powering collaborative commerce

# i-man

TFAWS MDA Panel Session – September 12, 2001

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# agenda

- UGS Company introduction
- UGS Product offerings
- i-man detailed overview
- What the future holds

# a new leader

Newswire May 23…EDS announced an agreement to purchase SDRC … EDS will offer to buy the 14 percent of its UGS subsidiary … to become EDS' fifth line of business. This move reshapes the CPC and CAPE landscapes with a services and software organization of over 5,000 employees and approximately $1.2 billion in revenues …

The merger will spur innovation and benefit all customers, both our customers and the customers of our competitors.

# EDS PLM Solutions

Product Lifecycle Management

# about UGS

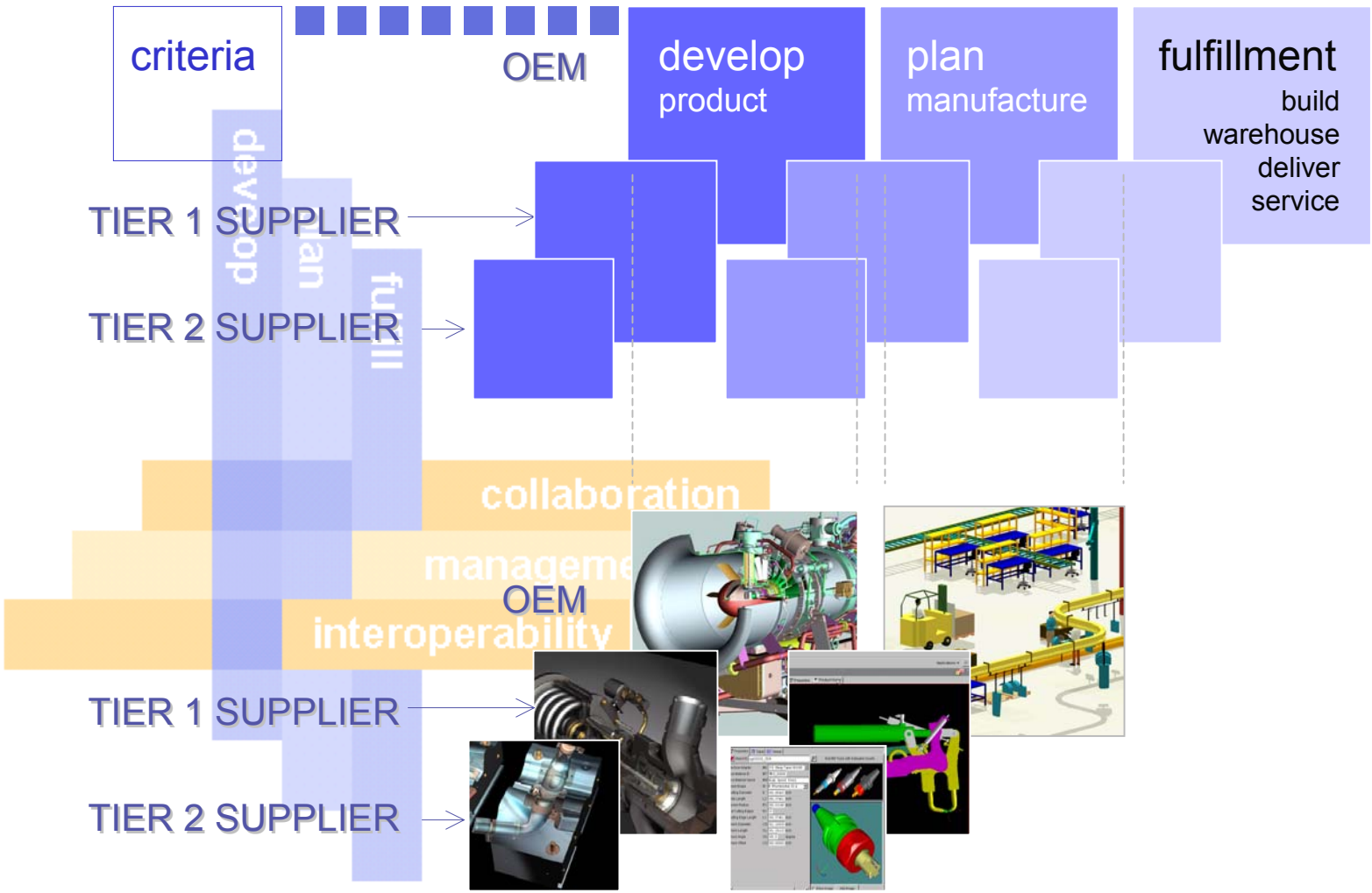
## … impeccable credentials

- Consistent performer
- Proven track record of partnerships
- Open technology and business culture
- Global execution
- Repeatable processes

