

Integrated Asset Lifecycle Management IT & Business orientated

at Morgan Sindall Professional Services



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About Morgan Sindall

Your complete engineering partner.

About Morgan Sindall

MORGAN SINDALL GROUP

HQ London UK

+ 6.400 Employees

+ 2.7 £m Turnover

PROFESSIONAL SERVICES

MORGAN SINDALL

CONSTRUCTION & INFRASTRUCTURE

CONSTRUCTION INFRASTRUCTURE

FIT OUT

Morgan Lovell
Inspiring office transformation

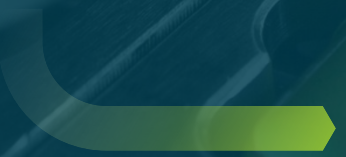
URBAN RE-GENERATION

AFFORDABLE HOUSING

PROPERTY SERVICES

INVESTMENT

INVESTMENTS



MORGAN SINDALL
D-A-CH

HQ Basel Switzerland

+350 Employees

57 CHFm Turnover

7 Locations

Morgan Sindall D-A-CH internally – Technical Departments



HSE & Construction Management

- Health, Safety & Environment
- Construction Management



ChemTech

- Process Planning
- Process Facilities Management



Compliance

- Quality Management
- Authority Matters
- Compliance & Qualification



PharmaTech

- Galenics Processes
- Packaging Processes
- Manufacture Management



Utilities

- Supply of clean & purified media
- Exhaust air & sewage cleaning
- Energy systems



Project Management & Eng. Systems

- Project Management
- Quality Management
- Knowledge Management



Laboratories

- Laboratories
- Process Management
- Intelligent Environments



BioTech

- Design, construction, automation of biotechnological production facilities



HVAC & Sanitary

- Heating, ventilation & air conditioning systems
- Sanitary solutions



Plant Design & Digital Solutions

- 2D/3D Design & Virtual Reality
- 3D Laser Scanning
- Mechanical & Piping



Asset Lifecycle Management

- Design Review for maintainability
- Early spare part management
- Development of Maintenance Plan



Electrical, Instrumentation & Controls

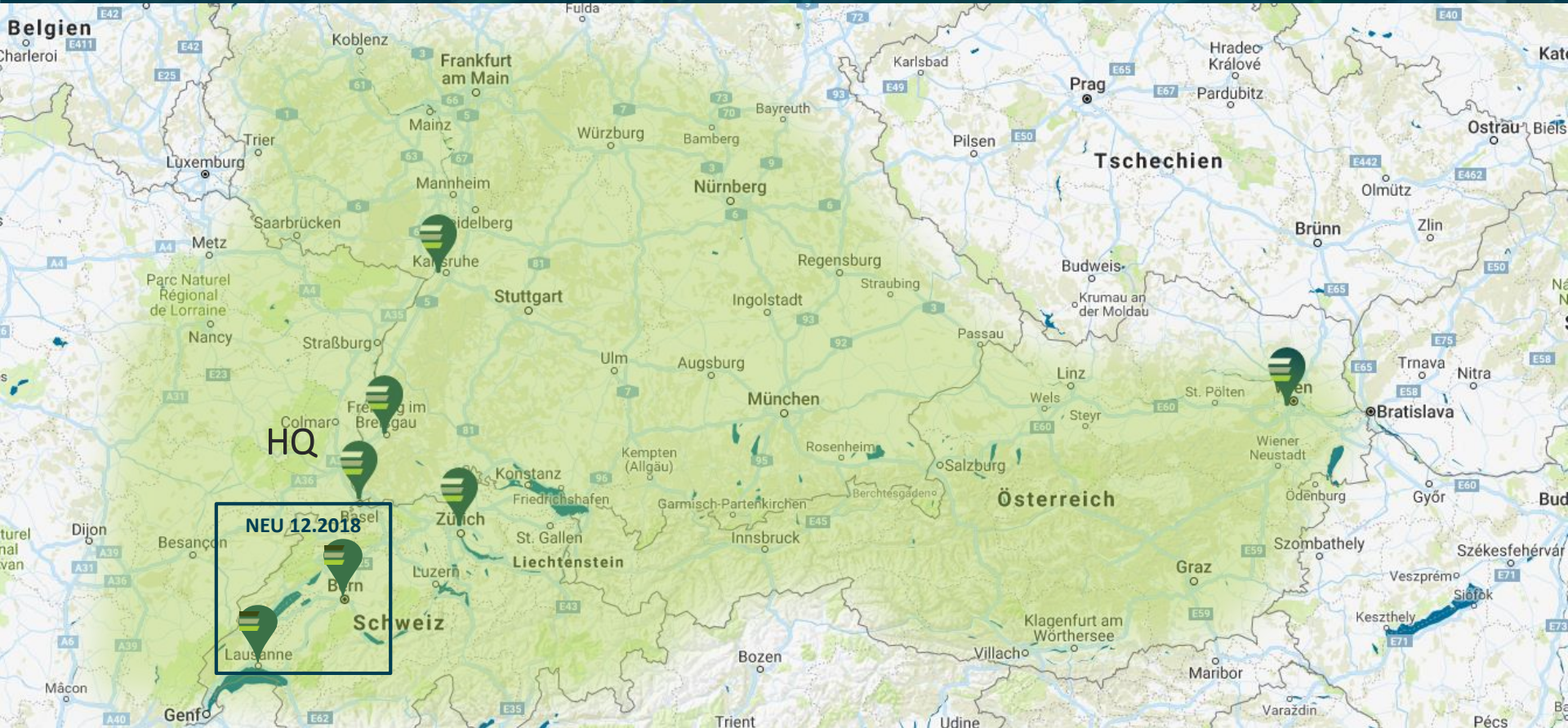
- Electrical engineering
- Instrumentation/ Electrical drawings
- Automation (controls)



Supply Chain Management

- Tailor-made procurement solutions

Morgan Sindall D-A-CH Locations



Morgan Sindall D-A-CH History



1998

AMEC DPS Ltd.
creation in Basel,
Switzerland

2007

Morgan Sindall
acquires
AMEC DPS Ltd.

2010

Re-naming: Morgan
Sindall Professional
Services Ltd. (MSPS)

2015

MSPS Ltd. changes
to MSPS AG

2016

MSPS GmbH
creation in Freiburg,
Germany

2017

New Offices:
Zurich, Switzerland
Vienna, Austria

2018

New Offices:
Karlsruhe, Germany
Bern, Switzerland

Partnership with
Siemens 

3

40

180

270

364

FTE Development 1998 -2018

Partnership with Siemens

SIEMENS



**MORGAN
SINDALL**

Partnership with Siemens



Services



Partner



Projekte

Asset Life Cycle Management

Your complete engineering partner.

FRAGE 1:

Wo liegt der Fokus in Ihrem Unternehmen beim Neuanschaffung von Anlagen?

