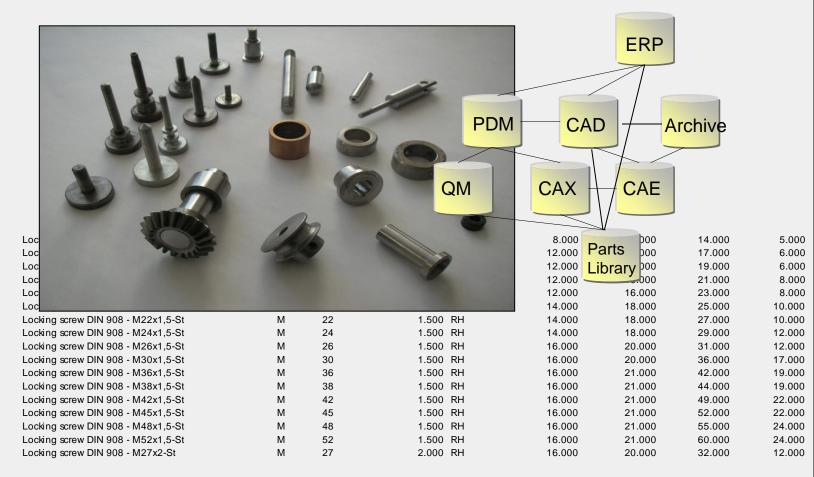
Integrated Master Data Management

Albrecht Lederer DO-TEC*team*





- 1. DO-TEC*team* and CADENAS co-operate
- 2. Role, function and effect of master data in the enterprise
- 3. Quality is decisive for secure and economic processes
- 4. Economic benefit
- 5. Summary

DO-TECteam

DO-TEC*team* and CADENAS co-operate in the area of standardization and classification.

The offered services are:

- Classification and characteristics systems
- Creation of number systems
- Standardization

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- Master data clean-up and supplementation
- Process and Change Management
- Product and Process documentation

DO-TEC*team* is instrumental in the development and standardization. DIN, VDMA, VDI, eCI@ss

CADENAS is a full member of eCI@ss e.V. and member of the eCI@ss Working Group CAx Applications



VDI









DO-TECteam



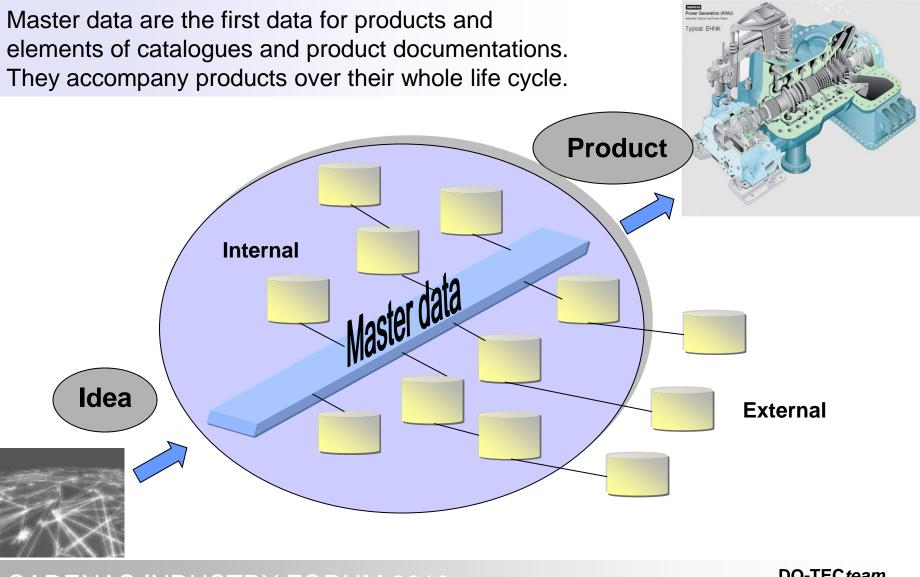
Albrecht Lederer

Short personal profile: Albrecht Lederer

- Independent consultant for the specialist areas Standardization, Documentation and Technical Organization.
- Managing Director of DO-TEC*team* Expert Co-operation.
- Active in the field of standardization since 1969.
- Chairman of the Standards Committee NSM
- Member of various standards committees
- Lecturer for Documentation and Standardization Expert Training with DIN.
- Author and co-author of several books and publications in his specialist area.