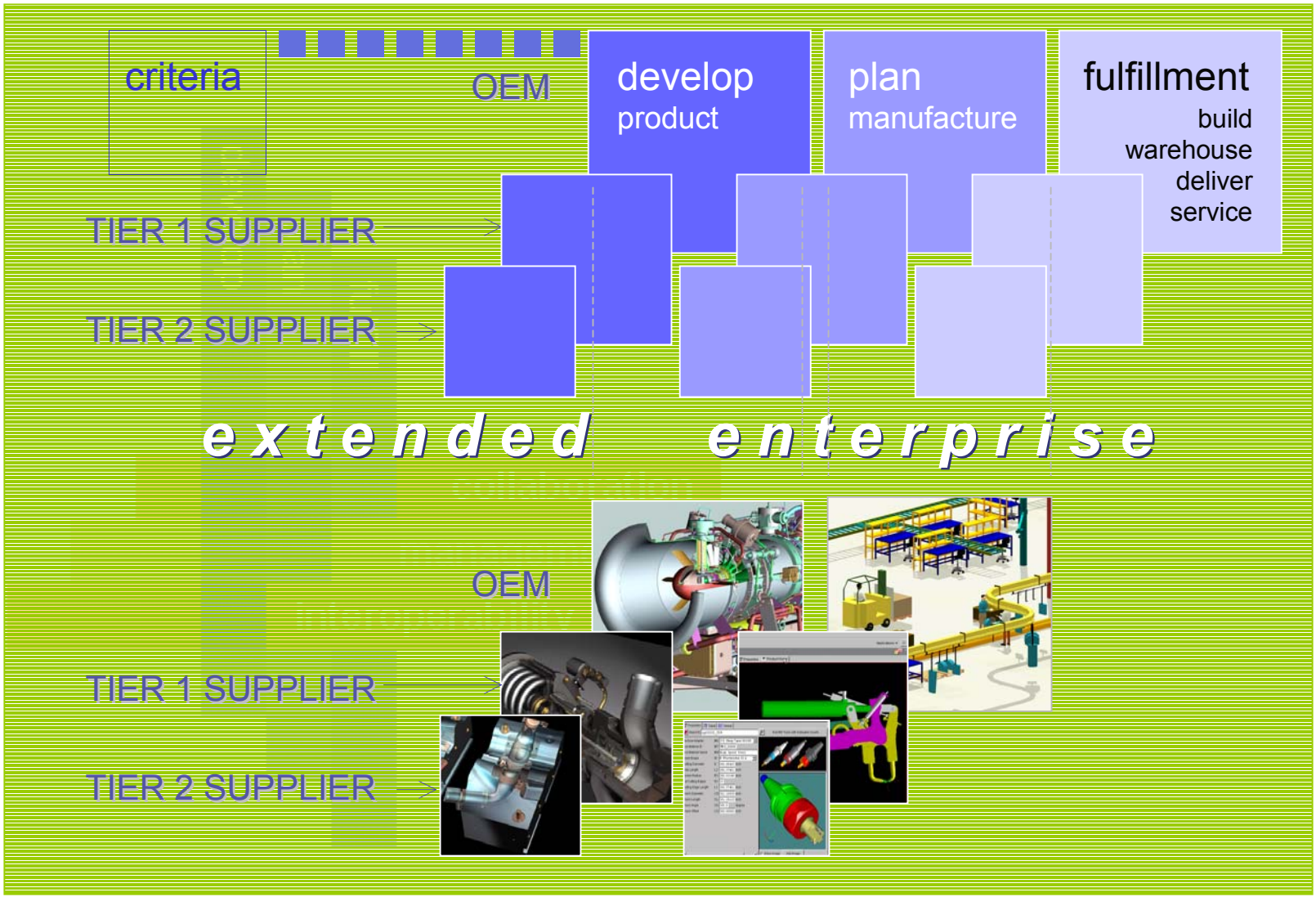
## global quality accreditation

**ISO 9001**

# adding value across the enterprise



# across the *extended* enterprise

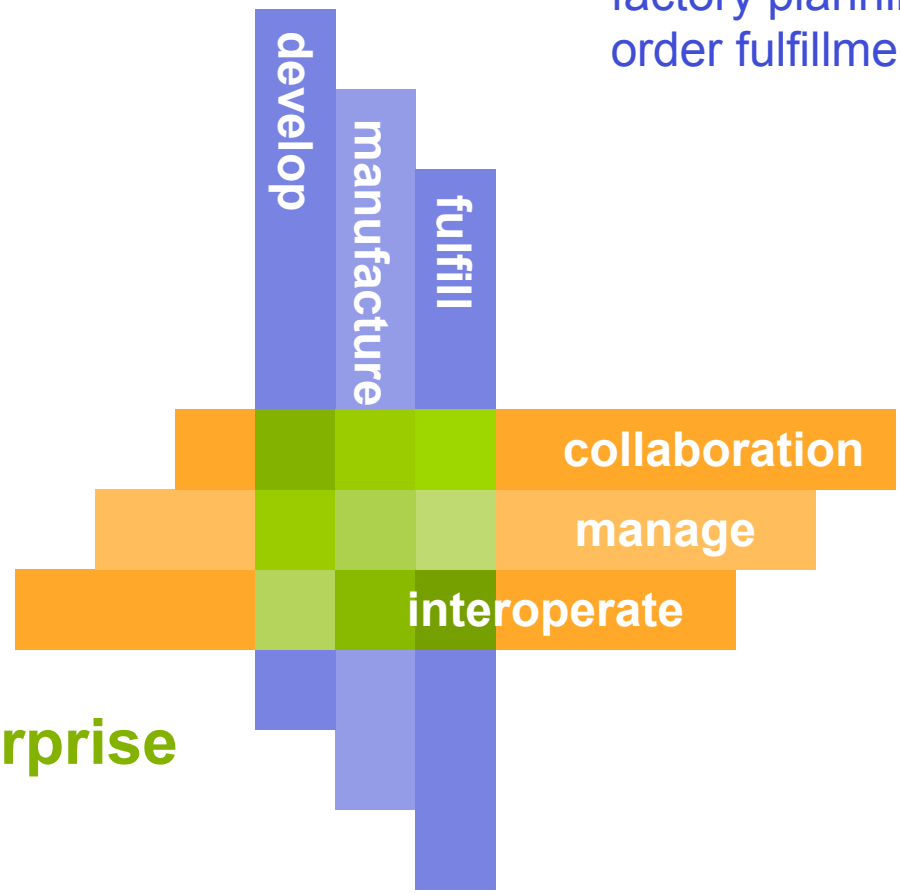


# UGS… solutions & c-commerce platform

## … the framework for our solutions

**solutions**

product development
factory planning
order fulfillment

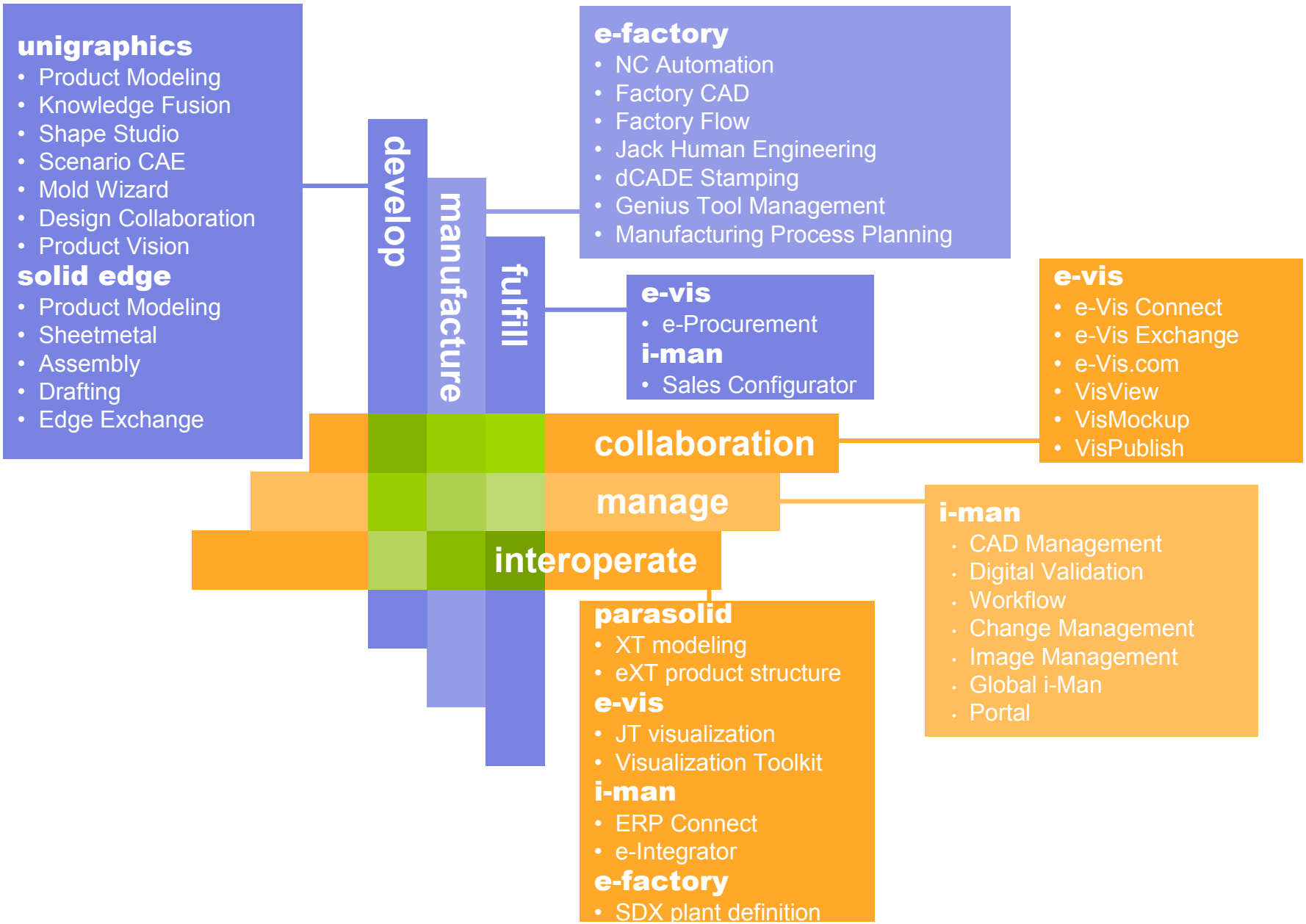



**platform**

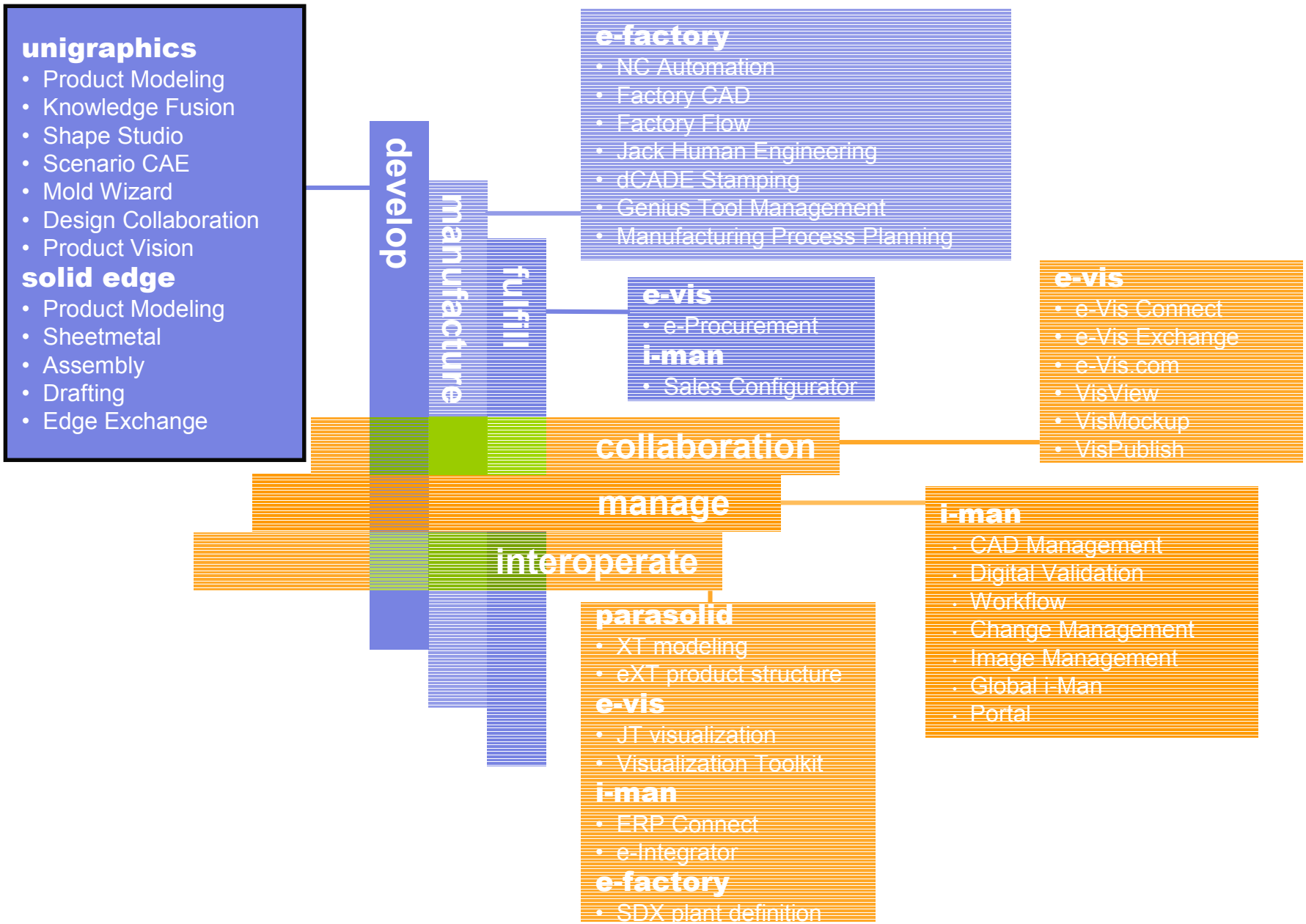
collaboration
lifecycle management
interoperability

**enterprise**

# the products

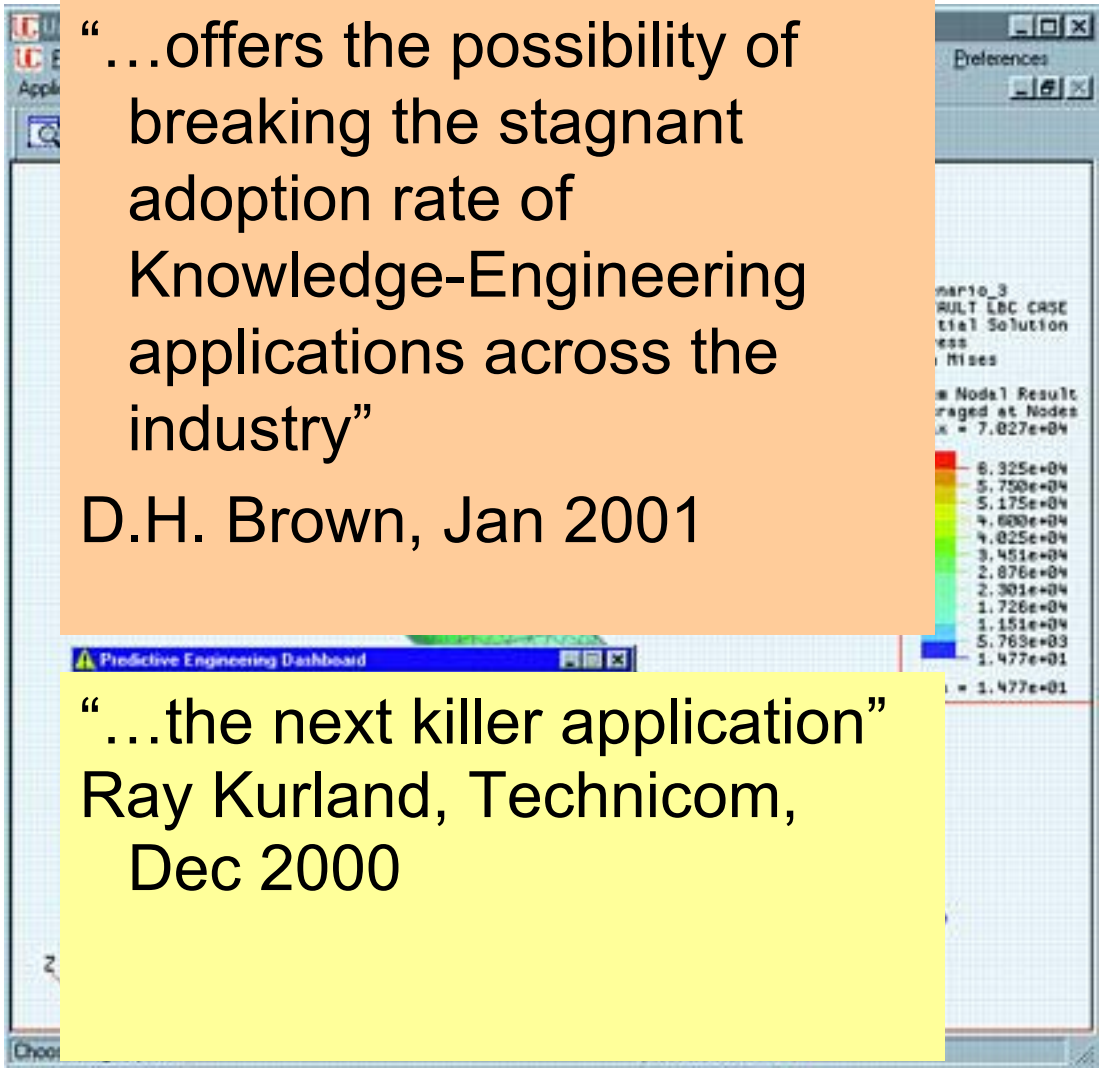


# product development



# unigraphics

## … making you uniquely successful




"…offers the possibility of breaking the stagnant adoption rate of Knowledge-Engineering applications across the industry"

D.H. Brown, Jan 2001

"…the next killer application"

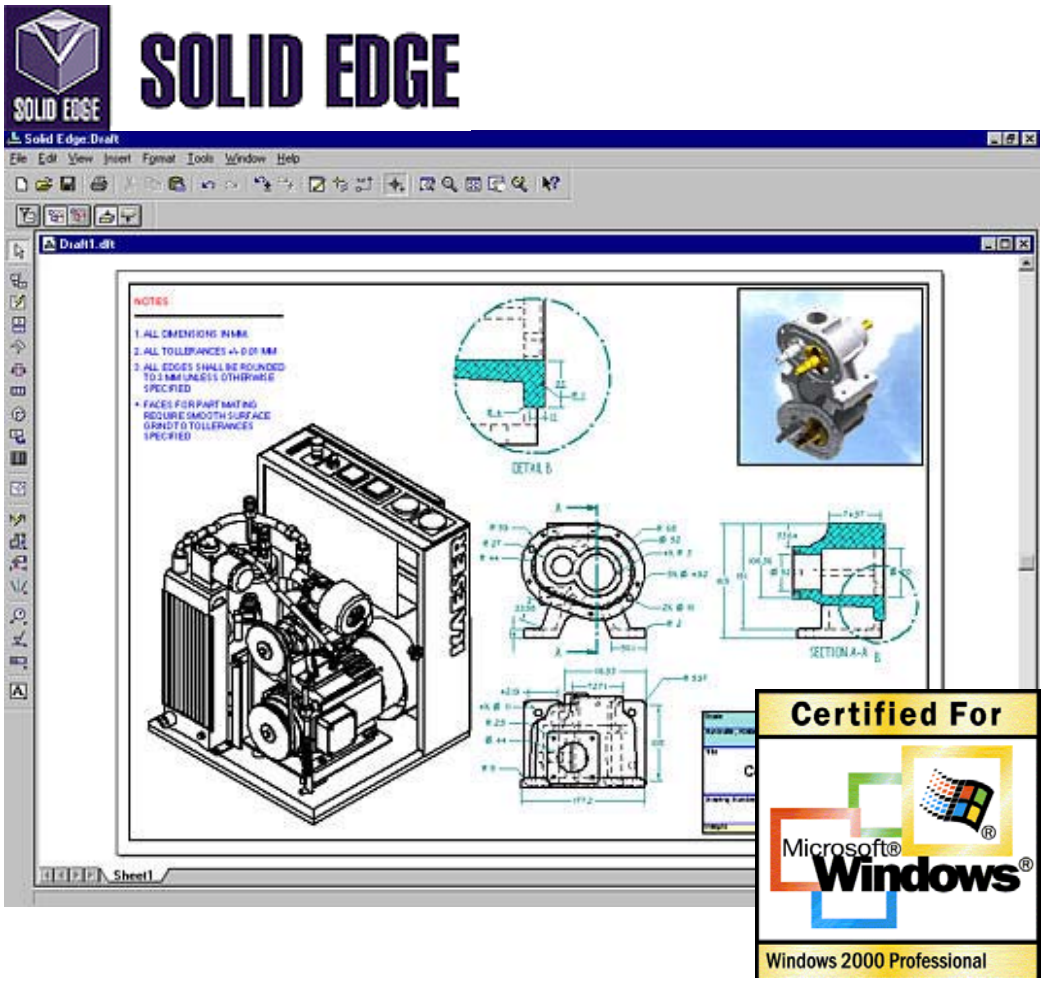
Ray Kurland, Technicom, Dec 2000

- concept to production
- integrated analysis
- wizards
  - design
  - Analysis
  - manufacturing
- Knowledge Fusion

NEW!

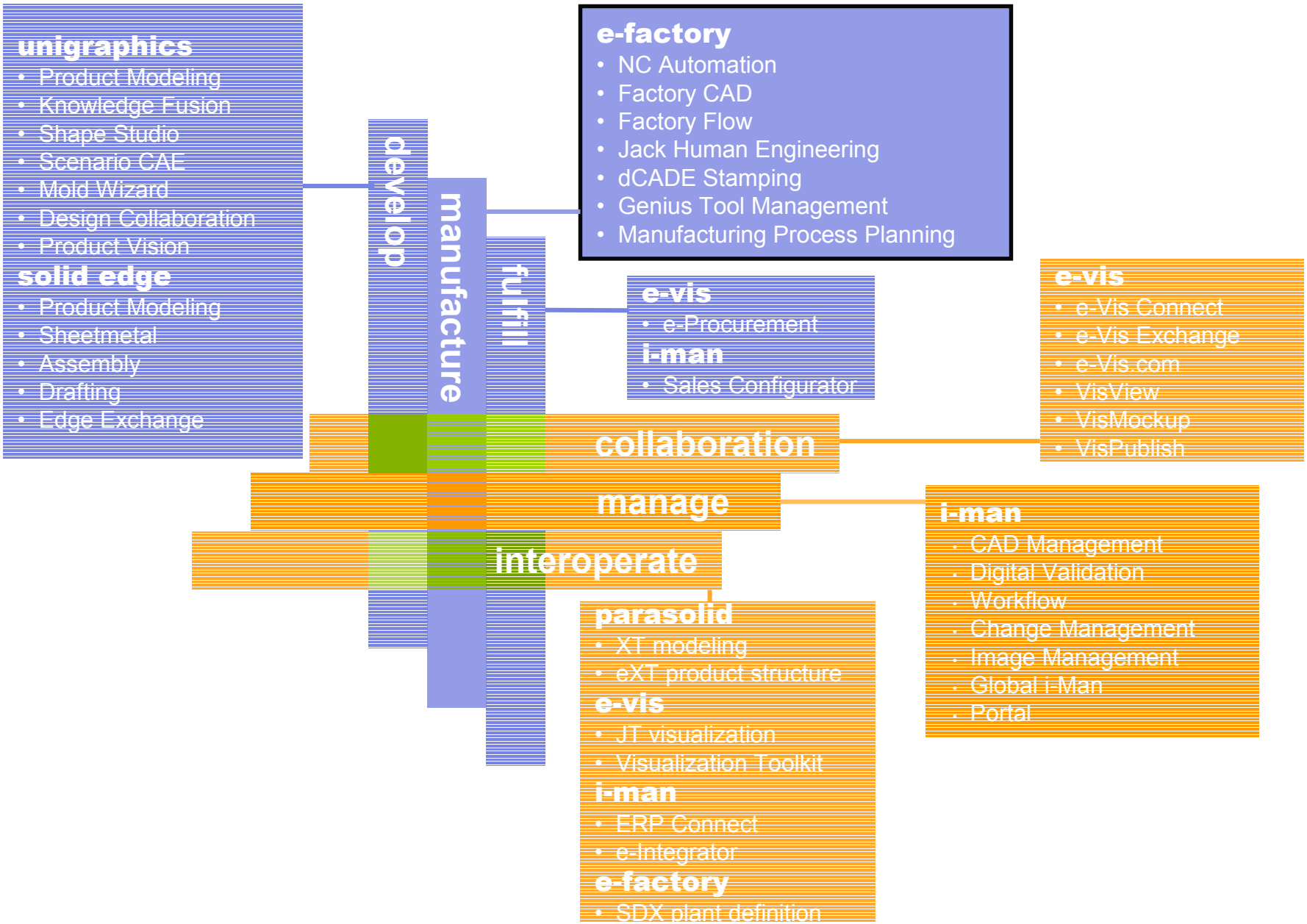
# solid edge

## … proven 2D to 3D productivity jump




- benchmark ease of use
- productivity leader: stream
- best in class 2D drafting
- powerful applications
  - assemblies
  - weldments
  - sheet metal
  - tubing
  - drafting

