Chemicals and Petroleum Industry V5R11 Release Value
Asset Lifecycle Management

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Version 5 Release 11
April 2003
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Summary

Target : Application Engineers

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1. V5R11 - Key Highlights for Chemicals and Petroleum
   (per critical Solution)

2. V5R11 Value for Chemicals and Petroleum
   (Opportunities brought by the Key Highlights)

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
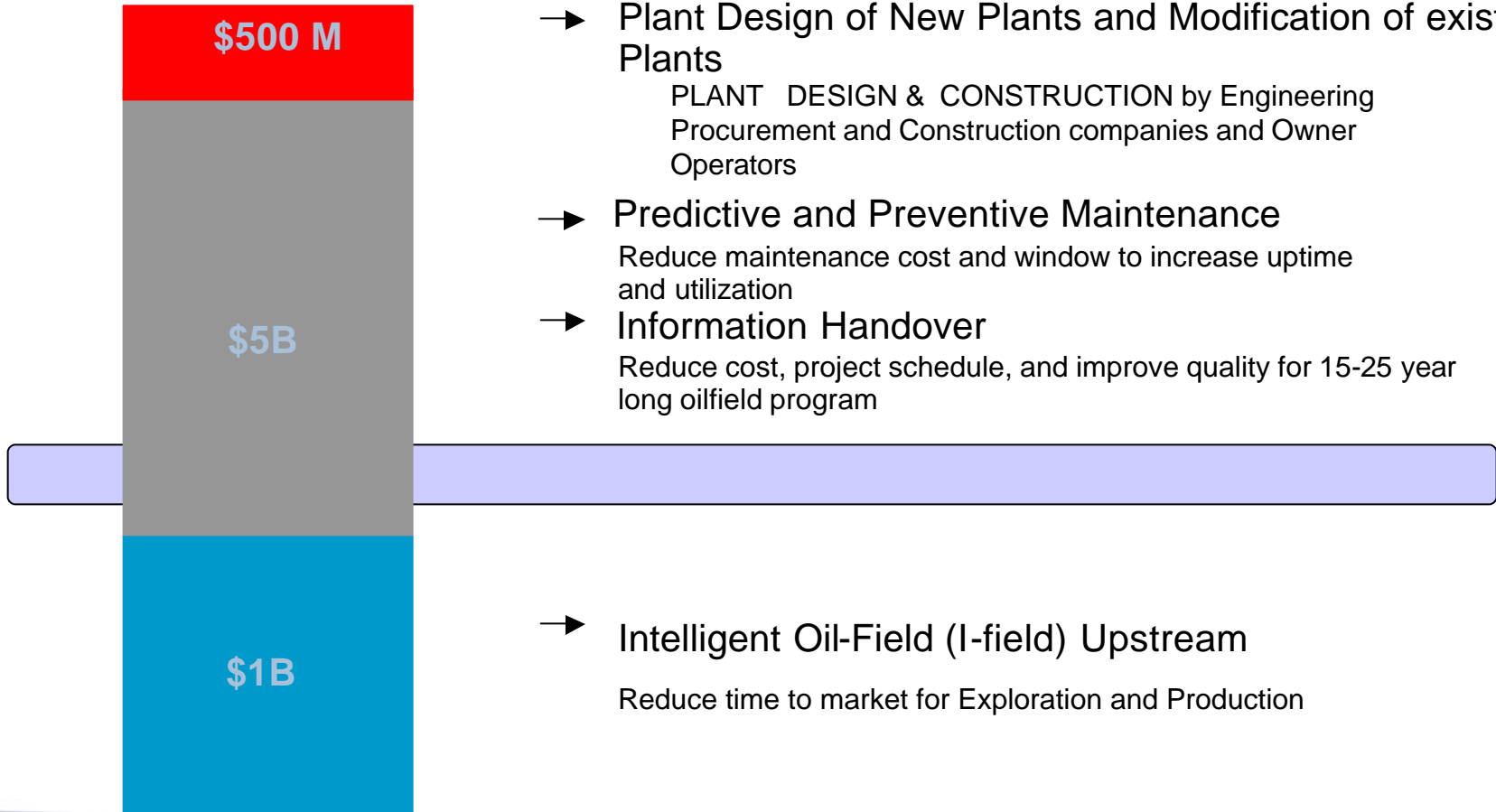
COLLABORATIVE

- **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**

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In The Next Three Years C&P Spending $$$ in the 4 Most Prevalent Solution Areas

$500 M

$5B

$1B

→ Plant Design of New Plants and Modification of existing Plants
   PLANT DESIGN & CONSTRUCTION by Engineering Procurement and Construction companies and Owner Operators

→ Predictive and Preventive Maintenance
Reduce maintenance cost and window to increase uptime and utilization

→ Information Handover
Reduce cost, project schedule, and improve quality for 15-25 year long oilfield program

→ Intelligent Oil-Field (I-field) Upstream

Reduce time to market for Exploration and Production

ALM involves complex extended enterprise business processes & data management requirements

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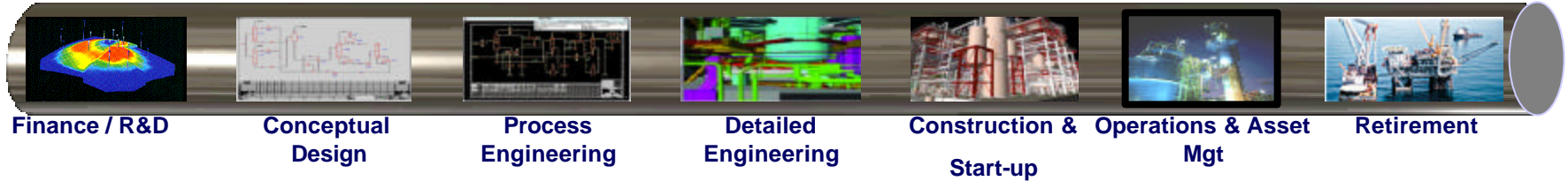
Process - Technology Integration

Project Management

Digital Asset Management

SmarTeam template for rapid deployment

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

Single On-Demand Digital Workspace

Workflow Management

Specification Management

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

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

Metrics & Dashboards

Design Collaboration

Robust Search Capabilities

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

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