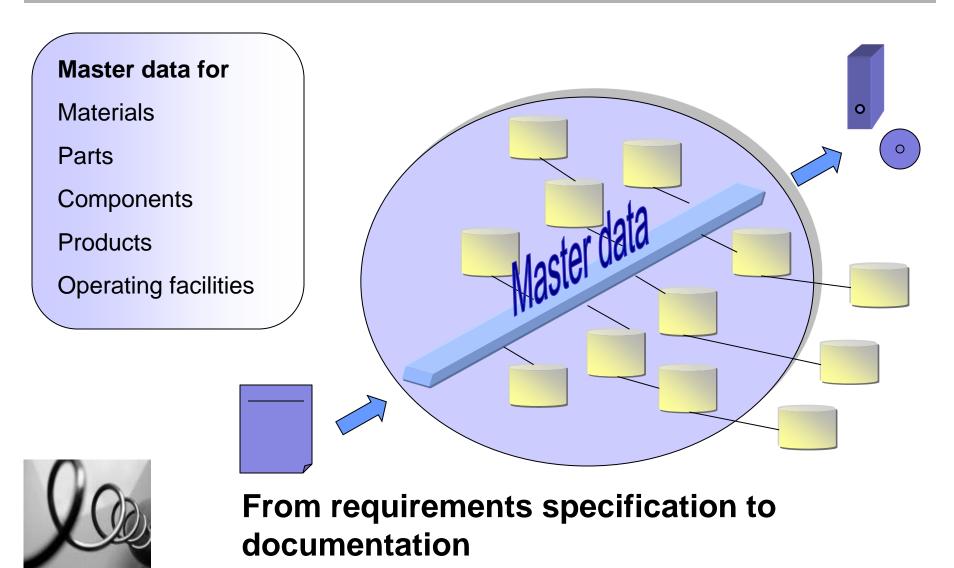
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Master data in the life cycle of products



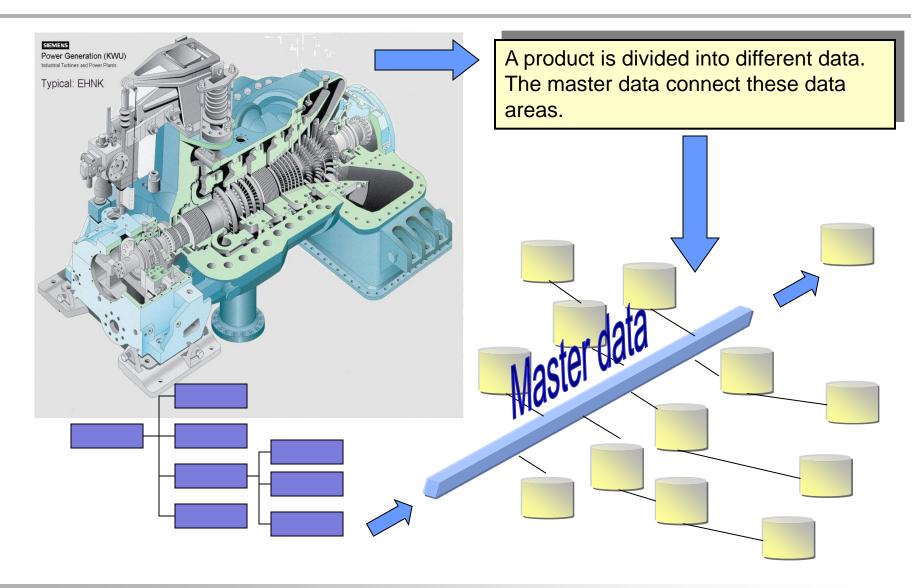
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Master data for all objects in the enterprise



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Just as products and operating facilities, master data are subdivided



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Example:

Designation of a screw for the unambiguous assessment by a person

Hexagon screw ISO 4014-M12x90-8.8

The automated processing requires a division into individual characteristics.

