

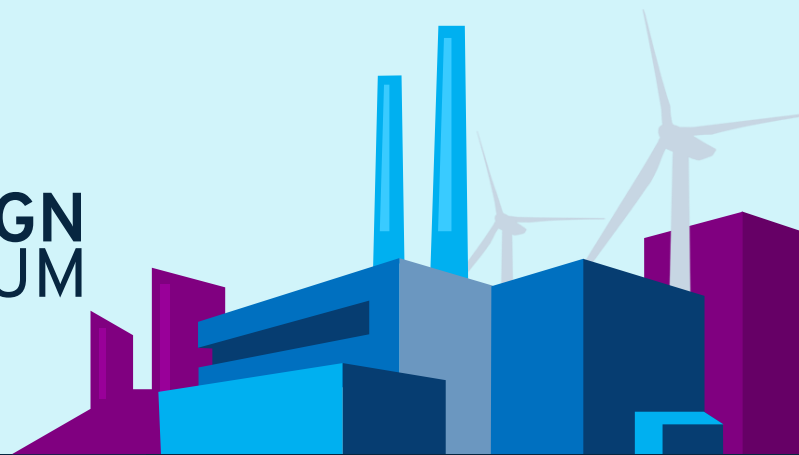
## Projekt - fra salg til service

*Herunder produkter, layouts, overblik, afklaring, dokumentation, ændringer, proces, samarbejde, produktionsmateriale, service, kritiske komponenter, krav, aftersales og meget meget mere....*

*Hvad er muligt med autodesk som platform og NTL som leverandør af både knowhow, software og setup*



2019  
INDUSTRI&DESIGN  
FORUM



# Velkommen



*Jesper P Brandt*

*Customer Engagement Manager*

*nti A/S*

*Arbejder med proces- og produkt-  
standardisering sammen med vores kunder*

*Ansvarlig for alle NTI's egne produkter i  
industri segmentet*

*Har været i NTI i 25 år*

CLOSED for ALTERATIONS ~ OPENING SOON ~  
THE FIRST ONE IN AMERICA !!!!

# DRIVE-IN HAMBURGER BAR

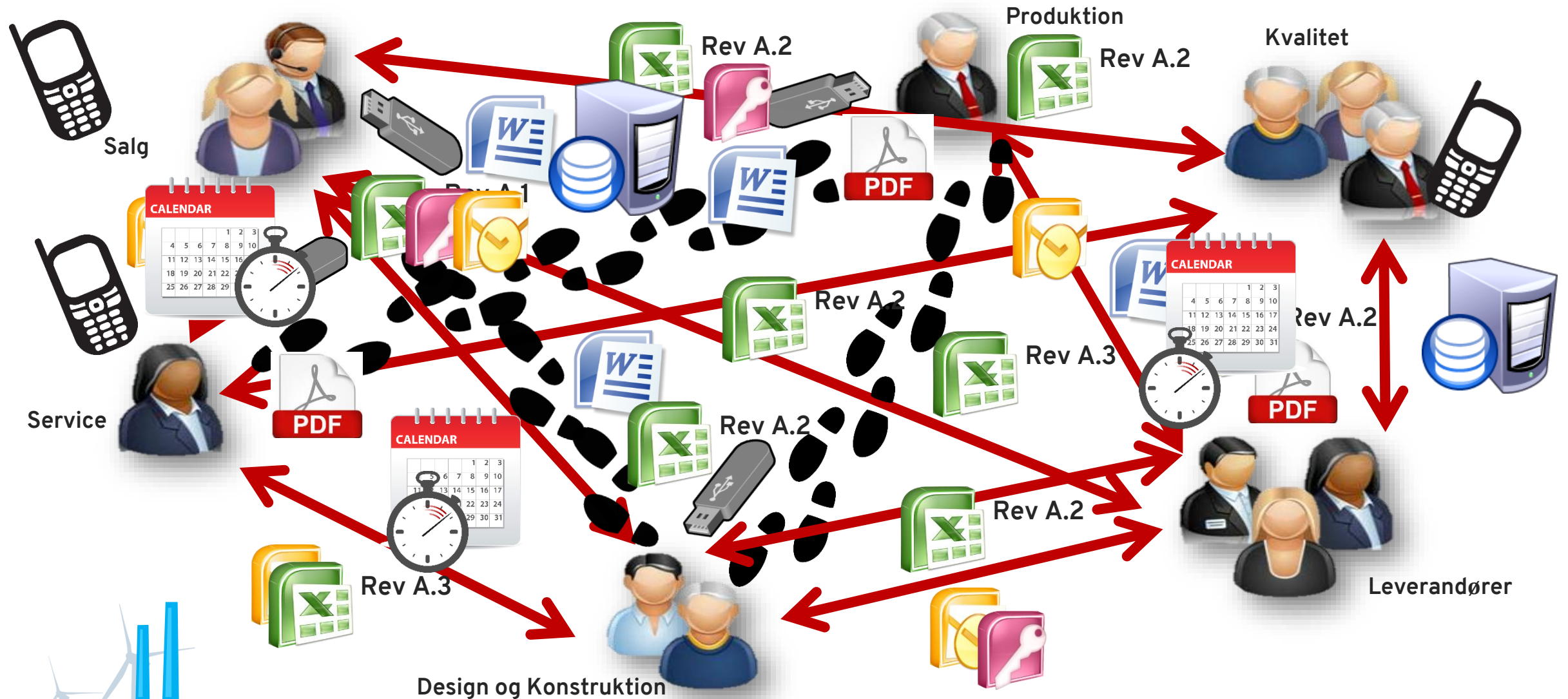
CREATED and OPERATED by MCDONALD BROS







# Ser projekthåndtering sådan ud hos dig ?

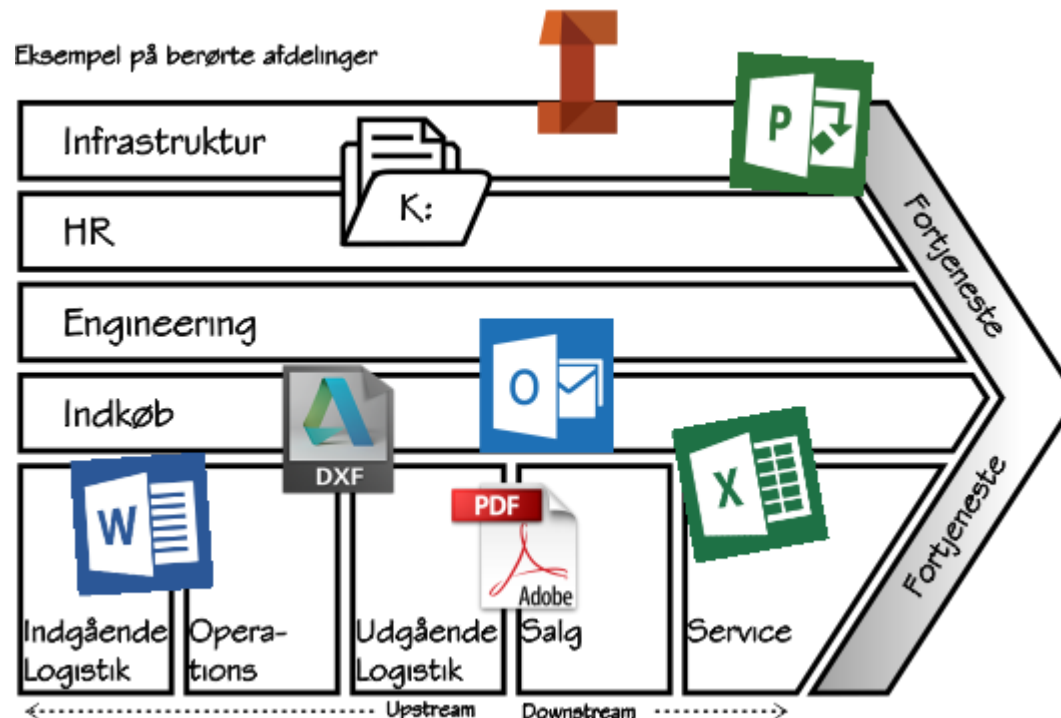


# Det kunne medføre disse ting

Aktuelt kunde eksempel

60%-70% af tiden, brugt af **produktionen** på at lede efter korrekt information.

40% af tiden hos virksomhedens **9 service ingeniører** blev brugt på at søge information.



30% af tiden hos virksomhedens **4 QA medarbejdere** blev brugt på rettelser, genskabelse og timevis af spildt tid på manuel håndtering NCR dokumenter og processer.

20% af tiden hos virksomhedens **22 ingeniører** blev brugt på at søge information, og 5% af deres tid blev brugt på ikke planlagt arbejde.

# Forbedring – JA TAK

- Lave produkter/projekter som passer behov

- **Mersalg**
- Kende kundernes behov
- Kan lave det der efterspørges (design og kvalitet)
- Ha' produktet klar når behovet er der

- Minimere gennemløbstiden

- **Hurtigere levering/optimering af ressourcer**
- Faser i projektet kan afvikles parallelt
- Data er struktureret så de er tilgængelige efter behov
- Automatik fremfor manuelle processer

- Gøre det rigtigt første gang

- **Større fortjeneste**
- Veldefinerede processer og datasammenhænge
- Kvalitet i data der skabes
- Overblik over fremdrift og opgaver

Bruge software i Design&Manufacturing Collection  
(Inventor, Factory, Fusion, NavisWorks osv.....)

Bruge VaultPro, til håndtering af design data  
(Proces, kontrol, revision, frigivelse, osv.....)

Ved skift af status synkroniseres data til andre i virksomheden

Salgslayout har reference til veldefinerede produkter  
(Standard, variant, special, osv ....)

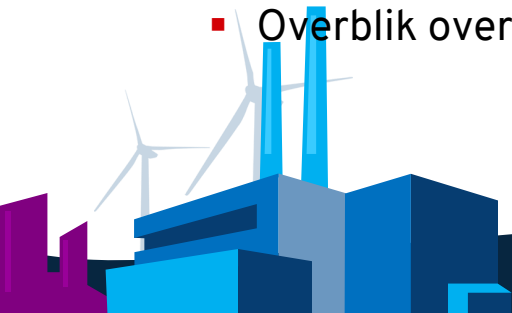
Alle data skabt fra layout til leveret projekt er refereret  
(Produkter, varer, dokumentation, service, osv.....)

Overblik og status på nye og tilpassede produkter i projektet  
(Automatisk til skabe, opdatere, ændre, overføre, osv.....)

Produkt/projekt afklaring kobles sammen i HELE processen  
(Varer, styklister, opgaver, leverancer, osv.....)

Data håndteres i flow med rettigheder  
(MultiBOM's, kritiske komponenter, service parts, compliance, osv.....)

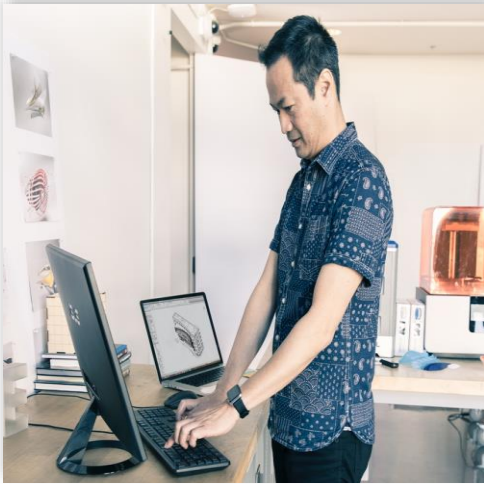
Integreret forretningsmodel med relevante data  
(Vault-ERP-PLM-CRM...)



# Traditionel opdeling i fagområder



Salg



Design/Konstruktion



Indkøb



Produktion



Service

CRM

Customer Relationship  
Management

PDM

Product Data Management

ERP

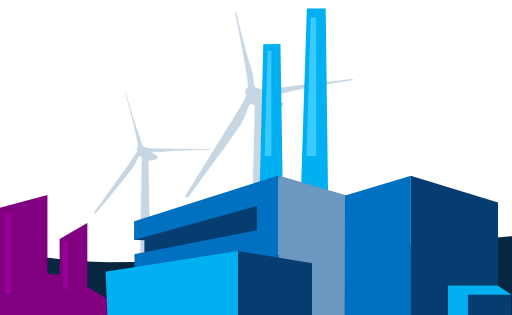
Enterprise Resource & Planning

MES

Manufacturing Execution System

SMS

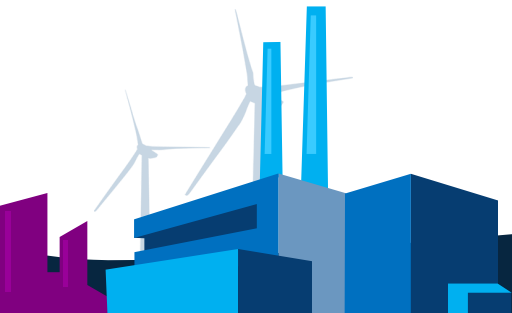
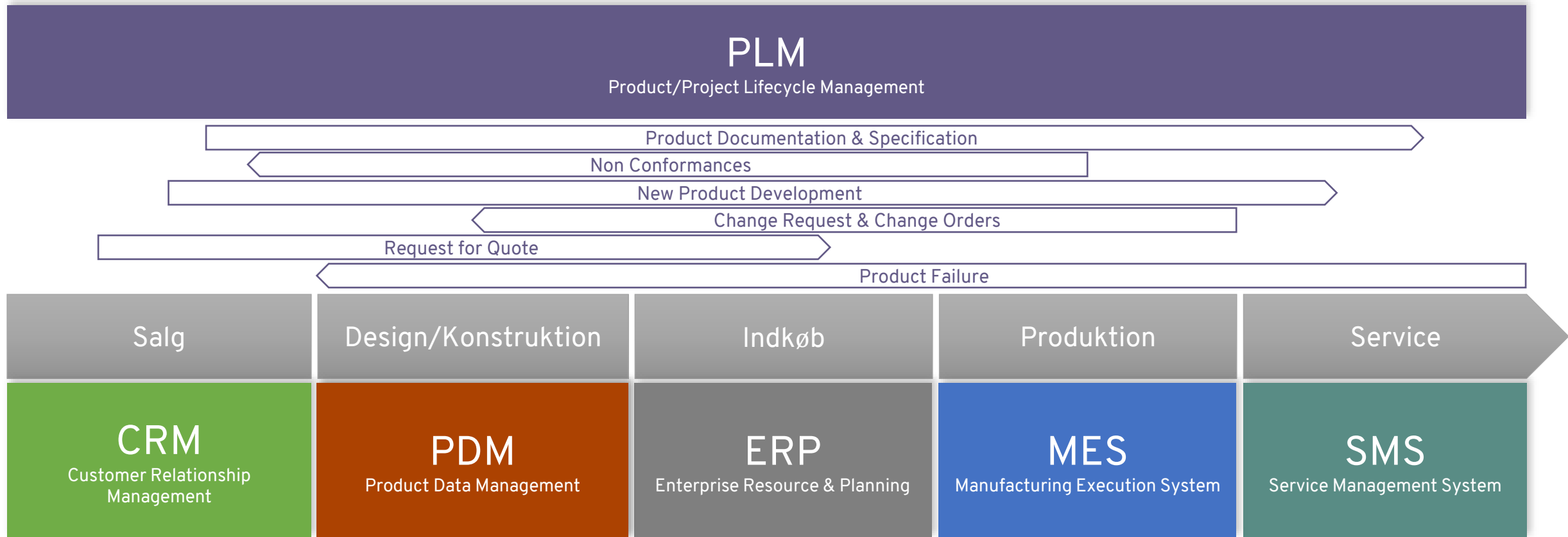
Service Management System



