

Presentation of Semcon and the REPID software tool

Semcon participants

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Integration developer

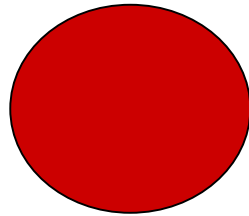
Presentation holder

Main points of presentation

- Semcon in short
- Contribution to the Repid project
- Background of software
- Solution
- Roles and tasks
- Benefits
- Interaction with design and production process
- Conclusion
- Future

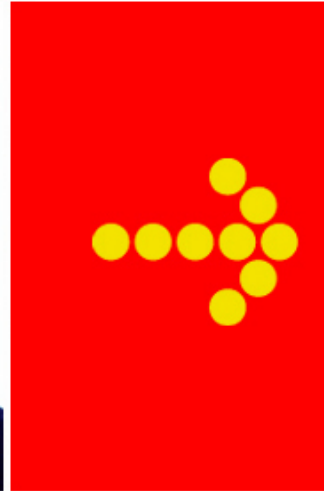
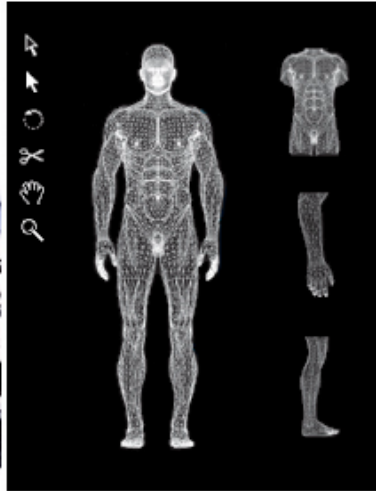
Presentation of Semcon

Presentation of Semcon



Mission:

As a close partner to industry we supply the human and technical skills to boost our customer's profits

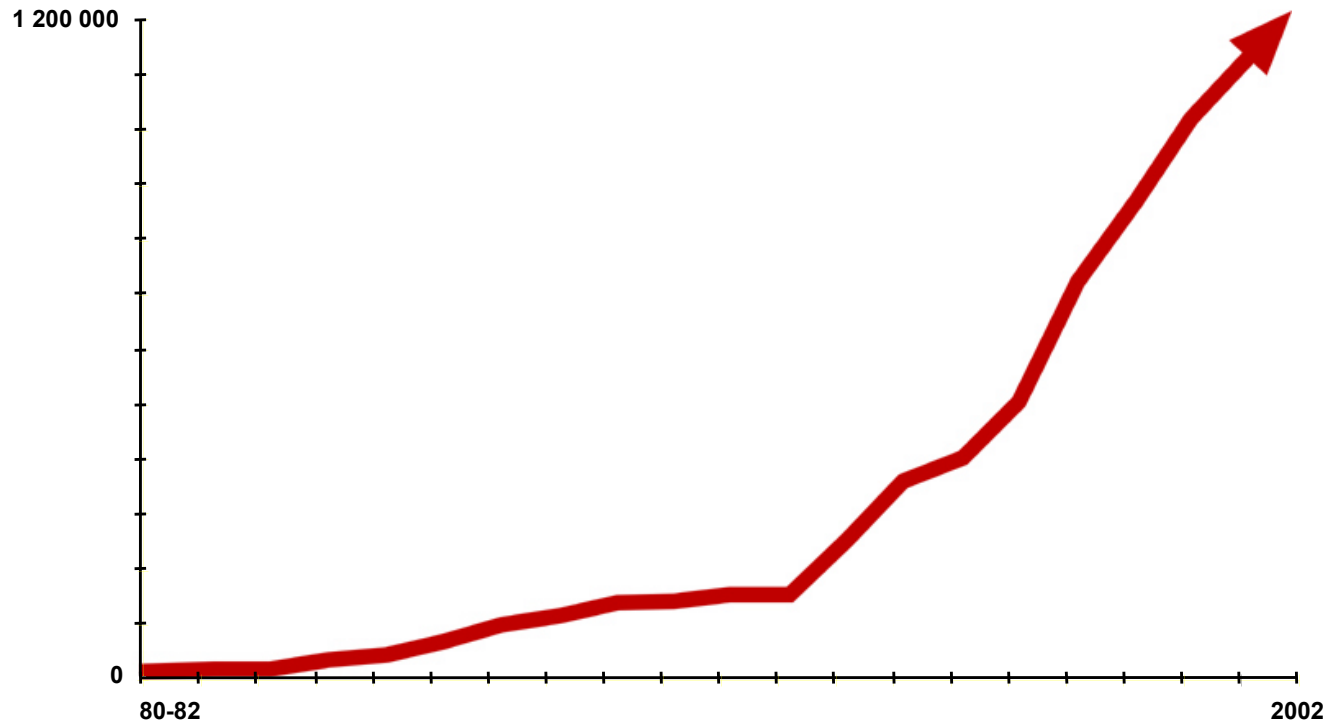


Semcon



- 1600 employees
- Founded in 1980
- Introduced at Stockholm stock exchange in 1997
- Growth with profitability
- ISO 9001
- ISO 14001
- PROPS