# manufacturing



# e-Factory

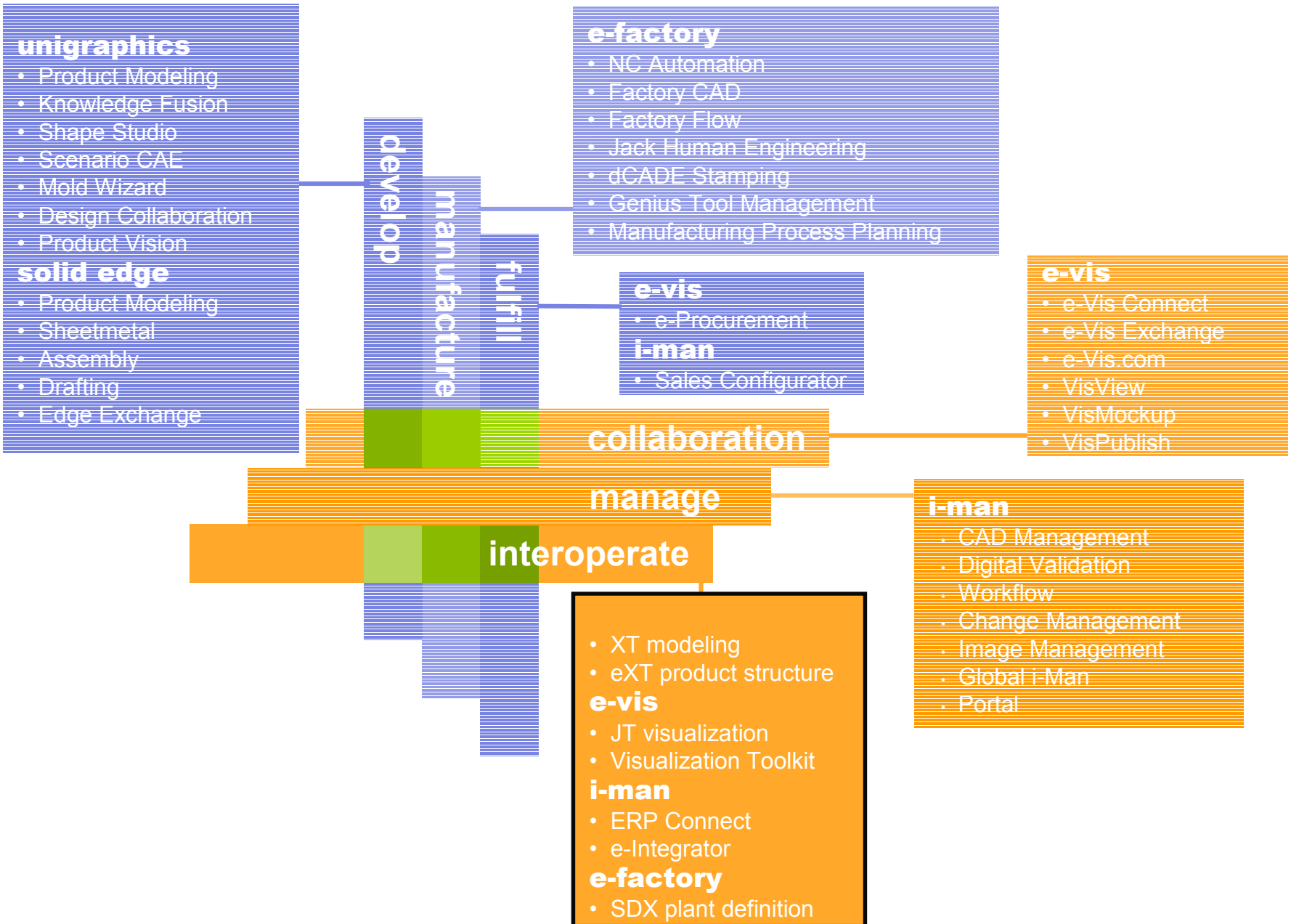
## … applications for virtual manufacturing

- Product
- Process
- Plant
- Resource

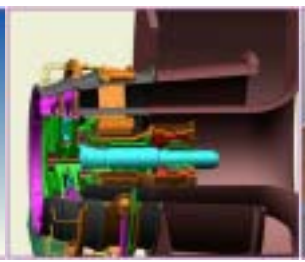
P3R

**making significant pre-production cost/time savings “reality”**

# interoperability



# Parasolid

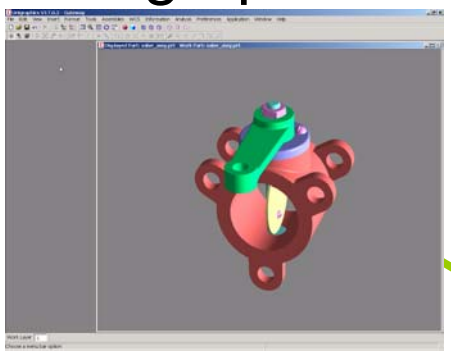


SOLID EDGE
PTC Shaping Innovation
Armonicos
Pathtrace
CADKEY
MITSUBISHI
SDRC
Mastercam
Camtek
TOPCAD
DASSAULT SYSTEMES
SolidWorks
Deneb
ADAMS
ICAD-MX
MSC SOFTWARE
SIMULATING REALITY
IRON CAD
E A I
KNOWLEDGE TECHNOLOGIES INTERNATIONAL
UG UNIGRAPHICS
BENTLEY
CADMAX
GM
UNITED TECHNOLOGIES PRATT&WHITNEY
ANSYS
BOEING
ESPRIT

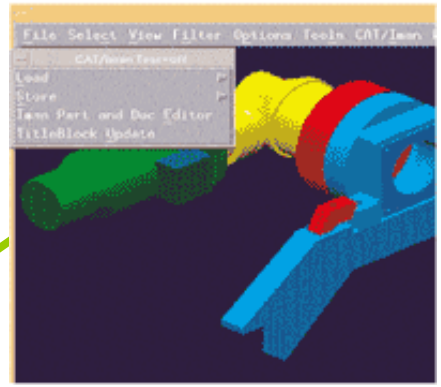
690,000 seats – 240 licensees – 230 applications

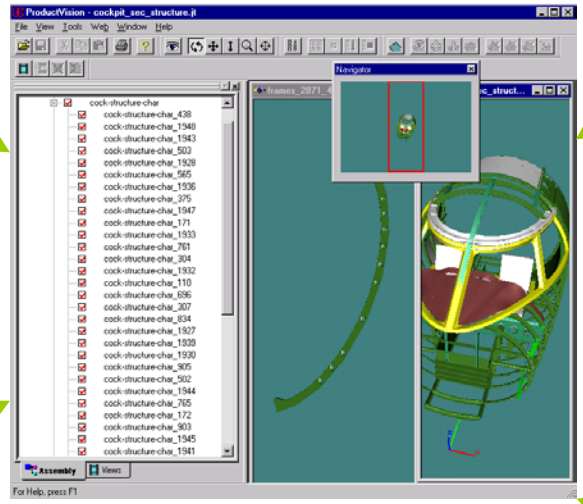
# DirectModel

Unigraphics

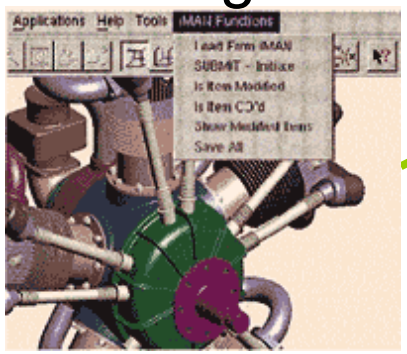


CATIA

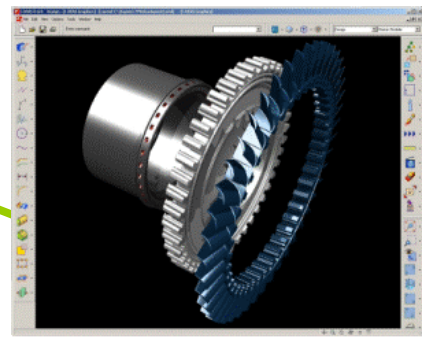



Pro/Engineer




I-DEAS

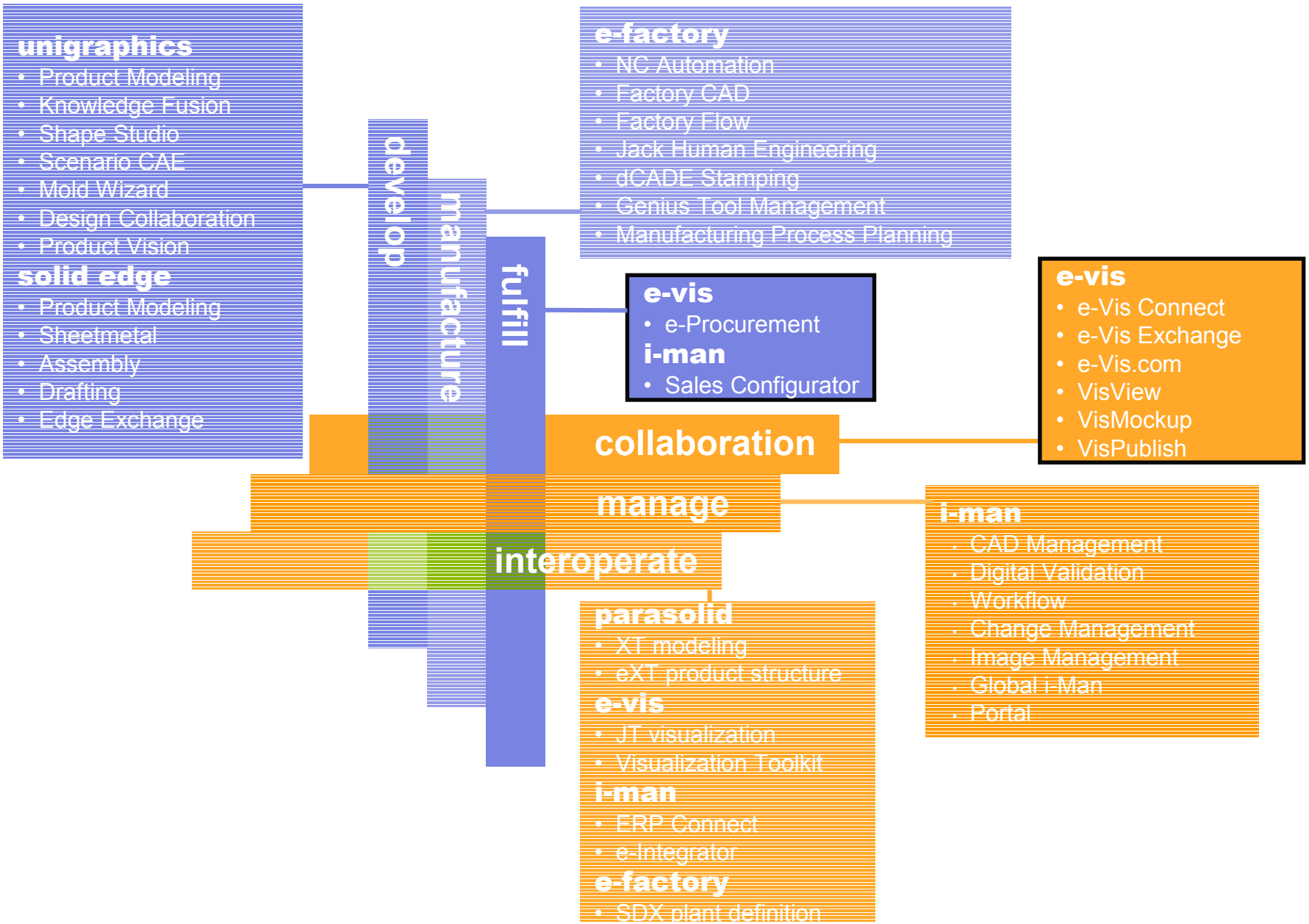


New Windows Interface for SDRC's I-DEAS
(click here for more info)

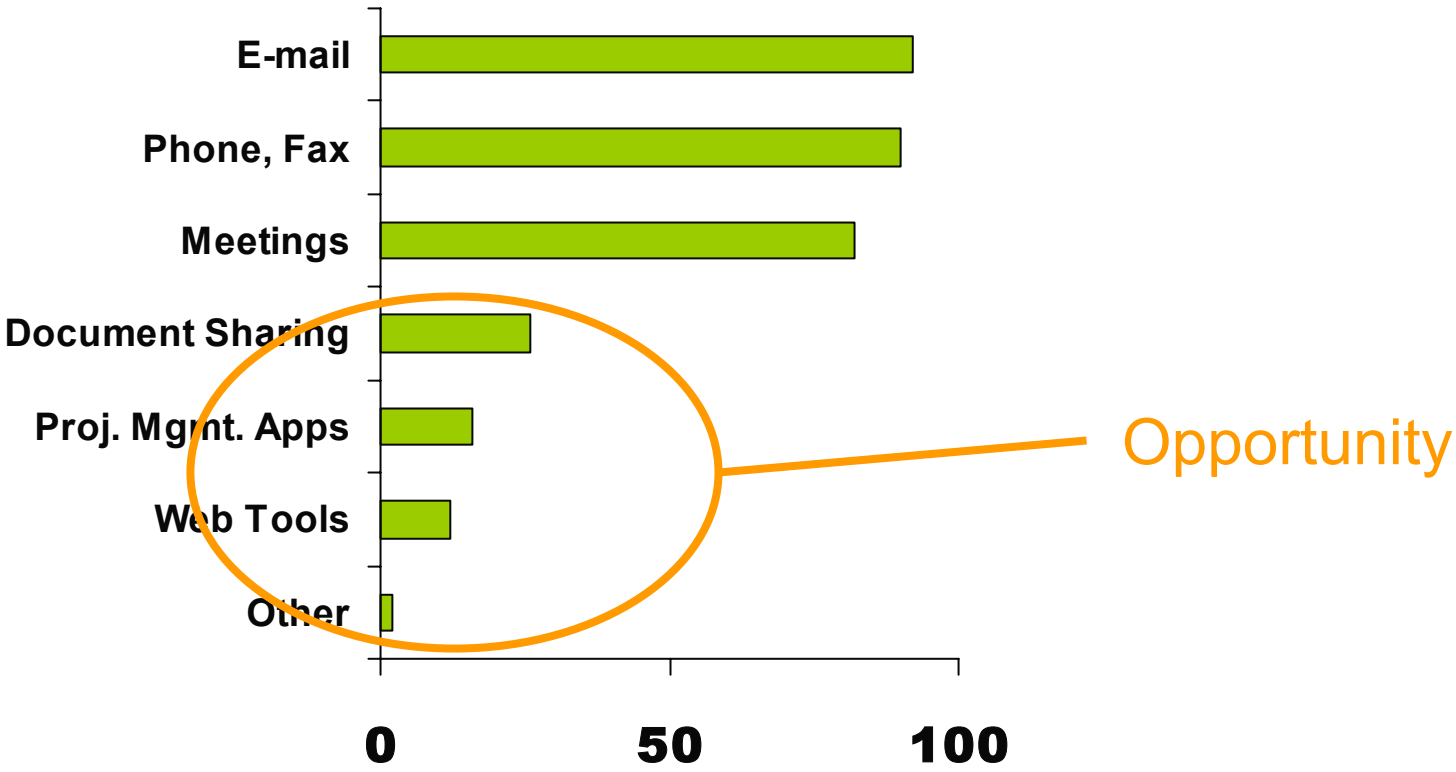
DirectModel

***industry-standard CAD-neutral format***

# collaboration



# … most collaboration is still brute force




Percent of 50 Fortune 1000 Companies Interviewed
(multiple responses accepted)