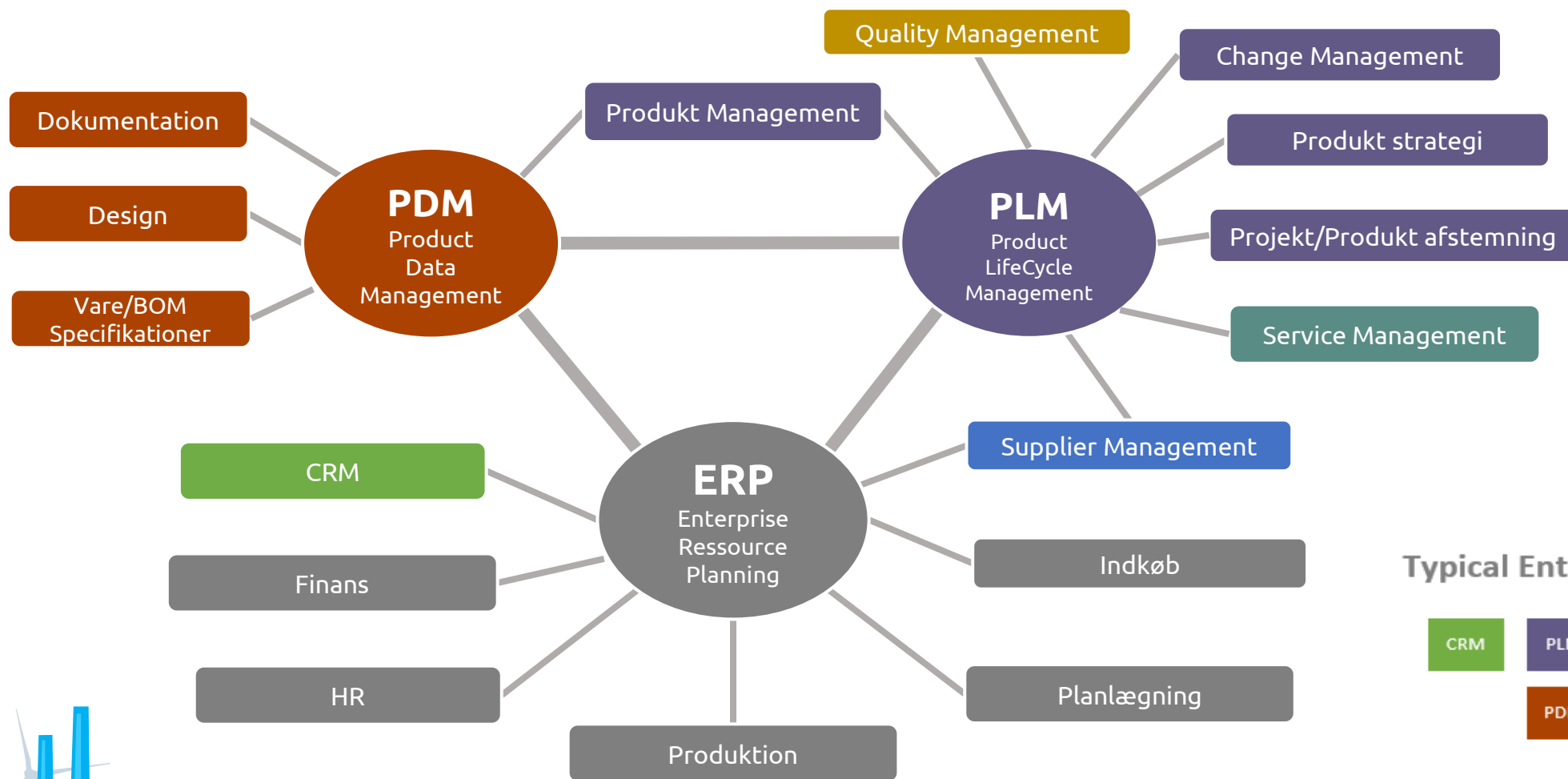


# Stadig opdeling med PLM og integration som lim

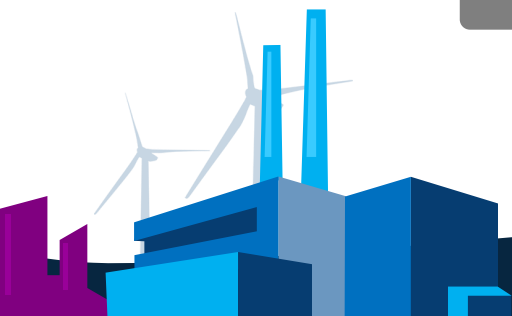
*Til en mere digital sammenhæng af projektleveringen*



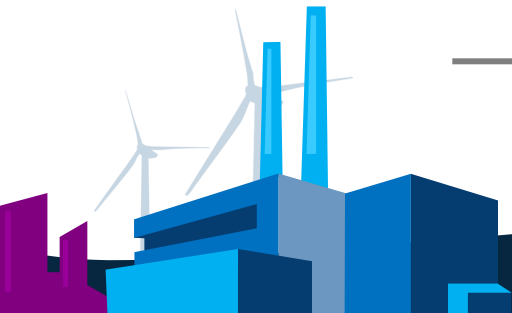
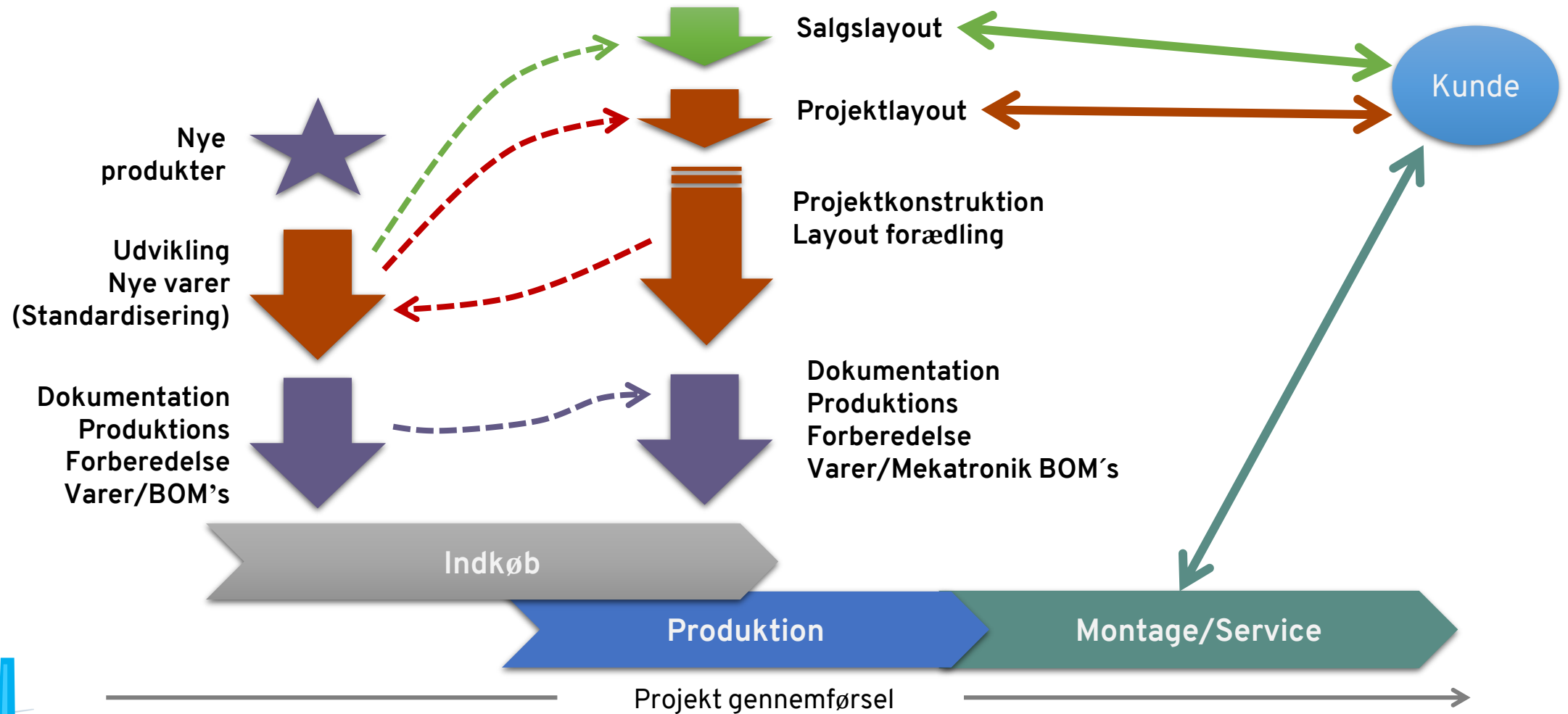
# Vi ser det integreret sådan her



## Typical Enterprise Systems

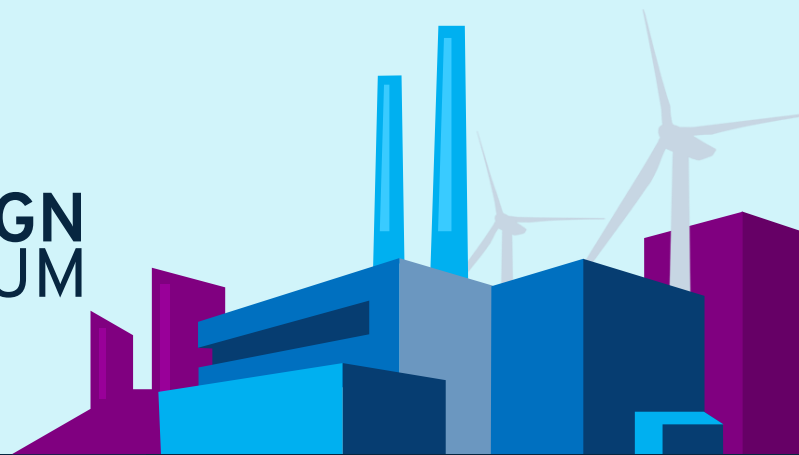


# Projektbaseret Designdata flow





2022  
INDUSTRI&DESIGN  
FORUM

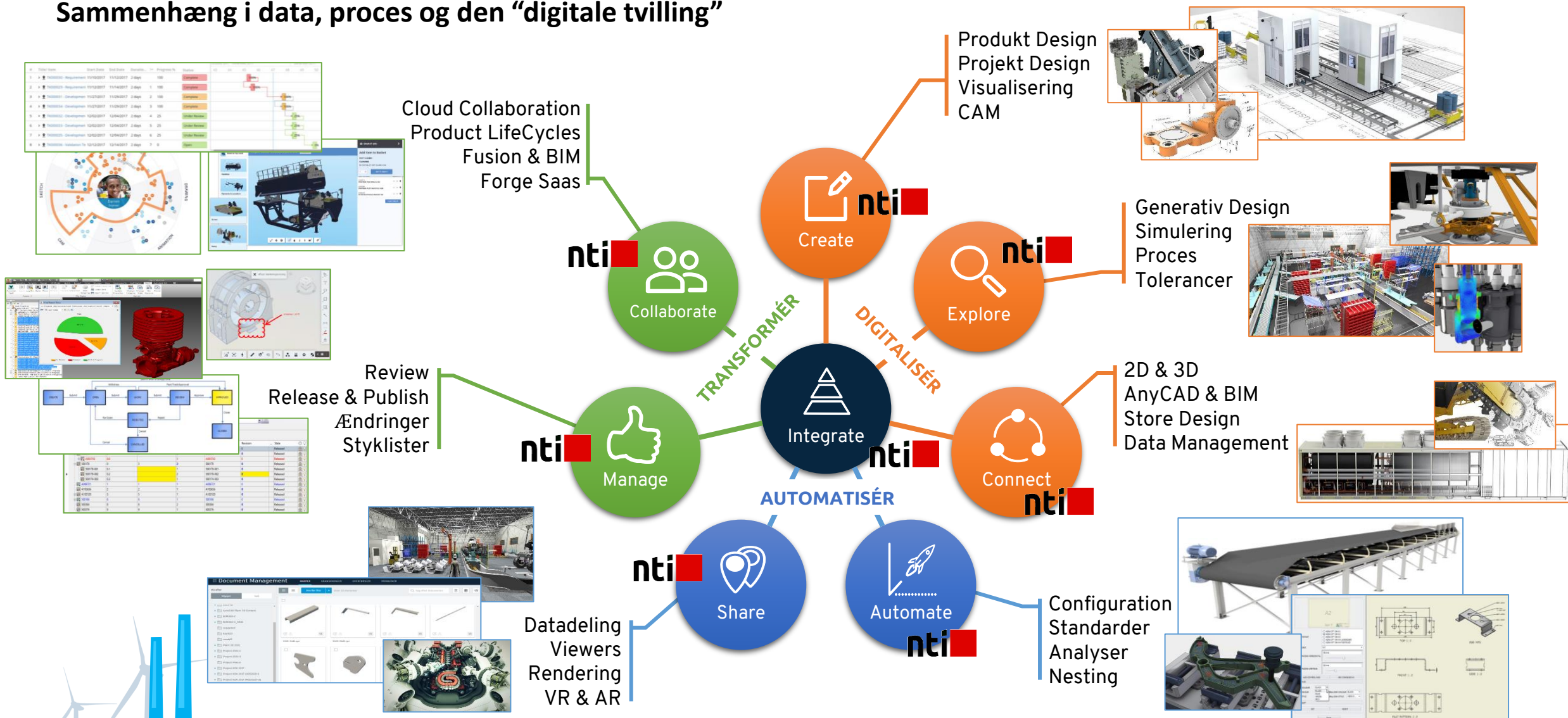


## Platform og muligheder

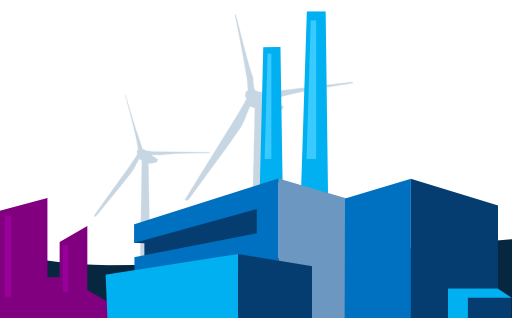
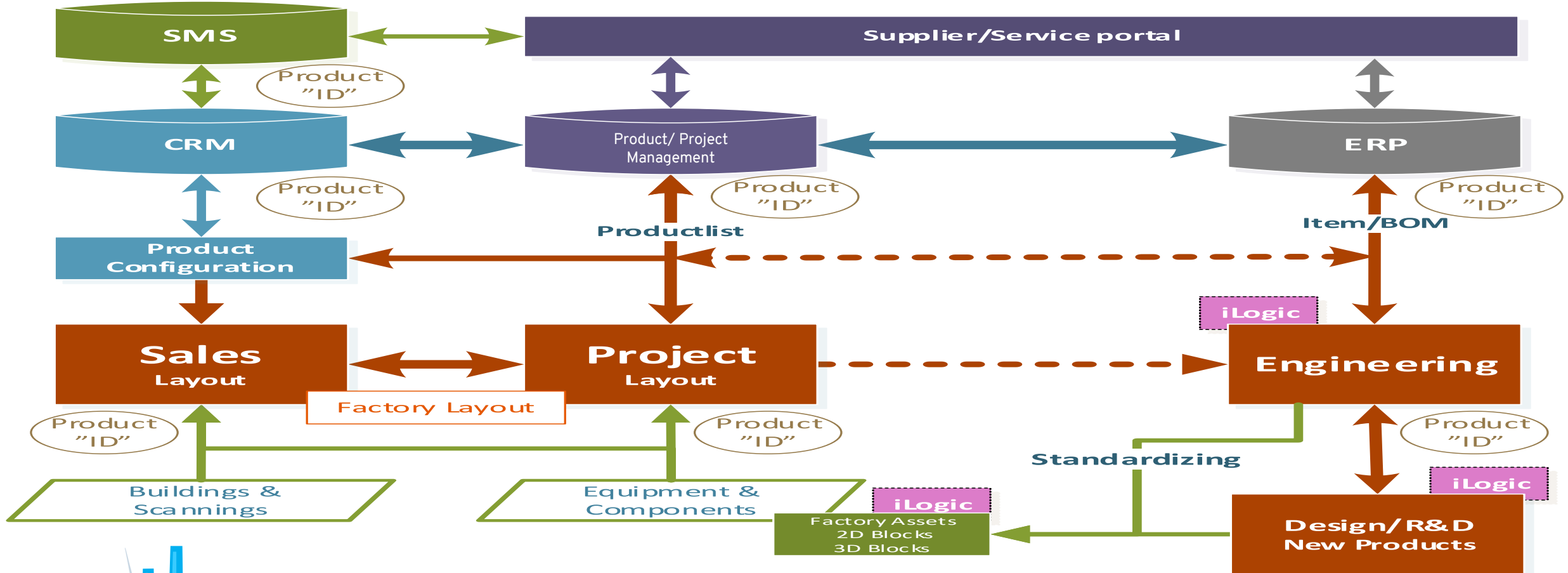


# Autodesk software platform

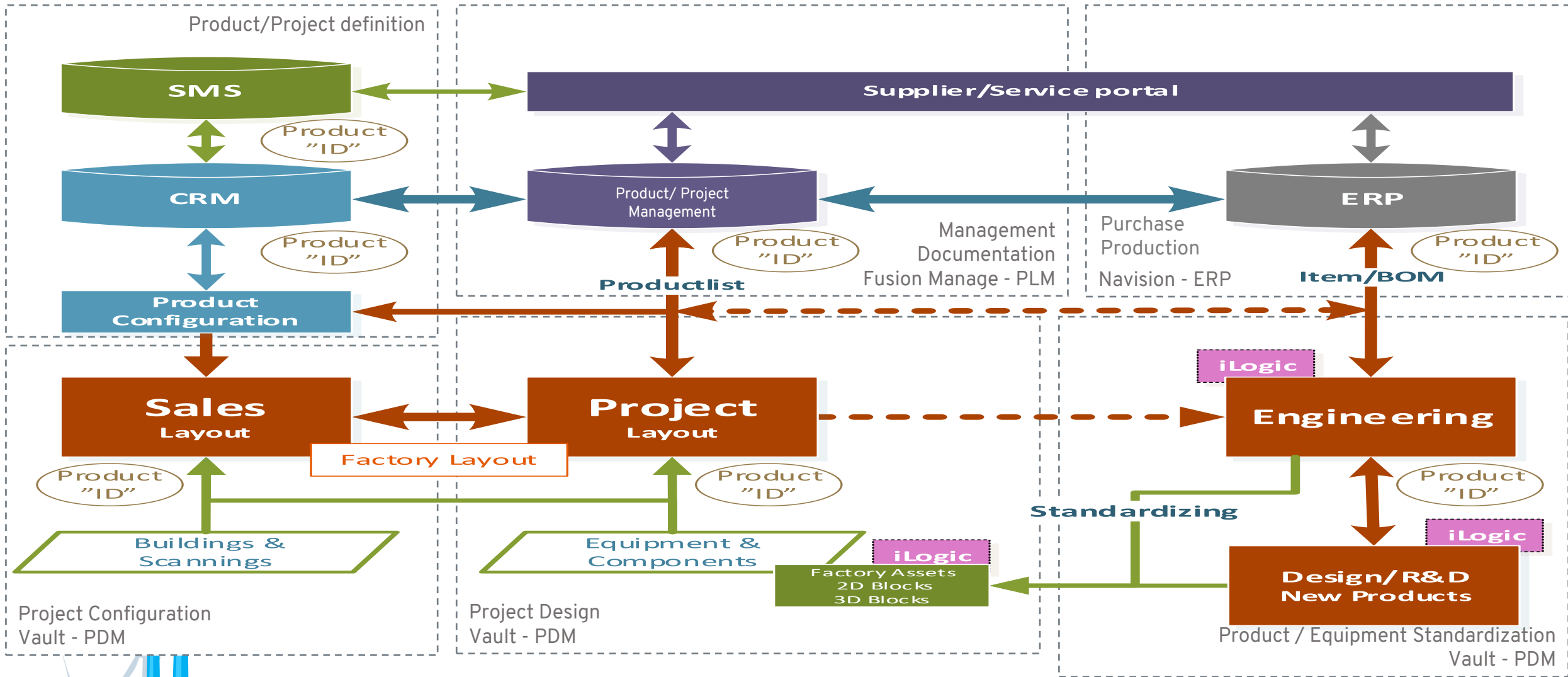
Sammenhæng i data, proces og den “digitale tvilling”



