

Opus Suite
Conference

STOCKHOLM

Let's talk data!

From data to information

by Systecon
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Data Challenges During the Life Cycle

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Who am I?

Anders Carlsson, CEO Systecon Konsult

- 13 years at Systecon
- + 20 years experience from ILS and data management
- Experience from...
 - ...government operations,
 - ...all life cycle phases,
 - ...small and large projects,
 - ...defence, rail, and power industry.



What is data?

Chat GTP: *"Data refers to distinct pieces of information, usually formatted in a special way for analysis or processing."*

Structure vs Unstructured

- **Structured:** Tables, Databases, Spreadsheets
- **Unstructured:** Plans, Text files, Images, Videos
- **Semi-Structured:** XML-files, JSON-files

Static vs Dynamic

- **Static:** Product IDs, Printed matter
- **Dynamic:** Spare parts prices
- **Semi-static:** Product and system designs

Why is data needed?

- Data provides the foundation for making informed decisions.
- Data helps defining and describing the system.
- Data enables the evaluation of the performance of the system.
- Data is used to ensure compliance by applicable laws and design constraints.

Chat GTP: *"Data is the foundation of all information, knowledge, and ultimately decision-making in various fields."*

Data and information

Data

- Raw facts, figures, symbols, or observations.
- May, or may not, have any inherent meaning or context.

Information

- Processed, structured, and meaningful.
- Derived from data through analysis, interpretation, and organization.

Data is the raw material, while information is the meaningful interpretation or processing of that data.

Data During the Life Cycle

How long is a System Life Cycle?

- System lifetime often exceeds 50 years.
- Upgrades and lifetime extensions.
- EOL for components and products used.
- Product lifetime for software often very short!

The System Life Cycle is very long!



Data in large projects

- All large projects are integration projects.
- Main task to ensure data quality and data integrity.
- Data mapping.
- Change management.



Data Challenges During the Life Cycle

- Data is essential for decision making.
- Data collection and processing, data management, is a key in every large project.
- The Life Cycle of the System is typically longer than that of the products within the System. Software products usually has a very short Life Cycle.
- We need to be in control of our data and the quality of our data.

Thank you.

