Industry Chemicals and Petroleum V5R11 Technical Solution Readiness

Elliot Robertson, Dassault Systemes
Stephan Clambaneva, IBM

Version 5 Release 11
April 2003
i511_C&P_readiness

Summary

■ C&P MacroProcesses

■ V5R11 – Technical Highlights

■ V5R11 - Contribution to Critical Solutions

■ V5R11 - Readiness for Deployment

© 2003 IBM Corporation and Dassault Systèmes

C&P Macro Processes

Asset Lifecycle Management facilitates sharing of product data across the enterprise

Finance / R&D | Conceptual Design | Process Engineering | Detailed Engineering | Construction & Start-up | Operations & Asset Mgt | Retirement

Strategic Planning

Simulation & Process Design

Project Management

SRM & Strategic Sourcing

CAD/CAE

Knowledge Management

Supplier Collaboration

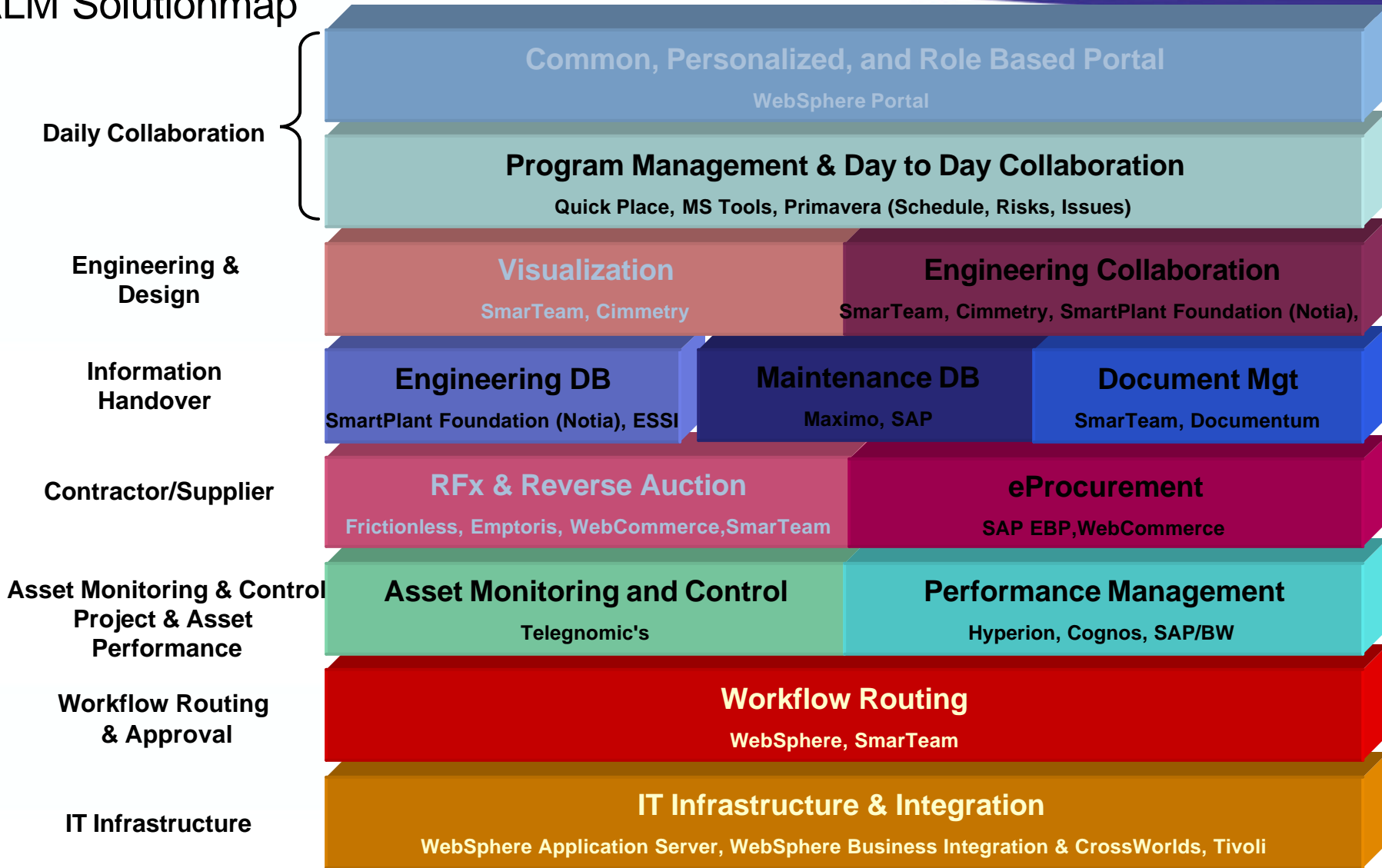**ERP Integration**

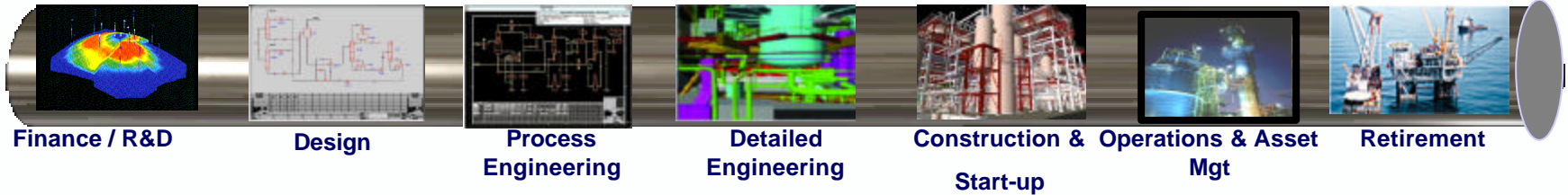Upstream | Downstream Refining | Chemicals | Other Process

Main Highlights

ALM Solutionmap

Daily Collaboration