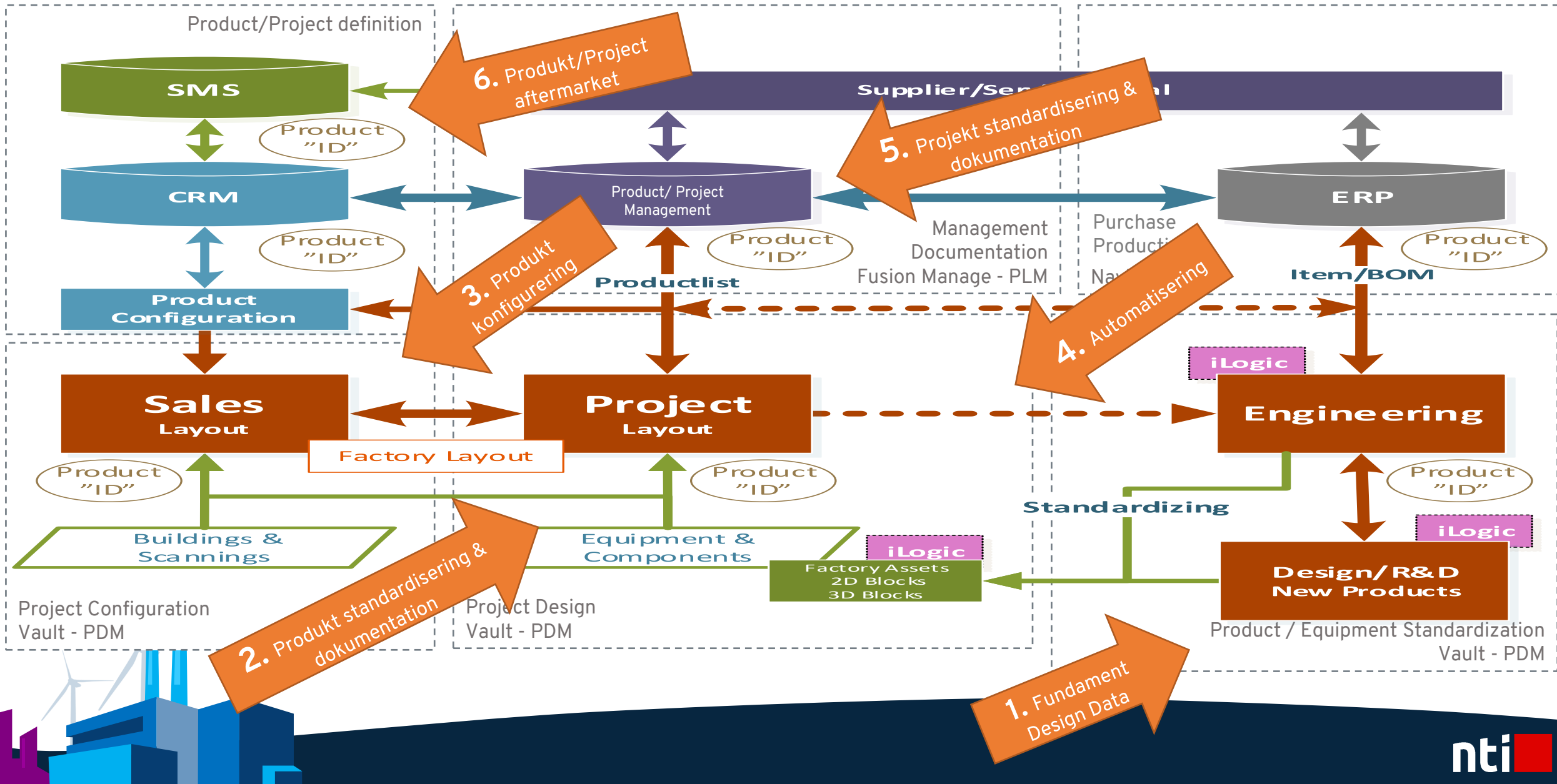
# Factory koncept – Step by step



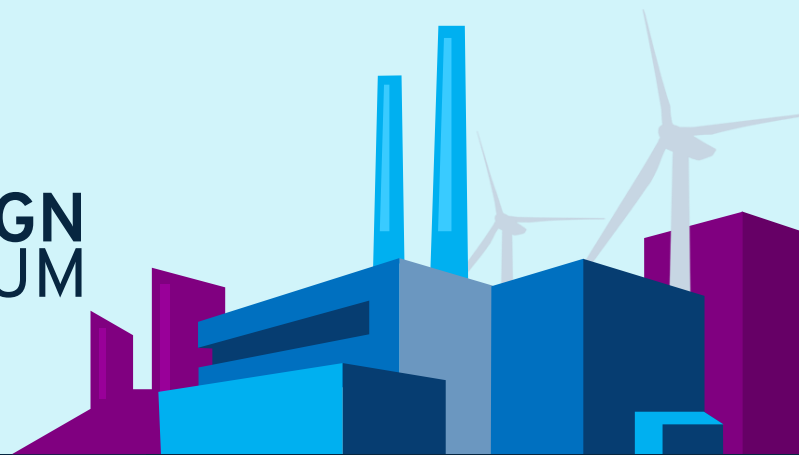
# Factory koncept – Step by step



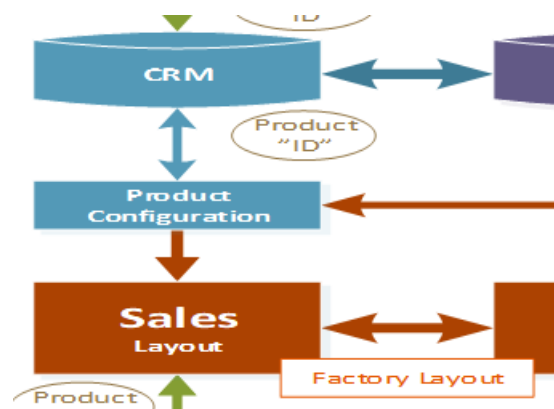
# Factory koncept – Step by step





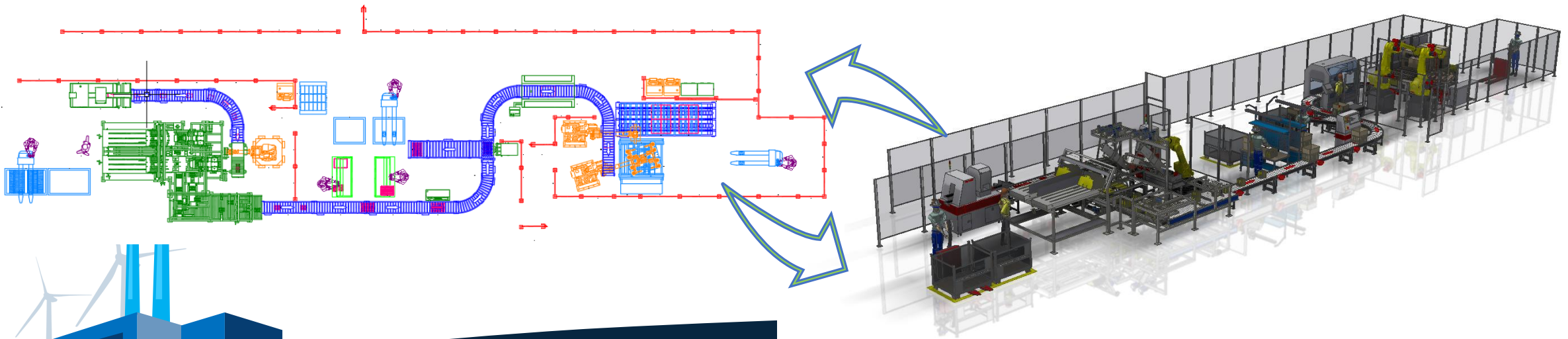
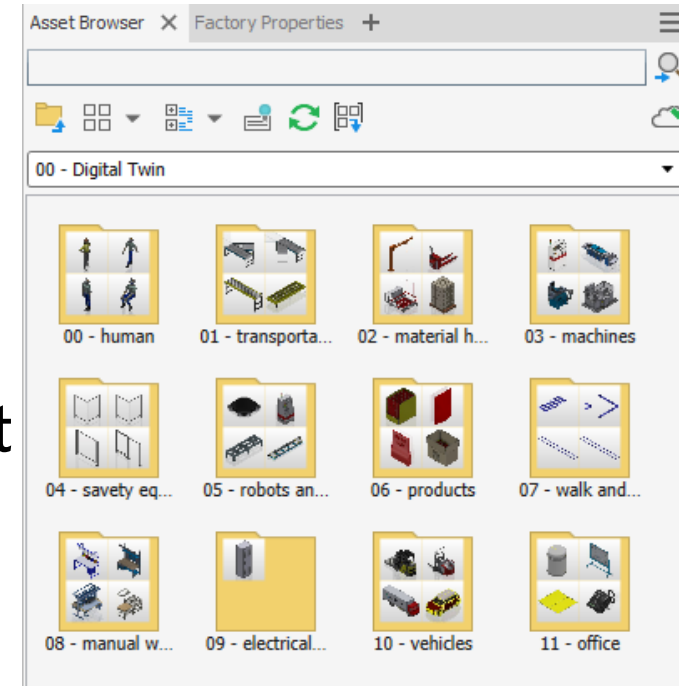


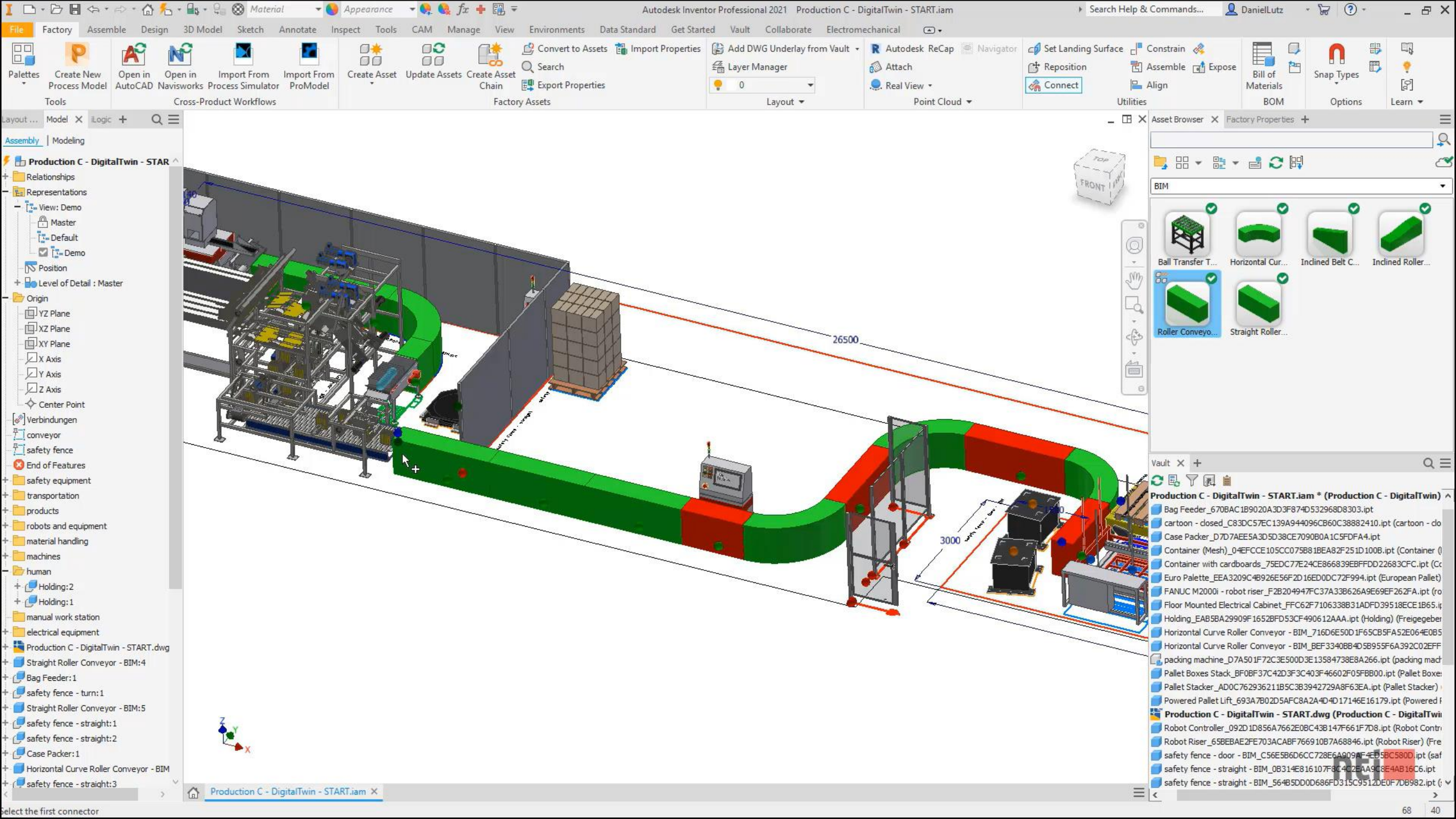
# Salg og projektdefinition



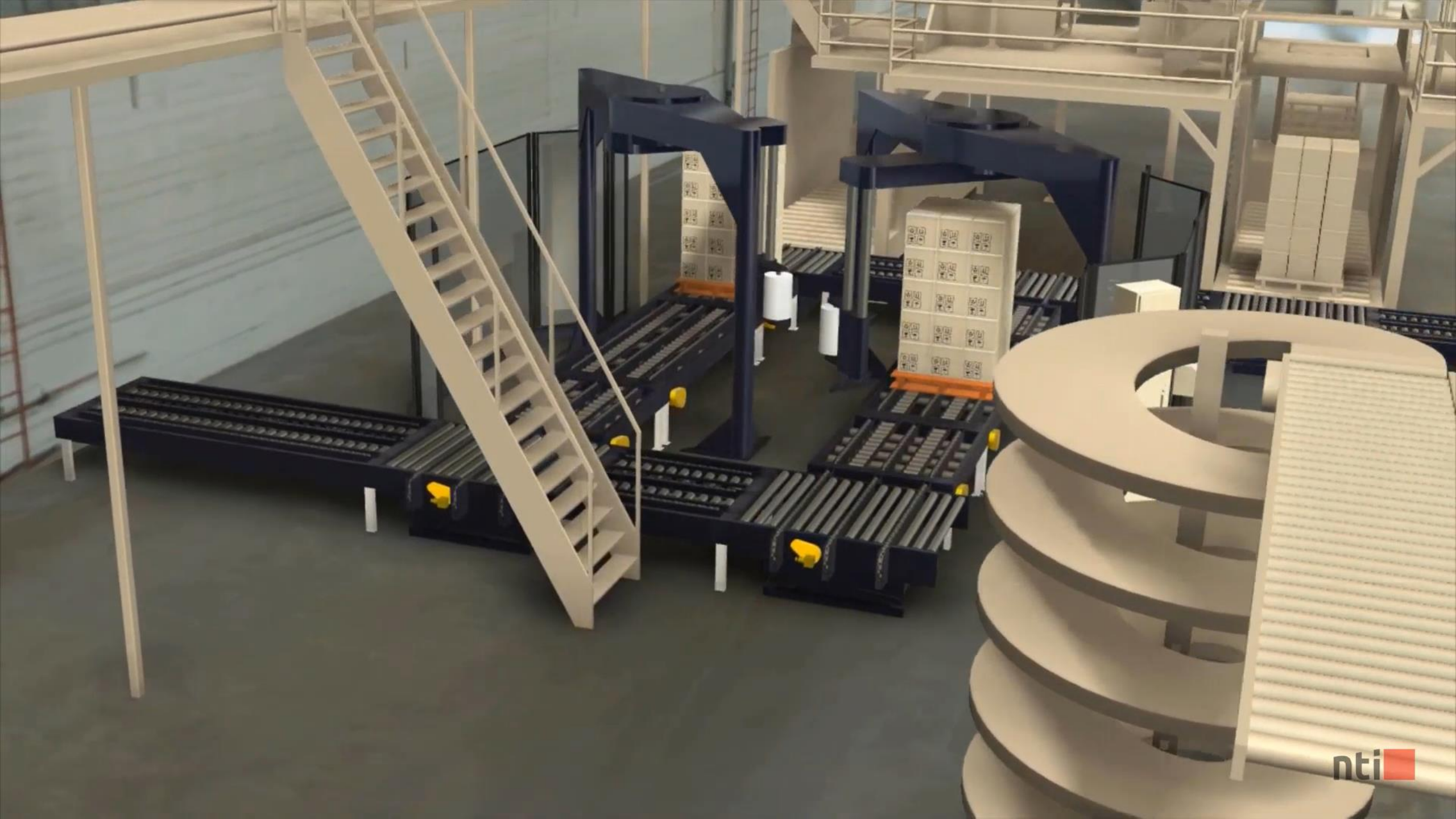
# 2D/3D tilbudslayout

- Fælles bibliotek til 2D og 3D
  - Laves ud fra 'Standard' komponenter
- 2D og 3D er altid refereret
  - Hurtige salgslayout med varianter, genbruges i projektet
- Kundemateriale i 2D og 3D
  - Hertil BOM/produktliste til pris og afklaring