Name:	Hexagon screw				
Standard number:	ISO 4014				
Thread type:	Μ				
Thread size:	12				
Screw length:	90				
Property class:	8.8				

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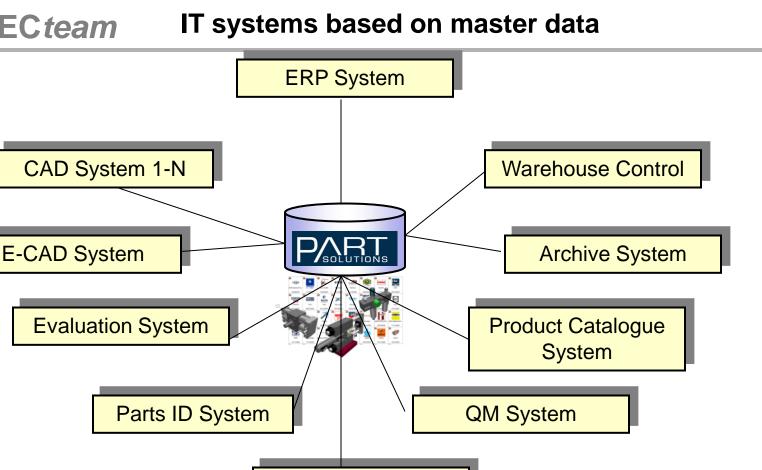


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The individual characteristics are contained in the PARTsolutions Software of CADENAS and can be used directly for the master data management.

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the 9014580 1 9014580	58	M12x80			12.000	9.853	1.750	80.000	30.000	18.000	0.6
	V 59	M12x80	9002272	10.9	12.000	9.853	1.750	80.000	30.000	18.000	0.6
	V 60	M12x80	9003620	10.9	12.000	9.853	1.750	80.000	30.000	18.000	0.6
	8 61	M12x90			12.000	9.853	1.750	90.000	30.000	18.000	0.6
	V 62	M12x90	9014580	8.8	12.000	9.853	1.750	90.000	30.000	18.000	0.6
	<mark>8</mark> 63	M12x100			12.000	9.853	1.750	100.000	30.000	18.000	0.6
	V 64	M12x100	9003670	10.9	12.000	9.853	1.750	100.000	30.000	18.000	0.6
		M12x100	9014600	8.8	12.000	9.853	1.750	100.000	30.000	18.000	0.6
		M12x110			12.000	9.853	1.750	110.000	30.000	18.000	0.6
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IT systems based on master data **DO-TEC**team



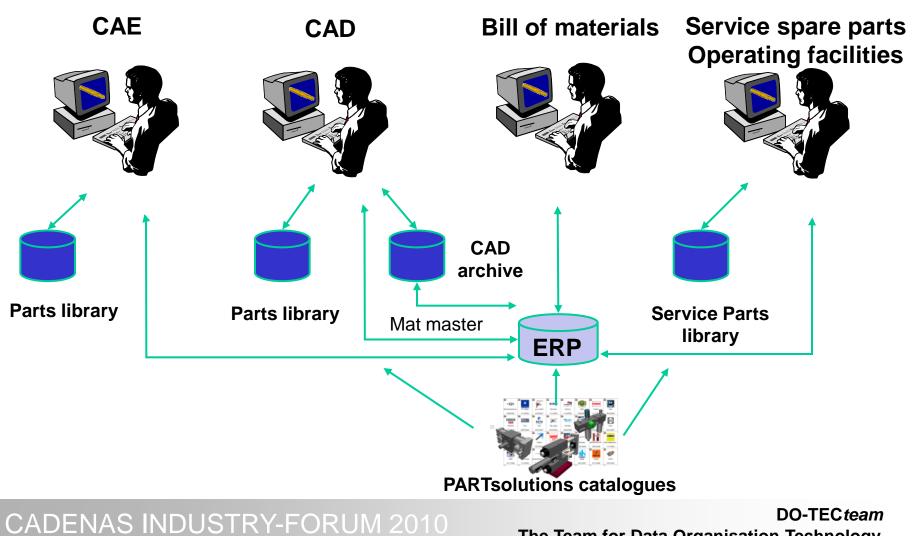
It is inadvisable to create and administer different master data in the individual systems. The PARTsolutions Software of CADENAS can be used for catalogue parts as a Master Data Base for the creation and update of master data!

