

# History, present and future of our CAD integration

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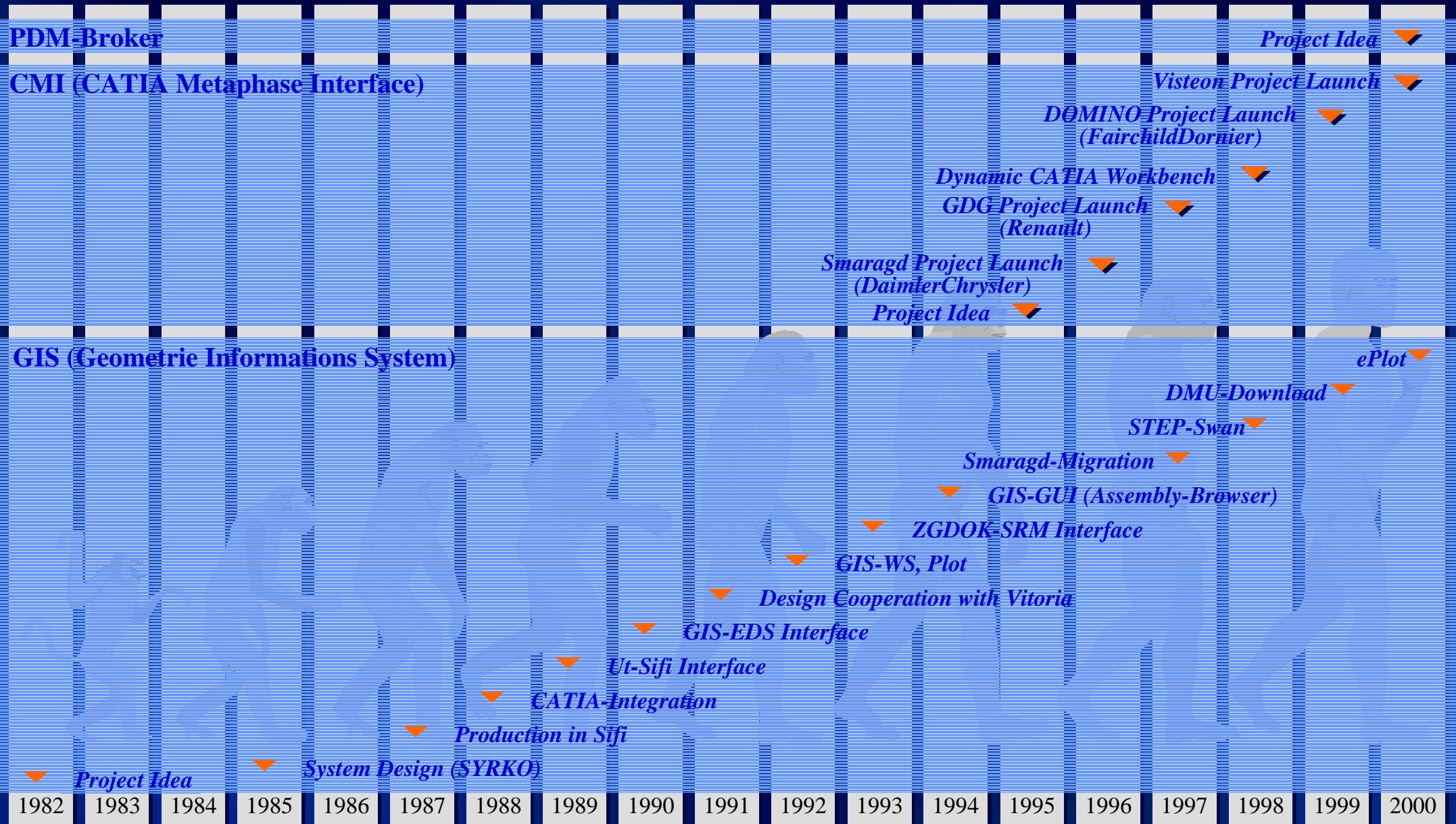
Our history (CAD Integration Projects)