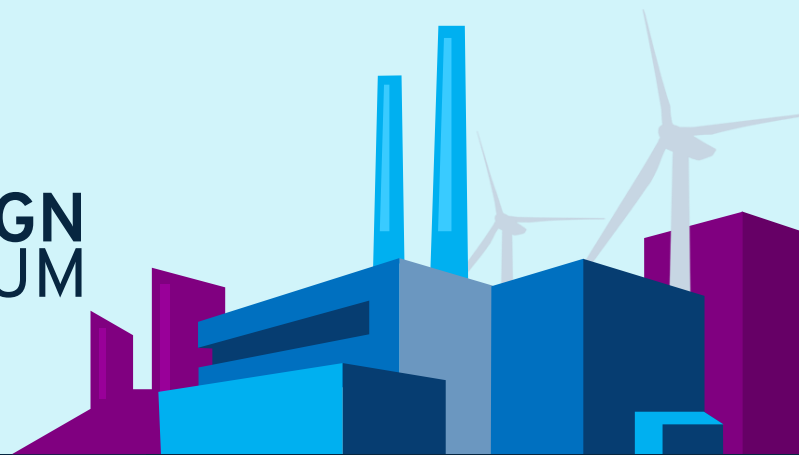






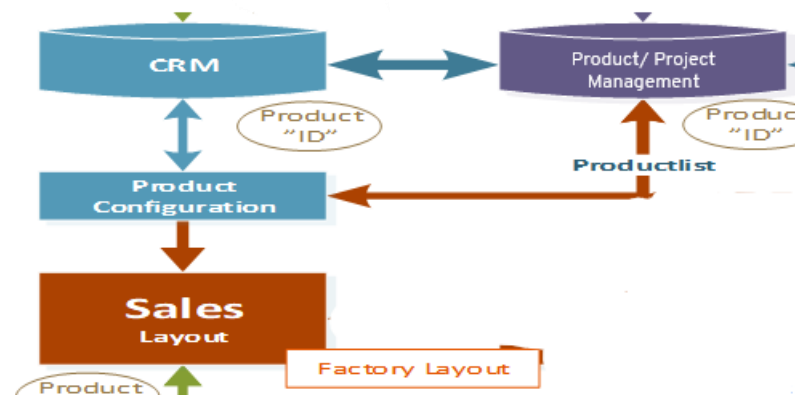






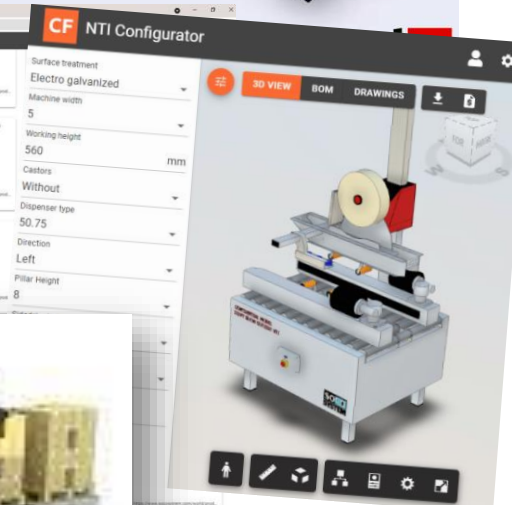
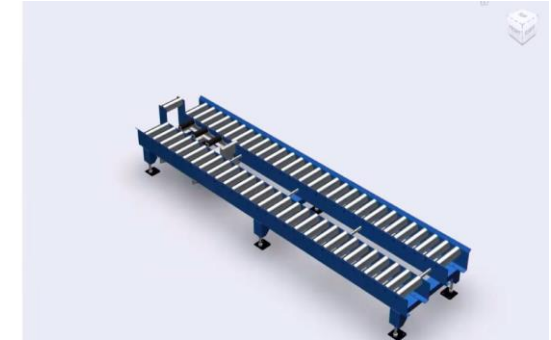
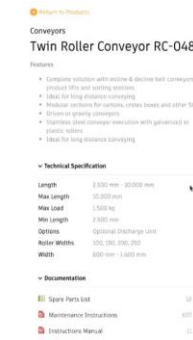
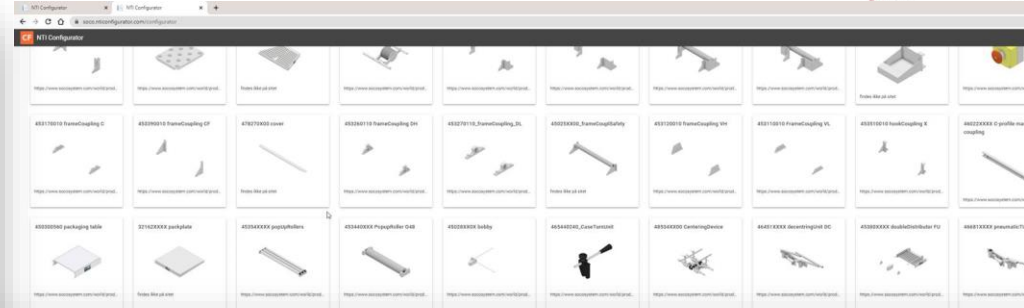
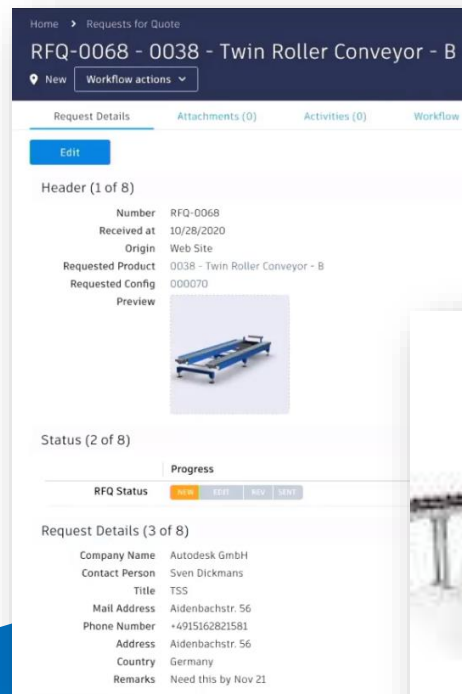
# Produkt definitioner

*Konfiguration og standardisering*



# Produktstandardisering

- PIM - Hjemmeside dokumentation og produktinformation
- Download af modeller og produktsider
- Produkt konfiguration Web og systemintegration
- RFQ til salgsafdelingen



## Packaging Product Lines

As market leader, we offer products to address various needs. Browse our portfolio to improve your company's success.

[Return to Industries](#)



AUTOMATION



PALLETIZERS



PACKAGING MACHINES



CONVEYORS

### Contact

[Sales](#)  
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## Conveyors

## Twin Roller Conveyor RC-048

Width  1000Length  3000Roller Width ☐ 100 ☐ 150 ☐ 200 ☒ 250Type ☐ Straight ☒ Discharge[< Return](#)[Reset](#)[Update Design](#)[Request Quote](#)

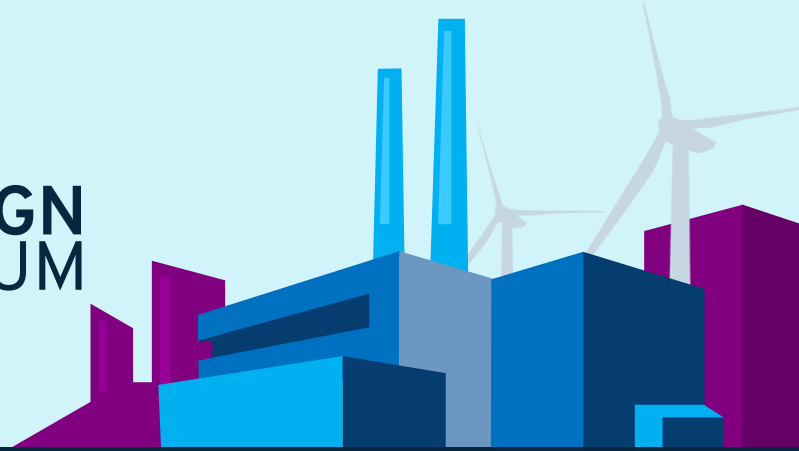
## Quote Request

Name Title Mail Address Phone Number Address Country 

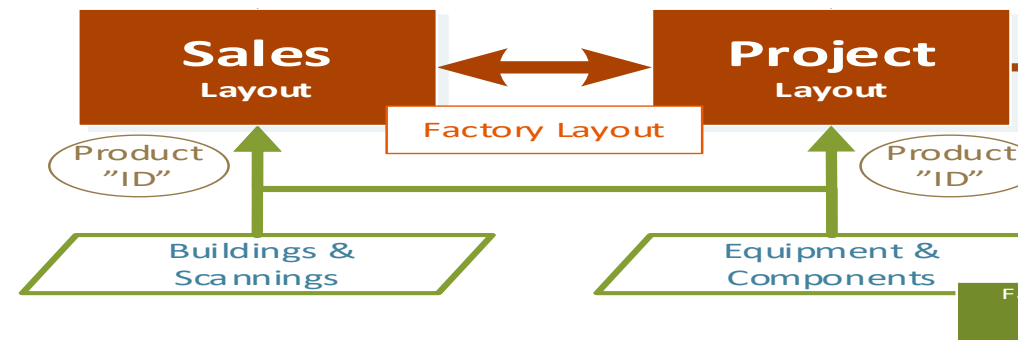
## Additional Information

Remarks Attachments ☒ I consent to be contacted by mail and phone as part of this request by Autodesk[Cancel](#)[Send Request](#)



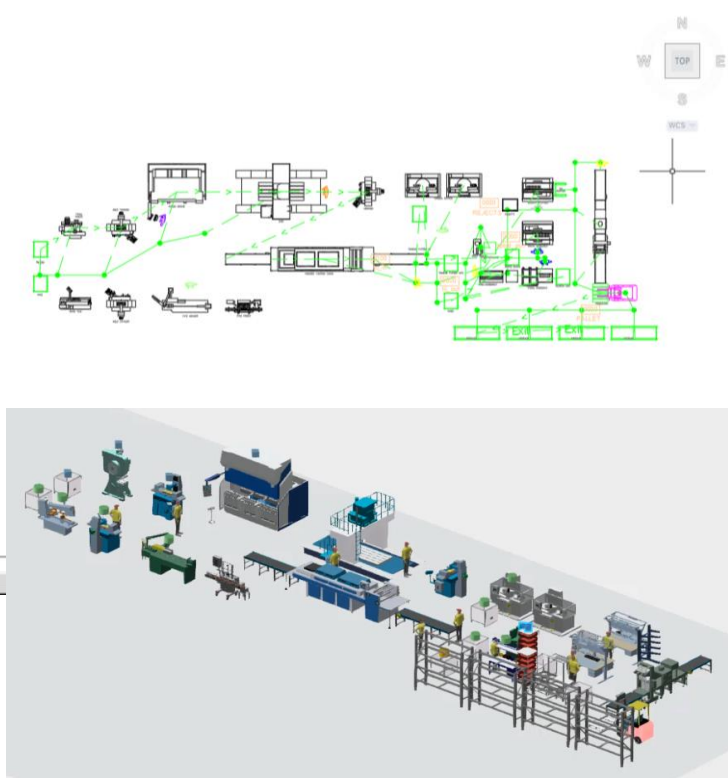
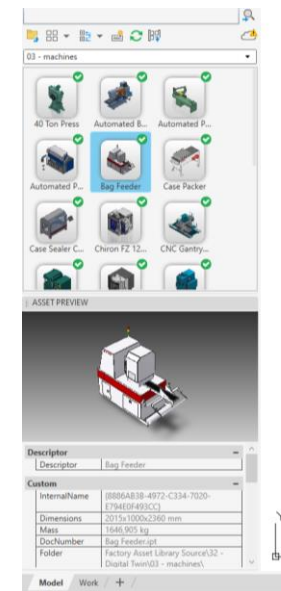
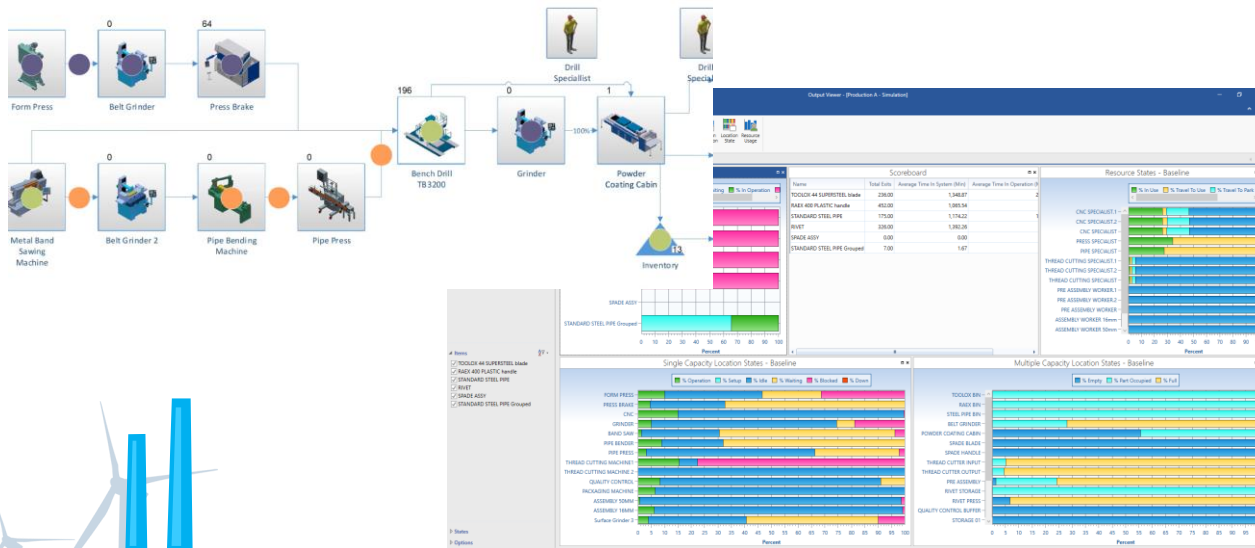


# Layout og proces simulering



# Optimér layout og produktvalg

- Maximér & optimér proces og udstyr
- Minimér gennemløbstid i den digitale design tvilling
- Overblik i 2D, 3D og rapport
- Bruger samme produktkatalog som layout



Factory Home Insert Annotate Render View Manage Add-ins Collaborate Vision Tools Express Tools Featured Apps Vault ProModel

Add Process Flow Simulation Browser Simulation Properties Model Elements  
 Modeling

Simulate Simulation Options Scenario Manager Output Viewer Open In ProModel  
 Simulation

Find Replace Calendar Editor  
 Tools

Packaging Options Online Help Demo Models About  
 Learn

Start Production A - Simulation - 02\* x

[-]Top][2D Wireframe]

**SIMULATION BROWSER**

- flow\_01
  - Bin\_8
  - \_40\_Ton\_Press\_1
  - \_40\_Ton\_Press\_1
  - Surface\_Grinder\_1
  - Automated\_Press\_Brake\_1
  - Automated\_Press\_Brake\_1
  - CNC\_Gantry\_Bridge\_Type\_Milling\_And\_Drilling\_Machine\_1
  - CNC\_Gantry\_Bridge\_Type\_Milling\_And\_Drilling\_Machine\_1
  - Surface\_Grinder\_2
  - Surface\_Grinder\_2
  - powder\_coating\_start
  - powder\_coating\_start
  - UV\_Coating\_Machine\_1
  - UV\_Coating\_Machine\_1
  - powder\_coating\_end
  - powder\_coating\_end
  - Bin\_81
  - Bin\_81

**SIMULATION PROPERTIES**

ROUTE | LOGIC

Flow: flow\_01

Source: powder\_coating\_end

Destination: Bin\_81

Move Time: 1 Min

New Name:

Quantity: 1

Type: First Available

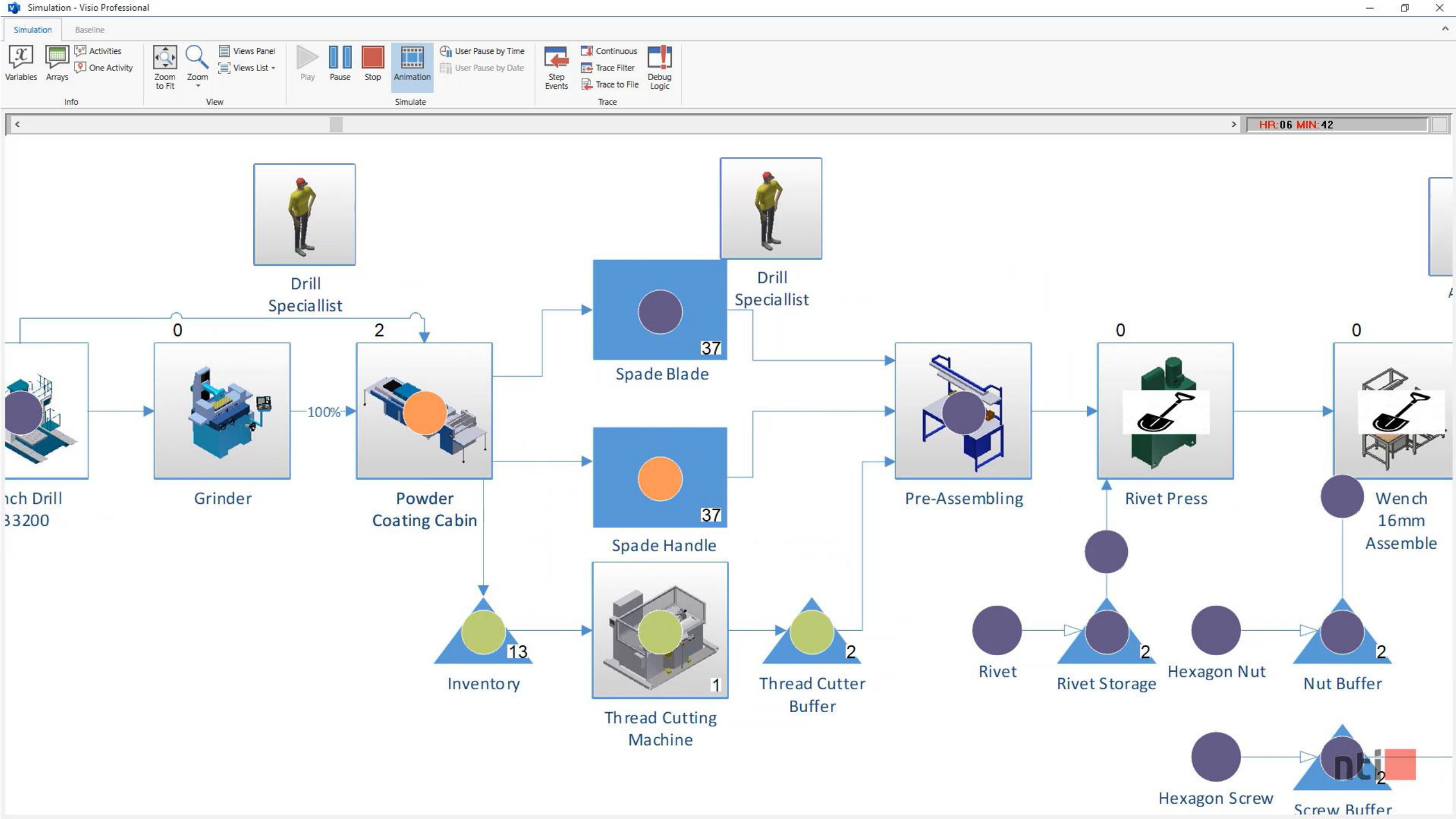
Resource

Route added from UV\_Coating\_Machine\_1 to powder\_coating\_end  
 Select the next location in the flow [Branch/Exit]: Location doesn't exist. Creating Location Bin 81.  
 Route added from powder\_coating\_end to Bin 81

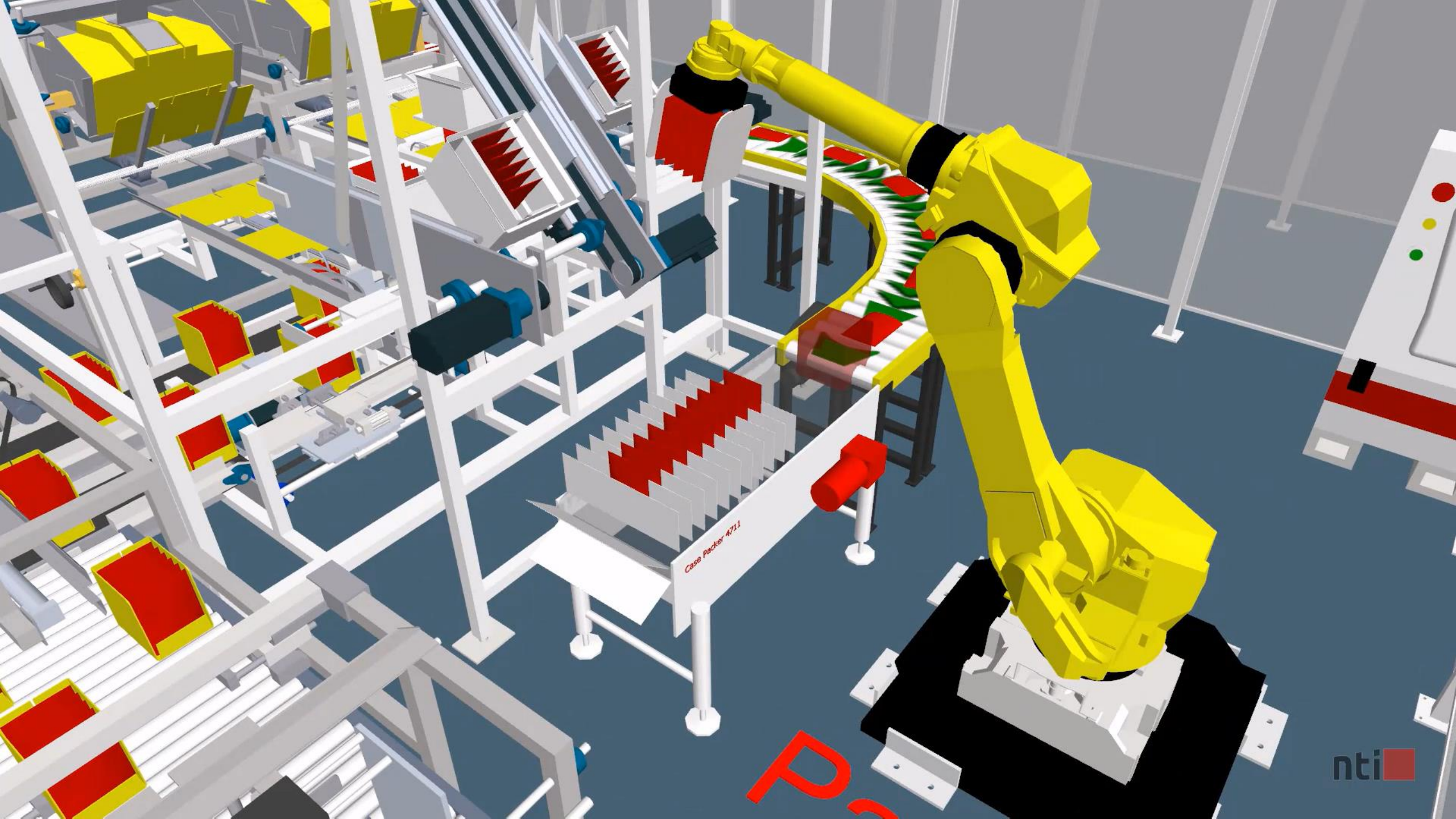
PMFLOW Select the next location in the flow [Branch Exit]:

Model Work

37061.5, 22298.9, 0.0 MODEL # 1:100 Medium Detail 1400.0 +0.0



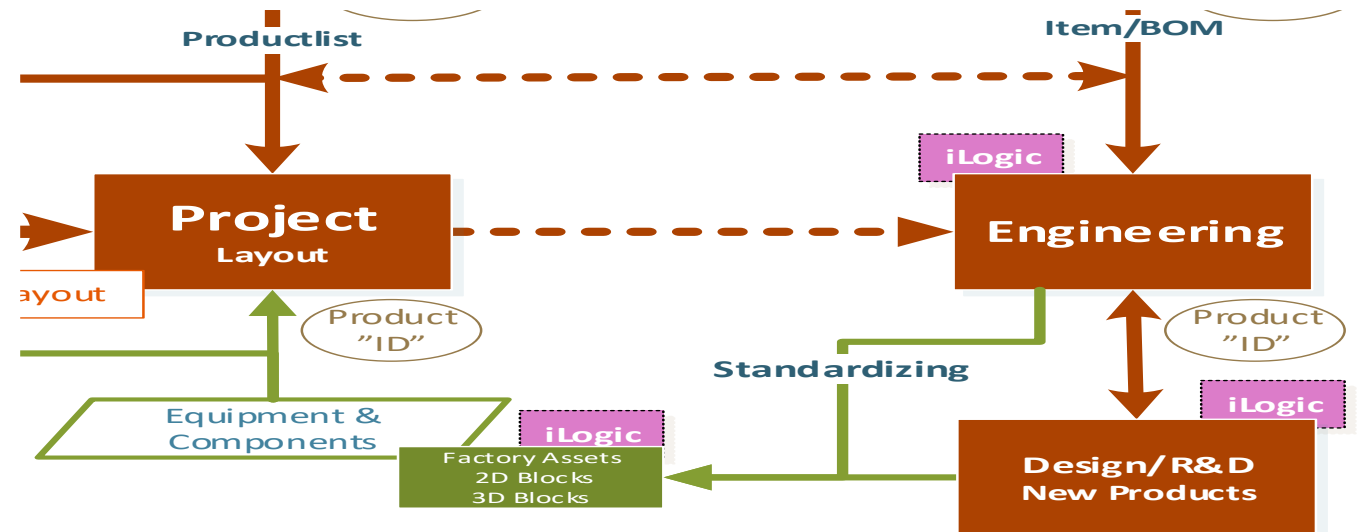




Case Packer 4711

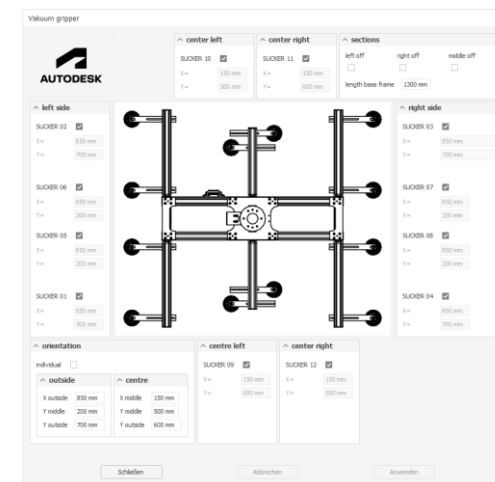
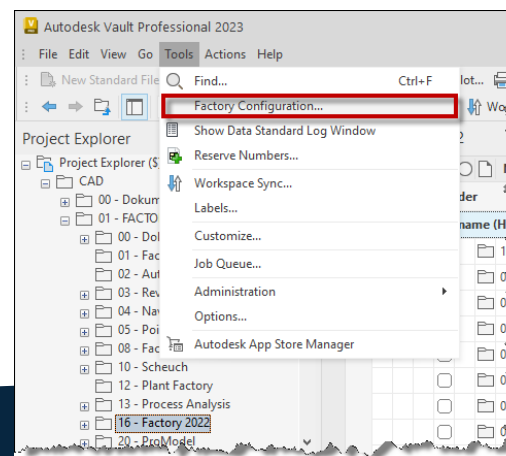
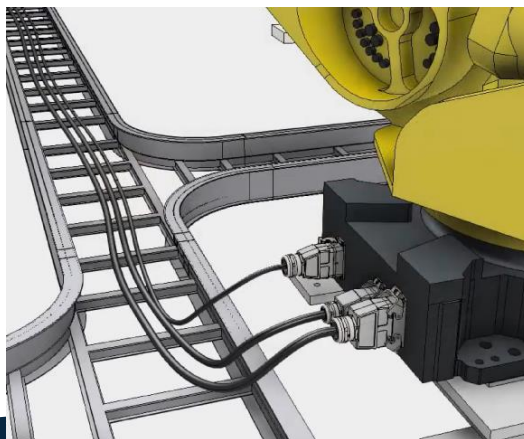
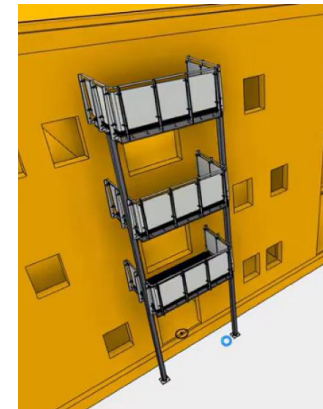
P

# Engineering



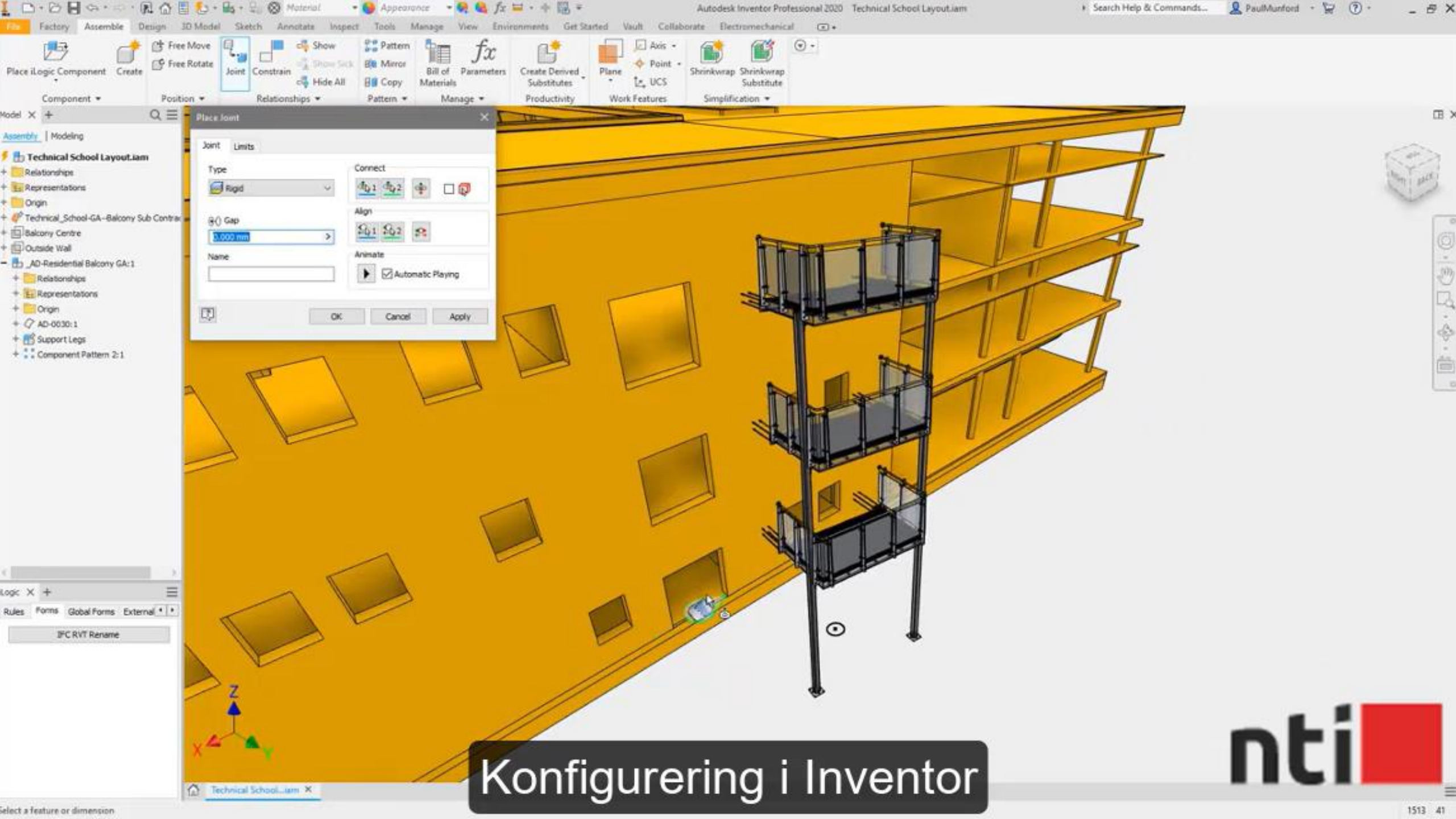
# Tilpasning af projekt og projekt forædling

- Indlæsning af anyCAD modeller
  - for tilpasning i bl.a. bygninger, scanning, 3. part leverandører, osv...
- Håndtering af projektprocessen
  - Flere steps , salg, projekt, komponent, styring, som produceret. i service osv...
- Layout håndtering og tilpasning
  - Produkter, kopi, Vault setup ....
- Automatisk frigivelse og produktionsmateriale