PLM/ PDM System

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Example:



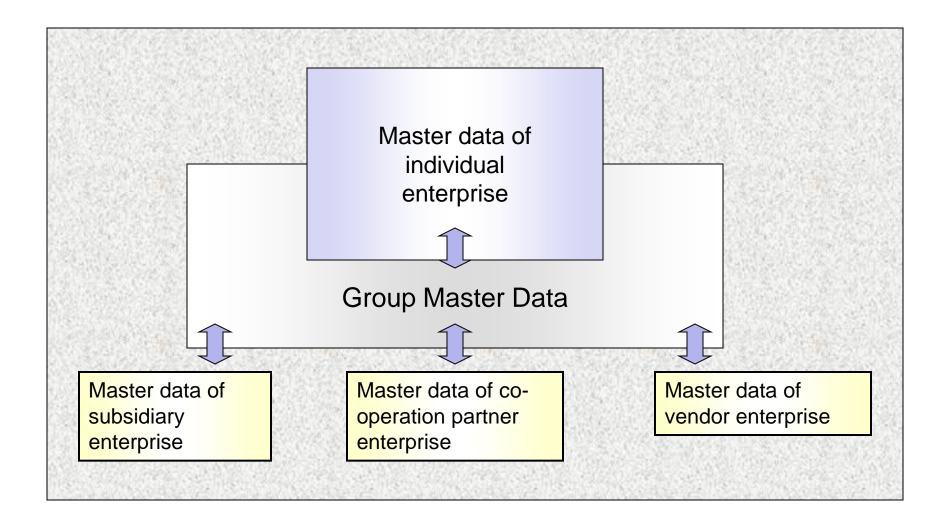
The Team for Data Organisation Technology

Ordered master data are the prerequisite for effective processes and cost-reducing IT use



Standardized master data with characteristics that are accessible to everybody form the basis of consistent process data

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The multiple creation of master data

- in different IT systems
- in different processes
- for different applications
- in different enterprise departments

is costing enterprises significant amounts of money.

Multiple errors occur, and the quality suffers.

Therefore, one master record should be created only once, but must be created and maintained with special diligence.

Often master data are in bad condition and do not meet the requirements of today's processing and applications of the IT systems in use.

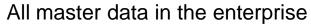
This radically reduces the capabilities of the expensive IT systems.

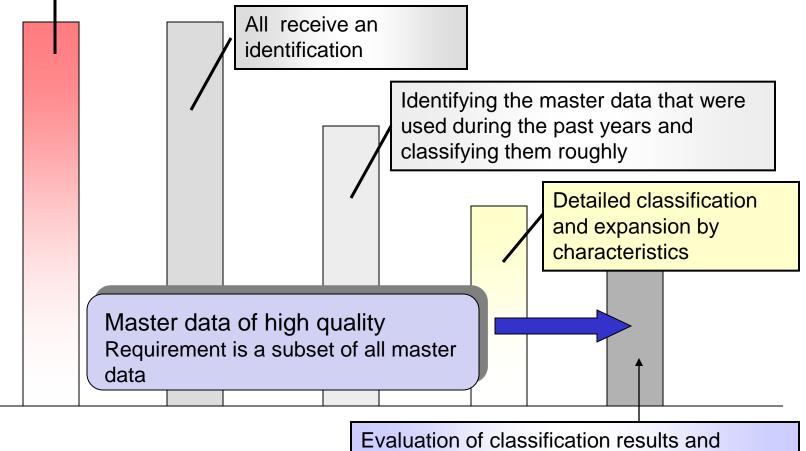
For this reason, far in excess of 60 % of IT projects do not achieve the set targets.

How must master data be evaluated for this and which?

- the existing master data (legacy data)
- the new master data to be created
- the permanent maintenance of the master data

Must all master data be cleaned up and expanded?