Present activities in CAD integration

Our customers and projects

CAD integration in the future

# Our History (CAD Integration Projects)



# Present activities in CAD integration

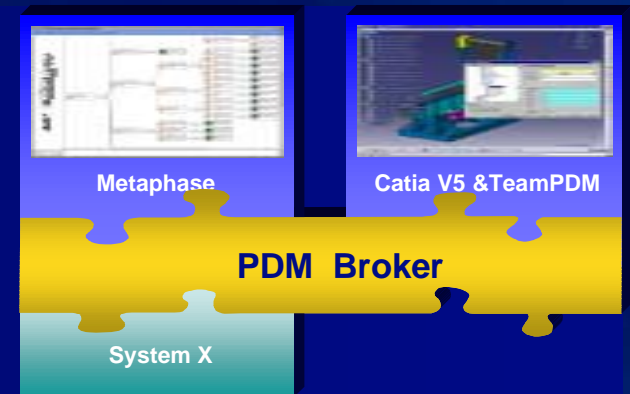
## ■ Extend existing CMI functionality

- ⇒ Citrix Integration
- ⇒ Customer specific CATIA V5 Integration



## ■ Implementation of PDM-Broker

- ⇒ Flexibility
- ⇒ Fast adaptability
- ⇒ Integration of standard products



## ■ Enhance partnerships

- ⇒ SDRC (partnership since 1995)
- ⇒ SmartSolutions (contract in closing phase)
- ⇒ Dassault (CAA2-contract in discussion)



# Our Customers (Examples)

DAIMLERCHRYSLER



Renault



FAIRCHILD  
AEROSPACE



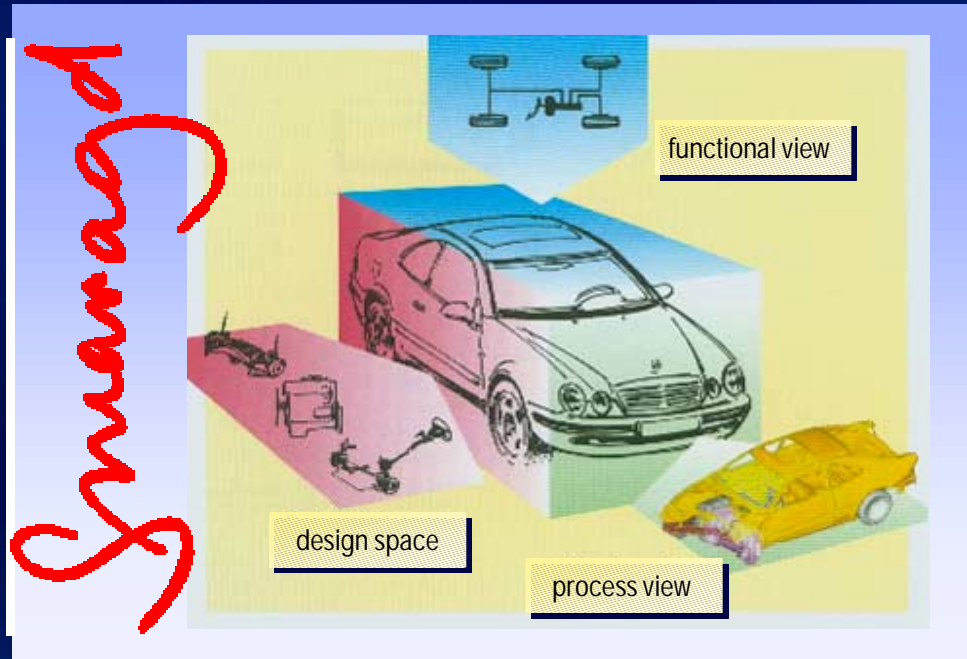
BF Goodrich



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# Geometry data management with Smaragd