Konfiguration af  
assembly med ilogic

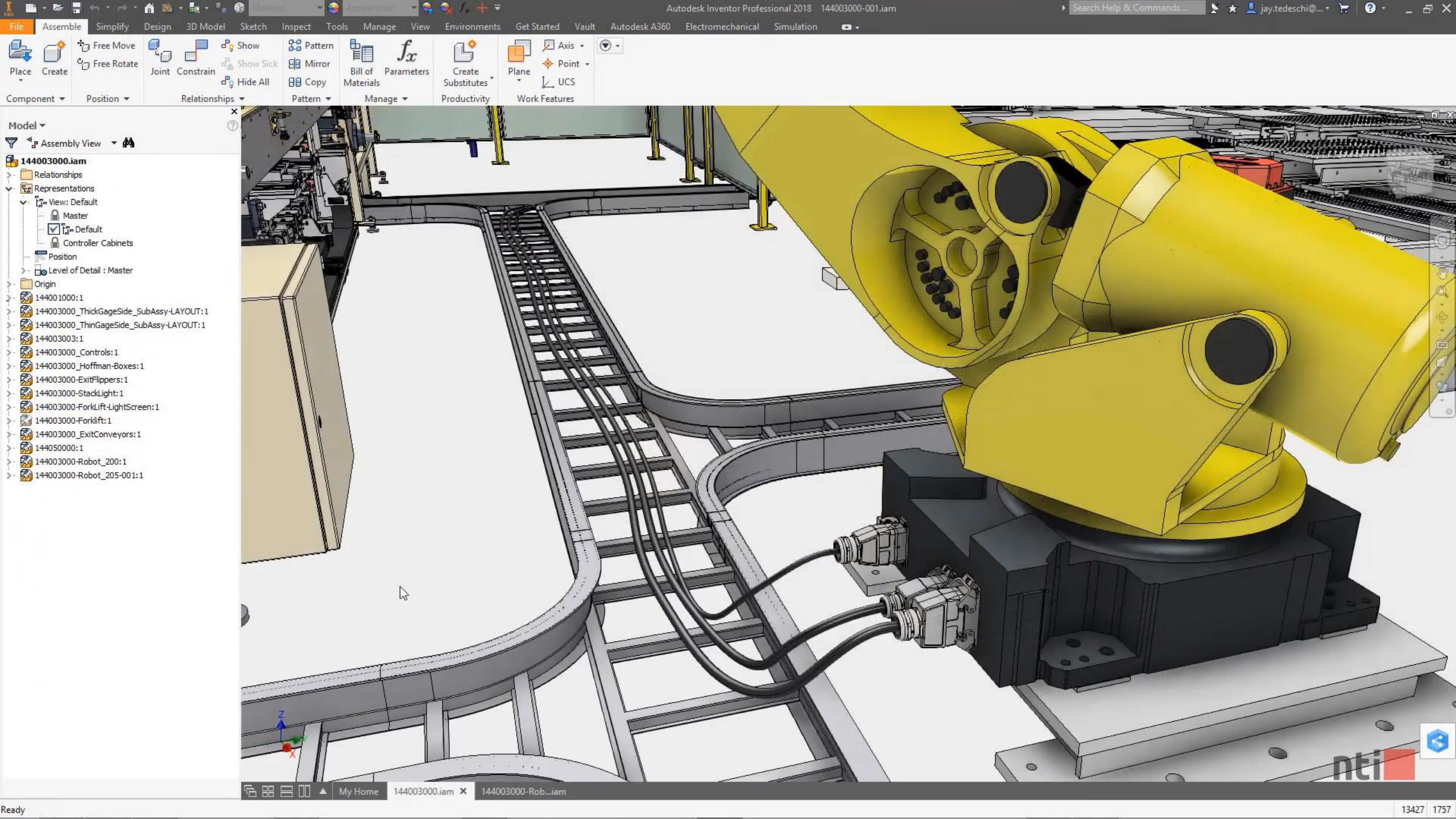


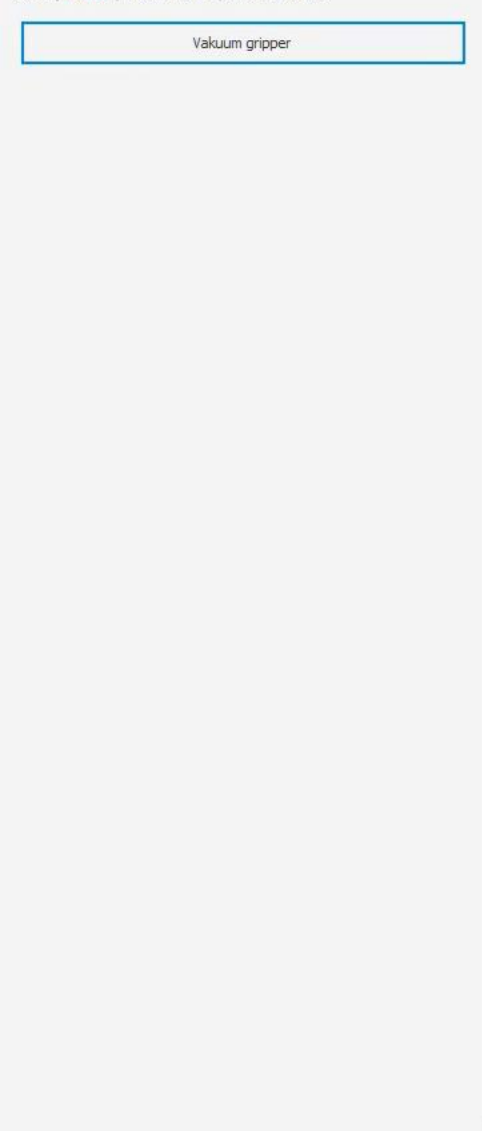


Konfigurering i Inventor









### Vakuumpgripper

**center left**

SUCKER 10 ☒

X= 150 mm

Y= 500 mm

**center right**

SUCKER 11 ☒

X= 150 mm

Y= 600 mm

**sections**

left off ☐ right off ☐ middle off ☐

length base frame 1300 mm

**left side**

SUCKER 02 ☒

X= 850 mm

Y= 700 mm

SUCKER 06 ☒

X= 850 mm

Y= 200 mm

SUCKER 05 ☒

X= 850 mm

Y= 200 mm

SUCKER 01 ☒

X= 850 mm

Y= 700 mm

**right side**

SUCKER 03 ☒

X= 850 mm

Y= 700 mm

SUCKER 07 ☒

X= 850 mm

Y= 200 mm

SUCKER 08 ☒

X= 850 mm

Y= 200 mm

SUCKER 04 ☒

X= 850 mm

Y= 700 mm

**orientation**

individual ☐

**outside**

X outside 850 mm

Y middle 200 mm

Y outside 700 mm

**centre**

X middle 150 mm

Y middle 500 mm

Y outside 600 mm

**centre left**

SUCKER 09 ☒

X= 150 mm

Y= 600 mm

**center right**

SUCKER 12 ☒

X= 150 mm

Y= 500 mm

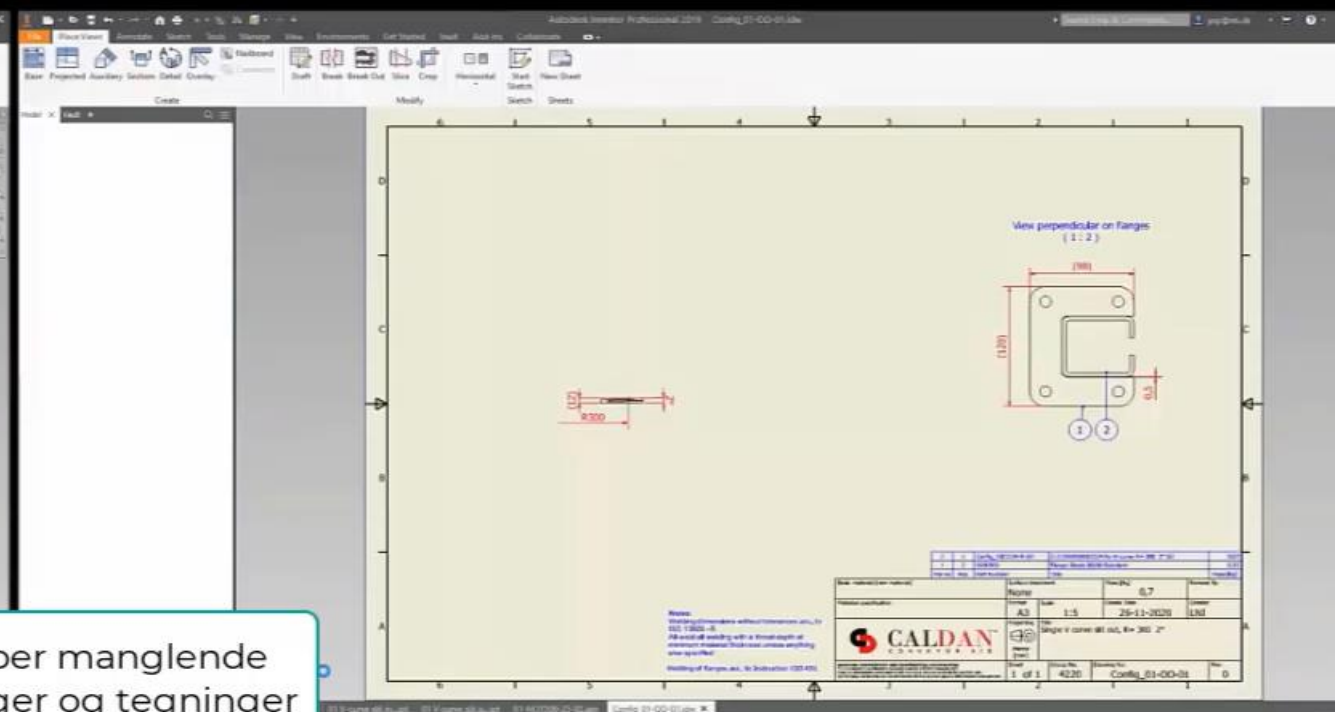
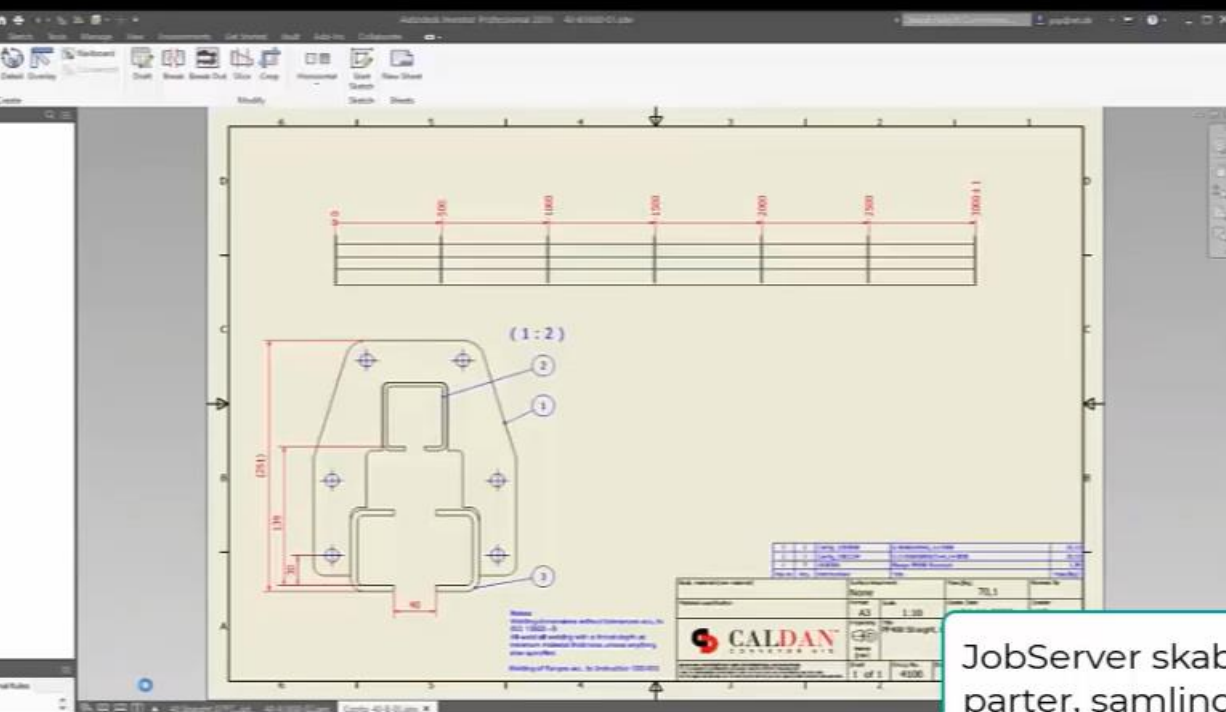
Close

Cancel

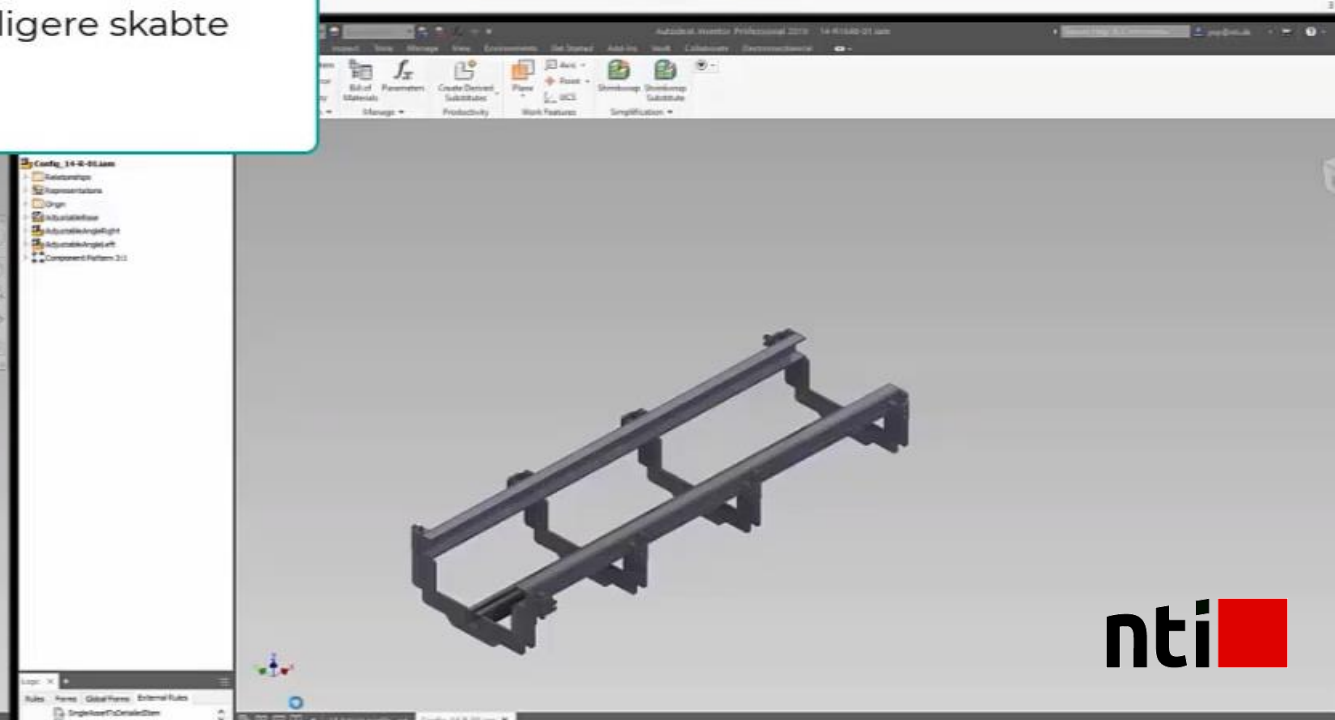
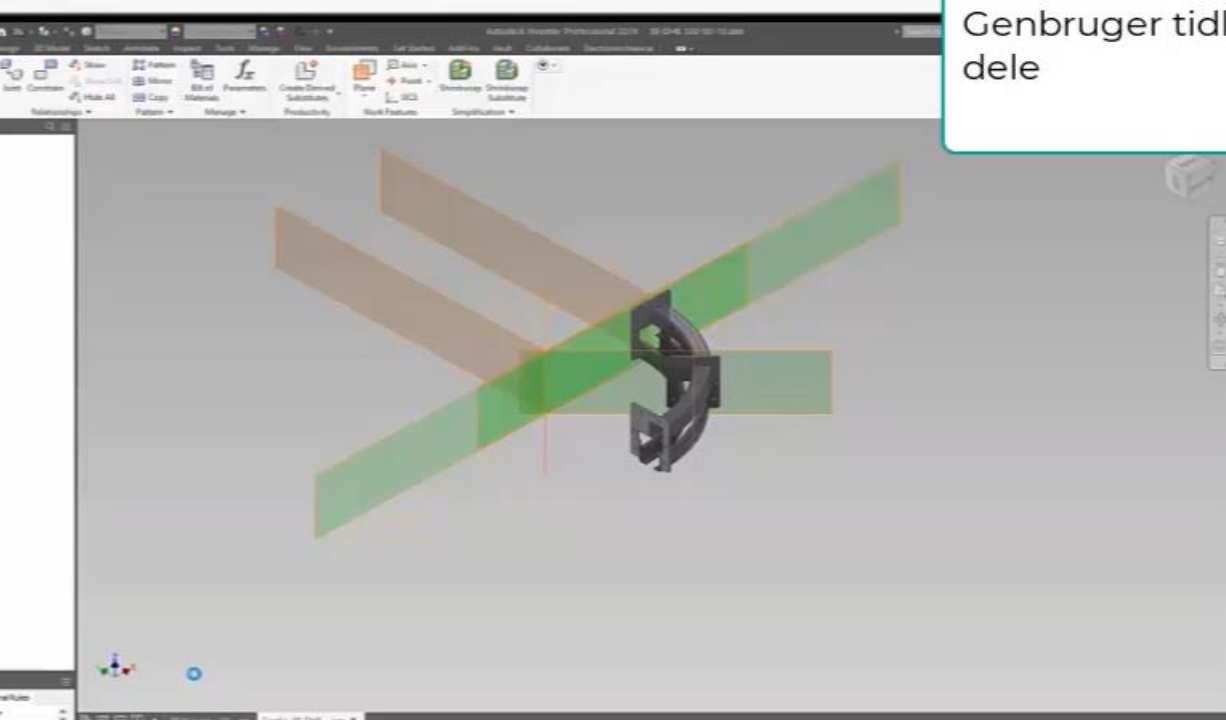
Apply

