

Data i skyen

- Sådan fremtidssikrer du dine industrielle procesværdier

Dato: 3. sep. 2019

www.siemens.dk/

Data i skyen

- Agenda



- 09.00 - 09.15 Velkomst og introduktion
- 09.15 - 10.30 Opsætning af standard project
- 10.30 - 10.45 Pause
- 10.45 - 12.00 Data til Cloud
- 12.00 - 13.00 Frokost og Networking
- 13.00 - 13.45 Digitale service
- 13.45 - 14.00 Pause
- 14.00 - 15.00 Eksempler på anvendelse og afslutning

Data i skyen

- Velkomst og introduktion

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Vi viser, hvordan du får data fra instrument op i skyen samt hvordan den nye teknologi også kan bruges servicemæssigt

Der vil være mulighed for at se hvad kan man bruge af det man allerede har og hvad skal der til af nyt.....

Data i skyen

- Velkomst og introduktion

Hvad skal man bruge og hvordan gør man ?

Udgangspunkt er, at man har nogle data som man ønsker at se....

Her burger vi et vejebånd, men det kunne være alt andet... - temperatur, strøm, flow osv.



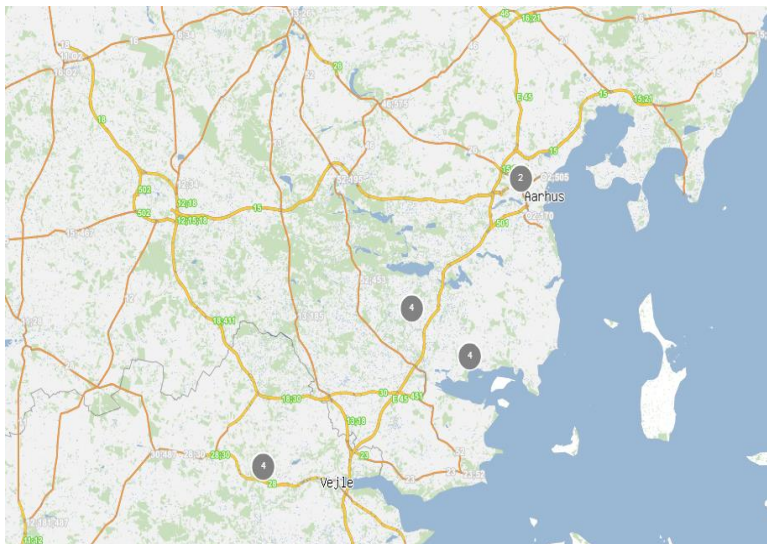
IIoT – Industrial Internet of Things

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Eksempler på IIoT løsninger

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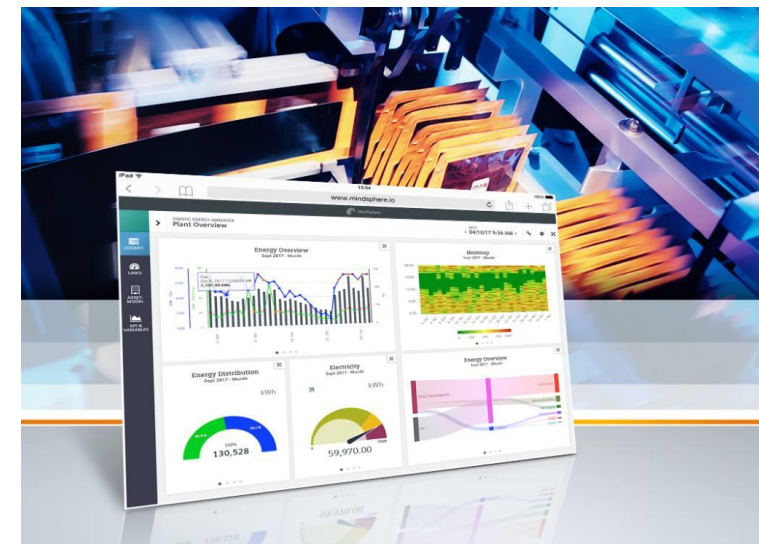
Decentrale stationer

Med cloud og IIoT kan man hurtigt og simpelt monitorere og få alarmer fra udstyr der er spredt geografisk.



Produktionsdata

Opsamling af produktionsdata til OEE, processoptimering, forebyggende vedligehold mv. både lokalt og på tværs af sites.