**Source**: Forrester Research, Inc., March 2000

# collaboration technology

## Collaborative Applications

### Product Design & Visualization

UNIGRAPHICS

SOLID EDGE

ProductVision

### Virtual Collaboration Rooms (vRooms)

## Geometry Pipeline

PARASOLID

XML

Visualization

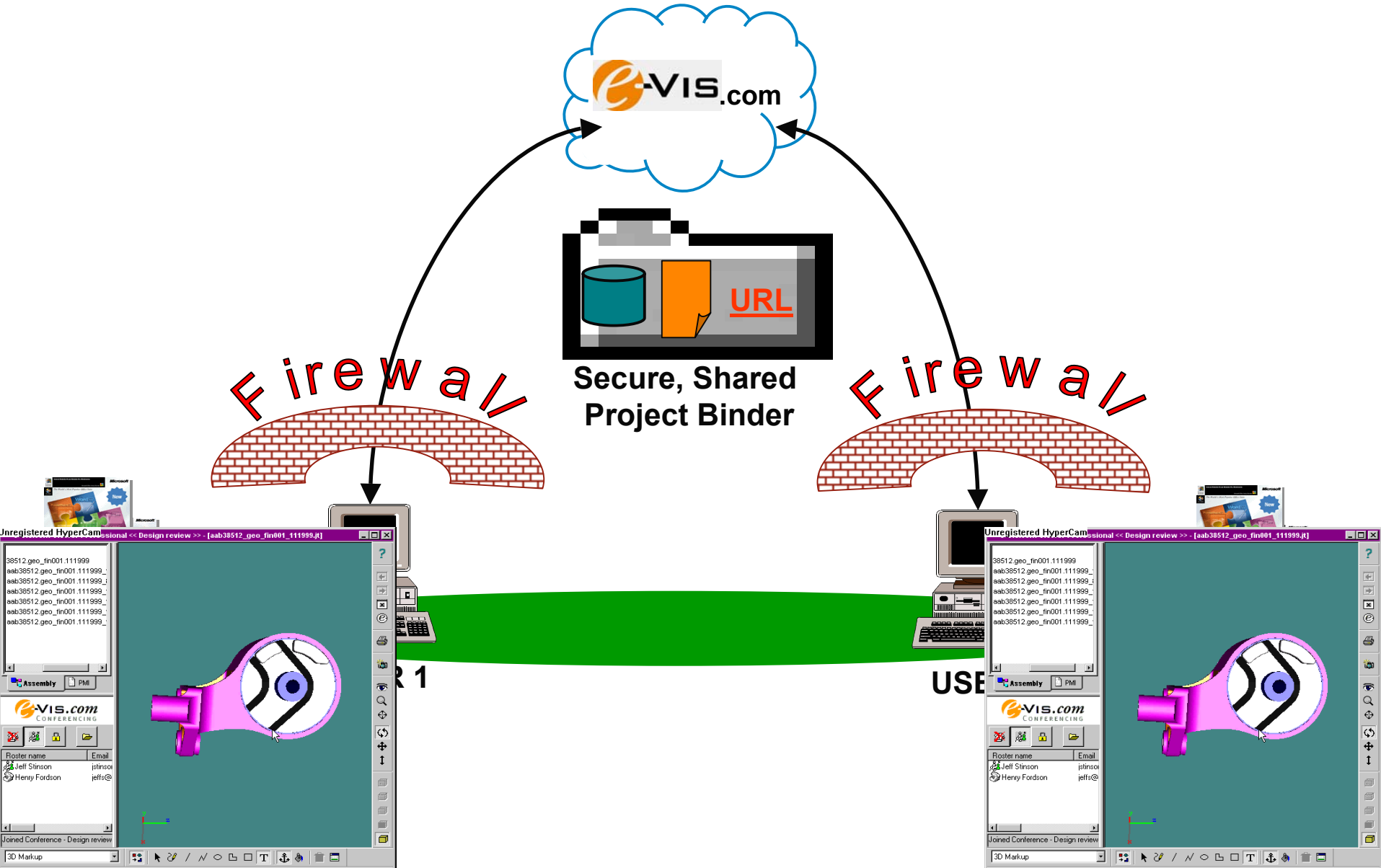
## Collaboration Server

i-man

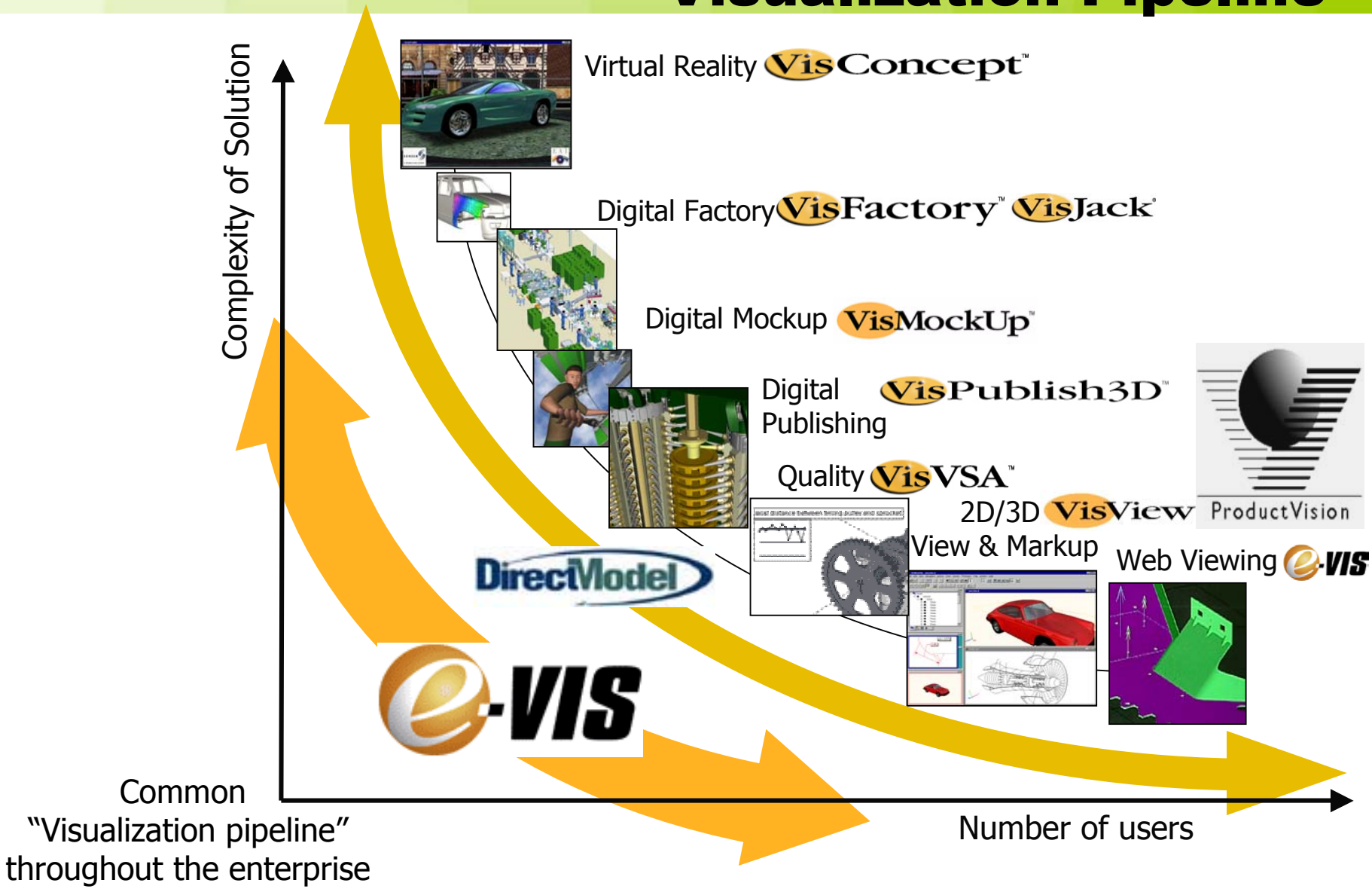
Product Data Mgmt

E A I

# visual collaboration

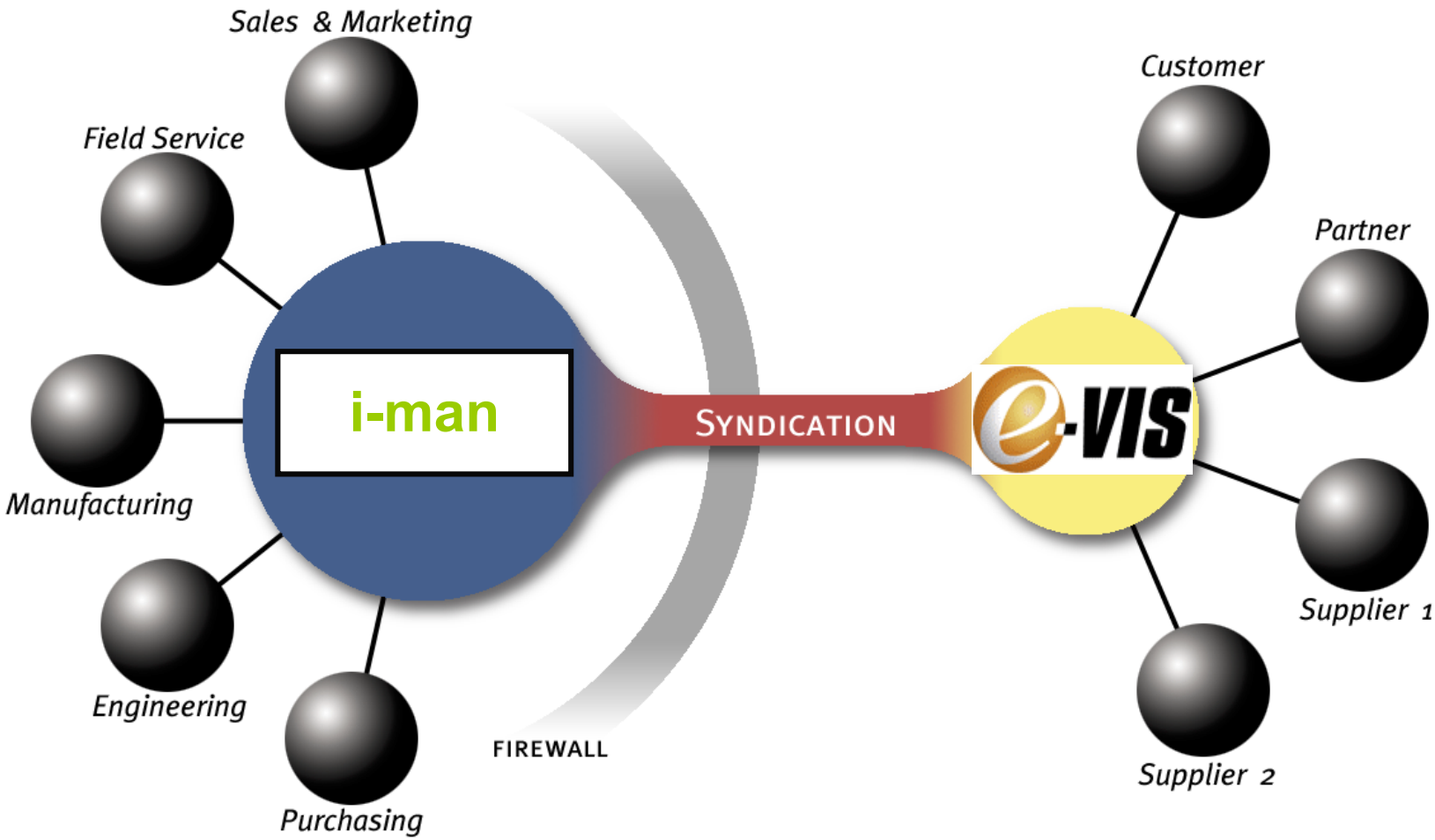


# Visualization Pipeline

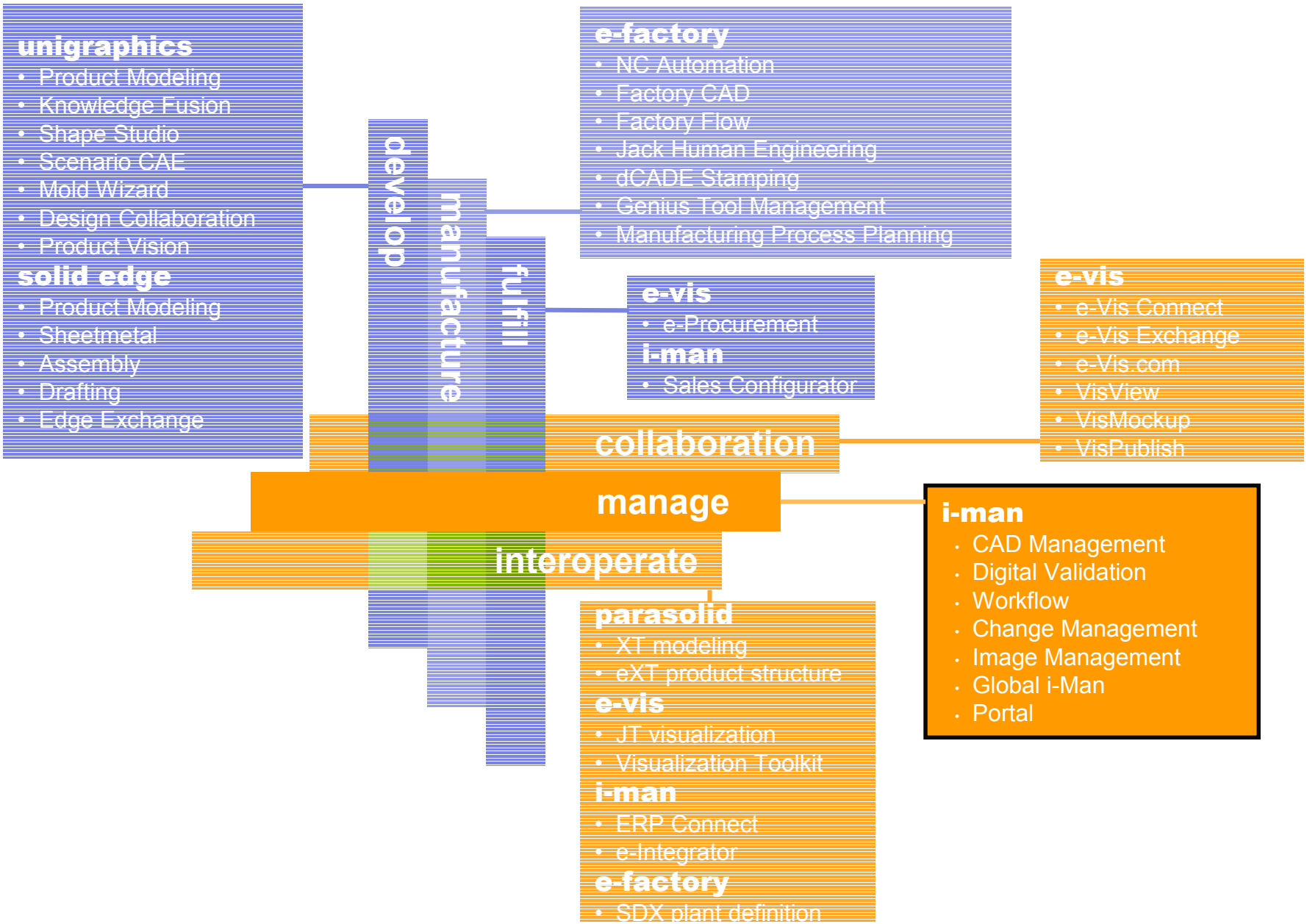


# the best of both worlds:

Intranet and Internet collaboration



# data management



# business drivers

- Some form of a **stage-gate** process is in place for new product development
- A recent Forrester Research interview of 50 Fortune 1000 Product Development executives found:
  - 96% have 3 or more departments actively involved in the product development process
  - 40% expect to work frequently with partners by 2002 - twice the number that do so today!