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tung) (-)  
VgPb) (In Bearbe-  
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DC05) (In Bearbe-  
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st) (In Bearbeitung  
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i. 1645 AlCuMgPb)  
x 60) (3.1645 A  
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raube mit Innense  
Zylinderstift mit Lin  
linderstift mit Linse

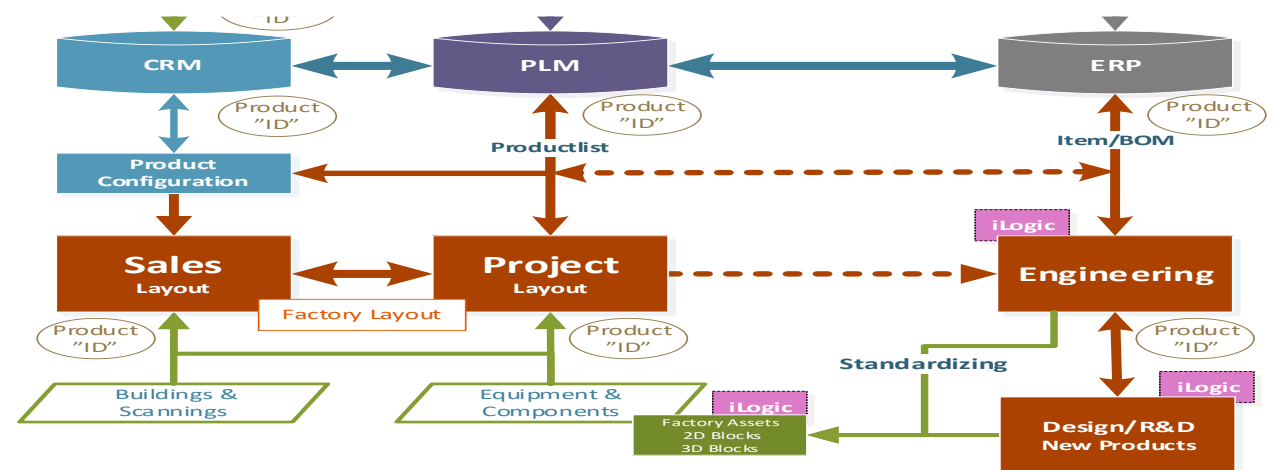




JobServer skaber manglende  
parter, samlinger og tegninger  
Genbruger tidligere skabte  
dele



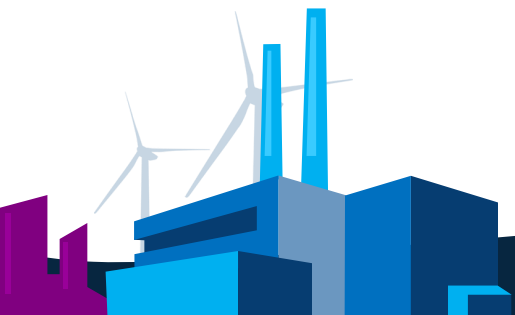
# Review og data deling





# Data deling og validering

- Share og Review design data
  - **Vault Share View** med kunder og samarbejdspartnere
- Del dine design data via **Vault App**
  - Til produktion eller andre indenfor firewall
- Del via Fusion Team
  - Realtid, til f.eks. møder eller afklaring af montage, service, andet ....
- **Del via proces**, f.eks. via frigivelse
  - Jobserver laver kontrolleret output til shares, f.eks. One-drive
  - Kan være til leverandør, produktion, samarbejdspartner



Autodesk Vault Professional

File Edit View Go Tools Actions Help

New Report... Plot... Find... Share View Download from Cloud Drive Upload to Cloud Drive

Default View Layout Quick Sync... Change Category... Change State... Change Revision...

### Home

Vault - paulm

- Change Order List
- Item Master
- Project Explorer (S)
- Content Center Files
- Designs
  - 2D to 3D
  - ASKA
    - ASKA iLogic Frame Generato
    - ASKA Start
    - Assemblies
    - Nests
    - parts
    - Special
  - autocad-2019-launch-demo-en
  - autocad-Vault-demo-en
  - Balzer Pacific
  - CAD Interoperability
  - Dynamic Simulation
  - Electrical System
  - Factory Assets
  - Factory Design Utilities
  - Hedge Trimmer
  - High speed switch
  - iLogic Wheel
  - Individual Part Files
  - Machine Tool
  - Mixer
  - Shape Generator
  - Sheet-metal
  - SLM Solutions
  - Technical Documentation
  - Tube And Pipe
  - Factory Assets
  - Libraries

My Worklist

- ECO-000020 (9/7/2018)
- ECO-000022 (9/11/2018)

My Shortcuts

- iLogic Wheel
- High speed switch
- Machine Tool
- \_A4501.iam

Add new group

### ASKA

Search ASKA



Name	Description	State	Revision
ASKA-0005.dwg	Drawing for Jig Assembly, Type 3.	Released	B
000-000f.iam	WELDING STATION 000	Work in Progress	A
200-352.iam	ELEVATED WELDING ROBOT	Work in Progress	A
ASKA Elevated Welding Robot Arrangement Drawing.dwg	ASKA iLogic Frame Generator General Arrangement Drawing	Work in Progress	A
ASKA-0000.sldprt	R-200iC 165G, Base	Work in Progress	A
ASKA-0001.dwg	Drawing for Jig Assembly, Type 3.	Work in Progress	E
ASKA-0002.dwg	Drawing for Jig Assembly, Type 3.	Work in Progress	B
ASKA-0003.dwg	Drawing for Jig Assembly, Type 3.	Work in Progress	B
ASKA-0004.dwg	Drawing for Jig Assembly, Type 3.	Work in Progress	B
ASKA-0006.dwg	Drawing for Jig Assembly, Type 3.	Work in Progress	B
R-200iB 165F, Base.ipt	Welding Robot Base (Native Inventor File)	Work in Progress	A
R-200iC 165F, Base.ipt	Welding Robot Base - AnyCAD File with SWX reference	Work in Progress	A

[Entity Icon] <- Folder (Folder) Edit Filter

History Uses Where Used Change Order Preview

A Work in Progress View... Update...

1 of 1



### Properties

200-352.iam

System


Category Name	Engineering
Category Name (Historical)	Engineering
Change Order State	
Checked In	9/6/2018 12:55 PM
Checked Out	9/6/2018 12:55 PM
Checked Out By	
Checked Out Local Sp...	
Checked Out Machine	
Classification	None
Comment	Change Category
Controlled By Change...	False
Created By	Administrator
Current Owner	VIRTUALSERVER\AUTOD...
Date Modified	9/5/2018 4:33 PM
Date Version Created	9/6/2018 12:55 PM
File Extension	iam
File Name	200-352.iam
File Name (Historical)	200-352.iam
File Replicated	True
File Size	7139328

### Shared Views

By: Date created

ASKA Elevated Welding Robot Arrange... ...

Created on September 11, 2018  
Expires in 30 days



18 Object(s) (1 selected)

virtualserver Vault paulm

10:10 Tue 18 Aug

15%



**Settings** Done

CONNECTION

Server

Vault

AutodeskVault

Use secure connection (https)

☐

Enter the server name and specify the Vault. This data will be saved for future connections.

Automatically log in next session


☐

If you have been logged on, the next time the login will be carried out automatically.

Read-only access

☒

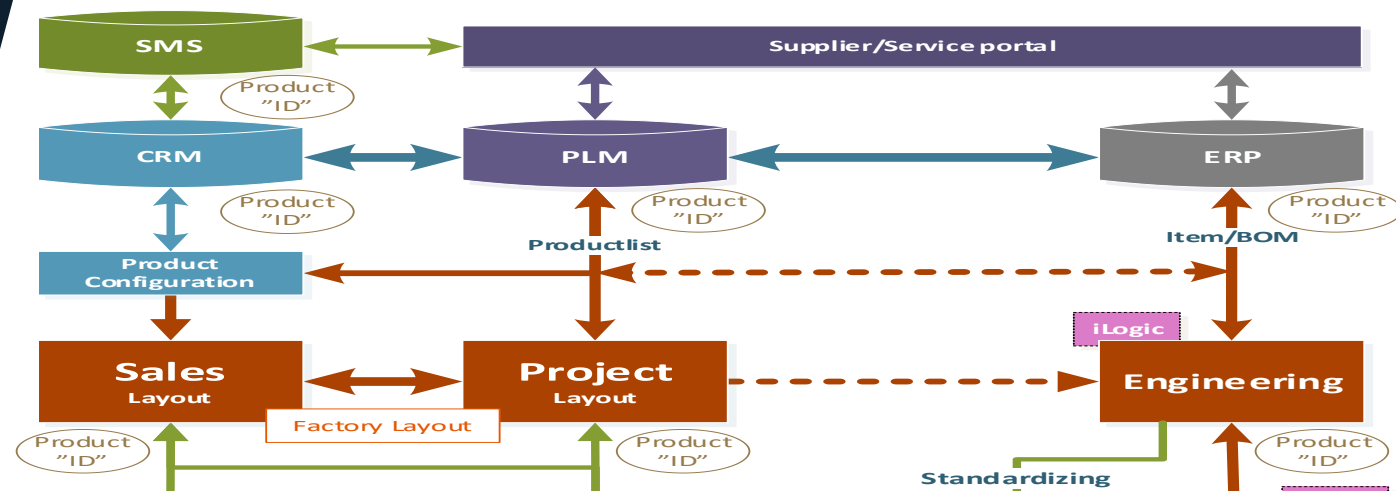
With the active option license is not required for access, but all actions with folders and files will be limited.

 AUTODESK.

nti

# Samlet projekt dokumentation

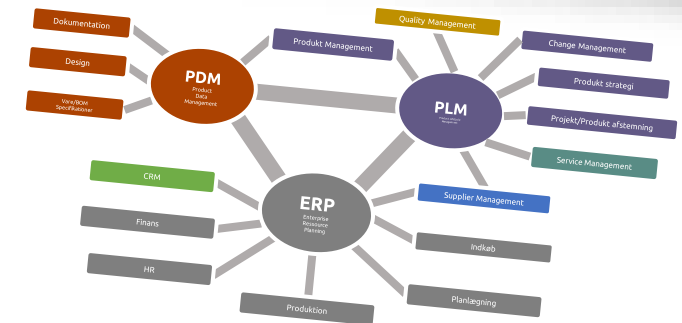
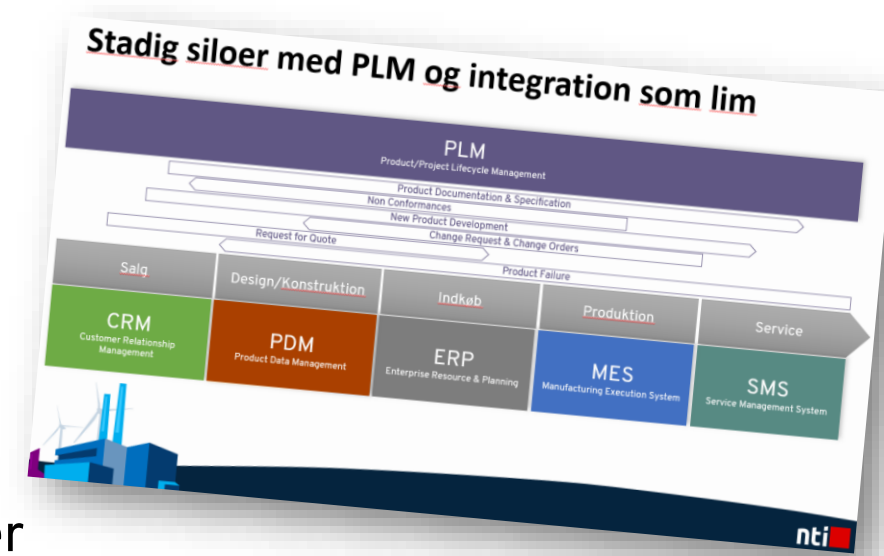
*Integration, overblik og samlet afklaring og styring, er kernen i øget effektivitet og kvalitet i projektet*





# PLM samler data og projekt overblik

- Standard forms og skabeloner med og uden godkendelse
  - Let at tilpasse og bruge
- Projekt og opgaveskabeloner med gates
- Håndtering af produktinformation i hierarkisk BOM
  - Med klassifikation og kombination(mekanisk, el, hydraulik, software ...)
- Data relationer mellem opgaver, personer og produkt
  - Med sporbarhed på alle relationer og actions
- Data-, proces- og system-**integration** med forretningssystemer
  - ERP, PDM, CAD, CRM, **Excel**, Configuration, Cloudshare ...
- Dashboard og rapporteringsfunktioner
- Global brugerstyring med rettighedskontrol



FileEditViewGoToolsActionsHelp

ToolBarsListViewDetailsRenameShow Data Standard Log WindowNew Standard FileEdit File DatasheetShare ViewDownload from Cloud DriveUpload to Cloud Drive

Default ViewQuick SyncWorkspace SyncView Properties GridChange CategoryChange StateChange Revision

HomeSub AssembliesSearch Sub Assemblies

Content Center Files

Designs

AutoCAD E Sample Dat

AutoCAD M Sample Da

CAD Admins ONLY

Factory Asset Library

Factory Asset Library Sc

FDU Tutorial

FLC Products

Imported Data

Inventor Sample Data

Boxermotor

Car Seat

Ember

Fishing Rod Model

Inventor CAM

Inventor TolAnalysi

Jet Engine Model

Models

RCCF

00 standard con

01 supplier com

Parts

Sub Assemblies

Trial Sample Data

P-00000

P-00001

P-00003

P-00014

P-00022

P-00023

P-00024

P-00025

P-00026

P-00027

SR-0001

SR-0002

SR-0003

SR-0004

SR-0005

SR-0006

Standard

Libraries

My Shortcuts

2019-01-002-0002 Clutch Assembly.i

Add new group

File

Name	Part Number	State	Revision	Visualization Attachment
2019-01-002-0002 Clutch Assembly.iam	Clutch Assembly	Work in Progress	A	System
2019-01-002-0003 Clutch Housing.iam	Clutch Housing	Work in Progress	A	System
2019-01-002-0004 Clutch Internals.iam	Clutch Internals	Work in Progress	A	System
2019-01-003-0002 UPPER BEARING BLOCK.iam	UPPER BEARING BLOCK	Work in Progress	A	System
2019-01-003-0003 TROWEL WELDMENT.iam	CF101-TW1	Work in Progress	A	System
2019-01-003-0004 SPROCKET WELDMENT.iam	CF101-SPKT-W	Work in Progress	A	System
CF101-CARRIER.iam	CF101-CARRIER	Work in Progress	A	System
CF101-CVR.iam	CF101-CVR	Work in Progress	A	System
CF101-DCDC-WH.iam	CF101-DCDC-WH	Work in Progress	A	System
CF101-DRVSHAFT.iam	CF101-DRVSHAFT	Work in Progress	A	System
CF101-HRMTR.iam	CF101-HRMTR	Work in Progress	A	System
CF101-HS-322.iam	CF101-HS-322	Work in Progress	A	System
CF101-LATCH.iam	CF101-LATCH	Work in Progress	A	System
CF101-LBB-LH.iam	CF101-LBB-LH	Work in Progress	A	System
CF101-LBB-LH-WLD.iam	CF101-LBB-LH-WLD	Work in Progress	A	System
CF101-LBB-RH.iam	CF101-LBB-RH	Work in Progress	A	System
CF101-LBB-RH-WLD.iam	CF101-LBB-RH-WLD	Work in Progress	A	System
CF101-SA-L.iam	CF101-SA-L	Work in Progress	A	System
CF101-SA-R.iam	CF101-SA-R	Work in Progress	A	System

HistoryUsesWhere UsedPreviewCAD BOMDatasheetvaultFLC Administration

LatestWork in Progress

File Name	Part Number	Revision	State (Historical)	Created By	Checked In	Comment	Visualizatio
2019-01-002-0002 Clutch Assembly.iam	Clutch Assembly	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000116.ipt	BRONZE BEARING	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
2019-01-002-0003 Clutch Housing.iam	Clutch Housing	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000065.ipt	Clutch Housing	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000067.ipt	Clutch Bushing	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
2019-01-002-0004 Clutch Internals.iam	Clutch Internals	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000025.ipt	Spring Pin	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000062.ipt	Clutch Spring	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000063.ipt	Clutch Outer	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000064.ipt	Clutch Keeper	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000066.ipt	Clutch Center	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System
0000068.ipt	Clutch Block	A	Work in Progress	schanenb	7/30/2019 2:42 ...	Autoloader upload to...	System

Properties

2019-01-002-0002 Clutch Ass...