SMARAGD is the EDM-System of DaimlerChrysler to manage product and top geometry data (based on METAPHASE)

- Delivery of all documents concerning each part or component
- Geometry data management and search
- Association of geometry to the BOM
- Worldwide access and data exchange with various access rights

## Advantages for DaimlerChrysler:

- Worldwide informations for product and top geometry data
- Basis for Digital Mockup / Digital Car
- Improved quality at the product development process

*SMARAGD is the follow-on to GIS host and provides functional enhancements, e.g. the integration of different applications and significantly improves support of the product development process*

# CATIA-METAPHASE-INTEGRATION (CMI) at RENAULT S.A.



## Advantages for Renault:

- Flexible partner for SW features to be realized
- Support on-site and in native language
- Integrated PDM - CAD solution with high performance
- High level automotive process know how

Development, Implementation, Customization and on-site support of the METAPHASE PDM project GDT.

- **Locations:**
  - Paris (development),
  - France, Spain, ... (production)
- **Number of seats:**
  - over 1000 CAD seats
  - over 2500 PDM seats
  - up to date 450 CMI licenses
- **Applications:**
  - CATIA, IDEAS, EUCLID
  - METAPHASE, CDM, VPM
  - 4D NAV

# Engineering Data Management with DOMINO



DOMINO is the new EDM system of Fairchild Dornier used for the management of all data describing products as well as means of production.

- Configuration management
- Change management
- Life cycle management
- BOM management
- Document and geometry data management
- Data exchange with suppliers

## Advantages for Fairchild Dornier:

- Information turntable for all data
- Increased product quality
- Decrease in development time by the product development process



# CAD integration in the future

- Establish T-Systems at the market according to the CC Mission
  - ⇒ “Enable Collaborative Product Development”
- Establish the new product “PDM-Broker” in the marketplace
  - ⇒ Flexibility (integration of PDM systems)
  - ⇒ Fast adaptability (following customer requirements)
  - ⇒ Integration of standard products
- Enhancements in direction of ASP with the goal to
  - ⇒ provide cost transparency for the customer
  - ⇒ enable the outsourcing of administration activities
  - ⇒ allow easy connection of big and middle class business



Connect the future

# Appendix

Who we are

Our working concept

Our services along the working concept

Why customers use PDM/ EDM?

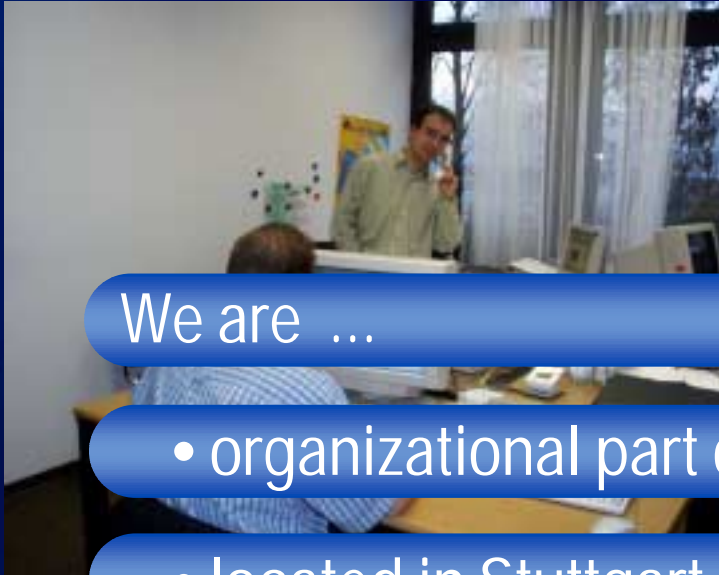
Typical project success factors!