**Source**: Forrester Research, Inc., March 2000

# business drivers

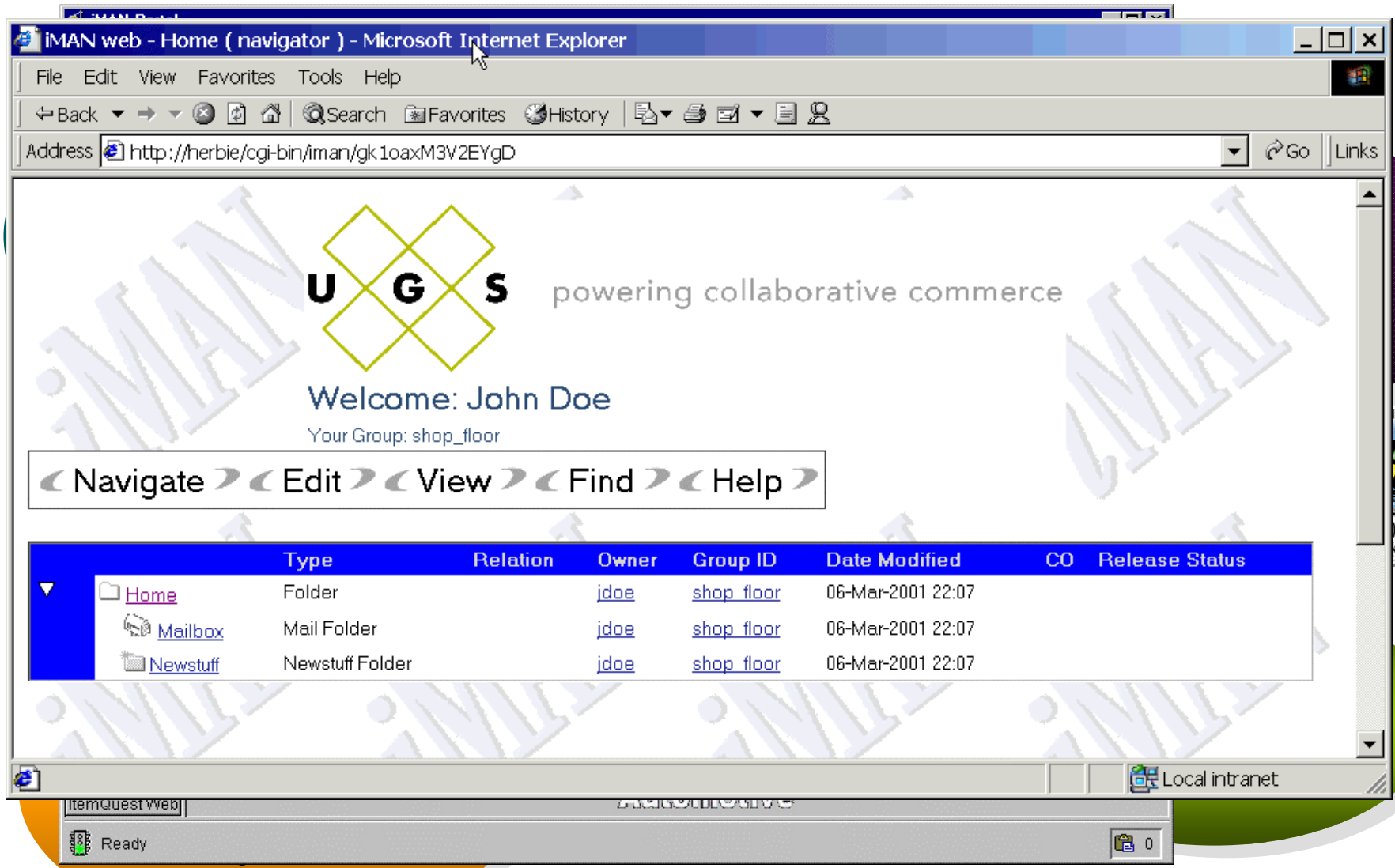
- A Deloitte Research study of 70 senior executives found that **only**:
  - **40% felt** that the **information** used in their Product Development Process was **reliable and accurate**
  - **27% felt** that the **information** was easily **accessible**

**Source**: Deloitte Consulting - Creating Unique Customer Experiences

# future environment

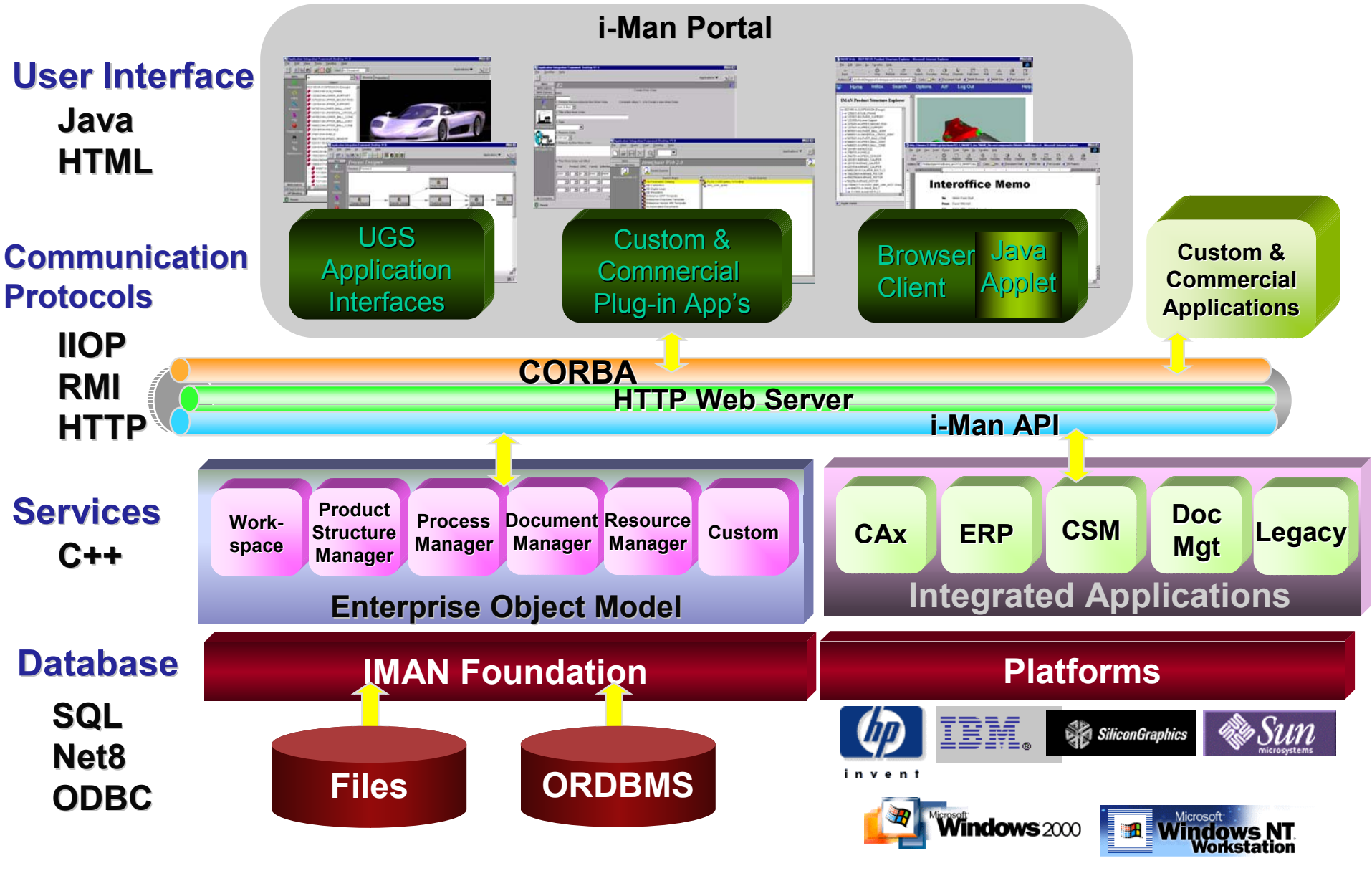
**Manage Product & Process Data in a Collaborative Product Development Environment Throughout the Extended Enterprise**