Common, Personalized, and Role Based Portal

WebSphere Portal

Program Management & Day to Day Collaboration

Quick Place, MS Tools, Primavera (Schedule, Risks, Issues)

Engineering & Design

Visualization

SmarTeam, Cimmetry

Engineering Collaboration

SmarTeam, Cimmetry, SmartPlant Foundation (Notia),

Information Handover

Engineering DB

SmartPlant Foundation (Notia), ESSI

Maintenance DB

Maximo, SAP

Document Mgt

SmarTeam, Documentum

Contractor/Supplier

RFx & Reverse Auction

Frictionless, Emptoris, WebCommerce, SmarTeam

eProcurement

SAP EBP, WebCommerce

Asset Monitoring & Control Project & Asset Performance

Asset Monitoring and Control

Telegnomic's

Performance Management

Hyperion, Cognos, SAP/BW

Workflow Routing & Approval

Workflow Routing

WebSphere, SmarTeam

IT Infrastructure

IT Infrastructure & Integration

WebSphere Application Server, WebSphere Business Integration & CrossWorlds, Tivoli
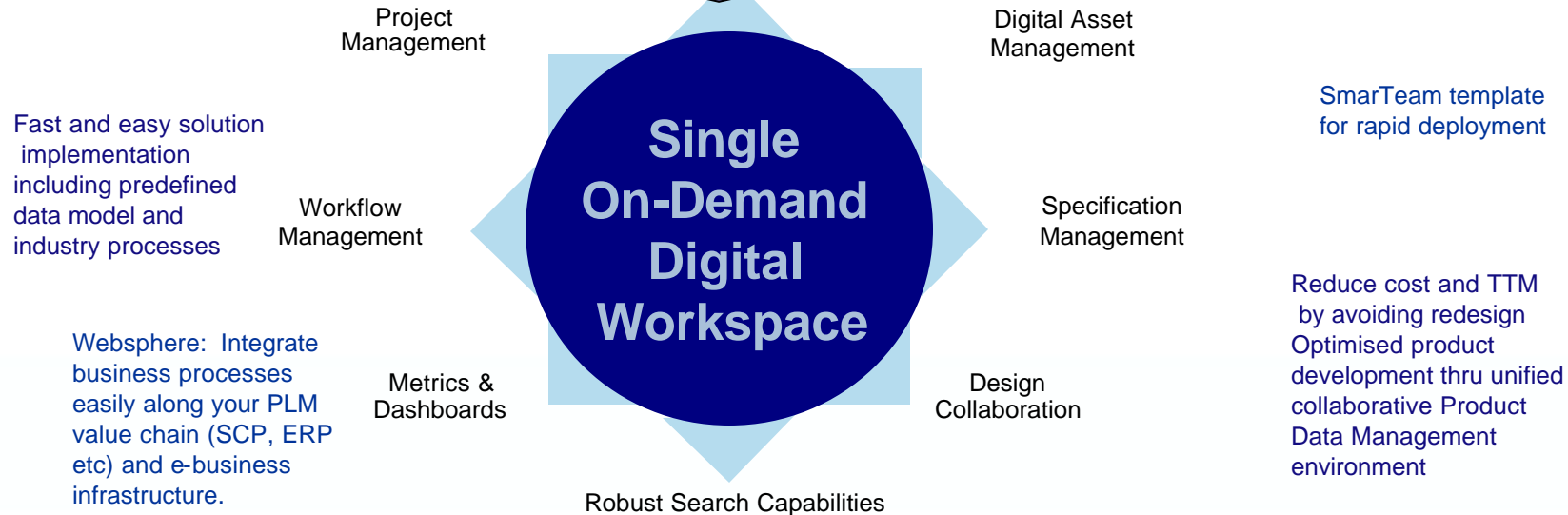
© 2003 IBM Corporation and Dassault Systèmes