Engineering Data and Document Management

CC EDM - Service Offering according to Applications

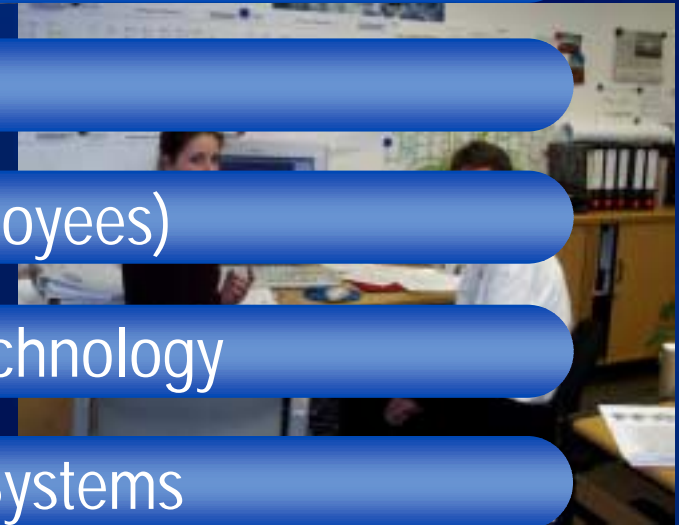
CC EDM as a strategic Partner with EDM/PDM-Projects