Energioptimering

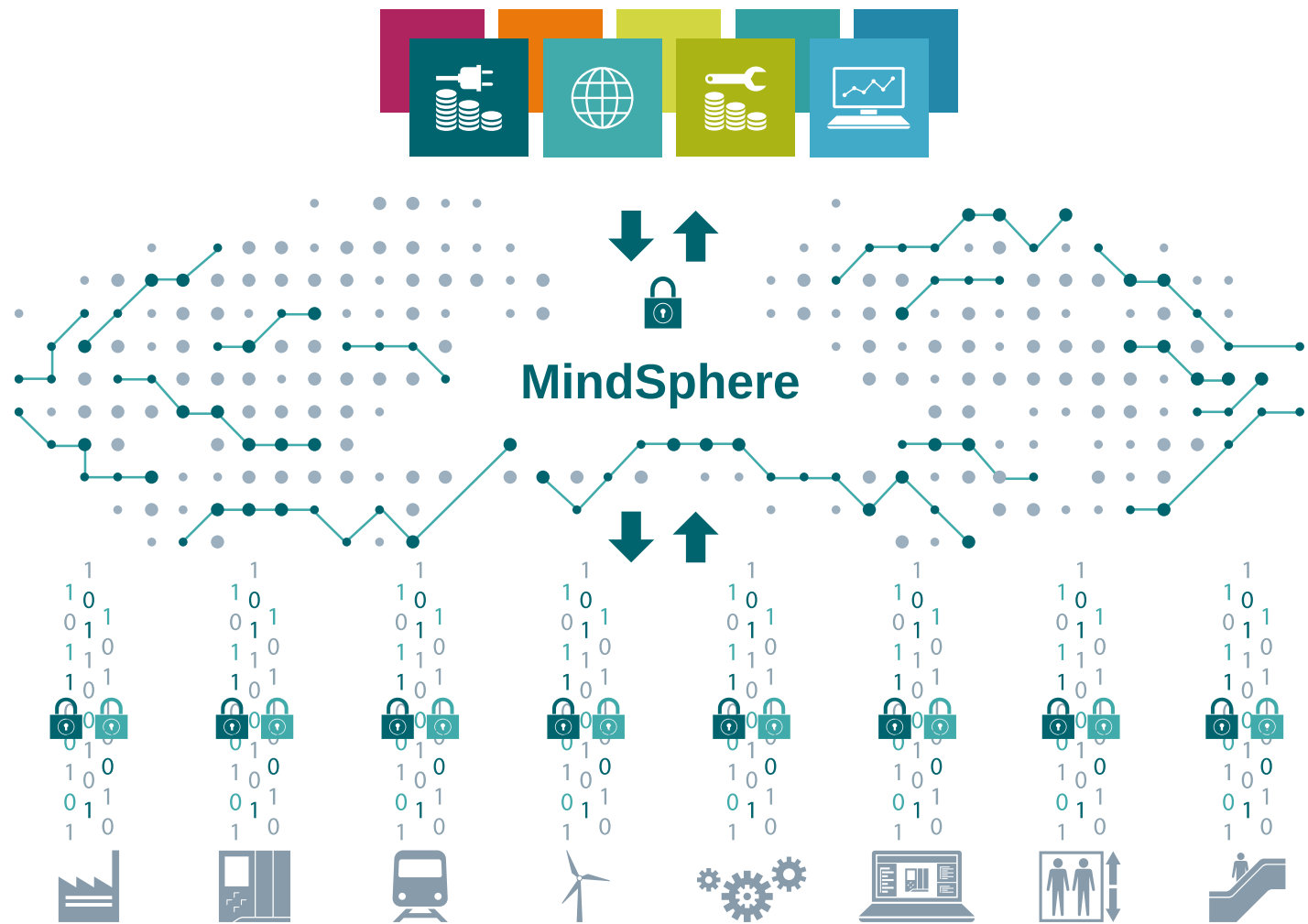
Få overblik over energiforbrug og værktøjer til at optimere og minimere forbruget.

Hvornår skal man vælge en cloud løsning?

- Når man har brug for at tilgå eller opsamle data
- Ideel til data fra decentrale stationer/sites
- Opsamling af data fra eksisterende udstyr
- Nemt tilgængelig løsning – simpelt alternativ til et SCADA-system
- Alternativ til at have egne servere (on premise løsning)



Vores åbne IIoT platform

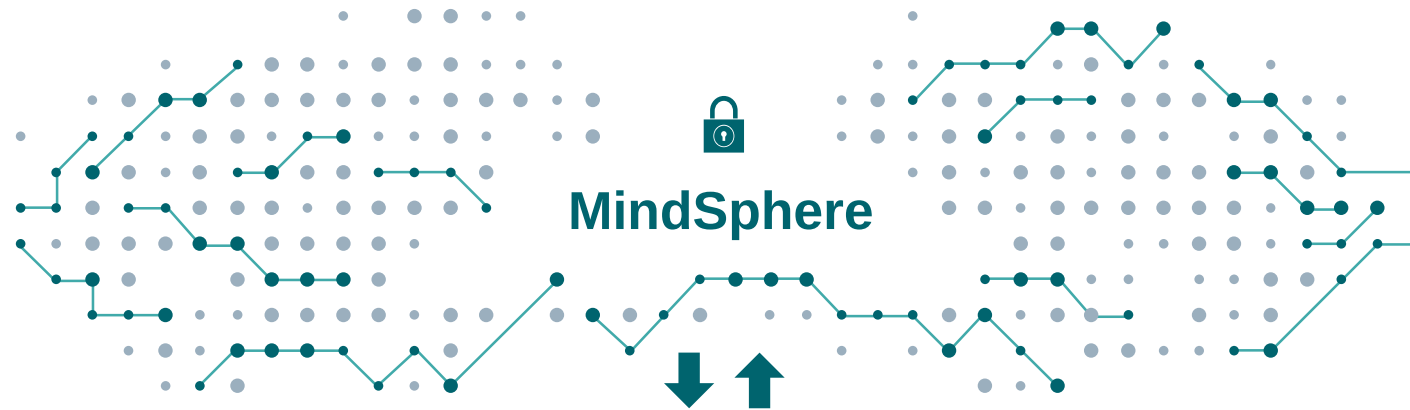


Openness by Design

MindSphere Connectivity



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Siemens
IoT Ready



MindConnect
Nano



MindConnect
IoT2040



MindConnect
API/LIB



MindConnect
Edge Analytics



MindConnect
IoT Extension



MindConnect
Integration

Simatic MindApps

- “out of the box”-løsninger



- **Performance Insight**

Få vist tags og lav KPI-beregninger på en simple made.