- 1: Anschaffungskosten
- 2: Betriebskosten
- 3: Anschaffungskosten und die Betriebskosten



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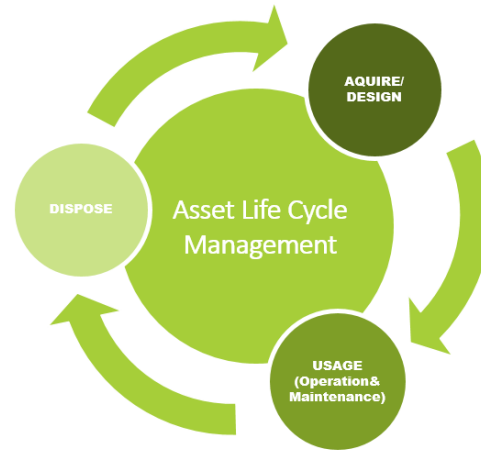
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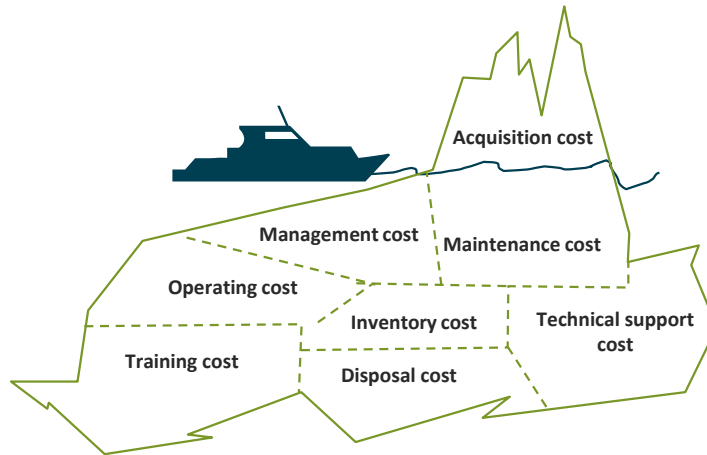
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Management of Assets (Equipment) during all Life Cycle Phase - beginning at design, continuing through operation, maintenance and disposal

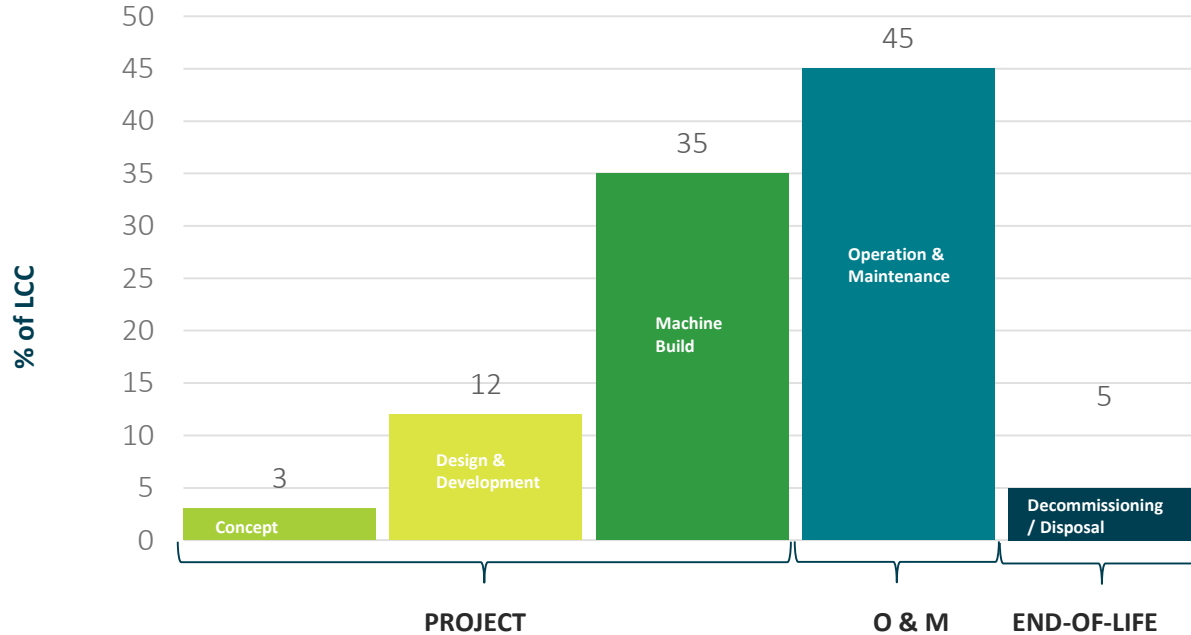


Management of Assets (Equipment) during all Life Cycle Phase - beginning at design, continuing through operation, maintenance and disposal to achieve optimal benefit of your invested assets.



Asset Life Cycle Costs

Typical Cost of Distribution of Life Cycle Costs

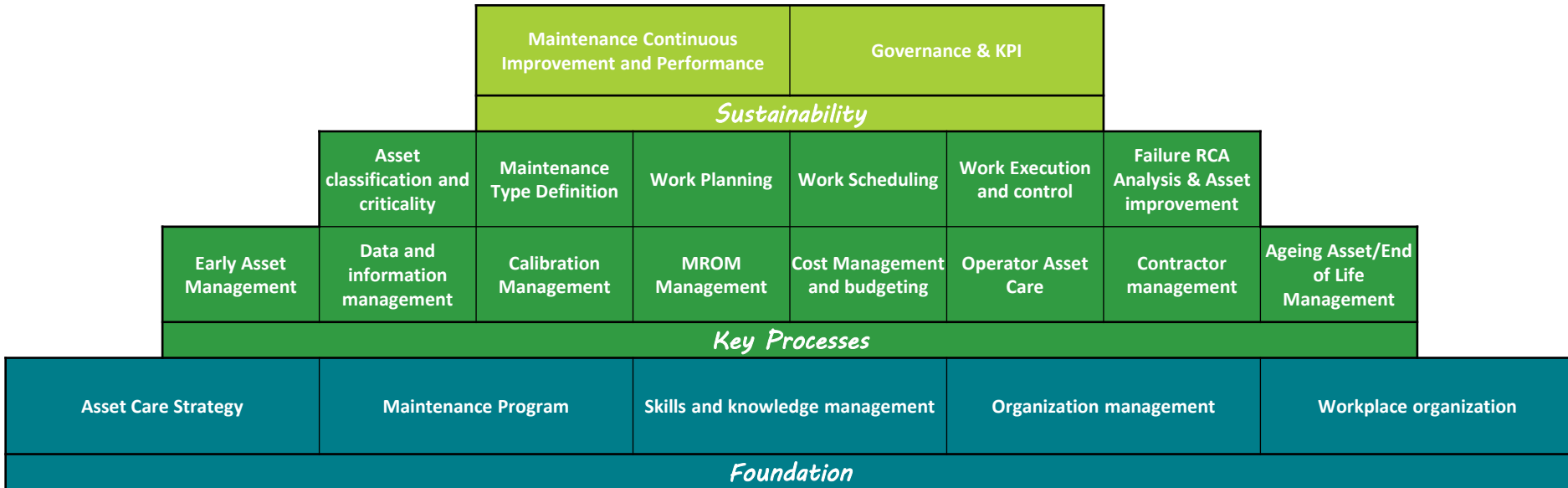




ALCM – Mission Statement

“We support our customers to manage their facilities and assets and deliver operational savings in their work processes, from installation to decommissioning”

Overview about ALCM Elements



FRAGE 2:

Wie nehmen Sie den Aufwand für den Transfer von Projektdaten zu Life Cycle Daten wahr ?