# Who we are

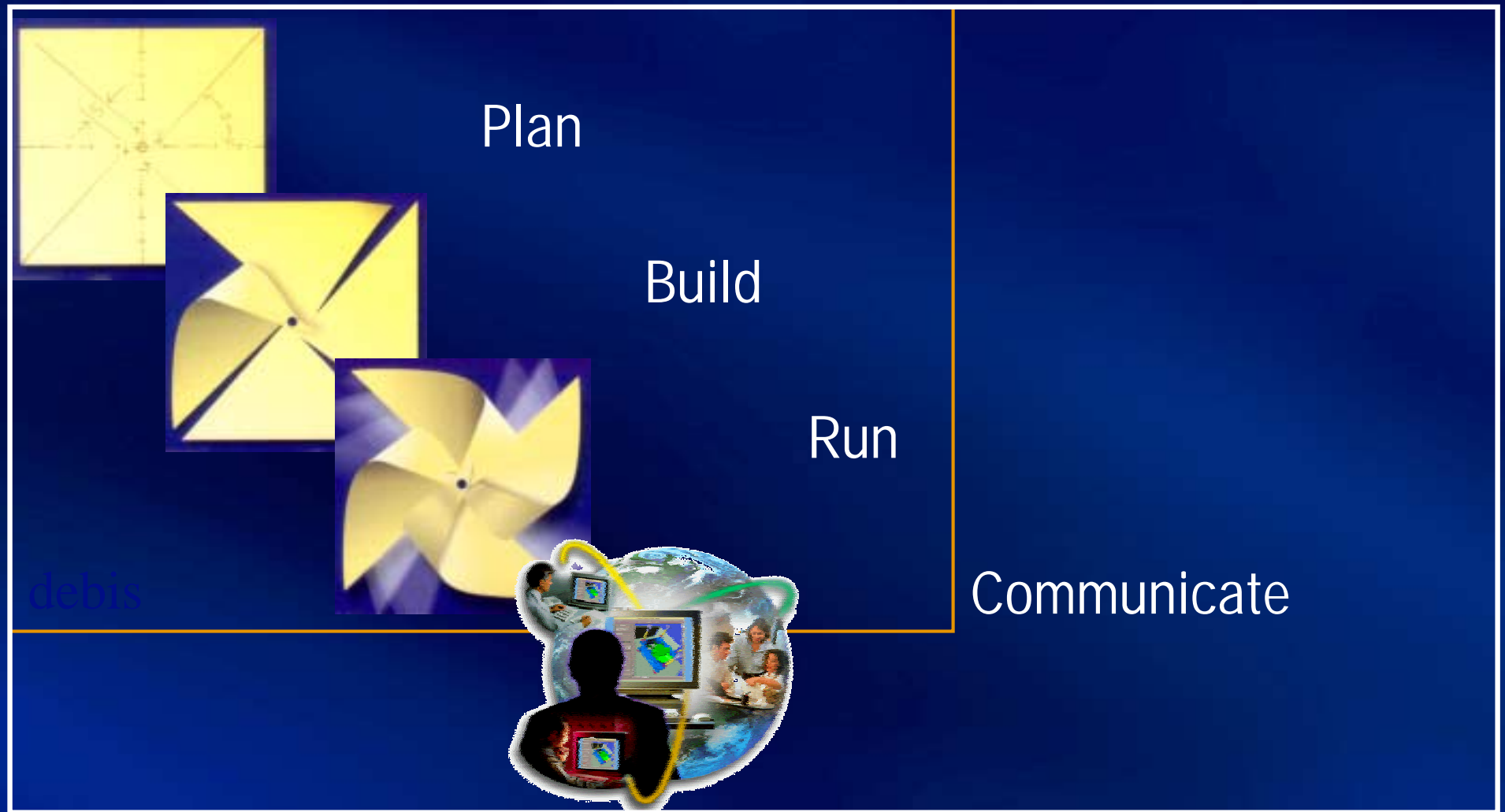


We are ...

- organizational part of Competence Center EDM
- located in Stuttgart (Germany)
- about 35 staff members (and 35 external employees)
- Professionals in state-of-the-art EDM/PDM - technology
- focused on the integration of CAD- and PDM-Systems



# Our working concept



# Our services along the working concept



Plan

Vendor independent consulting

Specification support

Consulting on following topics:

Selection of relevant EDM/PDM-Systems

Integration of CAD-EDM Systems, DMU - Tools

Data modeling ( e.g. according STEP )



# Our services along the working concept



Build

Implementation specification

Customizing PDM-Software (esp. Metaphase)

Realizing Software with following technologies:

C, C++, JAVA, CORBA, Websphere

Metaphase, Windchill

Xpress (STEP-Like data mapping)



# Our services along the working concept



Run

Maintenance of existing software

1st and 2nd Level Hotline

Training of new software systems

Coaching of customers at their locations

Creation of Online- Help

Application support



# Our services along the working concept



## Communicate

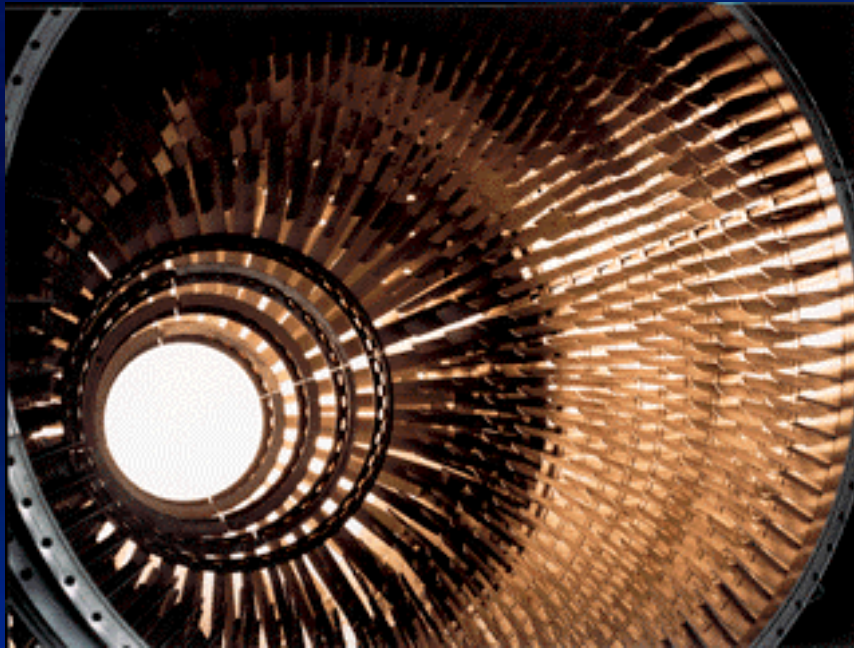
Currently not offered from our competence unit