Stable growth



Semcon competences

Product development

Production development

Design

Management

Technical information

IT infrastructure

Product lifecycle
management



Reasons for the REPID project to choose Semcon as the software developer



SEMCON

Strong relationship with vehicle industry

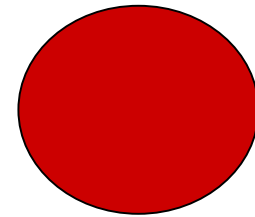
Environmental commitment

Diverse areas of knowledge

Strong CAD / PLM / PDM knowledge

SEMCON

The software tool
The software tool

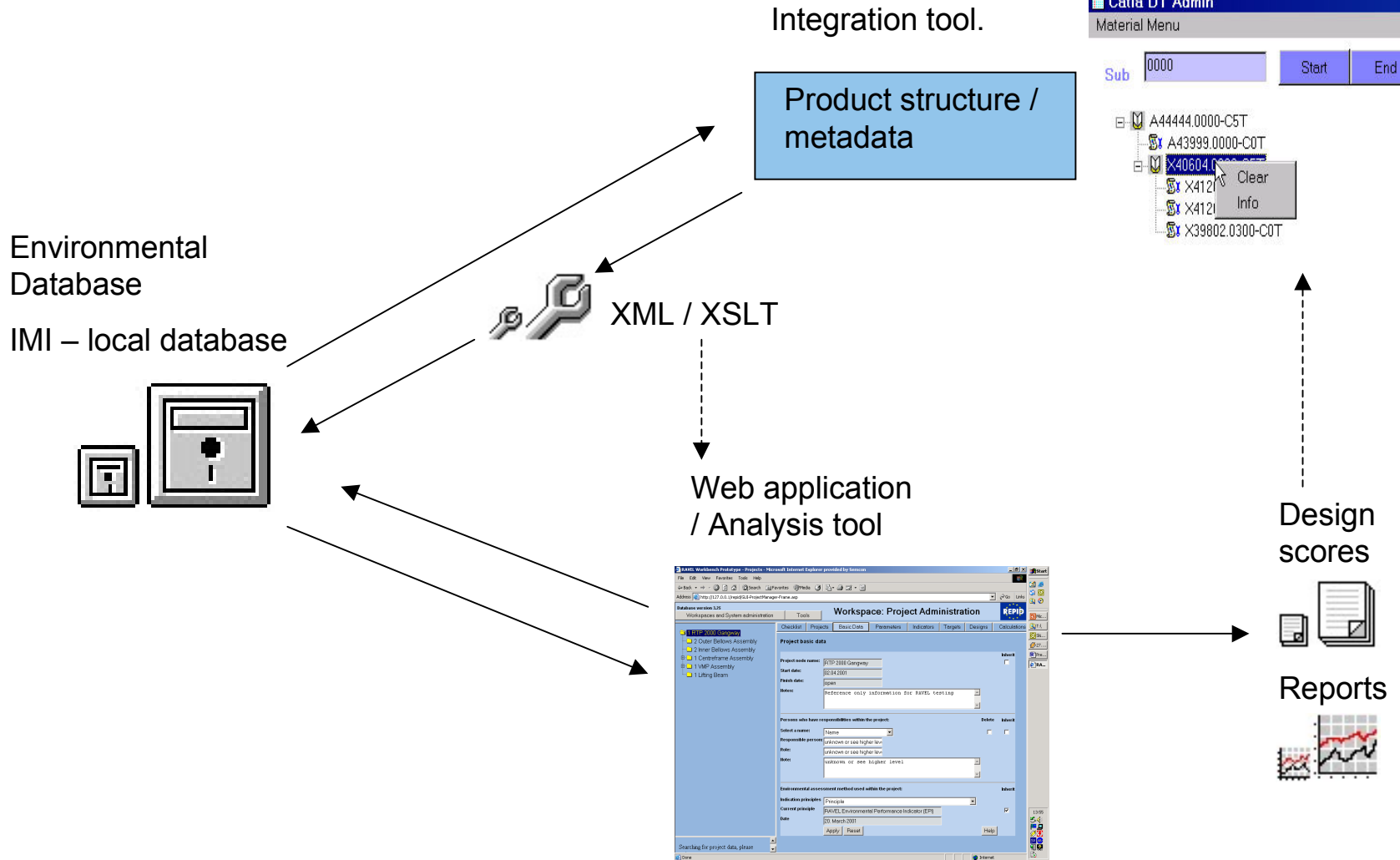


Repid software solution

- Web interface / Analysis tool
- Integration with product management
- Standardised data communication