- 1: hoch für Projekt und Betreiber
- 2: hoch für Projekt
- 3: hoch für Betreiber
- 4: gering für Projekt und Betreiber



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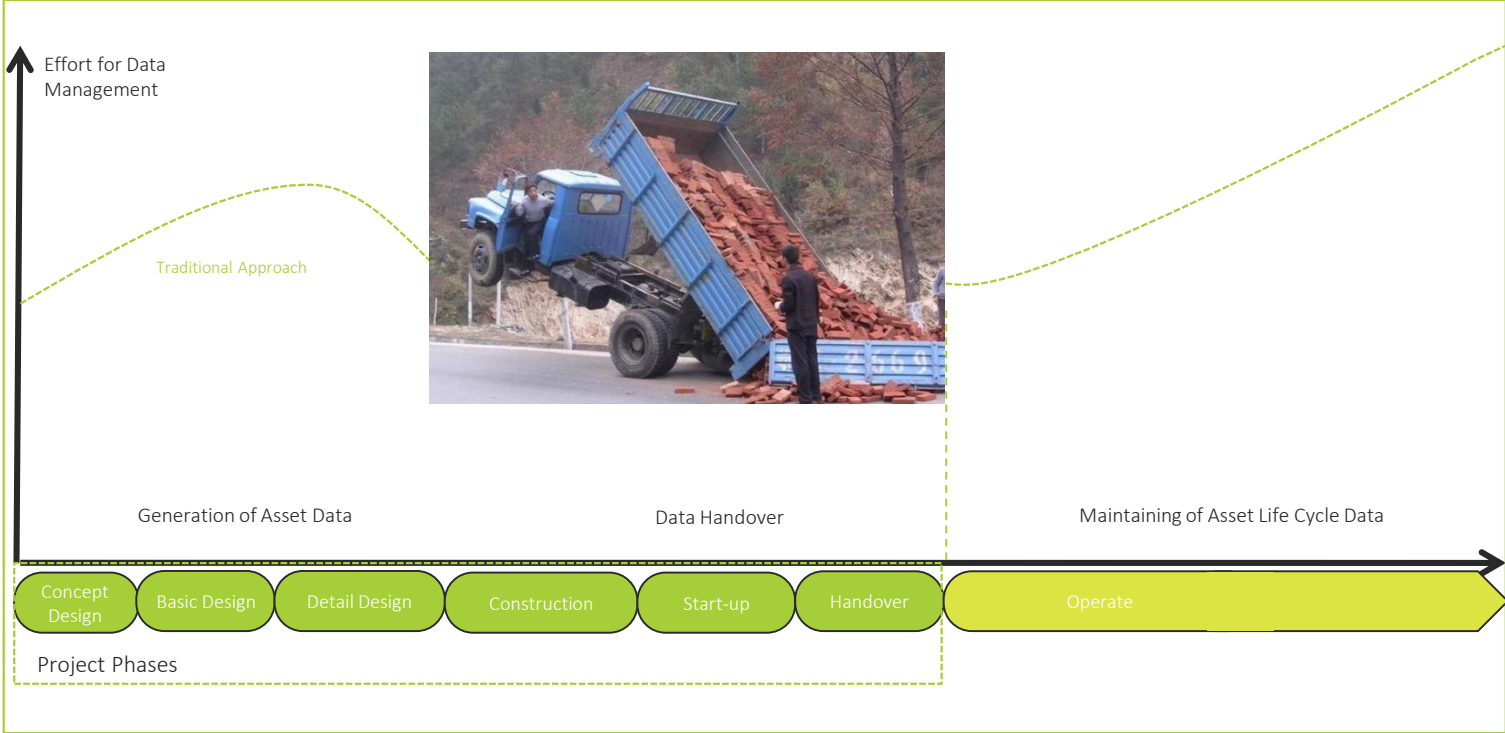