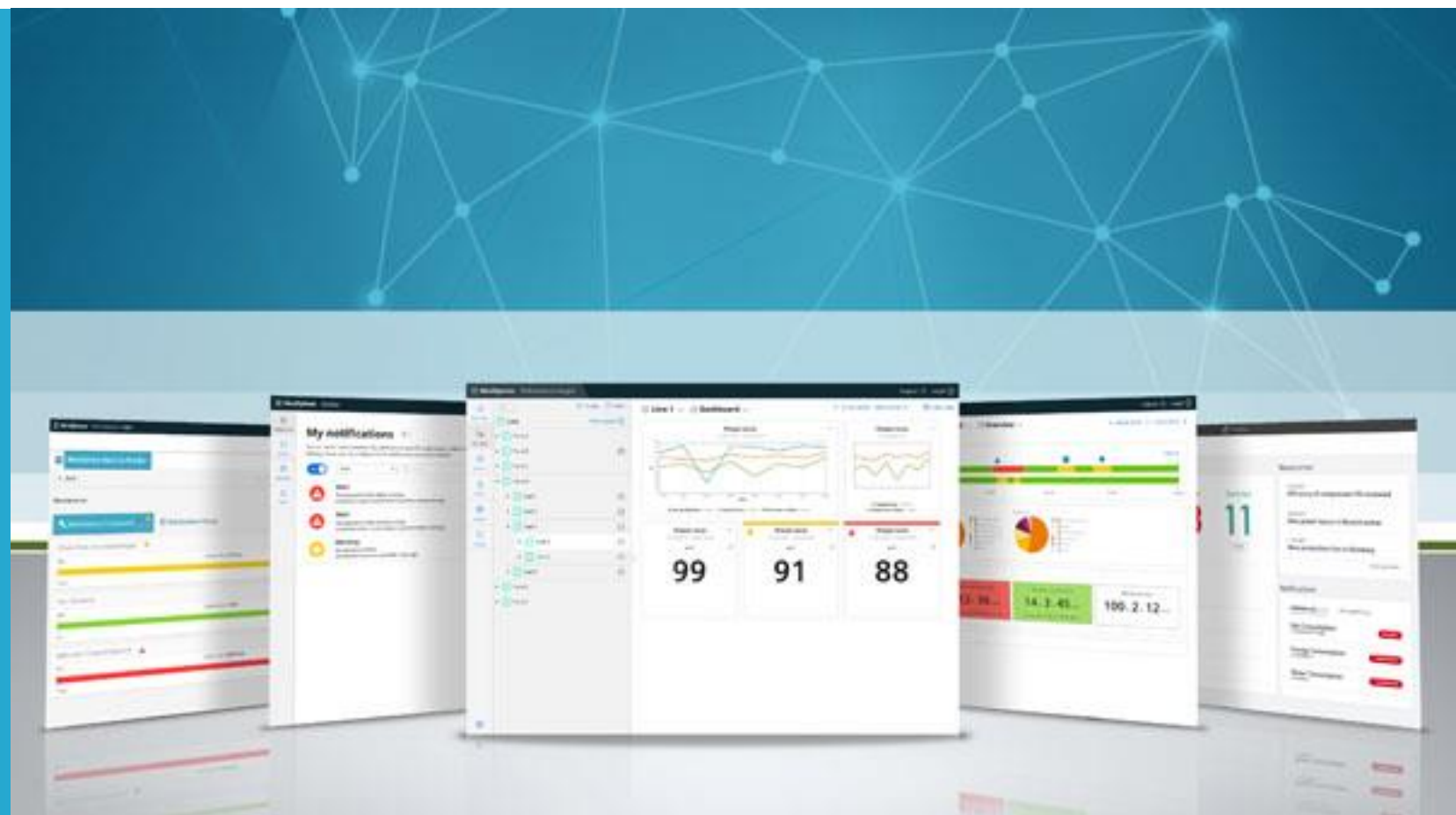
- **Simatic Notifier**

Få notifikationer og alarmer på smartphones og smartwatches

- **Machine Monitor**

Se vedligeholdelsesstatus, mønstre i alarmer og OEE tal fra dit udstyr

Lige nu kan man prøve de 3 MindApps gratis i 3 måneder.

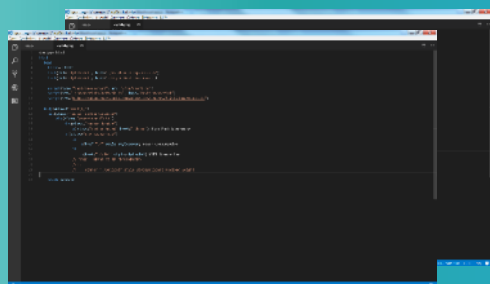


Udvikling af egen app - fremgangsmåde

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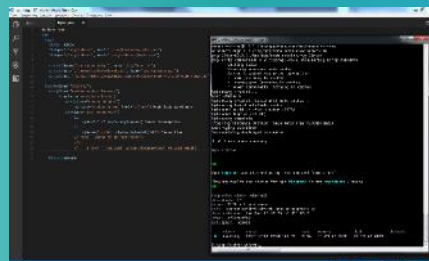
Develop

Byg og test apps i MindSphere i jeres foretrukne programmeringssprog og værktøj



Push

Skub applikationen i skyen med en enkelt kommando. MindSphere sørger for infratrukturen automatisk og gør den nemt tilgængelig



Go

Brug din app til at se og få værdi ud af din data.



Hvordan kommer man i gang?

- Find en simpel use case
- Undersøg mulighederne for connectivity
- Bestil MindSphere konto (tenant) og evt. hardware
- Login
- Konfigurer agent, datamodel og asset
- ... og så er man i gang med IoT!