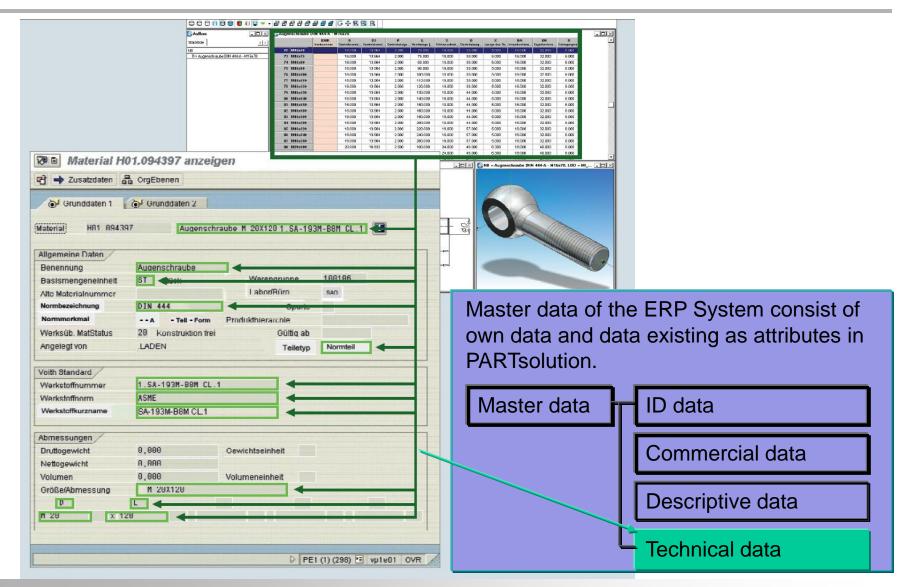




reduction of master data

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Expanding master data for standard and purchased parts.



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The steady increase of data and data types results in growing demands for the adoption of existing data.

These demands can be met by :

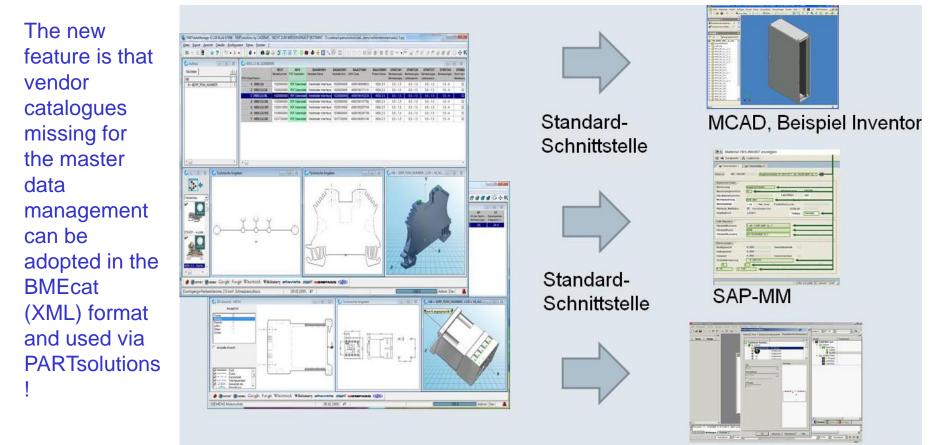
- adoption of vendor catalogue data
- adoption of CAD data
- use of parts libraries

The data interchange requires uniform standards.

The development of standards has made great advances nationally and internationally.



The PARTsolutions Software offers standard interfaces to all current CAD systems and among others to the ERP System SAP.



ECAD/CAx, Beispiel E³

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The clean-up, expansion, harmonization and reduction of existing master data require an orderly organization for the creation and maintenance of master data even during their implementation.

This task requires a master data management with the following functions.

- Checking, supplementing and releasing the creation of new master data
- Accompanying and releasing of change processes
- Managing the meta data for classes and characteristics
- Managing the terminology data
- Identifying and implementing new requirements for the master data

Master data are one of the underestimated cost reducers.

The bigger the part of the IT systems, the greater the importance of the master data.

Without master data organization, unnecessary and duplicated master data increase with all their consequences through the creation of additional data and documents.

Costs of this process EUR 1,000.00 to 3,000.00.

Just 100 unnecessary master data result in EUR 100,000.00 to 300,000.00

Enterprises with 60,000 to 100,000 master data were able to achieve reductions of 10-16 %. In case of creation of new data, more than 20% were possible.

Procurement enjoys special benefits in this. Bundling of orders, reduction of vendors.

Today special significance is given to legal certainty. Incorrect data lead to incorrect decisions, which can become very expensive.

5. Summary

• Master data have great importance and must be created and maintained with due diligence.

• Use reliable data to enter the master data

• The creation of master data in different systems (processes) is very costly for enterprises. The same applies to the duplicate creation of a master record for one and the same object.

- Master data should be accessible for all IT systems at all times.
- Use existing data from catalogues, vendor data, CAD data and parts libraries (PARTsolutions).

DO-TECteam



Thank you for your time



Your business success can be facilitated by good master data.

Interested? Your contacts:

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