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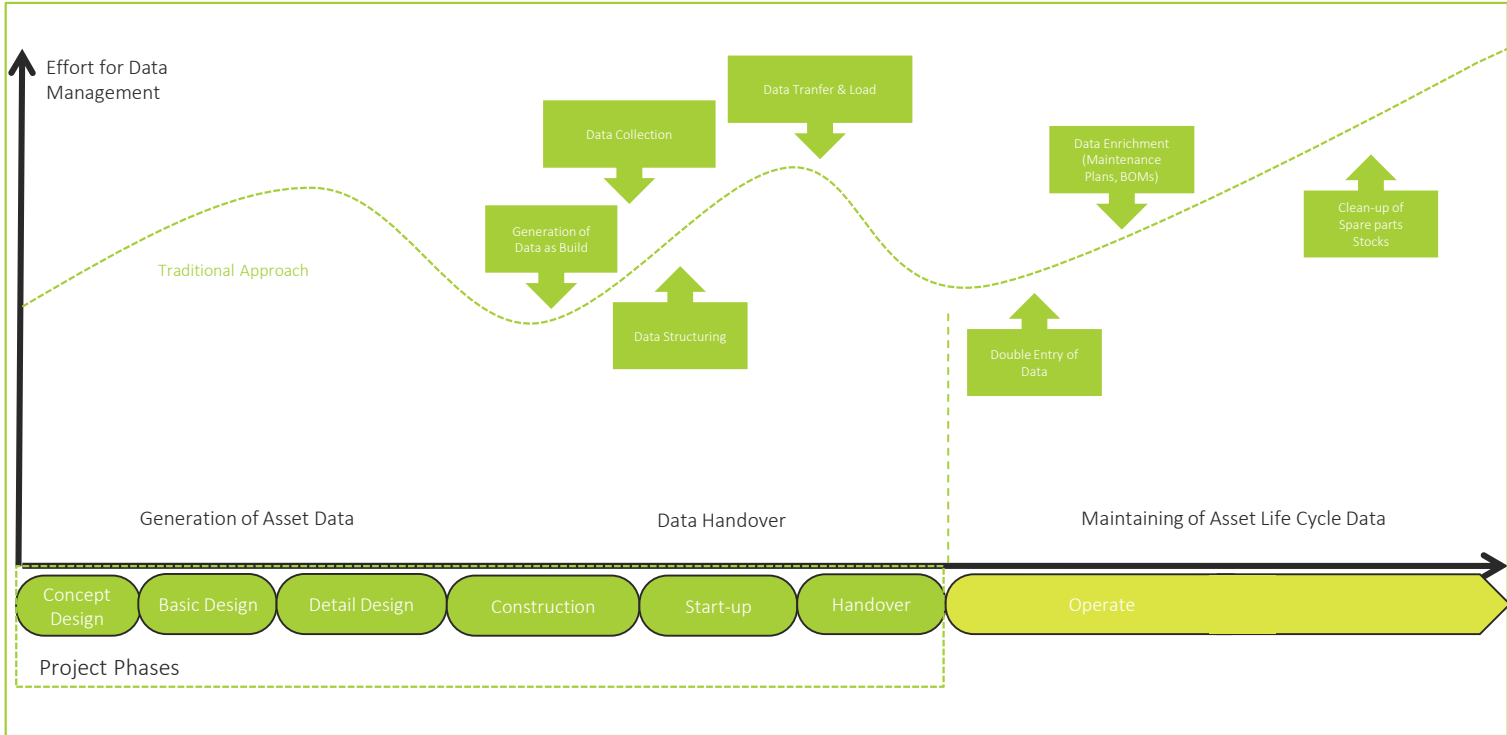
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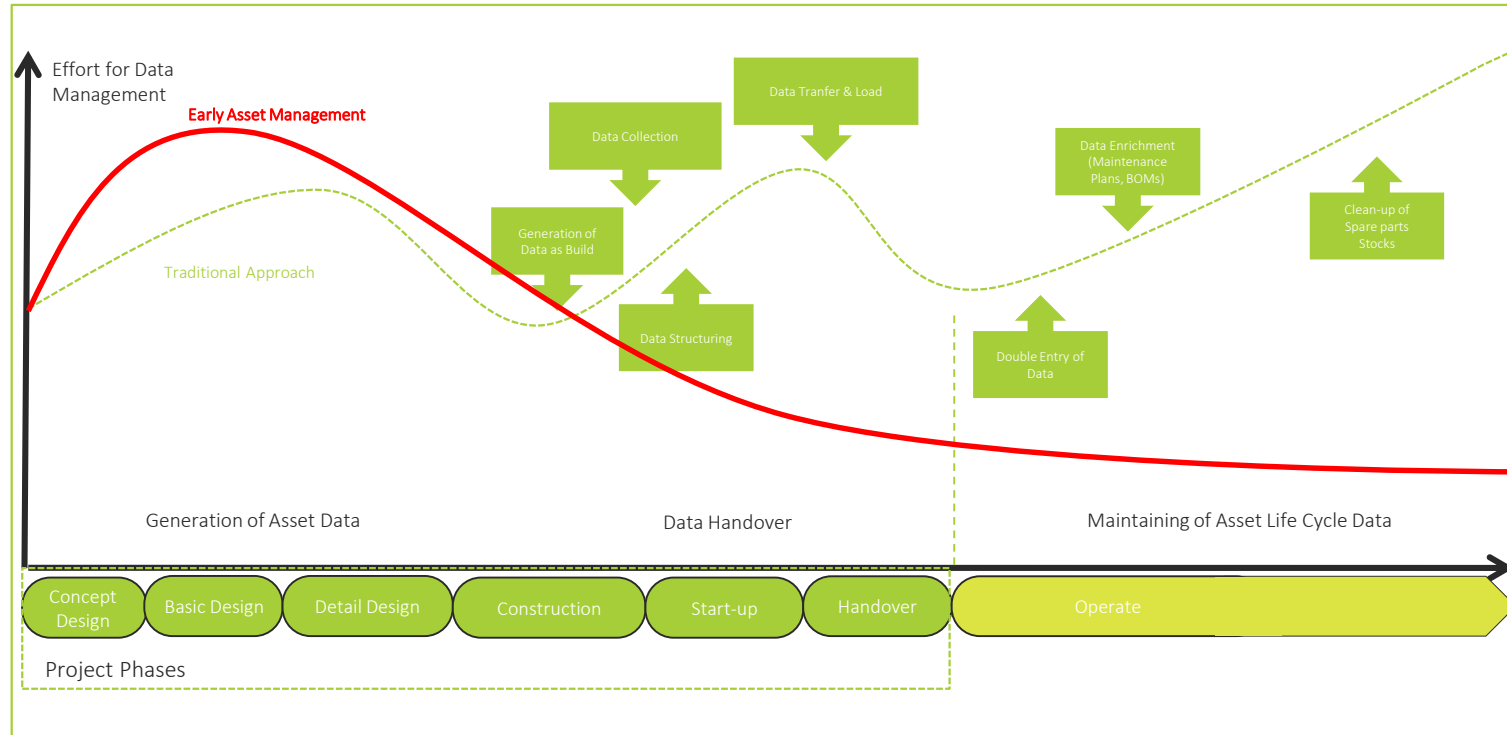
Inefficient Data Management in Projects



