middleware



#### Lessons Learned: Organizational Impact

- EBS as well as SOA implementations have tremendous impact on an organization
  - Both require an united business and IT effort
  - Both provide business process support → challenge is to find balance between EBS business process support and use of BPEL processes
- Project is eye-opener → step-up to an event-driven enterprise with open IT systems
- Carefully manage complexity: implied architected approach
- Improved control: growing awareness for need of SOA Governance
  - First: requires functional design and organization
  - Second: support with tools like BAM and OWSM
- SOA impacts (traditional) roles
  - From EBS Functional consultant to Fusion Process consultant?
- Designing to interfaces & contracts facilitated parallel work
  - EBS and BES were implemented separately and integrated seamlessly when both were ready



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### Lessons Learned: Oracle SOA Suite EBS Adapters

- Facilitates assembly of BPEL Services: alternative for 'traditional' EBS customizations
- Explore use of EBS Adapters carefully
  - Current SOA Suite release is first with EBS Adapters
  - Keep track of news, changes and patches; work closely with Oracle
  - OTN Forum shows increased attention and usage
- EBS Adapters: test your integrations thoroughly
  - BPEL is ideally suited for modeling behavior in case of functional errors
  - Execute stress tests in order to determine possible concurrency bottlenecks





→ EBS + SOA = Mixing E-Business and Pleasure (meanwhile preparing for the Fusion Apps future)



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