MindSphere Partner program

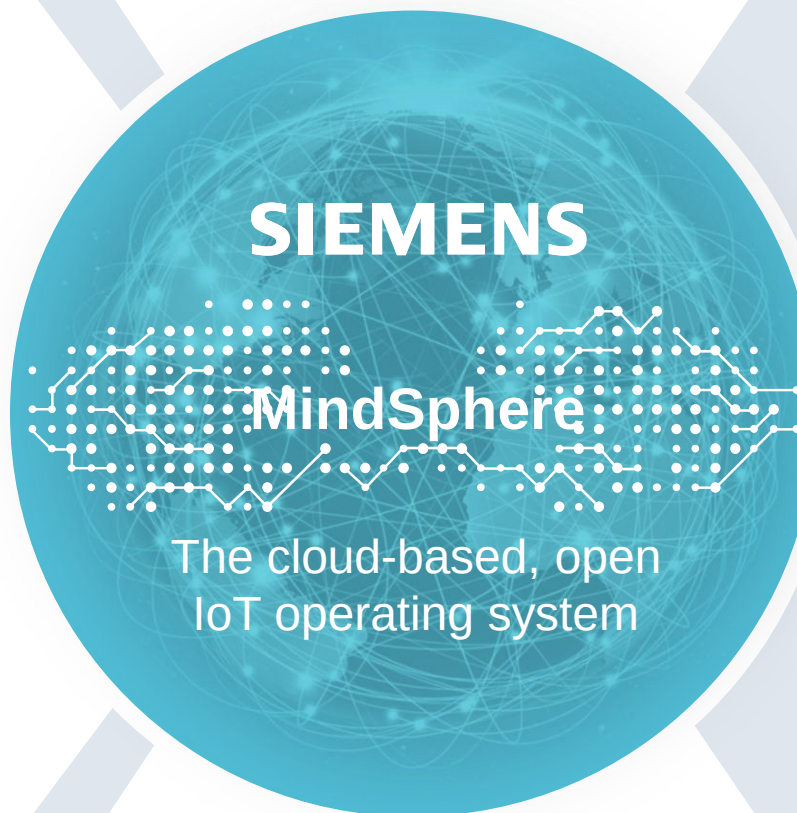


BIPA A/S

Bank Industry & Process Automation

Operational technology

TRICON
TECHSOFT



Partner Types

- Consulting and Strategy
- Application developers
- Technology
- System integrators
- Hybrid OT
- Connectivity



Data i skyen

- SIPIX SD

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Fokus:

Rejse omkostninger

Rejse tid

Hurtig fejlfinding



Data i skyen

- SIPIX SD

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<https://www.youtube.com/watch?v=RXZsB9Ymgzk>

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Data i skyen

- Ibase

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Data i skyen

- Ibase



Fokus:

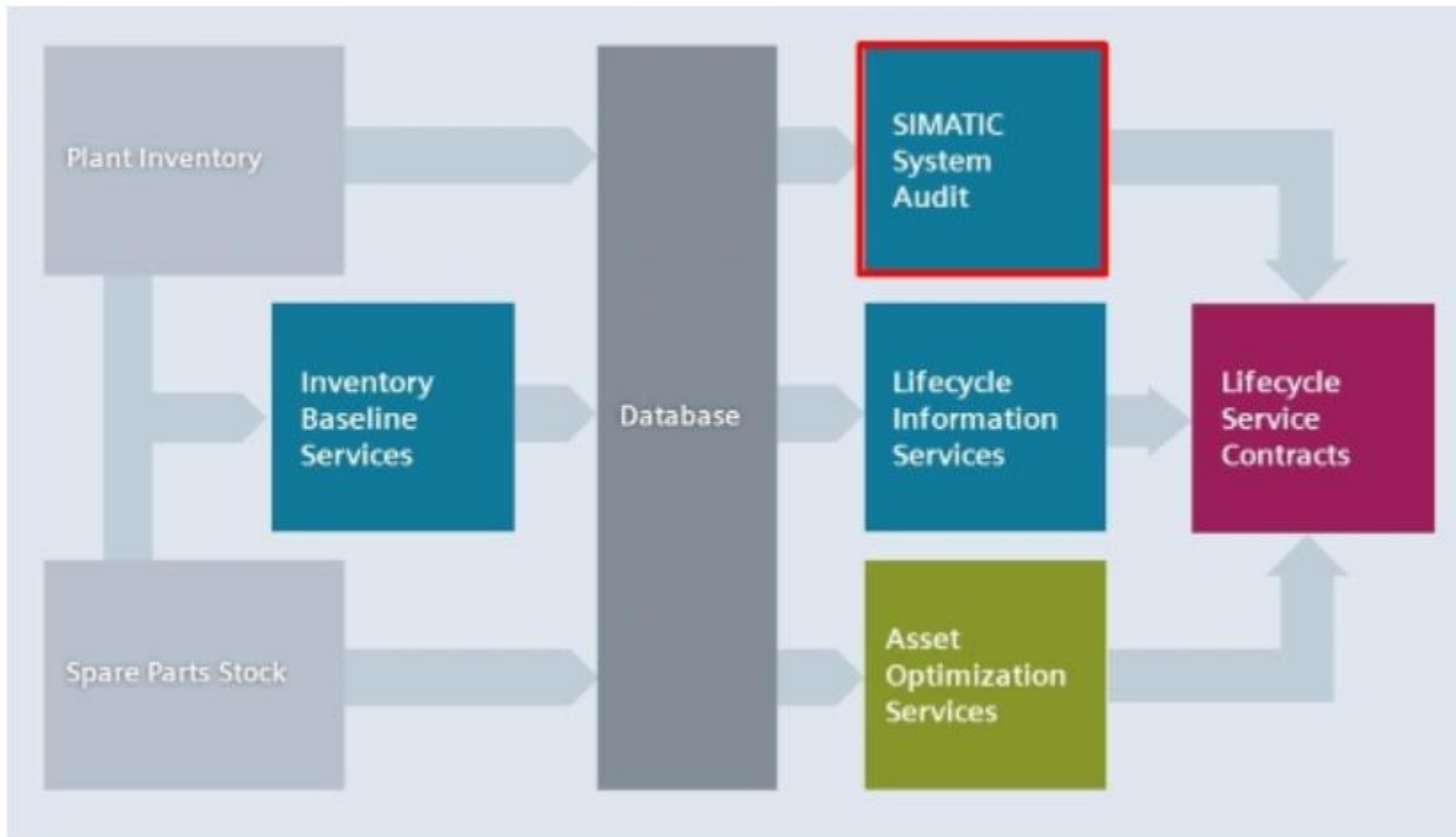
Siemens komponenters lifecycle

Fremtidig udskiftning af Siemens komponenter

Overblik over reservedels lager

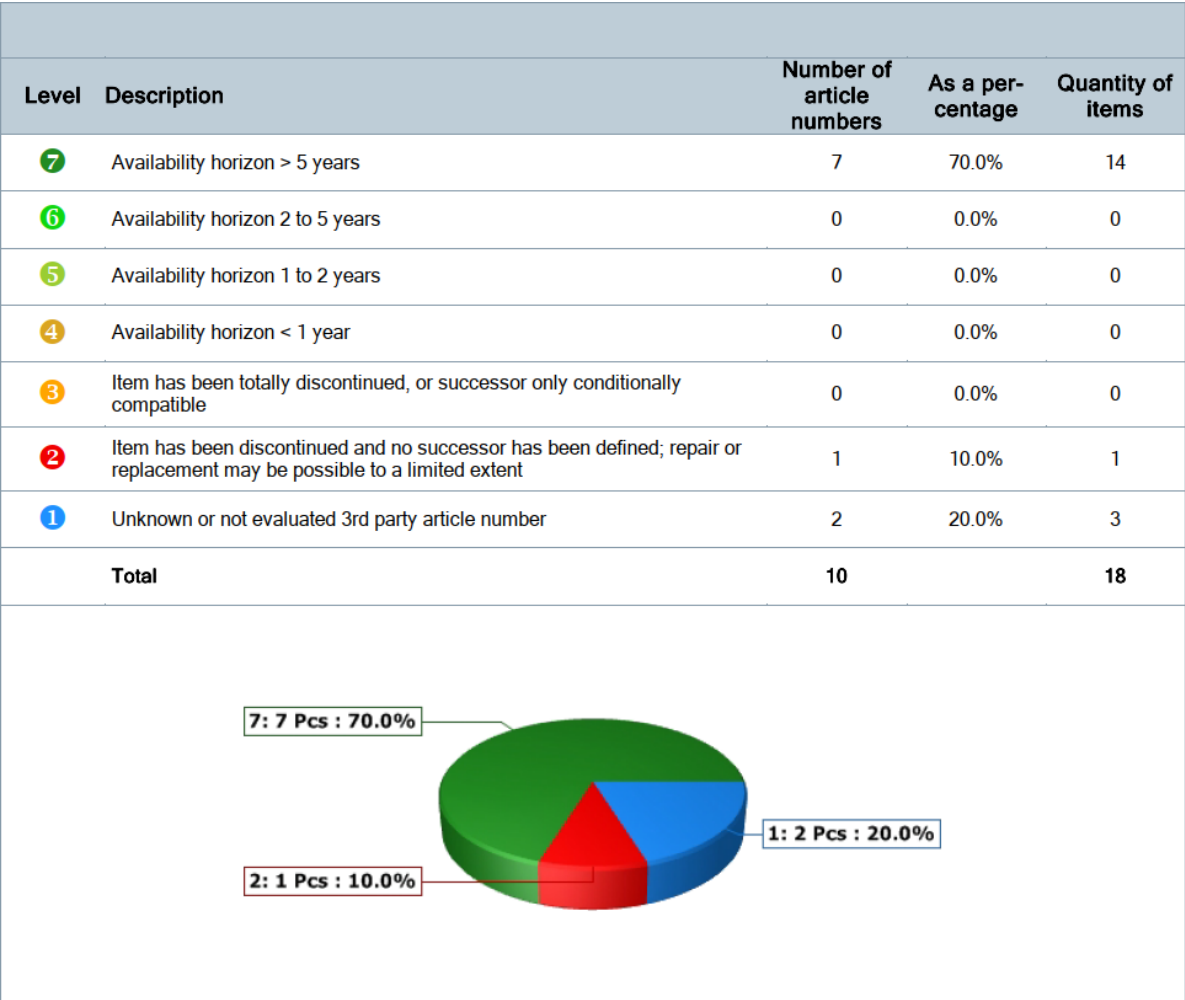
Data i skyen

- Ibase



Data i skyen

- Lifecycle Check Report



Data i skyen

- Lifecycle Check Report

- **Substitutes** are 100% compatible successor products.
- **Successor** products are possibly not 100% compatible. A technical clarification with regard to the applicability of the replacement product in the system/machine is recommended.

Level	Description	Number of article numbers	As a percentage	Quantity of items
5	Items available as original or repairable item	7	70.0%	14
4	Items available as substitute	0	0.0%	0
3	Items available as successor	0	0.0%	0
2	Items no longer available; Repair or replacement possible to a limited extent	1	10.0%	1
1	Unknown or not evaluated 3rd party article number	2	20.0%	3
Total		10		18

A 3D pie chart illustrating the distribution of lifecycle check results. The chart is divided into three segments: a large green segment representing Level 5 (70.0%, 14 items), a blue segment representing Level 1 (20.0%, 3 items), and a small red segment representing Level 2 (10.0%, 1 item). Callout boxes with leader lines point to each segment, providing the level number, quantity of pieces, and percentage.