Inefficient Data Management



Efficient Data Management in Projects



Efficient Data Management in Projects

Data Management Concept

Which IT systems are used during the project for generation of design documents, collection of asset data etc. ?

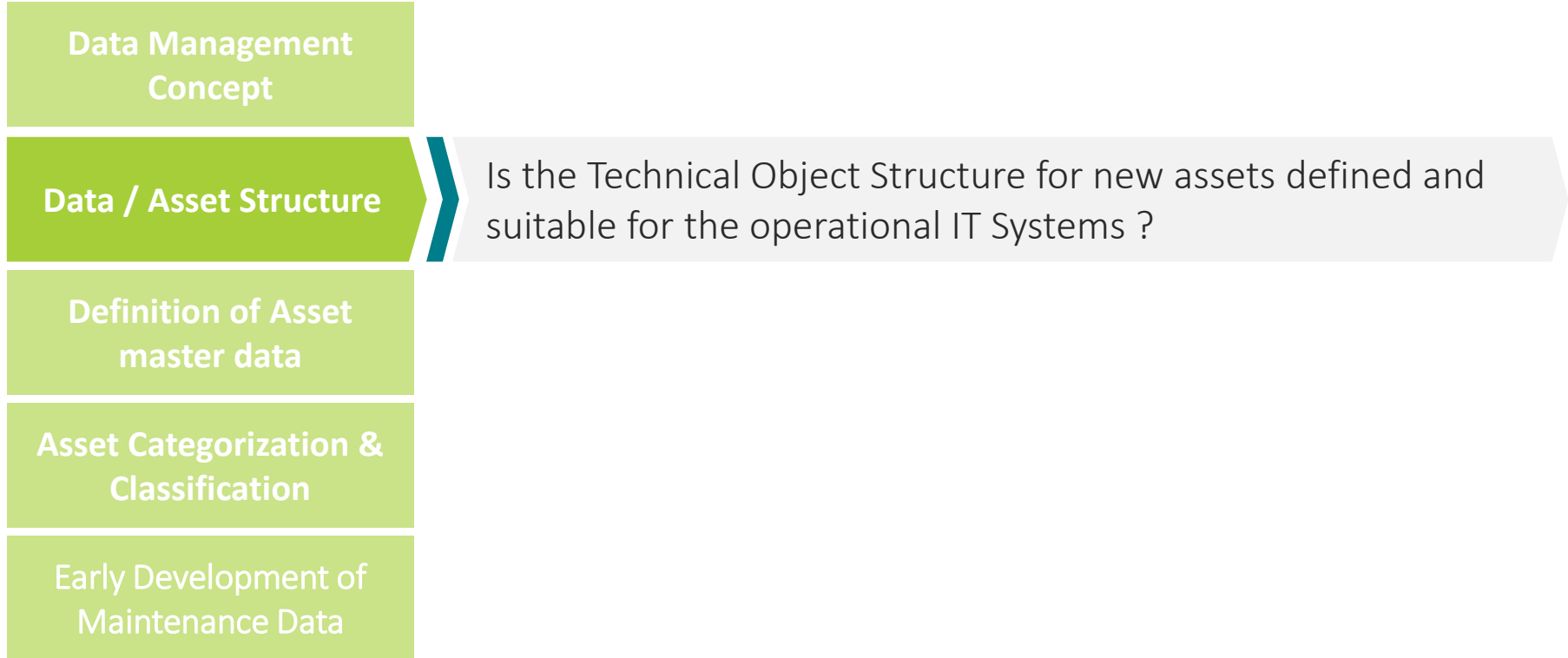
Data / Asset Structure

Definition of Asset
master data

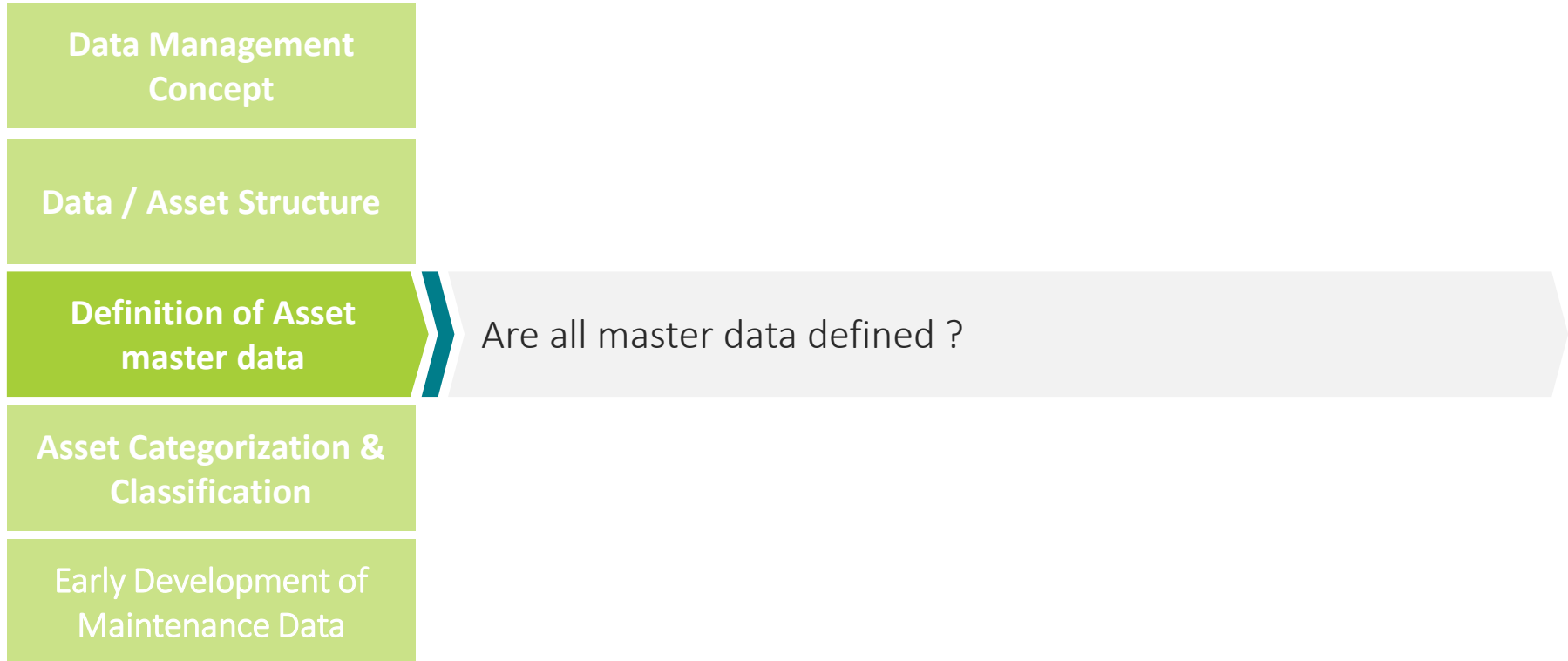
Asset Categorization &
Classification

Early Development of
Maintenance Data

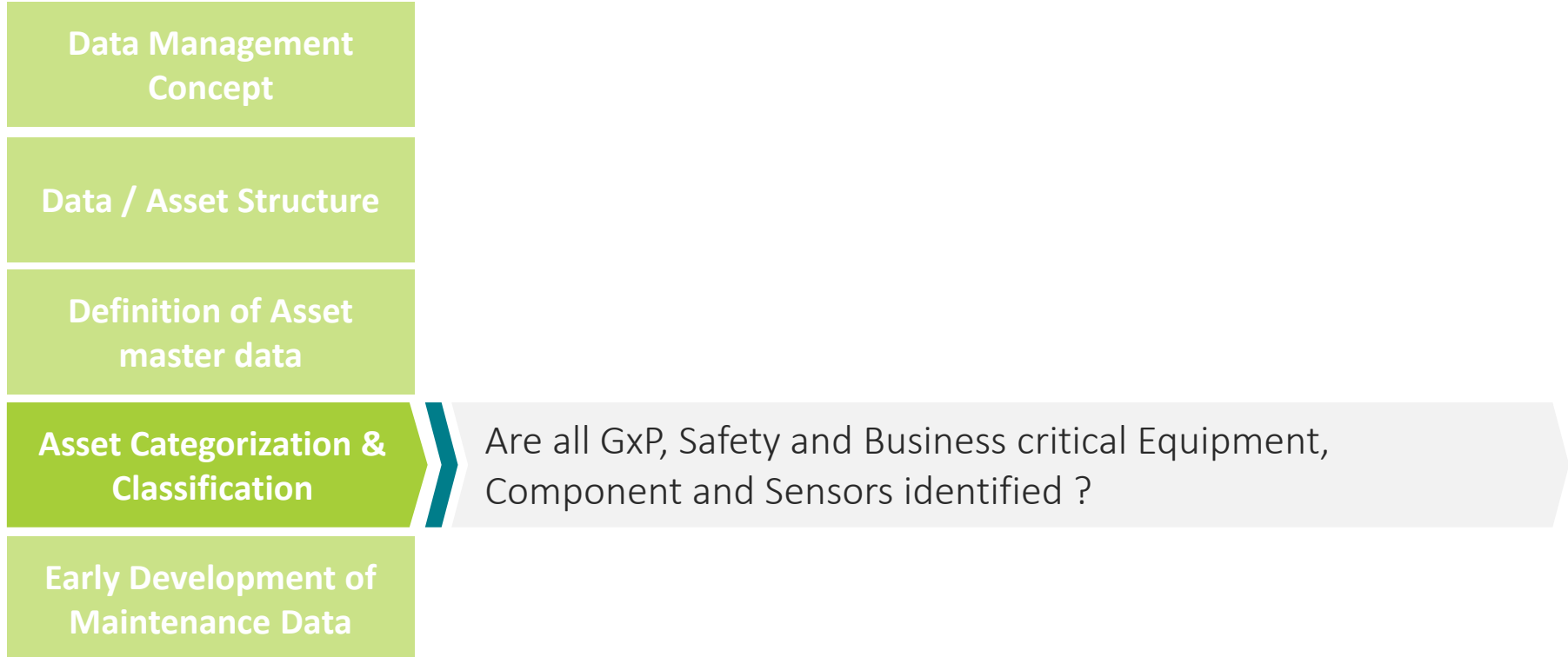
Efficient Data Management in Projects



Efficient Data Management in Projects



Efficient Data Management in Projects



Efficient Data Management in Projects

Data Management
Concept

Data / Asset Structure