# i-man provides a scalable solution for managing, sharing, & viewing ALL product & process data

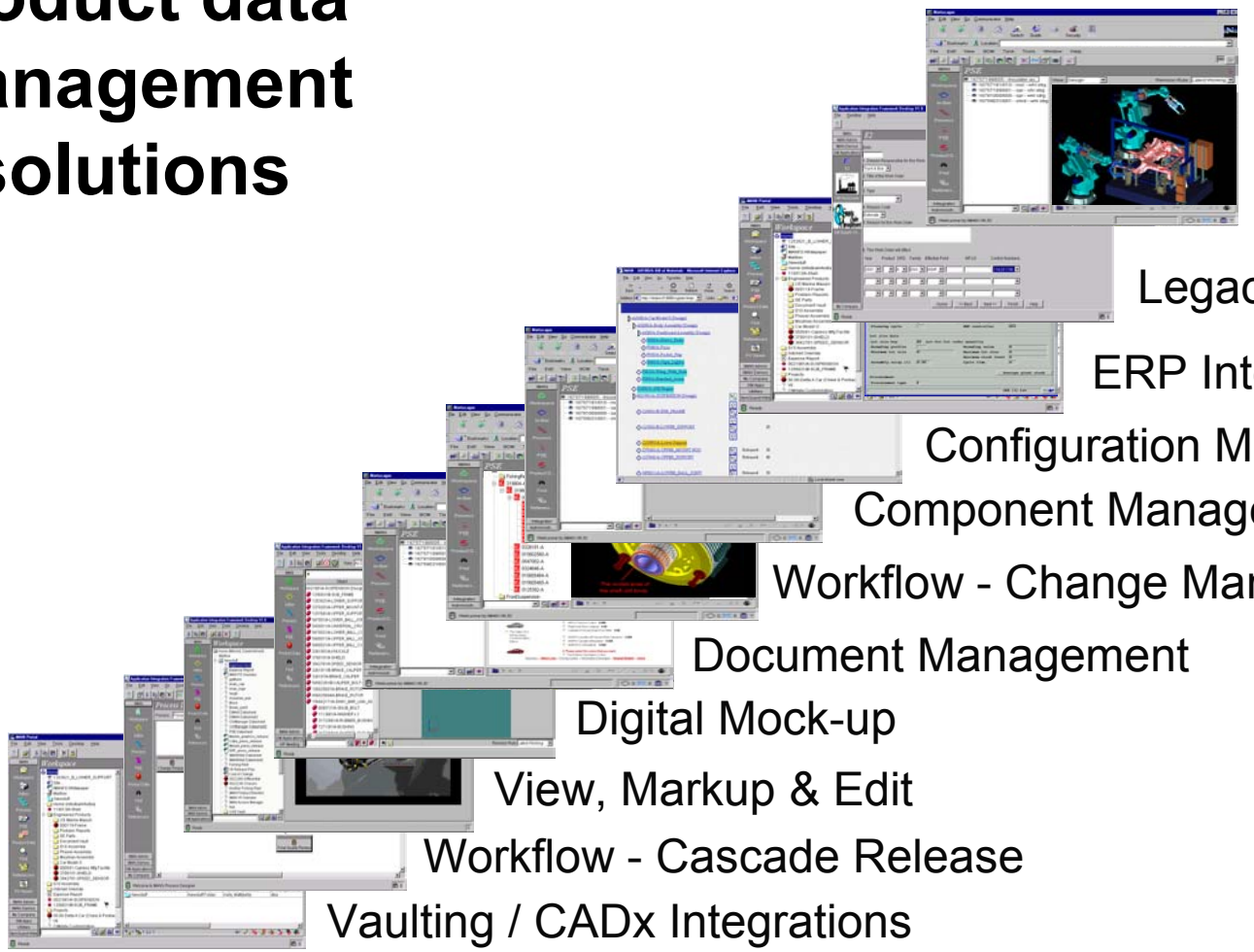



- As Built BOM

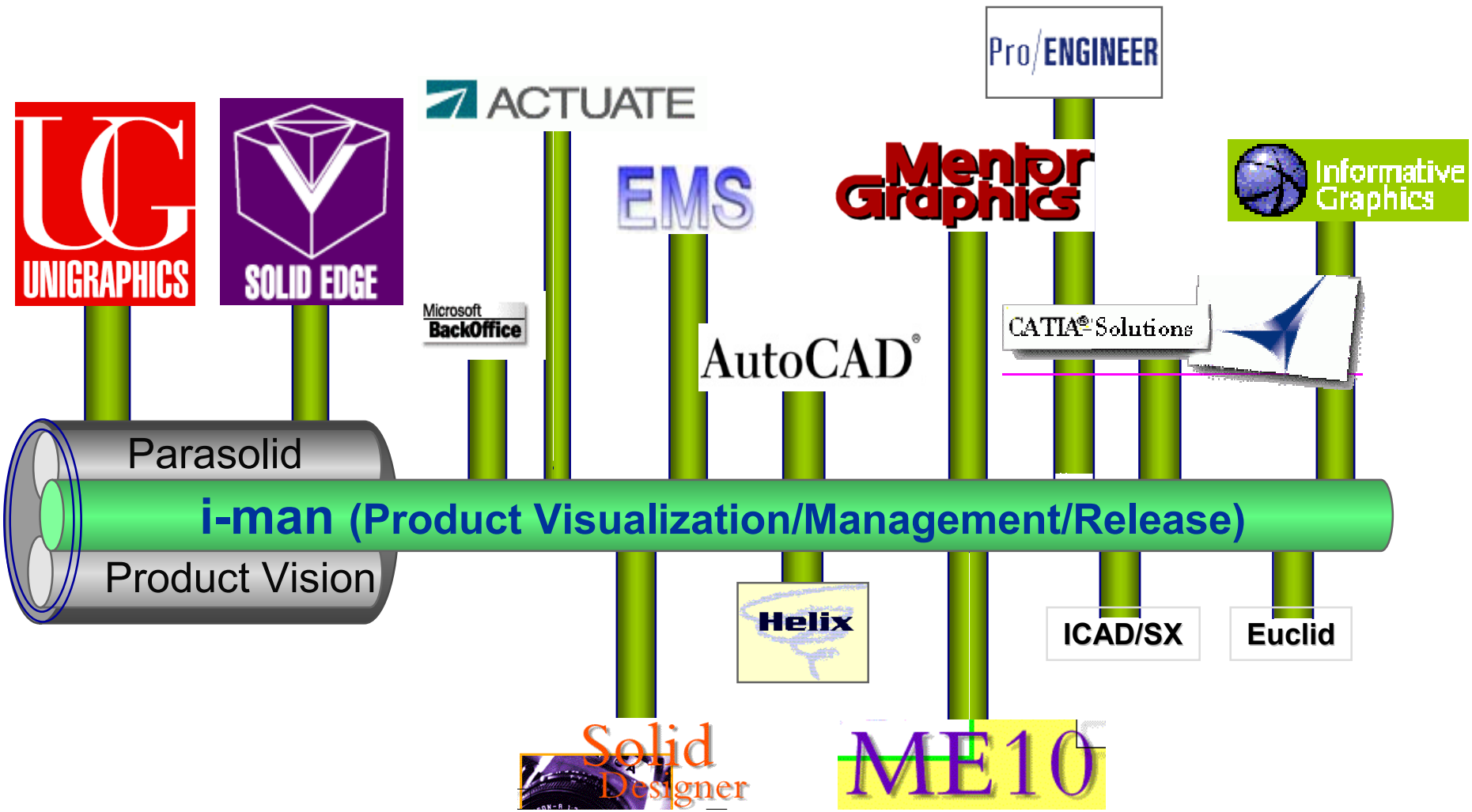
# Open, standard architecture



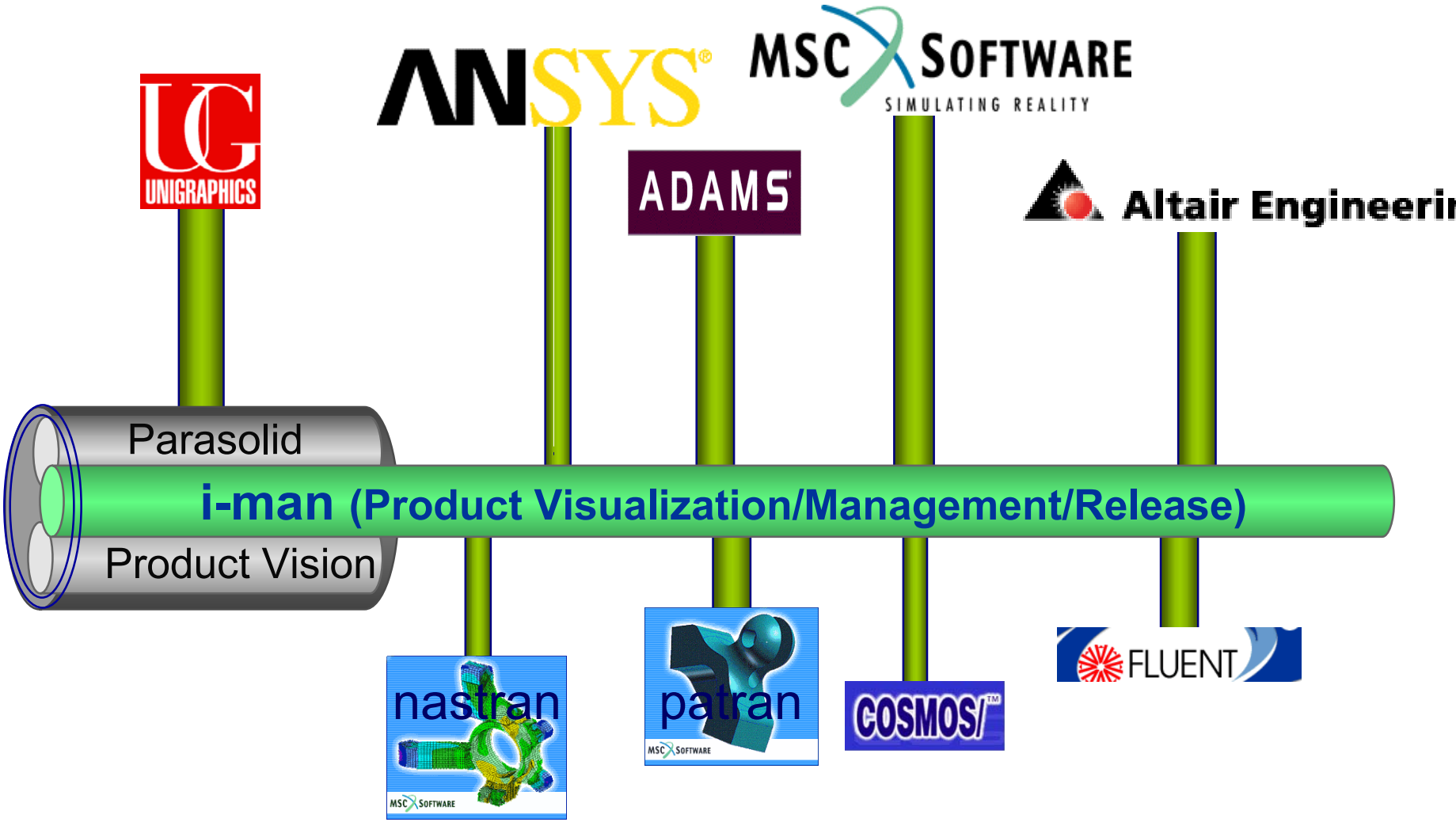
# i-man product data management solutions



# CAD integrations

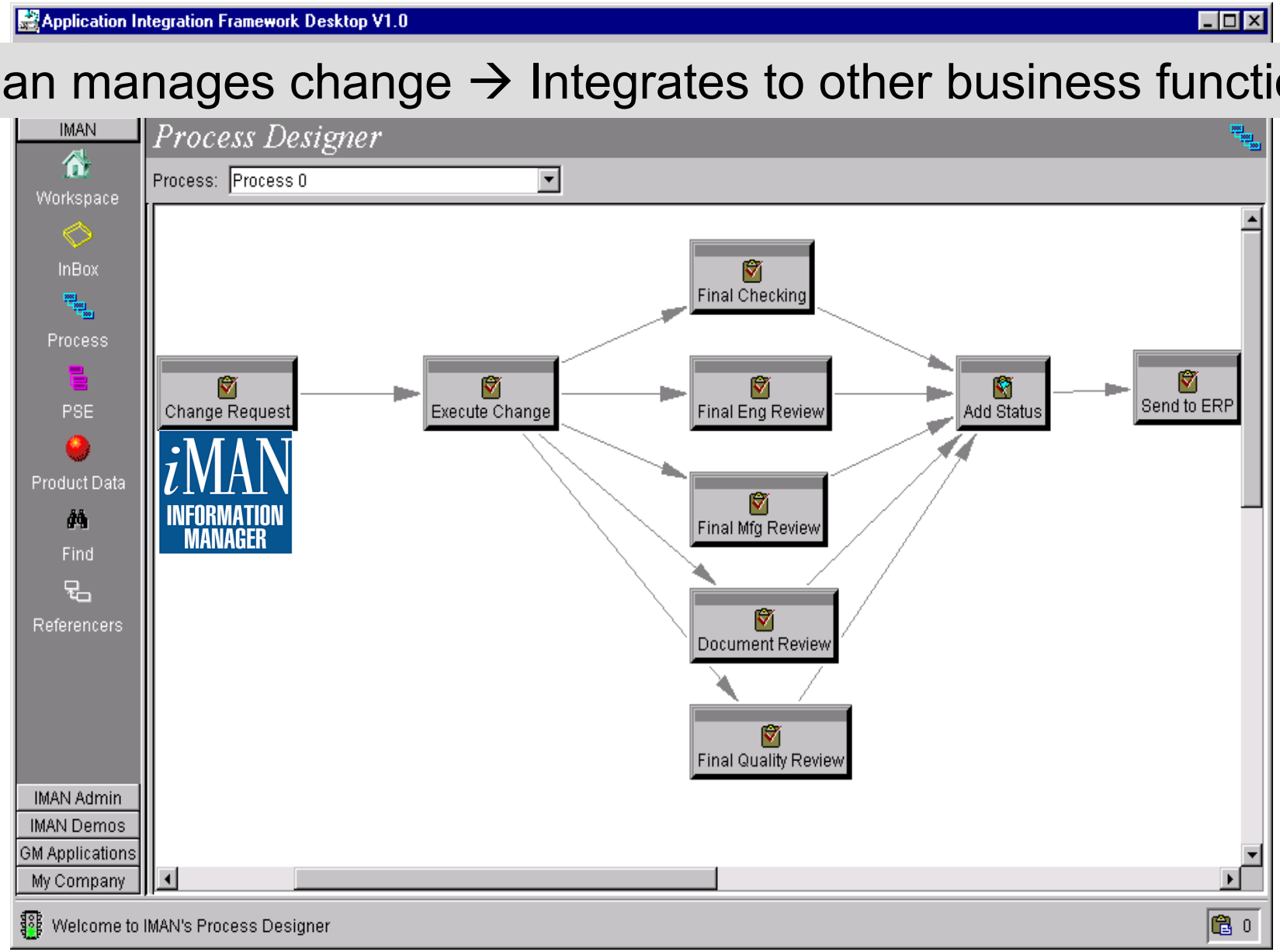


# Analysis data management

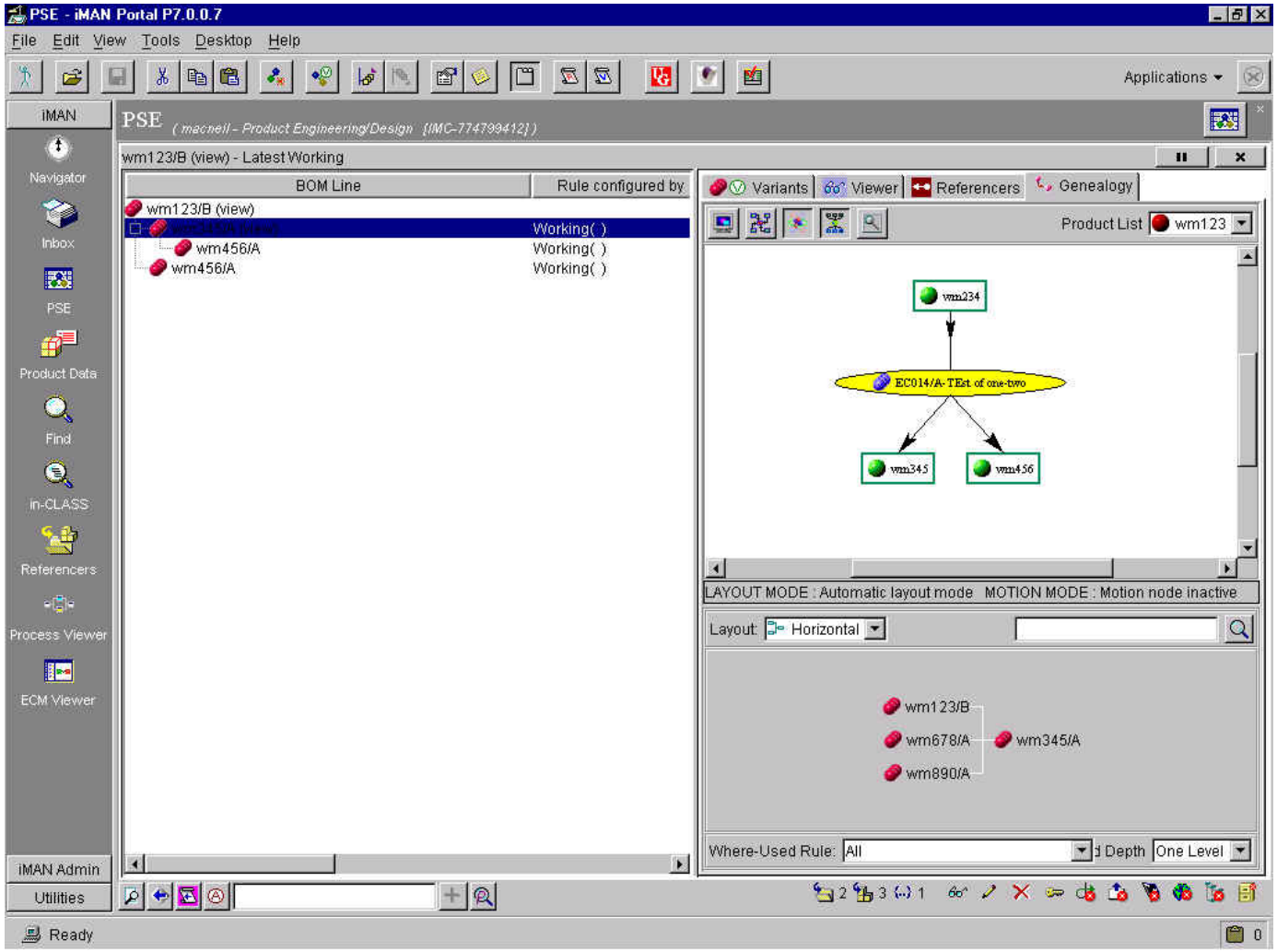


# Workflow

i-man manages change → Integrates to other business functions



# Change Management



# CMII Certified

**Institute Of Configuration Management**

*Home Of CMII*

Organizations Worldwide Are Using The CMII Principles To Upgrade
Their CM Practices, Adapting The CMII Model To Their Business
Process Initiatives And Looking For CMII Compliant Tools

**i-man V7.0**

**from UGS**

Has Been Assessed Against The CMII Model And
Was Certified To Be CMII Compliant As Of

**17 July 2001**

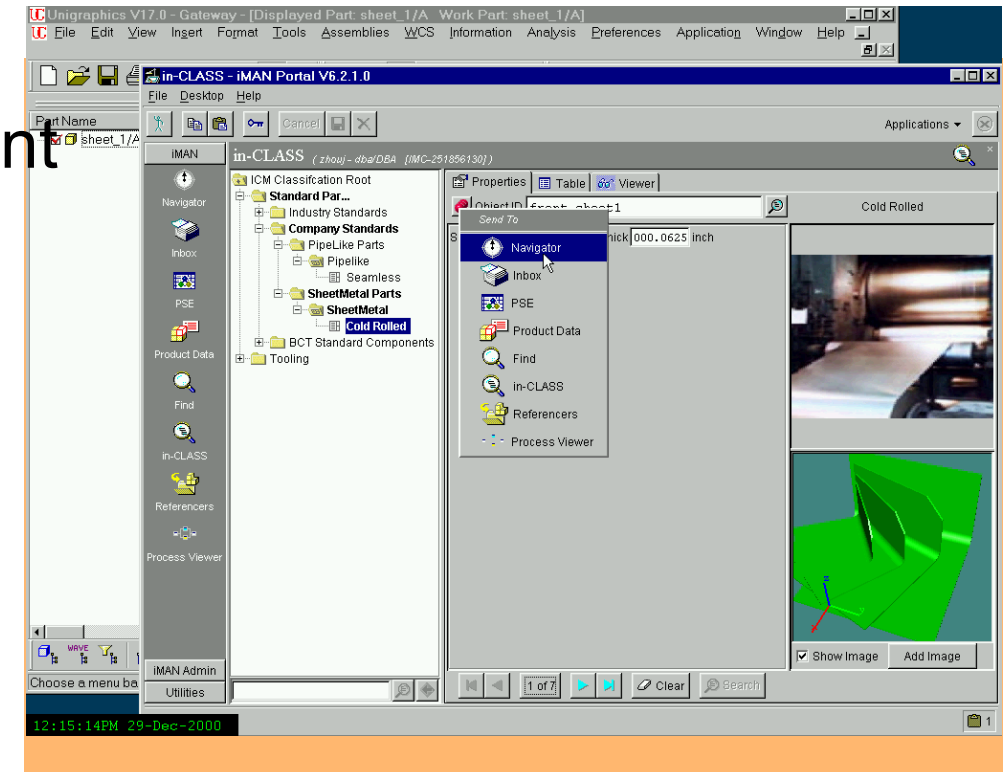
Vincent C. Guess
Institute Of Configuration Management

Philip M. Wolfe
University Coalition For CMII

CERTIFIED

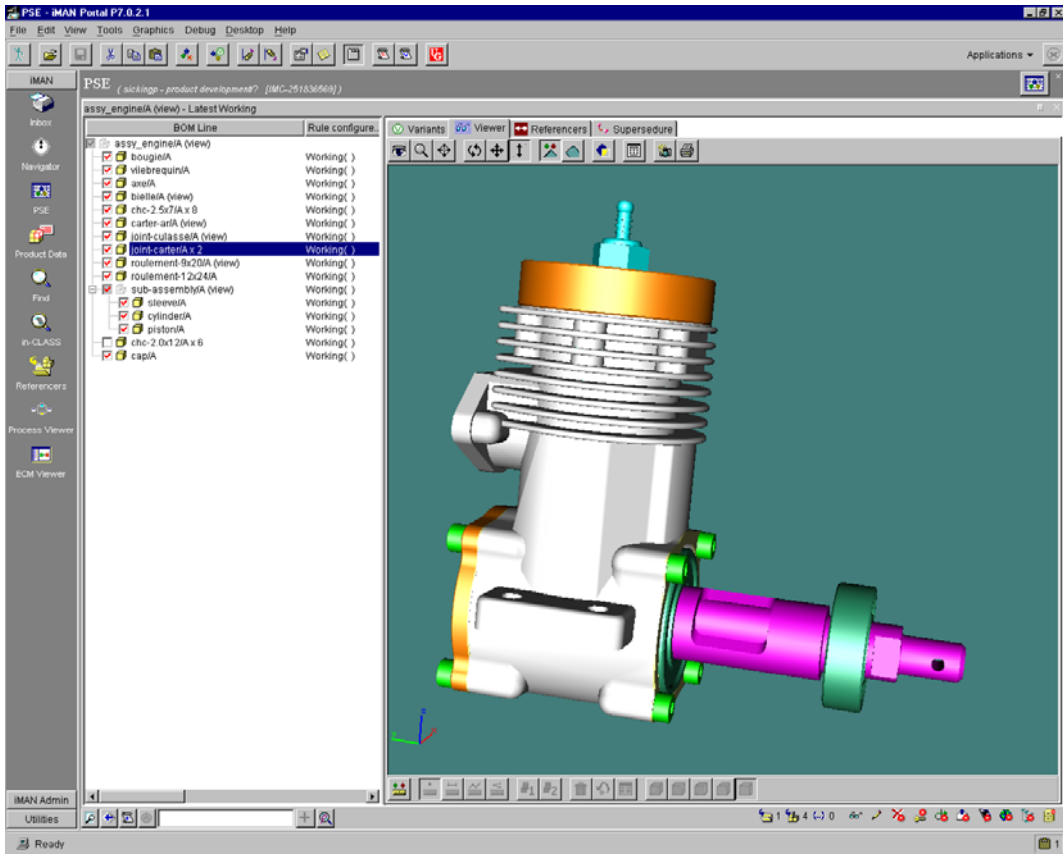
# Integrated classification application i-man inClass

