Project based supply chain management and product development systems

Prague, 8th of September 2007
Agenda

1) Introduction and context

2) Supply Chain Management

3) Collaborative Product Development

4) E4 Platform
E4

Extended Enterprise management in Enlarged Europe

- AIM: Platform creation to improve collaboration
- 12 partners, 6 countries, 3 clusters
- Especially targeted towards Eastern European enterprises
- Facilitate collaborative R&D activities with established Western European organizations.
- Platform focus on project based value chain management
Context

- Shop floor level
- Cell Level
- Intra-enterprise level
- Inter-enterprise level
- Collaborative Networks level?

Common references

Products Services

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Supply Chain Management

Key SCM Concepts

- Raw Material
- Component
- Manufacturer
- Retailer
- Consumer

Each interface in the Supply Chain represents:
- movement of goods
- information flows
- transfer of title
- purchase and sale

Strategic SCM consists of developing smarter ways to
- choose,
- buy from, and
- sell to your business partners.
E- Supply Chain Management

- Electronic integration of customers and suppliers

- E-Information

- E-Commerce (Business 2 Consumer)
  - Customer Relationship Management

- E-Procurement (Business 2 Business)

- E-Fulfillment

- E-Collaboration
  - Knowledge Management
  - Collaborative product development
Collaborative Product Development

- Between customer and organization
  - Lego

- Between supplier and organization
  - Dassault aviation
Project based Supply Chain Management

- **Key Identifiers**
  - Started by an idea
  - Best of breed approach
  - Duration limited to project

- **Benefits**
  - Limited exposure
  - Possibility to work with competitors
  - Extended capabilities

- **Drawbacks**
  - Flexibility
  - High software needs
  - Intellectual Property
SMEs in CEE

- SMEs
  - Backbone of the economy (>95% or reg. companies)
  - Mainly focused on local market
  - Large differences between countries
  - Very few clusters

- ICT in SMEs
  - Low usage and knowledge of ICT
    - => Training & Consulting needed on ICT usage & benefits
  - Cost sensitive
    - Prefer Open Source or “freeware” solutions
    - Prefer cheap human labor over automated ICT solution
  - Need monitoring and controlling
  - Unaware of alternative supply chains
  - Unaccustomed to project based ICT approaches
What makes up an ideal solution?

Let’s brainstorm
E4 Platform
Platform basics

- Collaborative Project Management (CPM)
  - Based on micro processes

- Project Monitoring and Control
  - Milestones, Deadlines
  - Planning and execution of micro processes

- Project Traceability and quality control
  - Based on VCOR global process reference model
  - Global KPI Library

- Product Structure Management (PSM)
  - Core structure of a product
  - BOM, CAD

- Knowledge Management (CKM)
  - Knowledge Library with Knowledge Items
  - Best Practices
VCOR
E4 platform for SMEs

- Web based portal front-end for easy personal access
- Search for suppliers (marketplace) and partners (R&D)
- Project Management Software
- Access to micro process database (Best Practise)
- Internal and external evaluation (KPI)
- API for integration of your software (ERP)
- Open Source
Thank You