Definition of Asset
master data

Asset Categorization &
Classification

Early Development of
Maintenance Data

Are for all critical equipment maintenance plans, Spare Parts BOM available before production start ?

FRAGE 3:

Wie würden Sie in Ihrem Unternehmen das Management von Anlagendaten (Engineering Daten, Instandhaltungsdaten Dokumentation) beschreiben ?

- 1: überwieged Papier basiered
- 2: Papier und IT Systeme basierend
- 3: verschiedene IT Systeme
- 4: ein integrietes IT System



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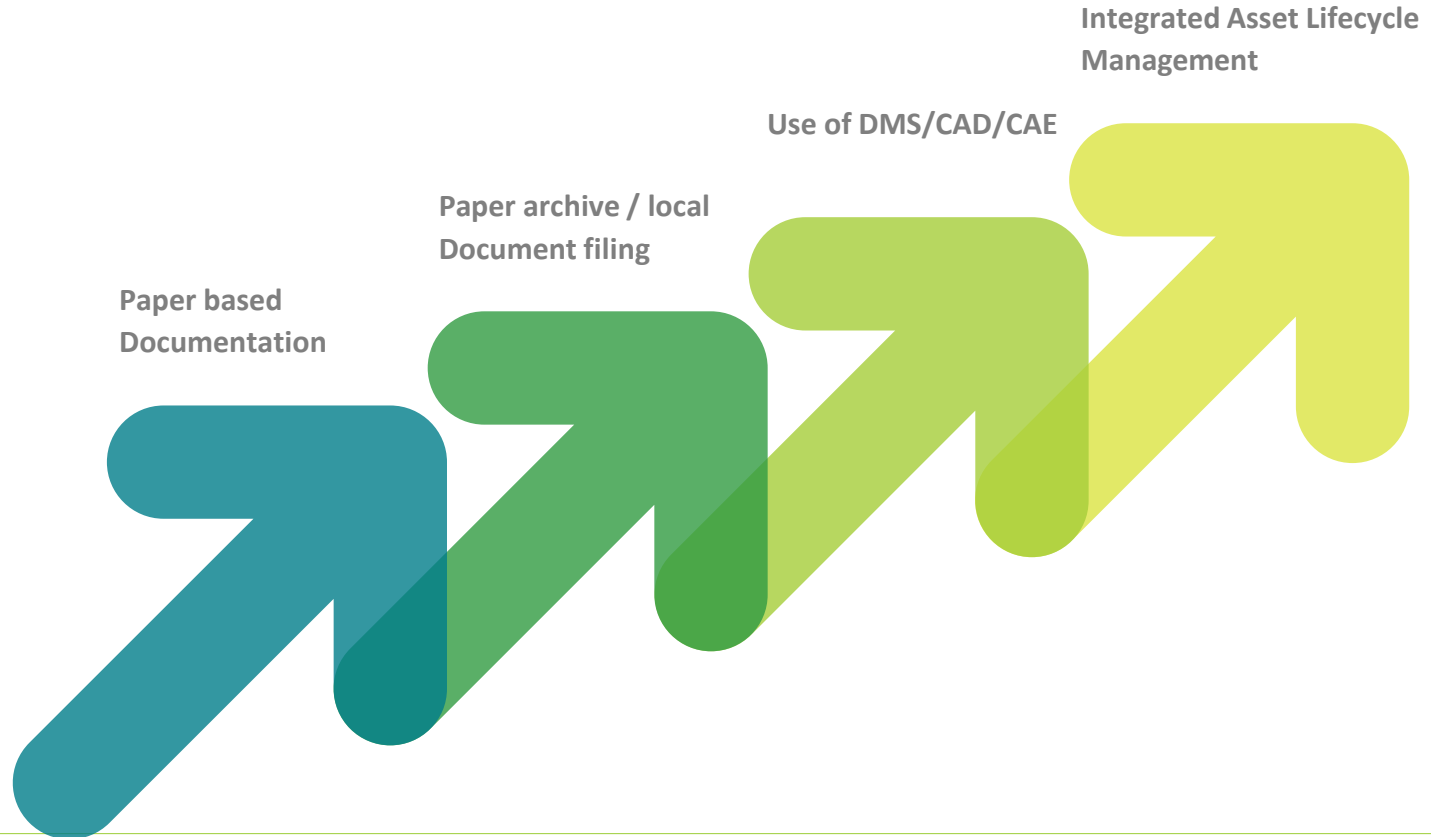
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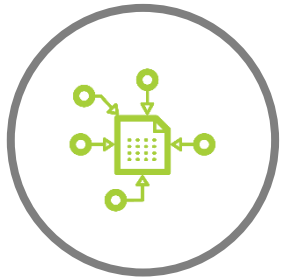
Effective & Efficient Data Management