- Standard parts, documents
- Component Management
  - Classification
  - Multi-Media Display
- Promotes design reuse

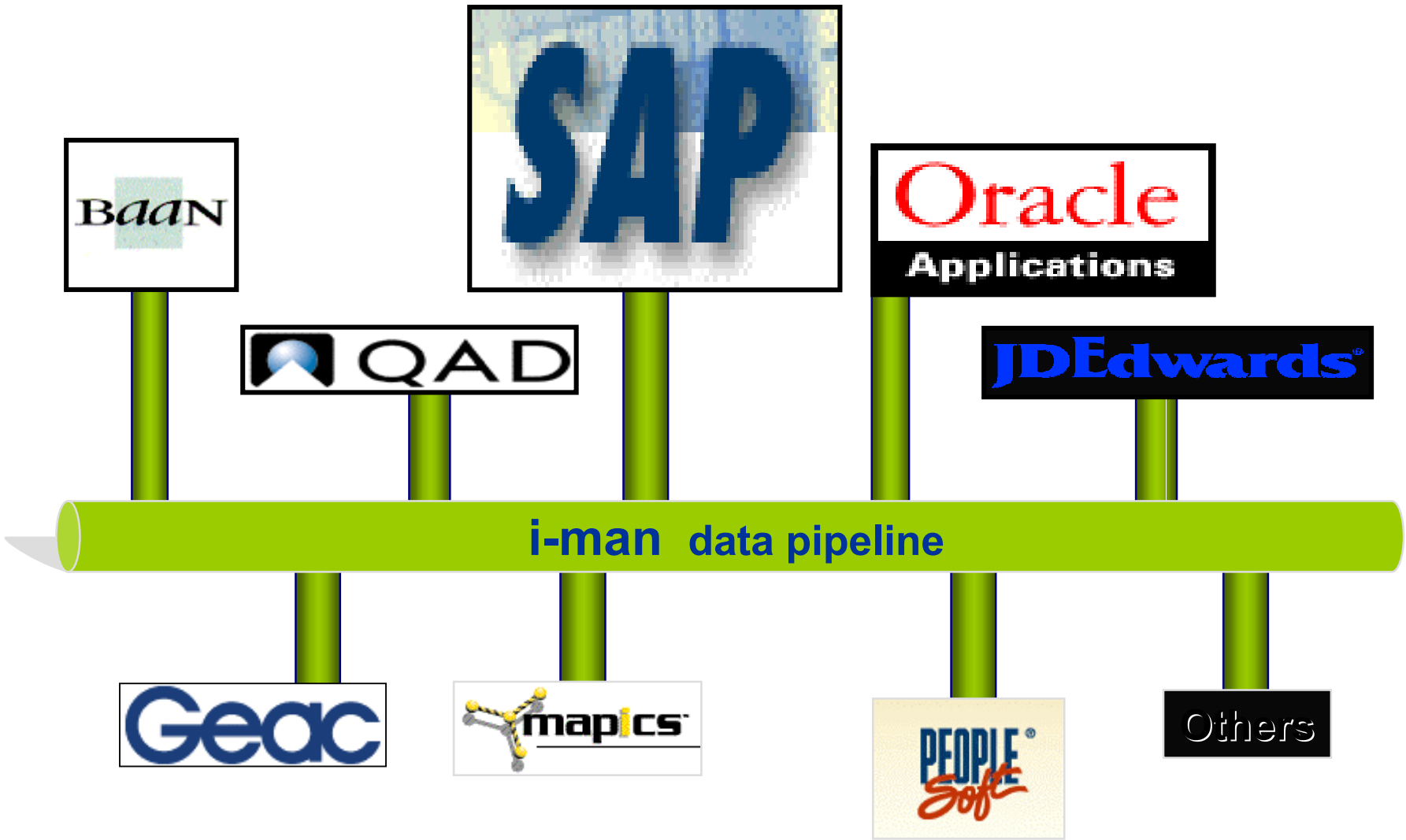


# Configuration Management

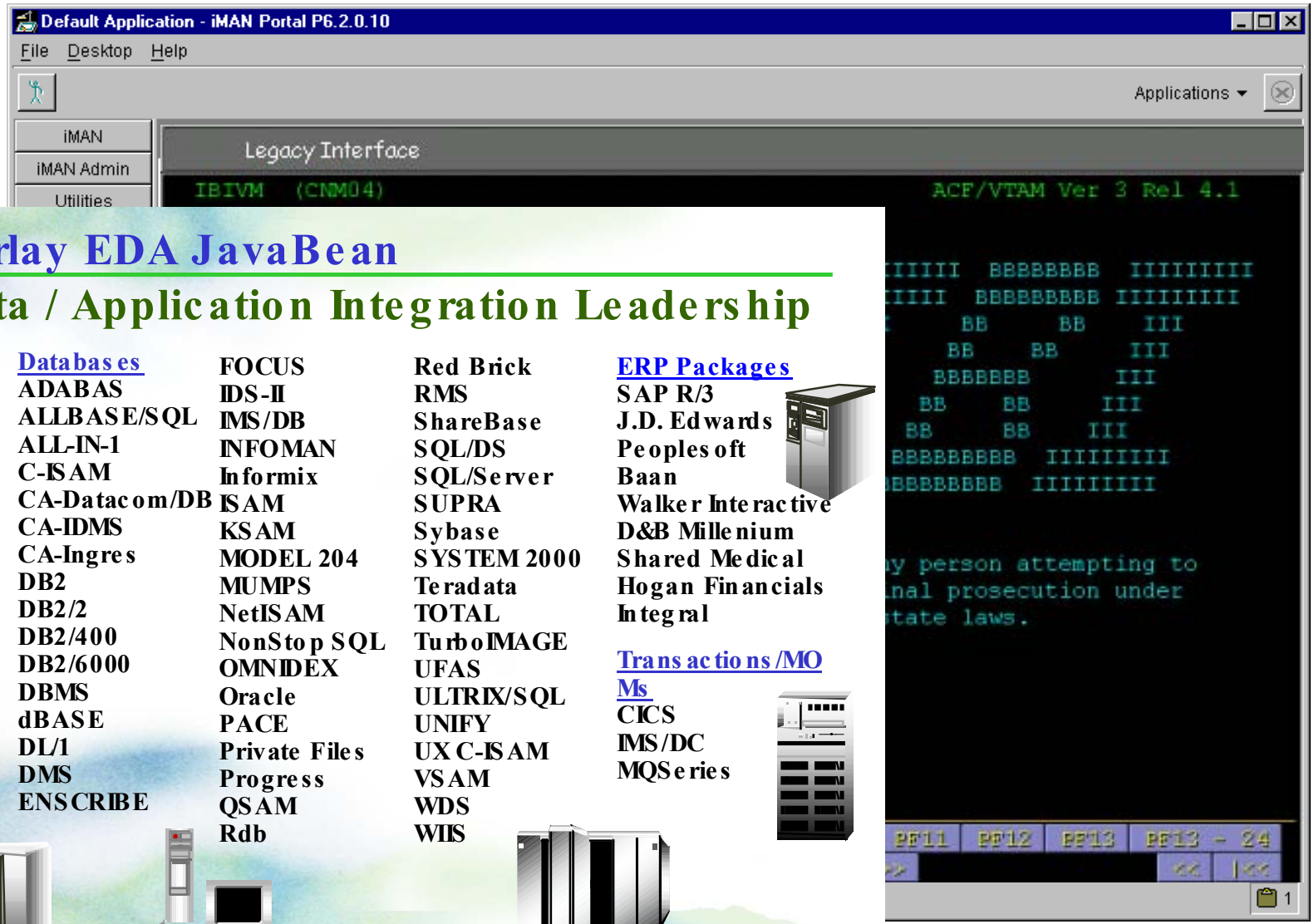
- Ability to define options and constraints
- Generate BOM by filtering variations
- Pre-configured BOMs
- Integrated visualization



# integrate with your ERP system



# legacy systems integration




## Parlay EDA JavaBean

## Data / Application Integration Leadership

**Databases**

ADABAS
ALLBASE/SQL
ALL-IN-1
C-ISAM
CA-Datacom/DB
CA-IDMS
CA-Ingres
DB2
DB2/2
DB2/400
DB2/6000
DBMS
dBASE
DL/1
DMS
ENSCRIBE
FOCUS
IDS-II
IMS/DB
INFOMAN
Informix
ISAM
KSAM
MODEL 204
MUMPS
NetISAM
NonStop SQL
OMNIDEX
Oracle
PACE
Private Files
Progress
QSAM
Rdb
Red Brick
RMS
ShareBase
SQL/DS
SQL/Server
SUPRA
Sybase
SYSTEM 2000
Teradata
TOTAL
TurboIMAGE
UFAS
ULTRIX/SQL
UNIFY
UX C-ISAM
VSAM
WDS
WIIS

**ERP Packages**

SAP R/3
J.D. Edwards
Peoplesoft
Baan
Walker Interactive
D&B Millenium
Shared Medical
Hogan Financials
Integral

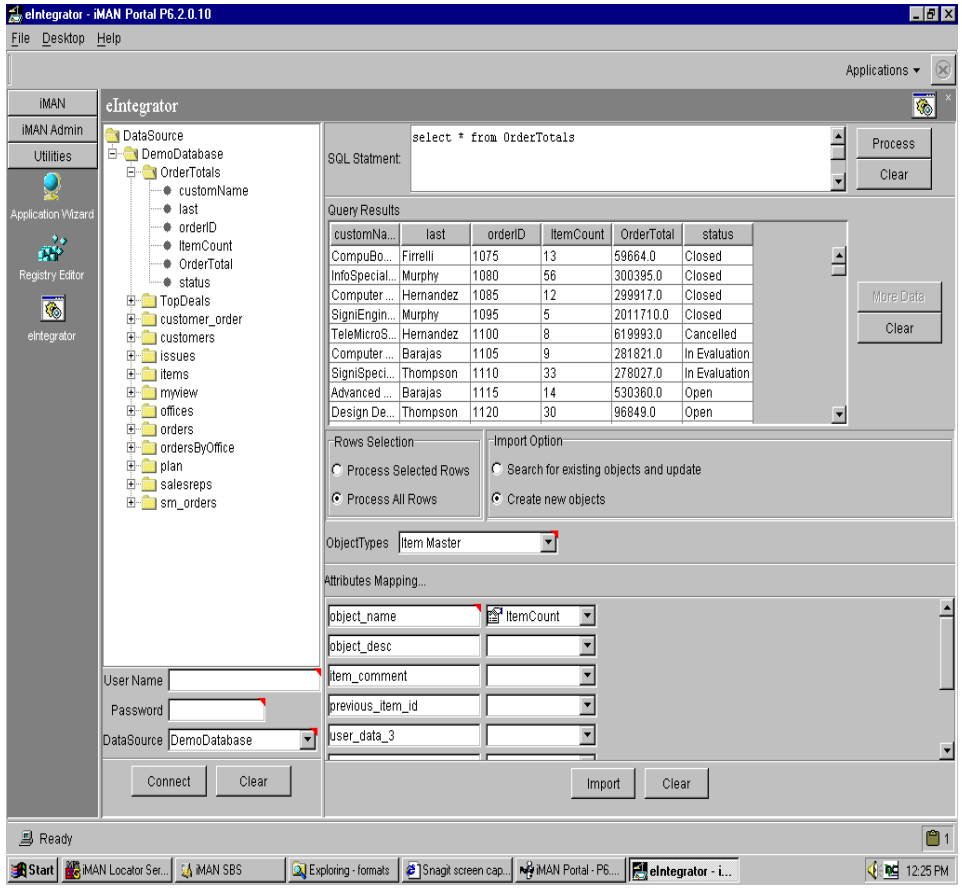
**Transactions/MOMs**

CICS
IMS/DC
MQSeries

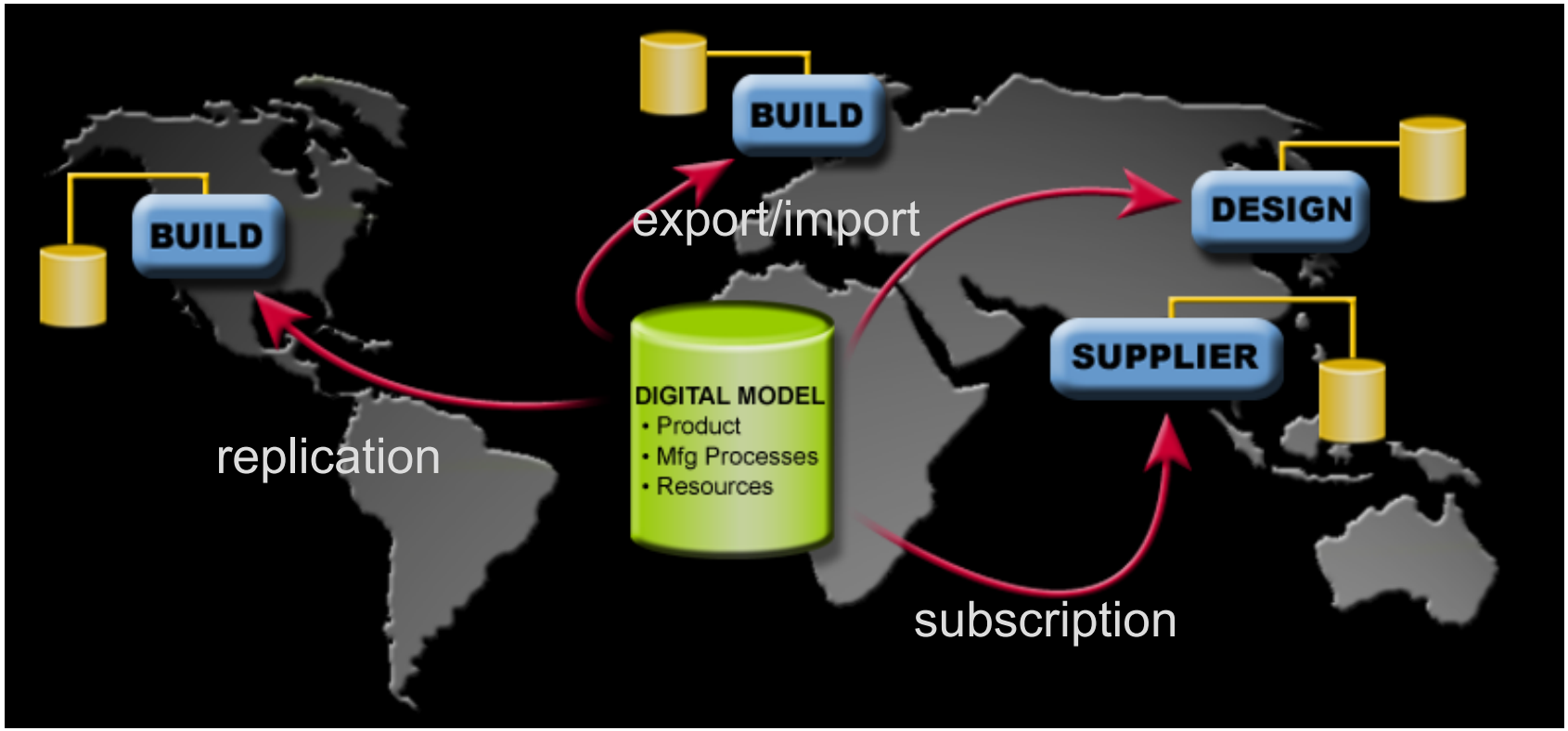
# i-man / e-integrator

## Delivering Enterprise Connectivity

- Application for Quick Viewing of Information Located in External Data Sources
- Facilitates import of external database information to i-man
- Creates External Attribute Mapping to i-man Objects
- Leverages JDBC / ODBC Technologies