The Repid software solution

Catia integration in the REPID project

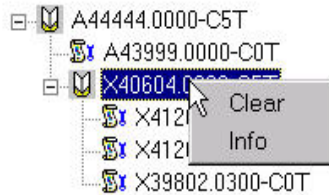
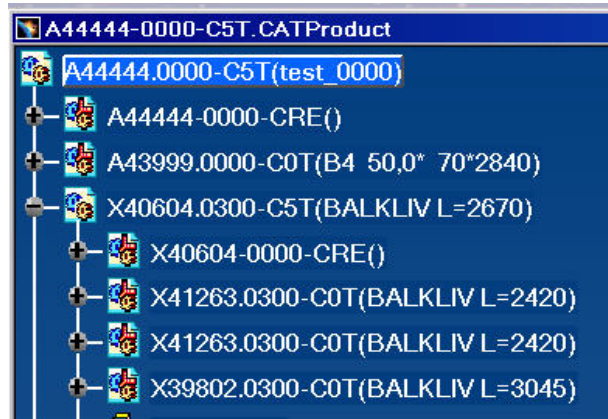


The REPID solution – Web Application

Functions in Web application:

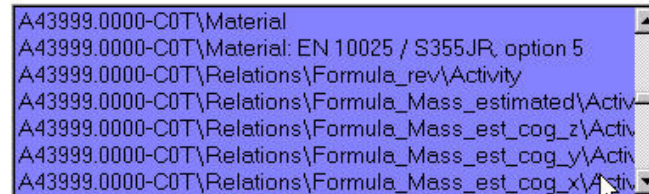
- Create project structures
- Select indicators for the project
- Set target values for the indicators
- Create product structures
- Select material and set properties
- Link products to projects
- Analyse different designs
- View / export results

The REPID solution – Catia integration



Integrate with product design and management:

- Translation of material list between standardised and customer specific
- Export product structure from Catia V5 to database
- Export metadata
- Get feedback from analysis



Semcon It Solutions v

The REPID solution – Web Application

User friendliness through:

- Few steps
- Simple input
- Intuitivity
- Clear flow

Data communication

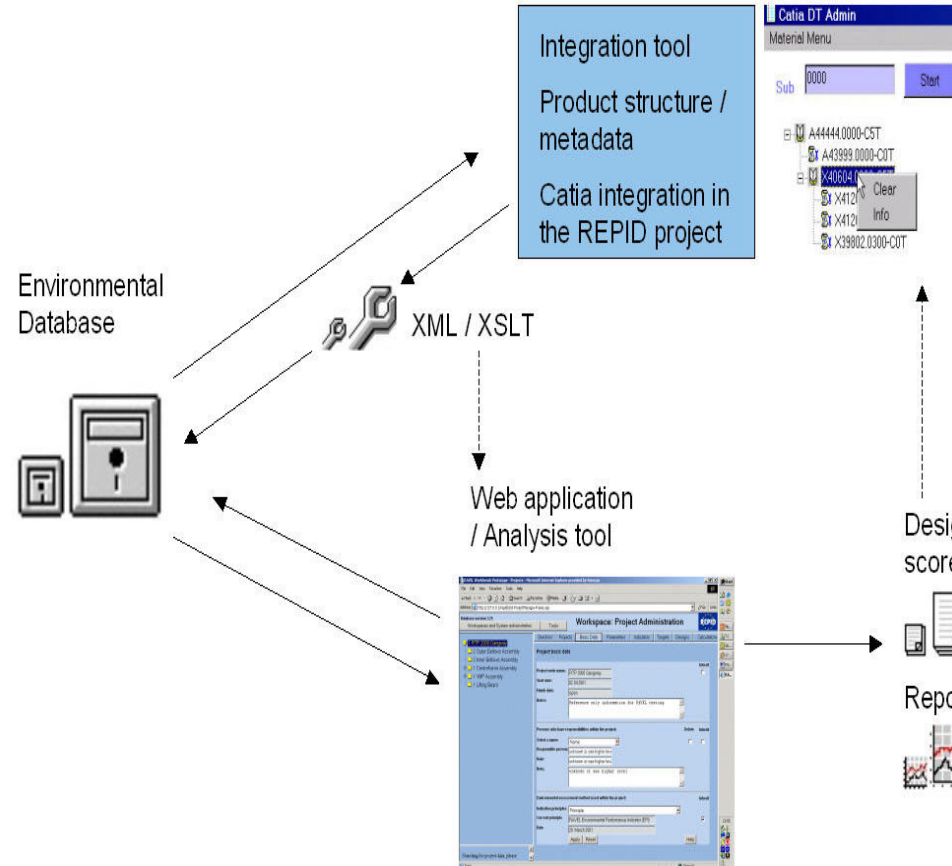
The communication format is XML with specifically structured schemas