IBM | DS DASSAULT SYSTEMES

6

ALM involves complex extended enterprise business processes & data management requirements

| Finance / R&D | Design | Process Engineering | Detailed Engineering | Construction & Start-up | Operations & Asset Mgt | Retirement |

Process - Technology Integration

Project Management

Digital Asset Management

Fast and easy solution implementation including predefined data model and industry processes

SmarTeam template for rapid deployment

Workflow Management

Single On-Demand Digital Workspace

Specification Management

Websphere: Integrate business processes easily along your PLM value chain (SCP, ERP etc) and e-business infrastructure.

Reduce cost and TTM by avoiding redesign Optimised product development thru unified collaborative Product Data Management environment

Metrics & Dashboards

Design Collaboration

Robust Search Capabilities

User Defined Functions Design collaboration with SMARTEAM – Community Workspace Full Text Search Filtering on tree

IBM | DASSAULT SYSTEMES

7

V5R11 – Contribution to Critical Solutions

IBM | DASSAULT SYSTEMES

V5R11 - Chemicals and Petroleum Key Highlights

ENGINEERING PROCESSES

- Design
  - Enhanced annotation and dimensioning
  - Improved Drafting capabilities
  - Sheetmetal F&A functionalities
  - New P1 product: Structure Plates and shapes - differentiator against Inventor in the IES-area
  - provides mechanical and equipment & systems solutions on one single platform

- Productivity
  - Interfaces to Nastran, Ansys and Abaqus through MSC software (september time frame)
  - Performance improvements for drawing generation on large assemblies

- Knowledge
  - Assembly introspection of parameters / constraints through KWE tools
  - Configured drawings through design tables

CAA V5

- CAA partnerships – ISOGEN for isometric drawings, EDSA for electrical analysis

COLLABORATIVE

- Interfaces enhancements
  - DGN: Microstation and Intergraph viewing
  - Pro-E file supportcapability
  - DXF: Export semantic text, layers
  - IGES-3D: Export P-curves, solid topology import
  - STEP: Export groups, show/no show, improved validation of properties