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Data i skyen

- Lifecycle Check Report

Equipment:						
Article number	Description	Level	Quantity	RC	P.M490 Date	Successor available
7ME6910-2CA10-1AA0	MAG 5000, 19 Inch Insert, IP20 / NEMA 2, Aluminium 115-230V AC 50/60 Hz	7	1	G	-	

7 Recommendation by Siemens

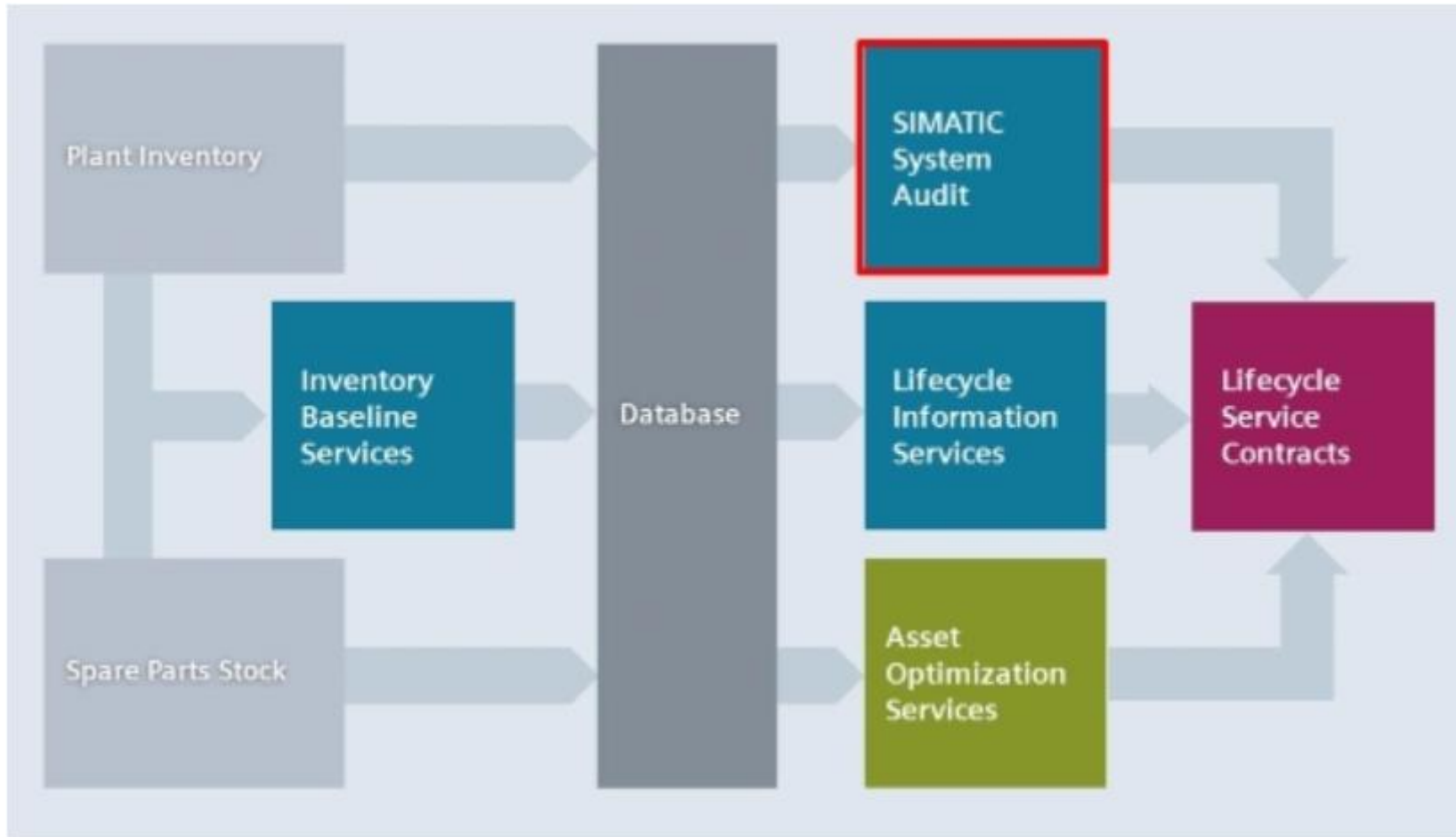
No measures are required, since availability is guaranteed for the foreseeable future.

G Cannot be repaired; Spare part procurement possible till "M490".

Return of defective parts to repair site within the liability for defects period. For detailed information regarding successor or substitute see column Follow-up information and footnote.