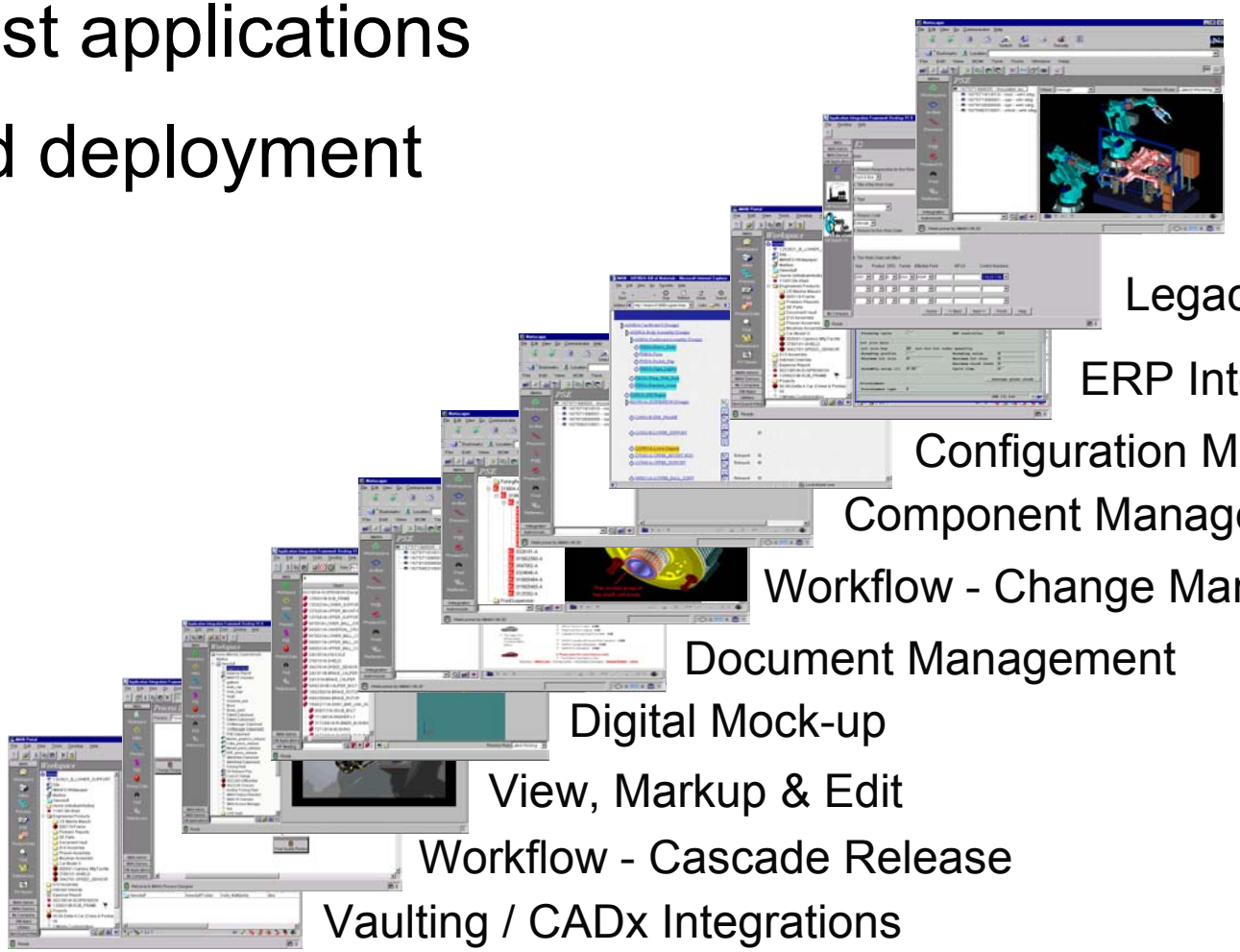
# global i-man




- Design collaboration
- Design anywhere, build anywhere
- Supplier collaboration

# i-man

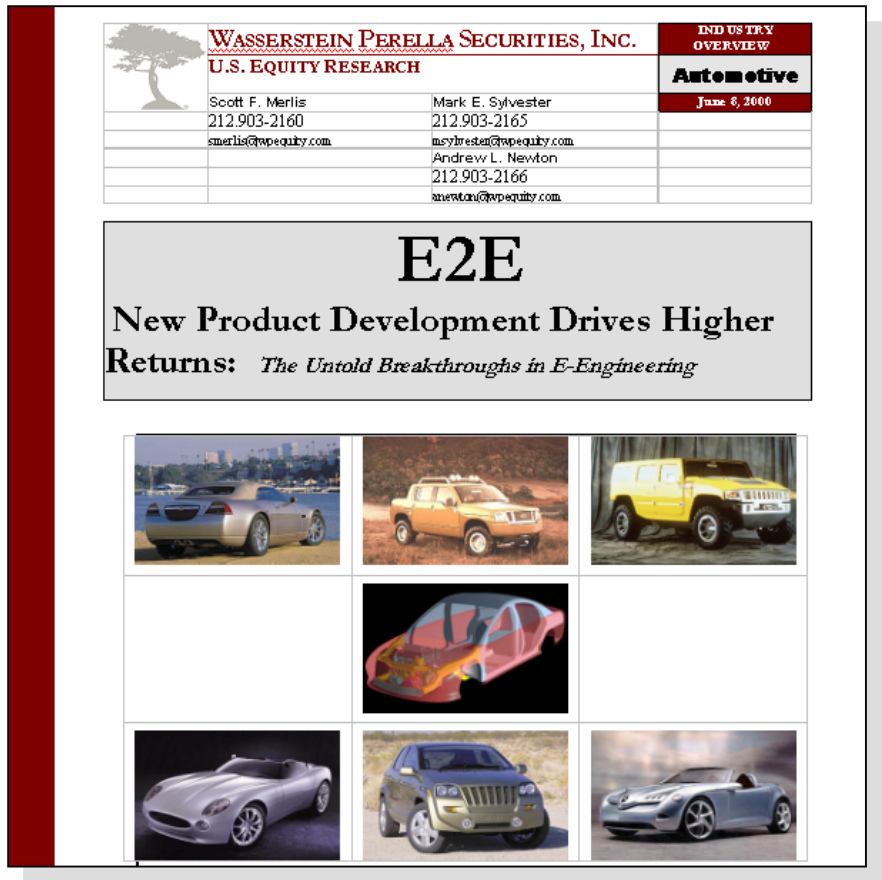
- Leading edge technology
- Robust applications
- Rapid deployment



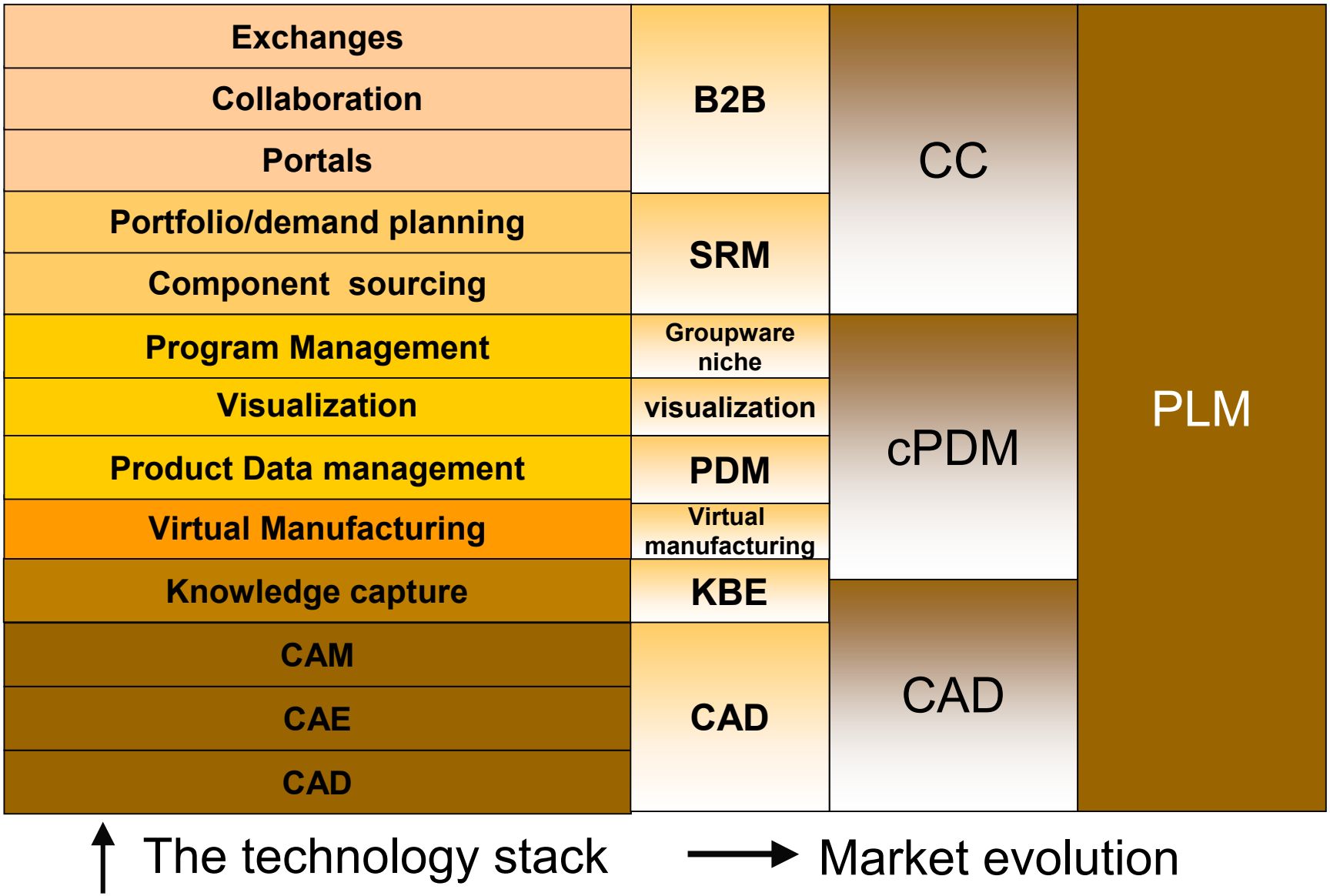
# the future

Wasserstein-Perella report on automotive industry:

- Collaboration will facilitate $19 billion savings in product development costs for the Big 3 automakers alone.
- Product development time will be reduced by 50% over a five-year forecasting horizon.
- Production costs will be lower $900 to $1,300 per vehicle.

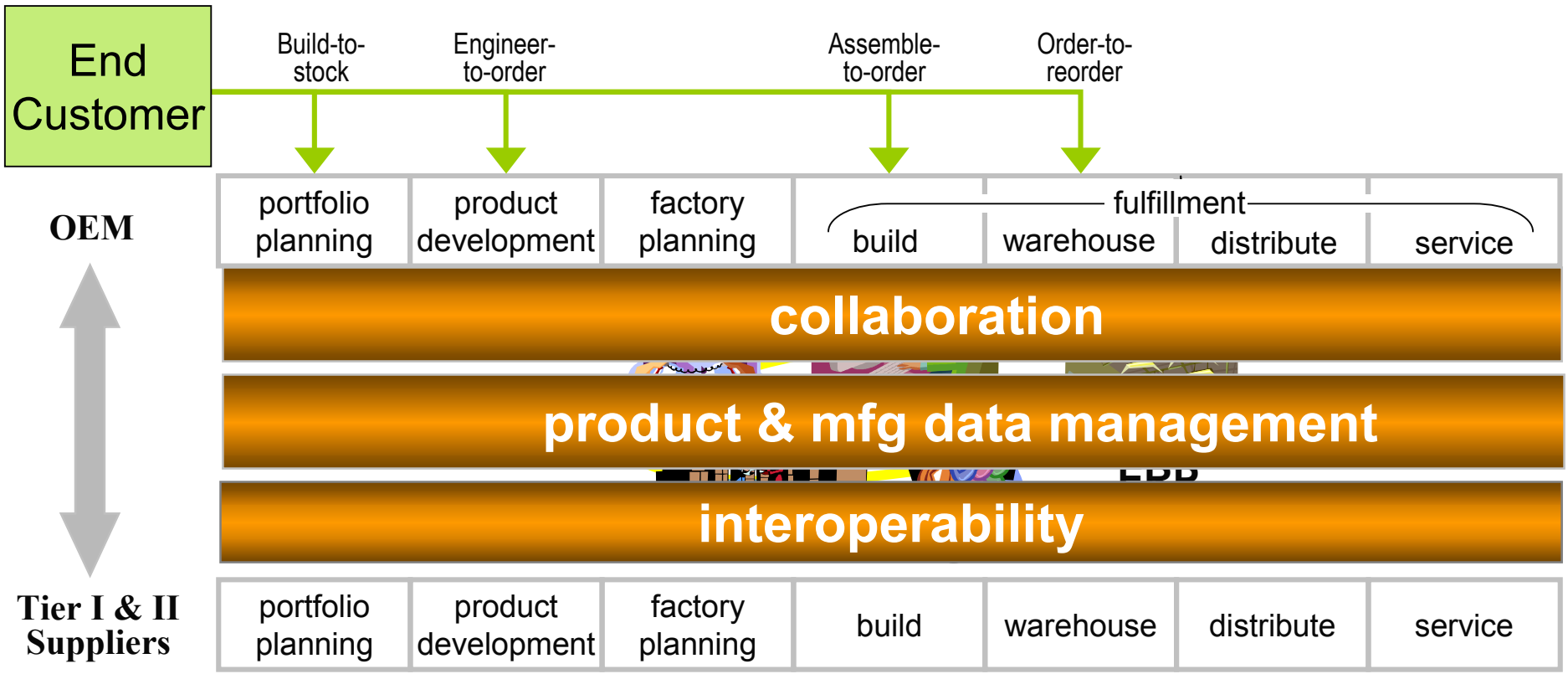


# the future


Exchanges
Collaboration
Portals
Portfolio/demand planning
Component sourcing
Program Management
Visualization
Product Data management
Virtual Manufacturing
Knowledge capture
CAM
CAE
CAD
B2B
SRM
Groupware niche
visualization
PDM
Virtual manufacturing
KBE
CAD
CC
cPDM
CAD
PLM
The technology stack
Market evolution

# PLM ... market model

## moving to internet-enabled collaboration



… solving the most

challenging business

problems with solutions

from UGS.

…THANK YOU

questions?