TODAY → TOMORROW



Effective & Efficient Data Management

ADVANTAGES



Single source
of information



Compliance



Plant
Security



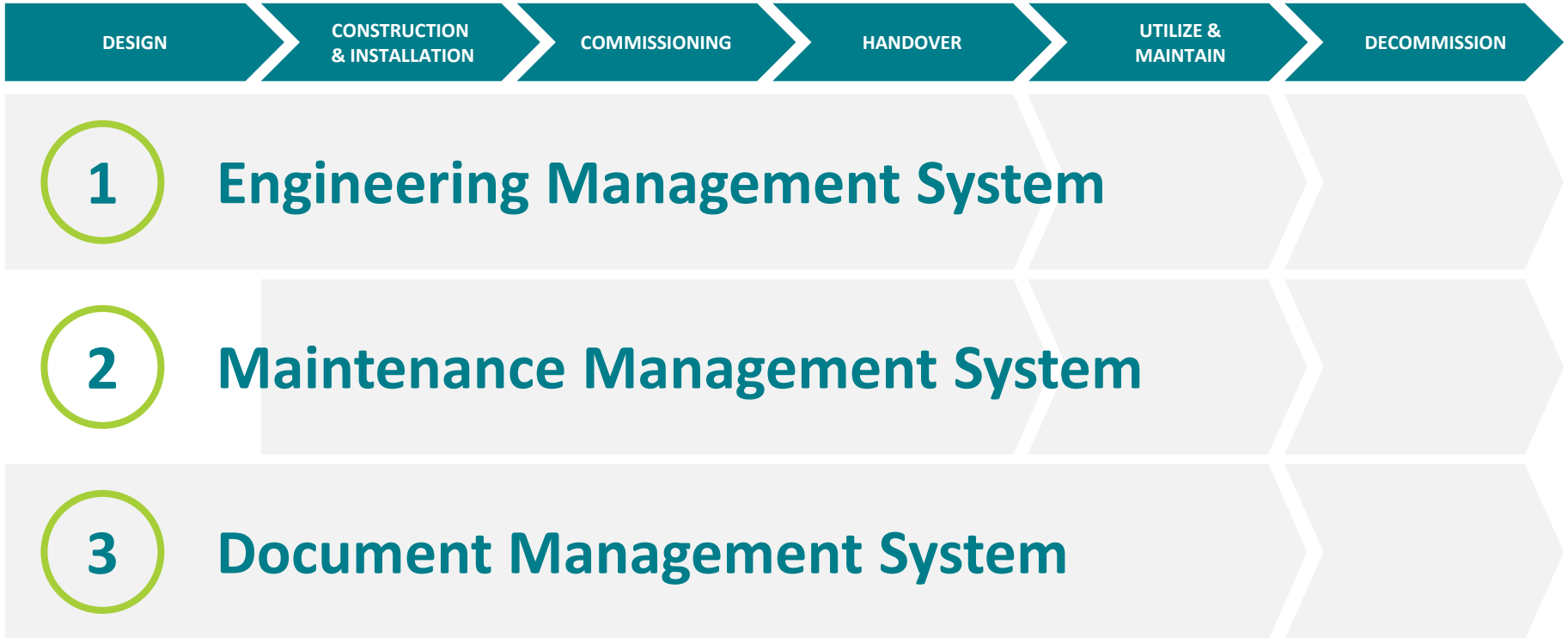
Cost Saving



Knowledge
reuse

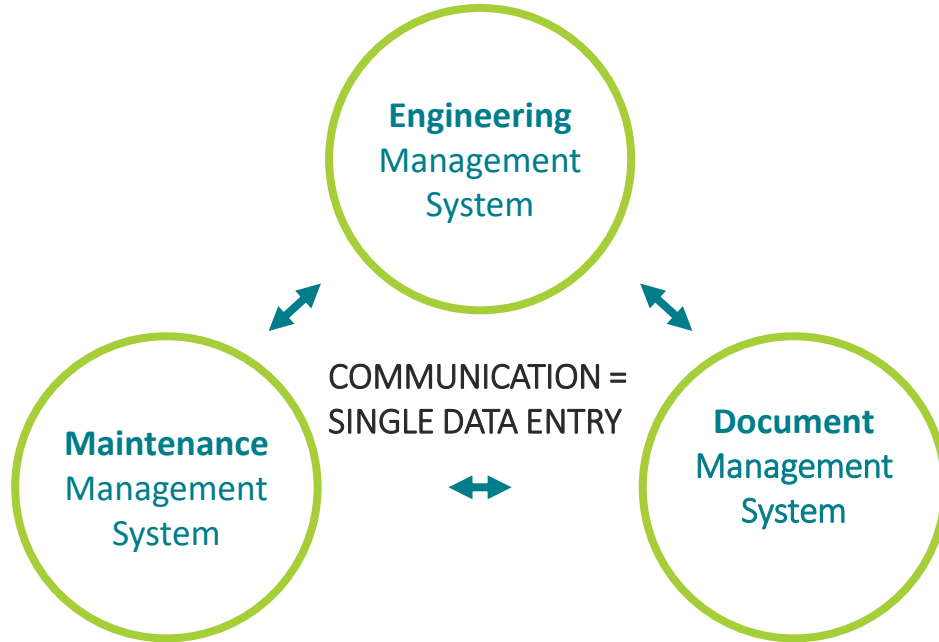
Effective & Efficient Data Management

THROUGH ALL ASSET LIFE CYCLE PHASES



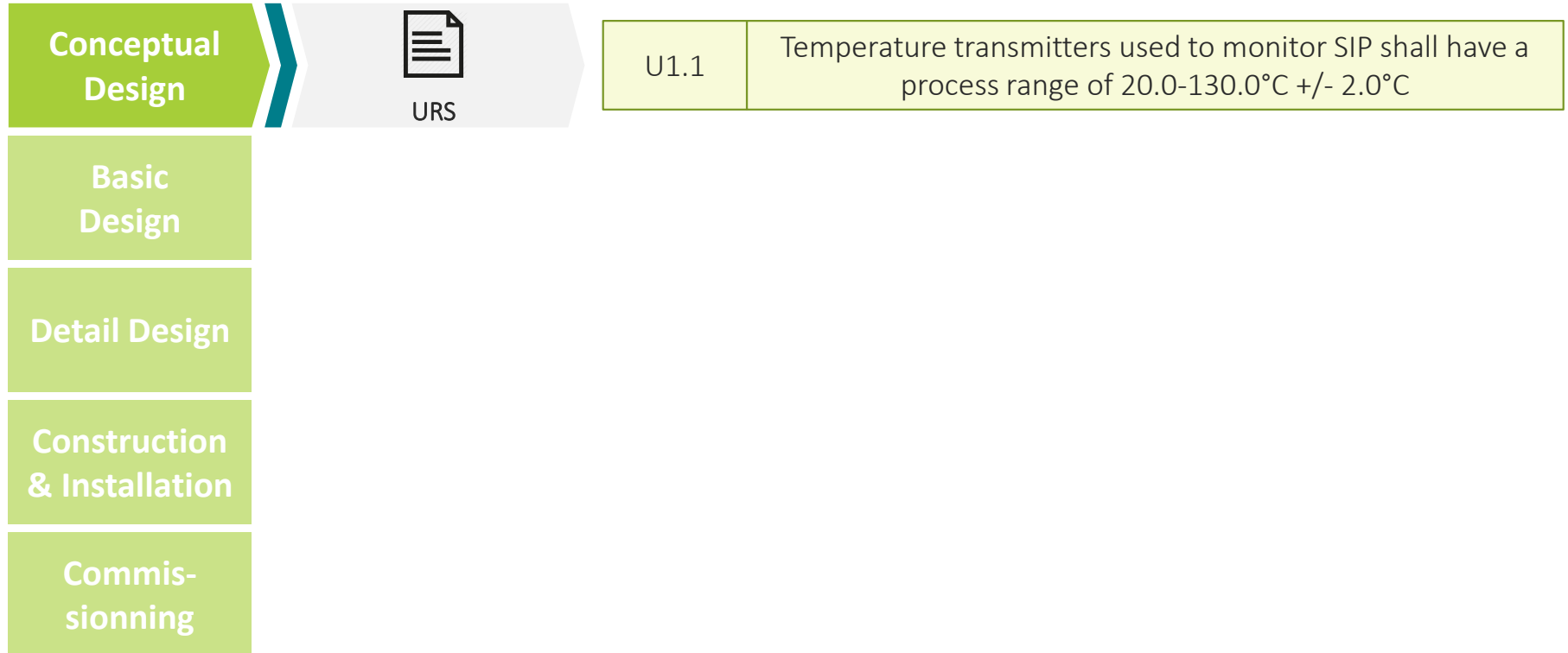
Effective & Efficient Data Management

THROUGH ALL ASSET LIFE CYCLE PHASES



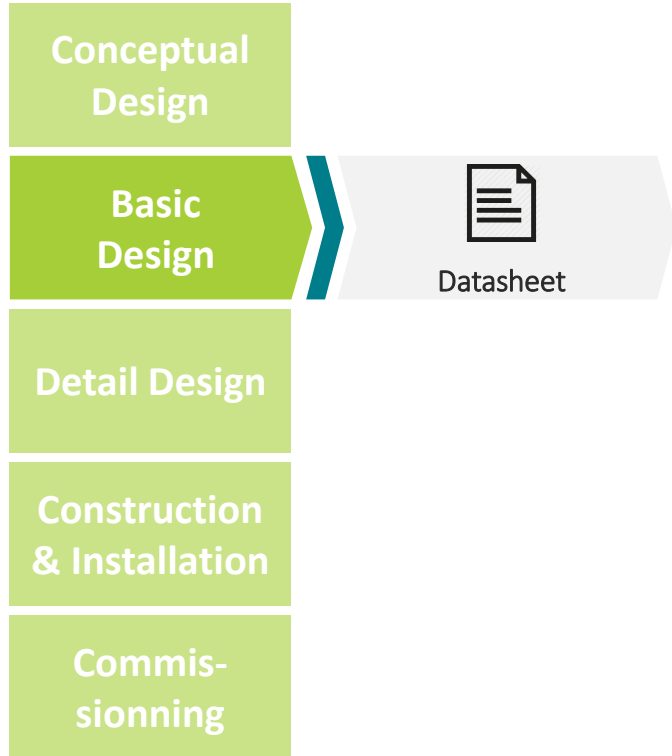
Effective & Efficient Data Management

DATA FLOW OF AN INSTRUMENT



Effective & Efficient Data Management

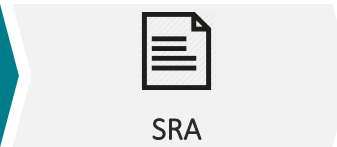
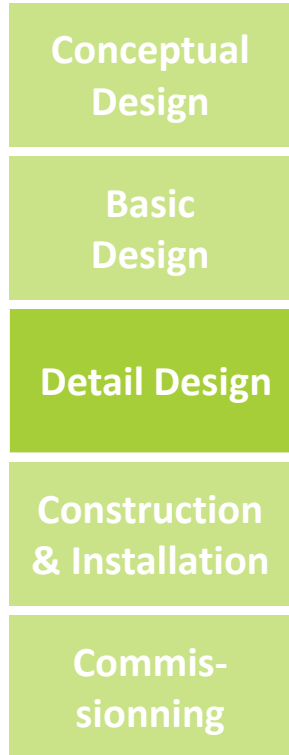
DATA FLOW OF AN INSTRUMENT



FLOC Information	FLOC Name	TIC 600		
	Criticality assessment	GxP		
	<i>Process Data</i>			
	Medium	SIP		
	Process Data			
	Temperature	°C	20.0	130.0
	Pressure	barg		
	Density	kg/m3		
	Viscosity	cP		
	Process Tolerance	°C	2.0	
	Measuring Range	°C	0.0	150.0
	<i>Process Connection</i>			
	DN	25		
PN	16			
Pipe Class	xyz			
Field Device	Specific Field Device Data			

Effective & Efficient Data Management

DATA FLOW OF AN INSTRUMENT