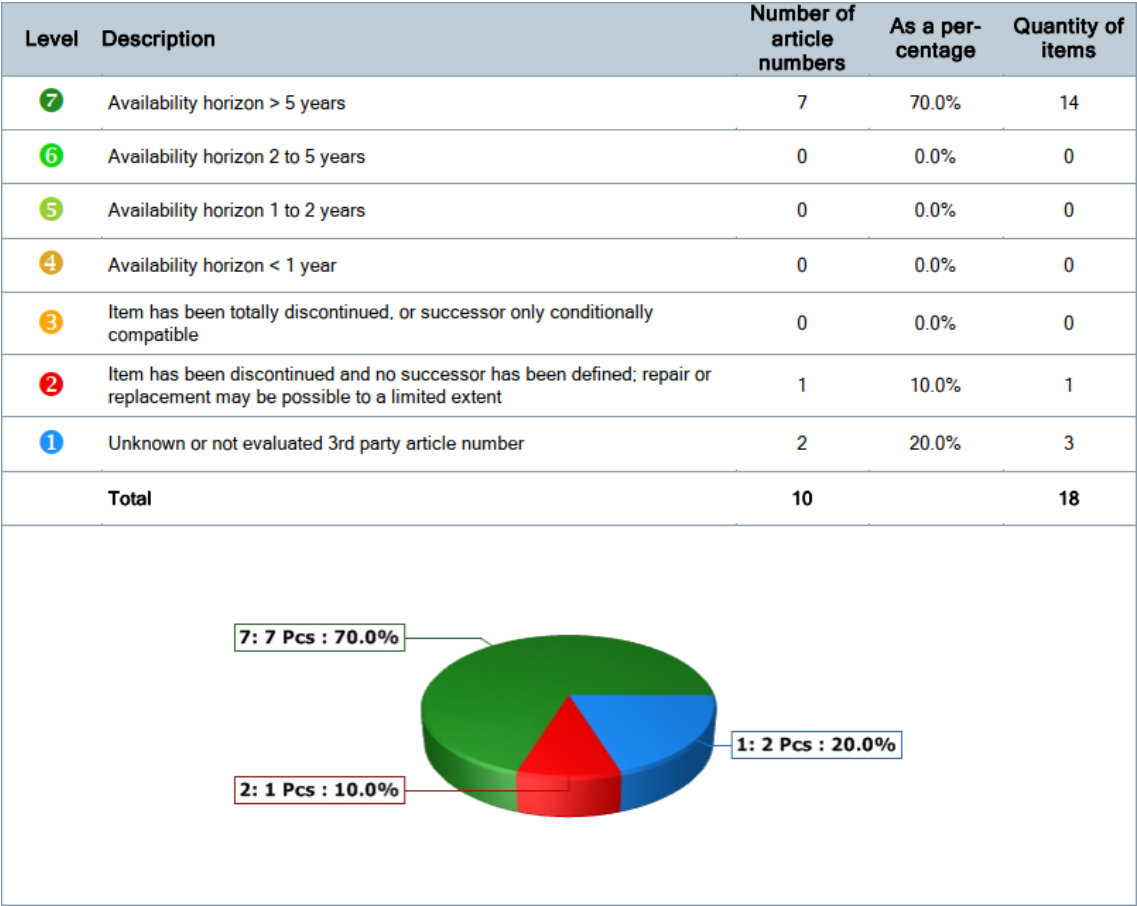
Data i skyen

- Ibase



Data i skyen

- Lifecycle Check Report



Data i skyen

- Ibase



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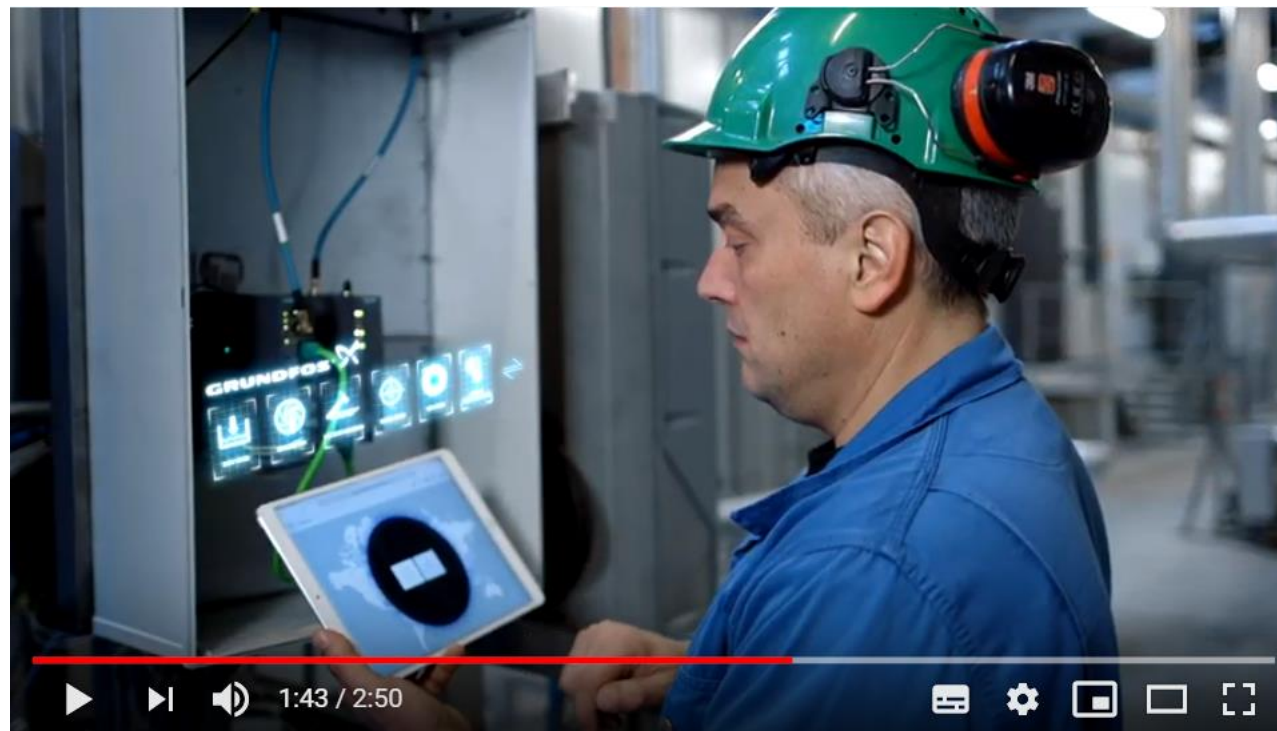
Data i skyen

- Eksempler på anvendelse:

Hvad er der egentligt af muligheder

Se video: https://www.youtube.com/watch?v=iki_-R6ymBo

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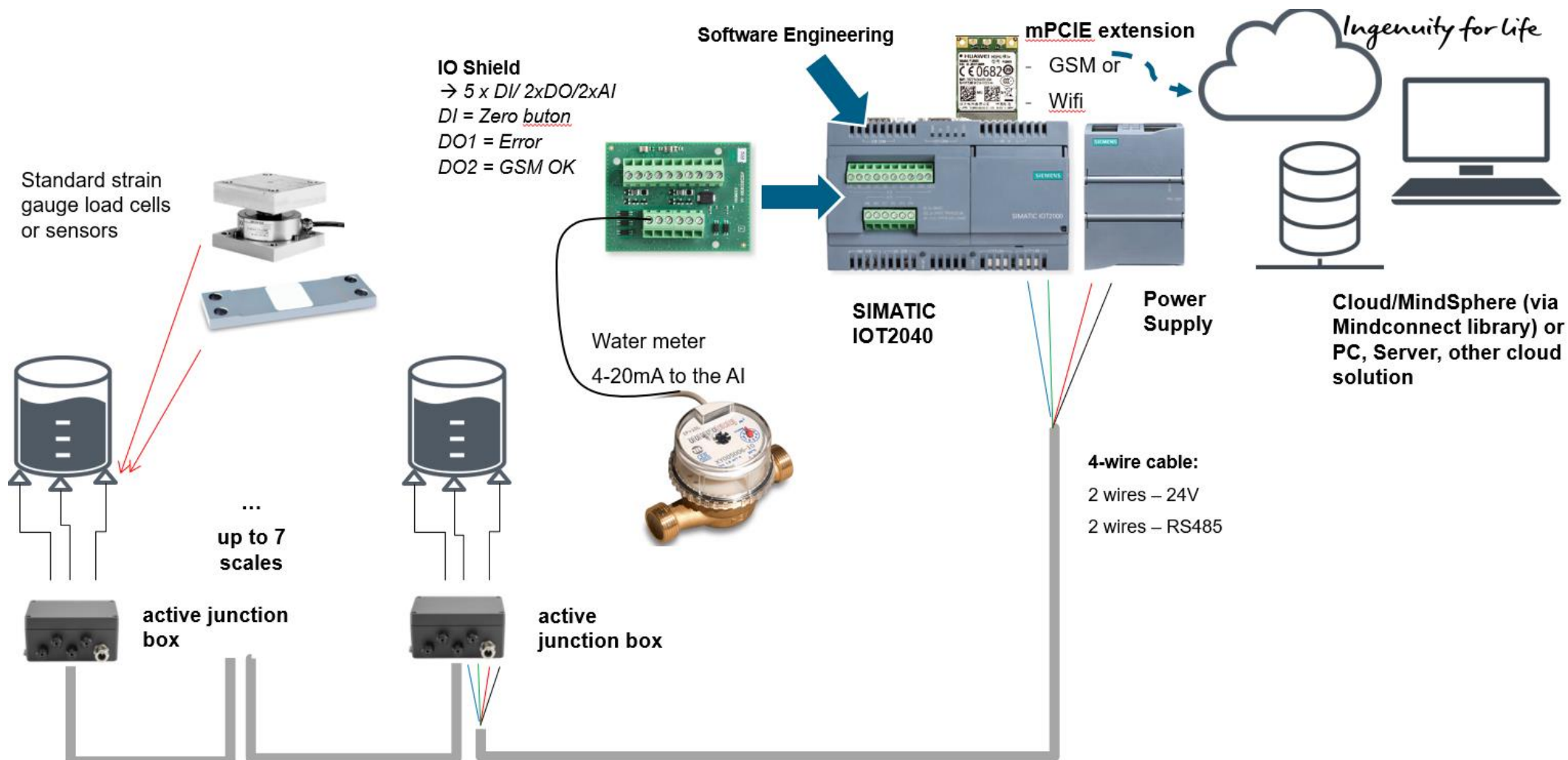


Unleash the potential of digitalization combining solutions

Data i skyen

- Eksempler på anvendelse

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Data i skyen

- Eksempler på anvendelse



MindConnect IoT2040

Hvilke komponenter er der egentlig nu til dette :
Digital Junctionsbox (vises på SPS-messen)



Den laver analog vejeceller om til digitale.
Man kan se op til 4 vejeceller, belastning og
diagnose.

Yderligere på SPS-messen
indenfor samme område kommer
der:

New Products	Liefer- einsatz
SIWAREX WP351 weighing electronic for automated <u>weighing, dosing, batching, packing</u>	11/2019
SIWAREX DB Digital junction box for <u>weighing applications</u>	08/2019
SITRANS FS230 (ATEX approval)	10/2019
SITRANS LR110/120	01/2020
SITRANS LR250 PLA	11/2019
<u>Sitrans</u> Mobile IQ, SAM IQ, <u>Serve</u> IQ (Apps)	
<u>Sitrans</u> CC240	12/2019

C

Data i skyen

- Linksamling til Siwarex moduler “Ready to Use” og “Getting Started”



Siwarex WP231

“Ready for Use” & function block library for SIWAREX WP231

<https://support.industry.siemens.com/cs/ww/en/view/66825585>

Siwarex WP241

"Ready for use" & function block library for SIWAREX WP241

<https://support.industry.siemens.com/cs/me/en/view/90260674>

Siwarex WP251

“Ready for use” TIA-Portal example project for SIWAREX WP251

<https://support.industry.siemens.com/cs/ww/en/view/109481714>

Siwarex WP321

“Ready-for-use” for SIWAREX WP321

<https://support.industry.siemens.com/cs/ww/en/view/94109373>

Siwarex FTA

(Getting started S7 project for SIWAREX FTA (Step 7 Classic and TIA-Portal))

<https://support.industry.siemens.com/cs/ww/en/view/25296061>

Data i skyen

- Linksamling til Siwarex moduler “Ready to Use” og “Getting Started”



Siwarex FTC (Loss and weight)

Getting Started S7 Project for SIWAREX FTC for loss-in-weight scale (Step 7 Classic and TIA-Portal)

<https://support.industry.siemens.com/cs/cn/en/view/26046093>

Siwarex FTC (Belt scale)

Getting started S7 project for SIWAREX FTC for belt scale (Step 7 Classic and TIA-Portal)

<https://support.industry.siemens.com/cs/www/en/view/21063615>

Siwarex U (1 og 2 kanals)

Getting Started S7 Project for SIWAREX U (Step 7 Classic and TIA-Portal)

<https://support.industry.siemens.com/cs/om/en/view/28391777>

Siwarex CS

Getting Started S7 Project for SIWAREX CS (Step 7 Classic and TIA-Portal)

<https://support.industry.siemens.com/cs/www/en/view/25822042>