The integration tool pulls sets of data from the end user program and formats it

The integration tool moves the data to the database

The analysis tool uses the database to calculate results

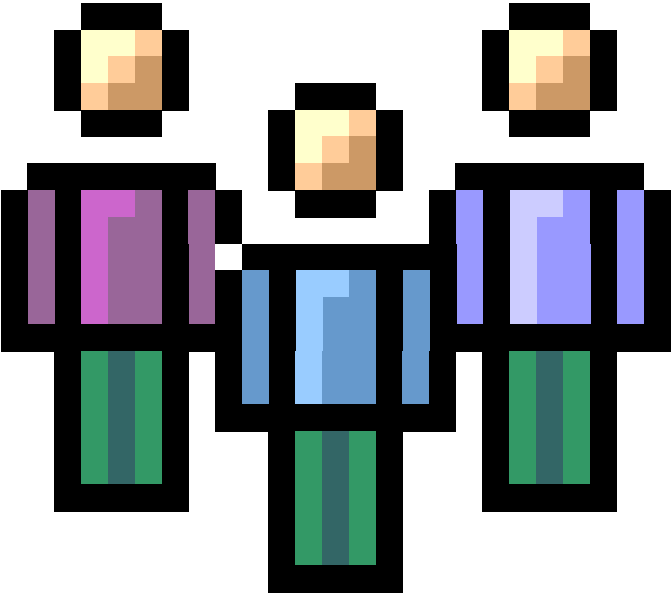
The web application generates results / reports



Identified user roles

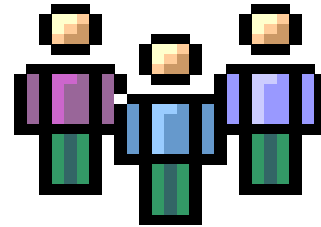
Designers

Decision-makers



Environmental
Coordinators

Tasks for designers



Export the product structure and metadata to the analysis tool

Use a list of material based on the standardised material list

Perform analysis and view analysis results

Tasks for environmental coordinators

Select indicators

Set target levels

Build product structure

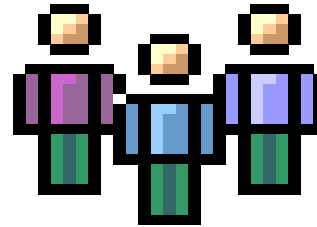
Import product structure

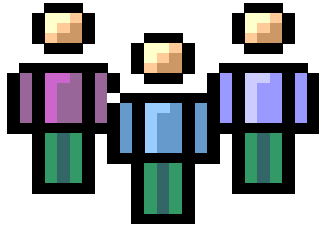
Perform analysis:

- Measure performance

- to target

- without reference to target





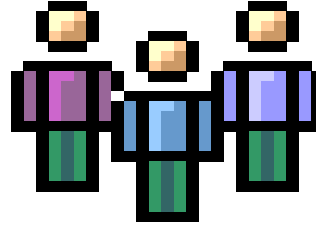
Tasks for decision-makers

Analyse results

Make project decisions

Communicate reports and data

Benefits for all



Enables the integration of the eco-efficiency in the daily work

Easy-to-use tool for generating predefined reports

Project decisions are based on well-structured and similar/comparable information/reports

Decisions are taken intellectually, by access to structured and interpretable information

Useful for manufacturers, suppliers and operators

Product Design

Create product structure manually or import from Catia V5. The different designs can be compared in terms of design scores

Easy distribution of results

The metadata used for calculations, and the results are easily distributed to interested parties. This will benefit several roles in the supply chain, such as **manufacturers, suppliers, sub-suppliers and operators.**

Also, the analysis tool and the results can be used in various stages of a products life-cycle. These include **design, production and maintenance stages.**

Conclusions

Tool functionality

- Create projects
- Create products manually or import from Catia
- Choose indicators to use in calculation
- Set targets
- Calculate
- Generate reports

Useful for

- Designers
- Environmental coordinators
- Project managers
- Procurement
- Sub-suppliers

User requirements

- Use standardised material list
- Make metadata available to be used in analysis
- Use of common language
- Training



The future
The future

Tomorrow..

Release of test version in June 2003 leads to:

Testing of the tool by network participants

Discussion of implementing in diverse systems

Reaching out to other sectors