Available at other T-Systems units



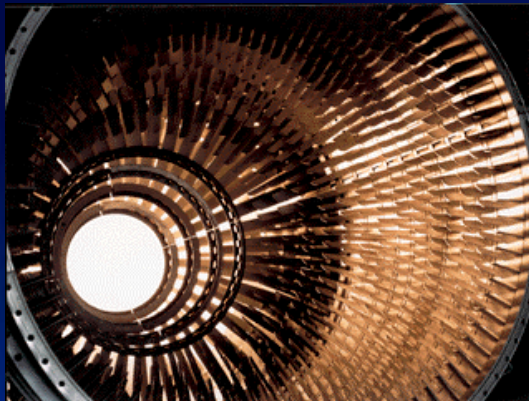


# Why Customers use PDM/EDM ?



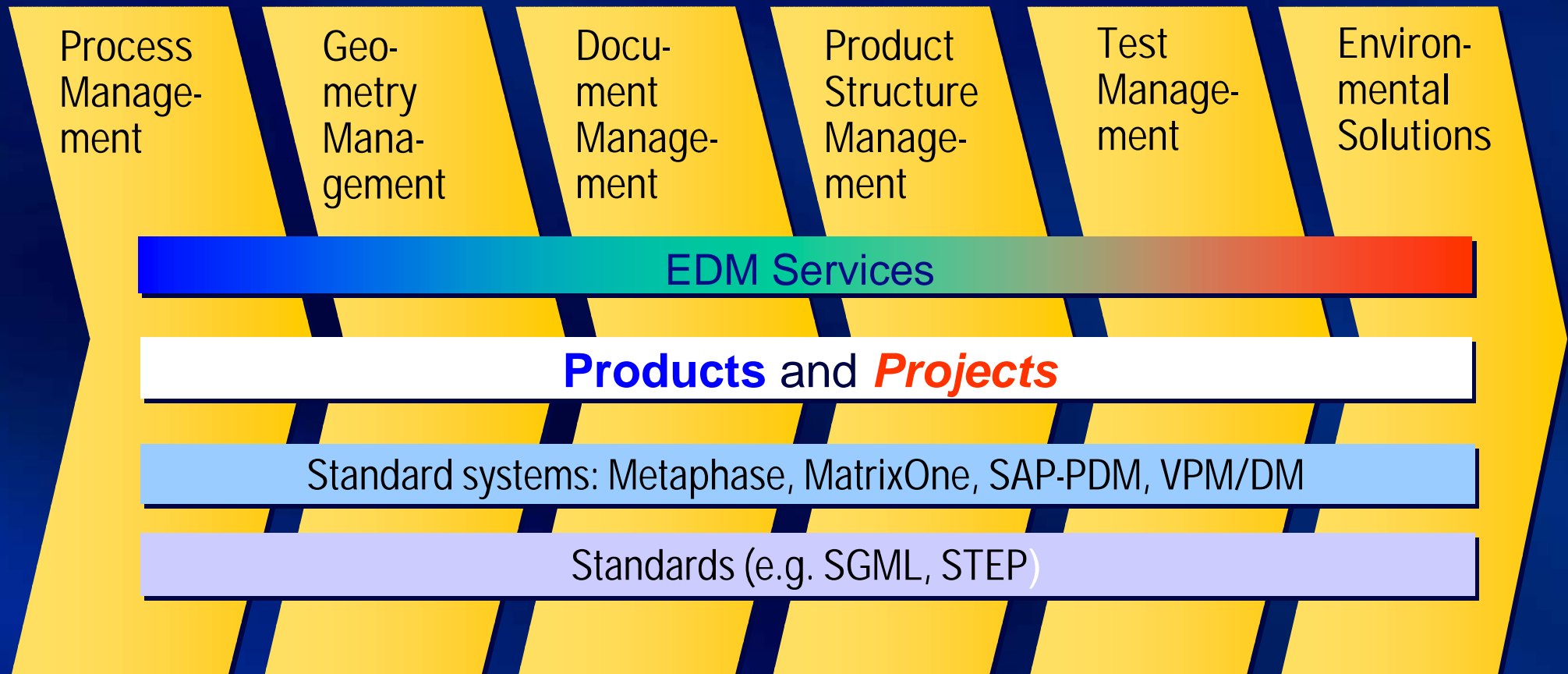
- Extend CAD data management
- Manage all kind of documents
- Integration of bill of material
- Realize digital mock up
- Connecting design groups