<i>FLOC Name</i>		<i>Process Range</i>		<i>Process Tolerance</i>		<i>Criticality Assessment</i>		
TIC 600		°C	20.0	130.0	°C	2.0	GxP	
<i>Measuring Range</i>		<i>Calibration Range</i>		<i>Calibration Tolerance</i>		<i>Interval</i>		
°C	0.0	150.0	°C	20.0	130.0	°C	1.0	12 months
<i>Function</i>		<i>Reason</i>		<i>Impact</i>		<i>Comment</i>		

Effective & Efficient Data Management

DATA FLOW OF AN INSTRUMENT

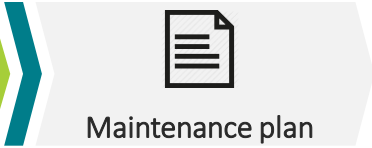
Conceptual
Design

Basic
Design

Detail Design

Construction
& Installation

Commis-
sioning



System	XYZ			
Technical responsible	Mr. Schmid			
<i>FLOC Name</i>	<i>Maintenance Measure</i>	<i>Code</i>	<i>Interval</i>	
TIC 600	Temperature calibration	AB01	12 months	

Effective & Efficient Data Management

DATA FLOW OF AN INSTRUMENT



FLOC Name	TIC 600		
Function	Indicator		
Work Order	123456789		
Criticality Assessment	GxP		
Code	AB01		
Interval	12 months		
Measuring range	°C	0.0	150.0
Process range	°C	20.0	130.0
Calibration			
Point 1	°C	20.0	
Point 2	°C	75.0	
Point 3	°C	130.0	

MSPS Expertise in COMOS

70





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