- Data Management
  - Run on top of WebSphere Application Server
  - SmarTeam performance improvements
  - Project Management Dashboard with MS Project
  - Integrated CATIA/SmarTeam, ie. navigator tree
  - SmarTeam templates for rapid deployment
  - Embedded Workflow – multi-level workflow definition
  - Improvements in adaptor interfaces
  - Support of SAP classifications
  - Completion of interoperability scenarios for Multi CAD support
  - Support for enhanced Relational Design with Contextual Links Support for new Multi CAD integration
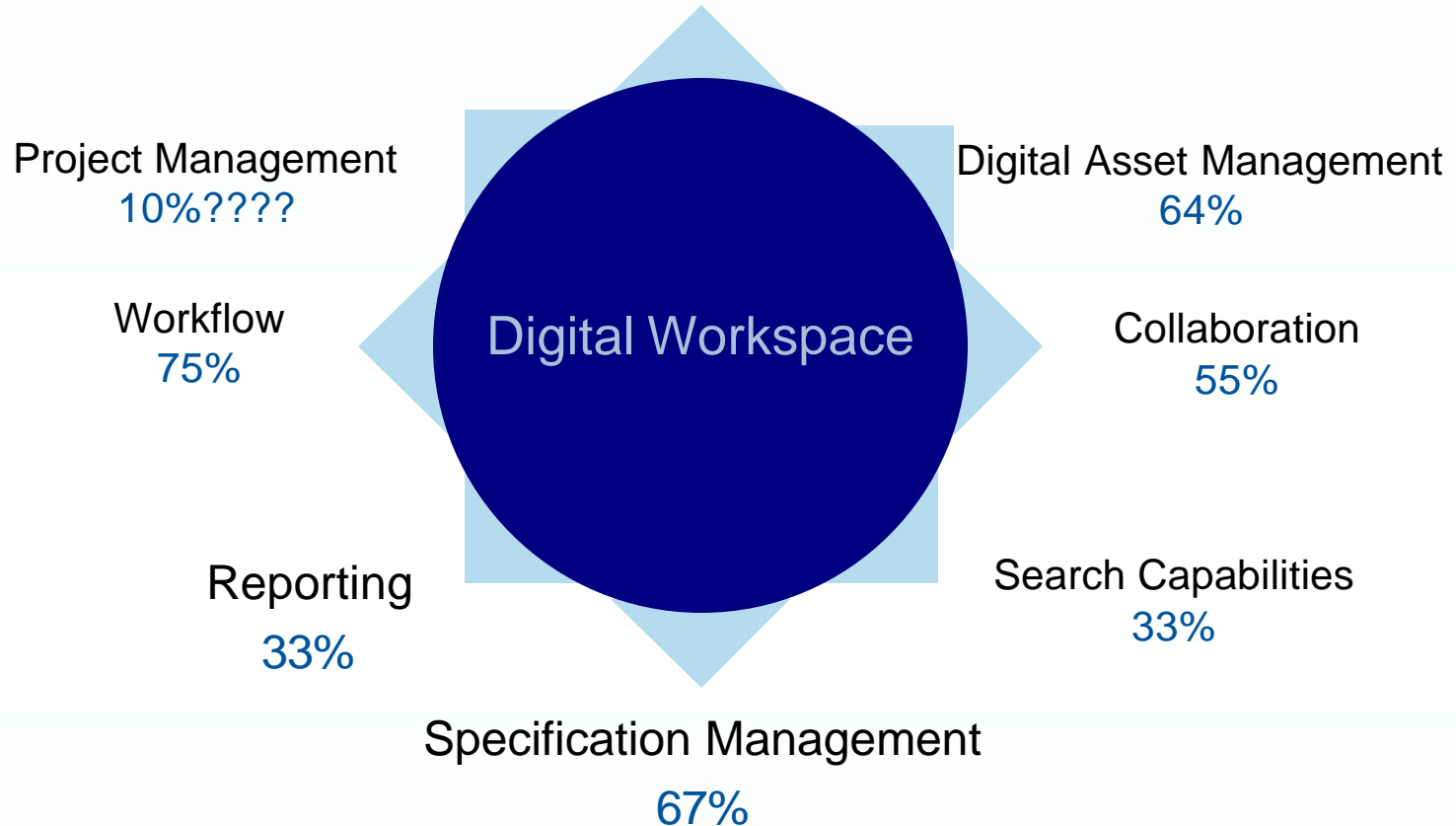
PPR
- TAA PPR Hub integration

V5R11 - Readiness for Deployment

To Support These Industries, SmarTeam Needs To Significantly Enhance its Capabilities Beyond It's Traditional Footprint

Project Management
10%????

Digital Asset Management
64%

Workflow
75%

Digital Workspace

Collaboration
55%

Reporting
33%

Search Capabilities
33%

Specification Management
67%

Overall SmarTeam Score = 47%

IBM | DASSAULT SYSTEMES