# Typical project success factors !



- High acceptance of the PDM-System
- Serious calculation of time and costs
- Professional project management necessary
  - ⇒ partners / debis Systemhaus
- Co-operation with specialists
  - ⇒ specification
  - ⇒ customization
  - ⇒ introduction
- Applications Management and User Help Desk

# Engineering Data and Document Management

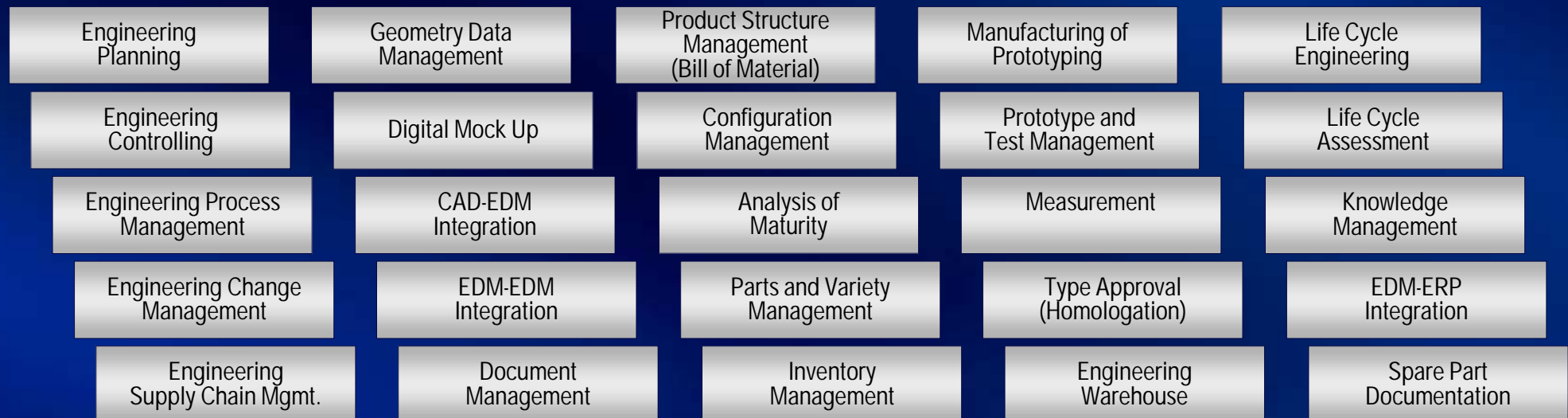


# CC EDM - Service Offering according to Applications



We offer IT-Solutions for:

Engineering Data Management, resp. Product Data Management



# CC EDM as a strategic Partner with EDM/PDM-Projects

- The customer's goals are the basis for all activities
- We take the entire responsibility for the plan-, build- and run-phase according to the customer's desire
- We support all national and international locations of the customer
- Specialists are available for the various applications (CAD-Interfaces, bill of material, Document-Management, DMU and others)
- We use our experiences made with EDM/PDM major projects (Plan/Build/Run)(Benchmarking)
- CC EDM is a neutral supplier and cooperates with the main EDM/PDM system suppliers
- Know-how in a wide scope of branches (Automotive, Aeronautics, Aviation, Engineering, Electrical Industry...)