System

Category Name	Assembly
Category Name (...)	Assembly
Change Order State	
Checked In	7/30/2019 2:42 PM
Checked Out	
Checked Out By	
Checked Out Loc...	
Checked Out Mac...	
Classification	None
Comment	Autoloader upload to ...
Controlled By Cha...	False
Created By	schanenb
Current Owner	ECS-BF39F5C9/AUTO...
Date Modified	7/30/2019 2:33 PM
Date Version Crea...	7/30/2019 2:42 PM
File Extension	iam
File Name	2019-01-002-0002 Clut...
File Name (Histori...	2019-01-002-0002 Clut...
File Replicated	True
File Size	438784
Has Drawing	False
Hidden	False
illogicRuleStatus	
Initial Approver	
Initial Release Date	
Item Assignable	True
Latest Released Re...	False
Latest Version	True
Leased Until	7/30/2019 2:42 PM
Lifecycle Definition	PLM Release Process
Lifecycle Definitio...	PLM Release Process
Linked to Item	False
Name	2019-01-002-0002 Clut...
Number of Attach...	0
Obsolete	False
Original Create Da...	7/30/2019 2:42 PM
Originator	schanenb
Property Complia...	Compliant
Property Complia...	Compliant
Provider	Inventor
Released Revision	False
Revision	A
Revision Scheme	Standard Alphabetic F...
Revision Scheme (...)	Standard Alphabetic F...
State	Work in Progress
State (Historical)	Work in Progress
Version	1

Shared Views

By: Date created

\_Car Seats.collaboration

Created on October 22, 2019

Expires in 15 days

2 comments

24 Object(s) (1 selected)

10.50.92.46 PDMC-Sample schanenb



Home &gt; Products

## EM-4001 - Assembly Process Machine, Die Cutting, 2-location Turn...



Kickoff

Workflow actions ▾

Item Details

Bill of Materials (12)

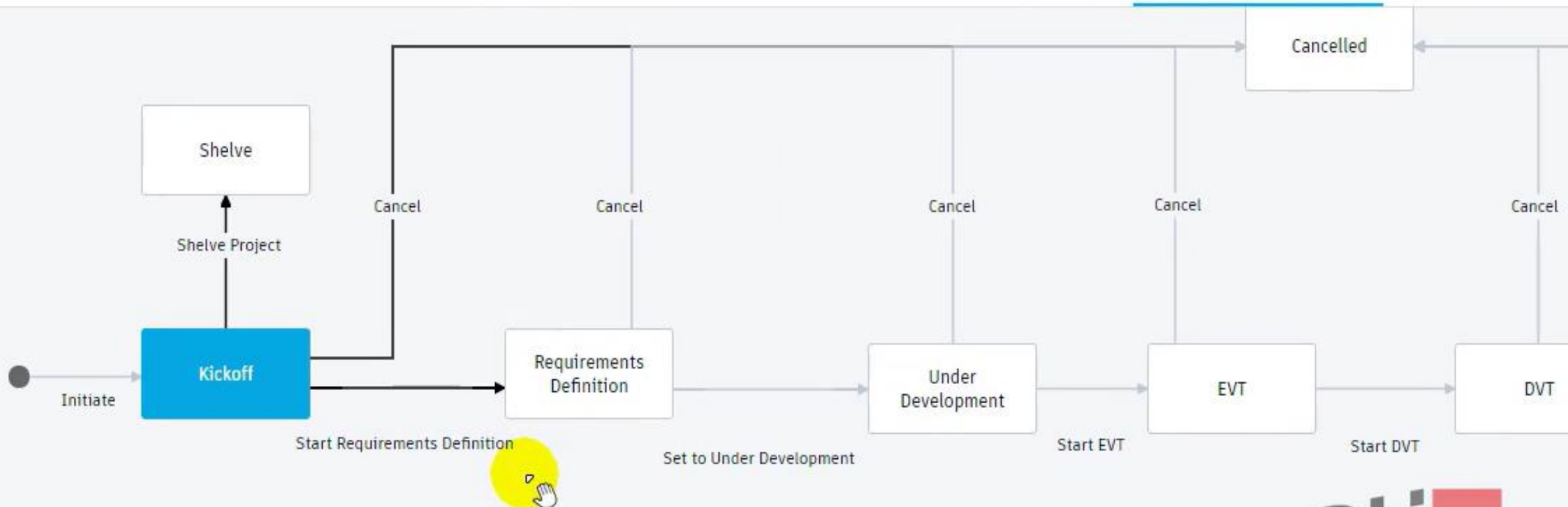
Project Schedule (2)

Relationships (3)

Milestones (8)

Workflow Actions

More +



nti





# Mekatronik - varer og styklister

Home > Items and BOMs

## 001-ASY-0001 - EMBER Printer [REV:B]

Locked 04/06/2022 Production

Item Files (0 | 2) Bill of Materials (15) Where Used (2) Critical Components (15) Related Changes (3) Relationships (0) Change Log

Edit Add Remove

Views: Basic

Basic as of Today using the Released Revisions configuration

#	Descriptor	Icon	Revision	%	Lifecycle
0.0	001-ASY-0001 - EMBER Printer [REV:B]	PG	B		Production
> 1.0	001-ASY-0002 - Resin Tray Assembly [REV:B]	M	B		Production
> 1.1	001-ASY-0004 - Assembled Printer [REV:B]	M	B	100%	Production
1.2	001-D0C-0001 - Packaging Assembly Document [REV:A]	PG	B		Production
1.3	001-PKG-0002 - Packing Tape [REVA]	PG	A		Production
1.4	001-ELC-0056 - Power Supply [REVA]	E/E	A		Production
1.5	001-ELC-0058 - USB Cable [REVA]	E/E	A		Production
1.6	001-PKG-0008 - Printer Bag [REVA]	PG	A		Production
1.7	001-PKG-0012 - Desiccant [REVA]	PG	A		Production
1.8	001-PKG-0013 - Rotating Window Shipping Tape [REV:B]	PG	A		Production
1.9	001-D0C-0116 - Serial Number Label [REV:B]	PG	B		Production
> 1.11	001-ASY-0038 - Build Head Assembly [REV:B]	M	B	100%	Production
1.12	001-D0C-0148 - Stocking Label [REV:B]	PG	B		Production
> 1.13	001-ASY-0051 - Packaging Assembly [REV:B]	M	B		Production
1.14	001-D0C-0147 - Branding & Certification Label [REV:B]	PG	B		Production
1.15	001-D0C-0163 - User Manual and Calibration Postcard [REV:B]	PG	B		Production

#	Number	Description	Quantity	Unit of M...	Revision	Lifecycle	Release Date	Effectivity Date	Ref Des	RoHS	REACH	Conflict Minerals
> 0.0	001-ASY-0001	Top level printer		Each	B	Production	04/06/2022	04/06/2022		Compliant	Not Compliant	Not Required
> 1.0	001-ASY-0002			Each	B	Production	04/06/2022	04/06/2022		Compliant	Not Validated	Not Validated
> 1.1	001-ASY-0004		1.0	Each	B	Production	04/06/2022	04/06/2022		Not Validated	Not Validated	Not Validated
1.2	001-D0C-0001		0.0	Each	B	Production	04/06/2022	04/06/2022		Not Required	Not Validated	Not Validated
1.3	001-PKG-0002		6.0	Foot	A	Production	03/02/2015	03/02/2015		Not Required	Not Validated	Not Validated
1.4	001-ELC-0056		1.0	Each	A	Production	12/12/2014	12/12/2014		Compliant	Not Validated	Not Validated
1.5	001-ELC-0058	USB 3.0 connecti	1.0	Each	A	Production	12/12/2014	12/12/2014		Compliant	Compliant	Compliant
1.6	001-PKG-0008		1.0	Each	A	Production	03/02/2015	03/02/2015		Not Required	Not Validated	Not Validated
1.7	001-PKG-0012		3.0	Each	A	Production	12/12/2014	12/12/2014		Not Required	Not Validated	Not Validated
1.8	001-PKG-0013		1.0	Foot	A	Production	05/20/2015	05/20/2015		Not Required	Not Validated	Not Validated

#	Descriptor	Icon	Revision	%	Lifecycle	Dimensions (LxWxH)	Material	Weight [grams]	Total Weight ...	Quantity	Unit of Measure
3.3	001-STR-0043 - Split glass...	M	A		100%					1.0	Each
2.30	001-FST-0035 - M4 x 30mm...	M	A				A2 (188) SS			8.0	Each
2.31	001-FST-0036 - M4 Wash...	M	A		100%		A2 (188) SS			4.0	Each
2.32	001-FST-0073 - Torx M3.12...	M	A				A2 Stainless !			2.0	Each
2.33	001-FST-0076 - No.4 x 0.31...	M	A							4.0	Each
2.34	001-D0C-0147 - Branding ...	PG	B							1.0	Each
2.35	001-FST-0085 - M6x18mm ...	M	A				A2 Stainless !			4.0	Each
2.36	704-000003 - MPI - Ember...	SW	A							1.0	Each
1.2	001-D0C-0001 - Packaging...	PG	B							0.0	Each
1.3	001-PKG-0002 - Packing T...	PG	A							6.0	Foot
1.4	001-ELC-0056 - Power Sup...	E/E	A							1.0	Each
1.5	001-ELC-0058 - USB Cable ...	E/E	A			800 mm x 20 mm x 8 m		12.0	12.00	1.0	Each
1.6	001-PKG-0008 - Printer Ba...	PG	A							1.0	Each

Approved Manufacturer Parts (AML) (3 of 6)

#	Manufacturer PN	Manufacturer	Preference	Description	Cost	Datasheet	Link	Octopart ImageView
1	IR2110PBF-ND	Digi...	Approved		0.0000 (\$)			
2	146175-0001		Approved	Antenna Wireless 3dBi/4.2dBi Gain 2483.5MHz/5... Chip T/R	0.6781 (\$)	Datasheet >>	Link >>	
3	BCR321UE632...		Approved	BCR321UE6327 Series 16 V 25 mA 10 kHz Surface Mount LED Driver - SC74-6	0.2474 (\$)	Datasheet >>		
4	DPP3012000	TE	Approved	Connectivity DPP3012000, HTU21 Temperature &	13.3000 (\$)	Datasheet >>		

Octopart

Integrated Circuits (ICs) - RF Semiconductors - Antennas - RF Antennas

### 146175-0001

Antenna Wireless 3dBi/4.2dBi Gain 2483.5MHz/5... Chip T/R

1 year trend +1101%

Price & Stock

Inventory History

CAD Models

Tech Specs

Notes: 146175-0001 pricing and available inventory.

Authorized Distributors

Seller	SKU	Stock	Unit Price	Lead Time
Avnet Electronics	146175-0001	20,388	0.6781	1 WD
RS Components	218262	25,495	0.6781	1 WD

#	Descriptor	Icon	Lifecycle	Make or Buy	Component type	Total Cost	Lead Time	Manufacturer P/N	Manufacturer	Vendor	Quantity
> 0.0	001-ASY-0001 - EMBER Printe...	PG	Production	Make	STD LLI SP	0.90	4	001-ASY-0001			
> 1.0	001-ASY-0002 - Resin Tray As...	M	Production	Make	STD LLI SP			001-ASY-0002			
2.1	001-D0C-0003 - Resin Tray As...	PG	Production	Make	STD LLI SP			-			0.0
2.2	001-STR-0001 - Resin Tray [R...	M	100%	Production	Make	STD LLI SP		001-STR-0001			1.0
> 2.3	001-ASY-0035 - PDMS Windo...	M	100%	Production	Make	STD LLI SP		001-ASY-0035			1.0
2.5	001-FST-0060 - Resin Tray Pla...	M	Production	Make	STD LLI SP			1959T32			1.0
2.6	001-D0C-0151 - Resin Tray Ser...	PG	Production	Make	STD LLI SP			Identicco: TTL145-423-25			1.0
> 1.1	001-ASY-0004 - Assembled Pr...	M	100%	Production	Make	STD LLI SP		001-ASY-0004			1.0
1.2	001-D0C-0001 - Packaging As...	PG	Production	Make	STD LLI SP						0.0
1.3	001-PKG-0002 - Packing Tape ...	PG	Production	Make	STD LLI SP			S-445			6.0
1.4	001-ELC-0056 - Power Supply ...	E/E	Production	Make	STD LLI SP			G5120A12-R7B			1.0
1.5	001-ELC-0058 - USB Cable [RE...	E/E	Production	Buy	STD LLI SP	0.90	4	A784-74310-U	Microchip	Vishay	1.0





Home > NPI Projects +

Compact View ☐

All Projects (6) ▾

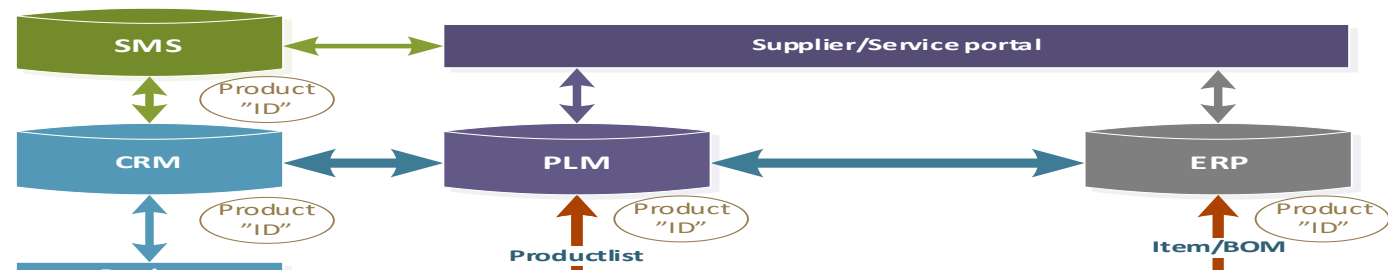


Priority	Number	Title	Progress	Days to next G...	Customer	Project Status	Total Actual Effort
★★★	P0067	Test	<div><div>G1</div><div>G2</div><div>G3</div><div>G4</div><div>G5</div></div>	-286		<div><div>S</div><div>R</div><div>B</div><div>R</div></div>	0
★★★★	P0035	Ember Printer	<div><div>G1</div><div>G2</div><div>G3</div><div>G4</div><div>G5</div></div>	-264	In House	<div><div>S</div><div>R</div><div>B</div><div>R</div></div>	32
★★★★	P0005	Multi Purpose Conveyer Drier	<div><div>G1</div><div>G2</div><div>G3</div><div>G4</div><div>G5</div></div>	-573	Alistair Farms	<div><div>S</div><div>R</div><div>B</div><div>R</div></div>	98
★★	P0004	50 Litre 3HP Industrial Air Compressor (230V)	<div><div>G1</div><div>G2</div><div>G3</div><div>G4</div><div>G5</div></div>	-587	Commercial	<div><div>S</div><div>R</div><div>B</div><div>R</div></div>	116
★★★	P0003	70 Litre 4HP Industrial Air Compressor (230V)	<div><div>G1</div><div>G2</div><div>G3</div><div>G4</div><div>G5</div></div>		Commercial	<div><div>S</div><div>R</div><div>B</div><div>R</div></div>	120
★★★★	P0001	Steering Wheel	<div><div>G1</div><div>G2</div><div>G3</div><div>G4</div><div>G5</div></div>		BAC	<div><div>S</div><div>R</div><div>B</div><div>R</div></div>	400

6 out of 6 total records in this view being displayed.

## Aftersales

*Driftmåling på komponenter og layout (IOT). Projekt dokumentation ét sted. SparePart katalog on-line*



#326441

#643221

#335464

#664421

Tag #115278 - Temperature: 27.53



Tag #806172 - Acceleration: 0.73



Tag #901628 - Lux: 160.54



This part "02-14-36113" is available as part of a kit.

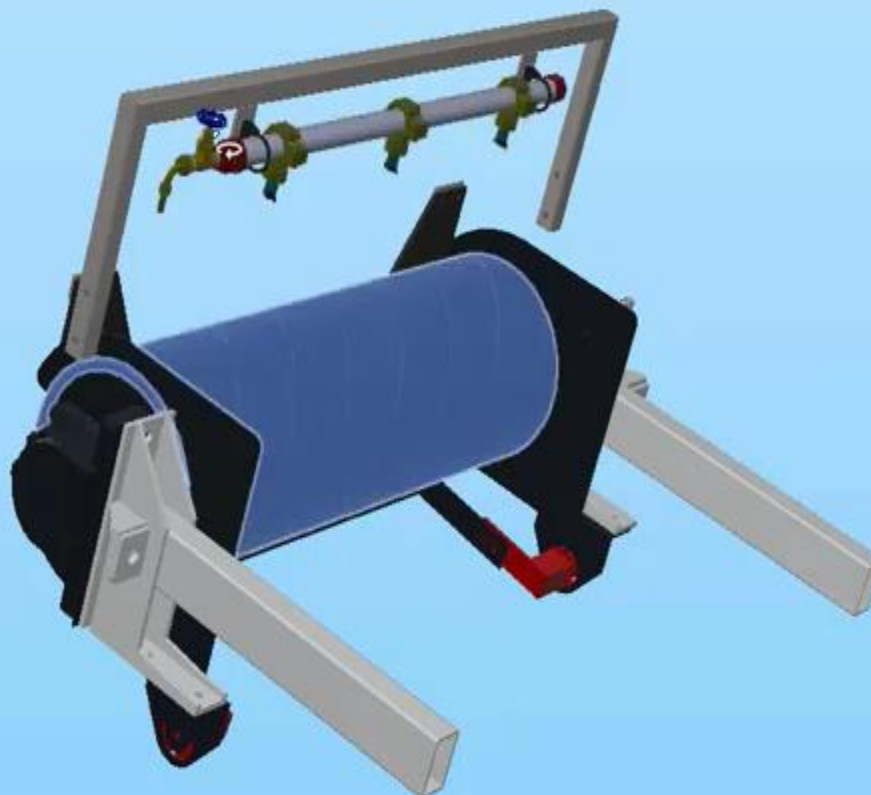
[VIEW KIT](#)

Reset to Top Level

Drive End



Detailed View



## Add Item to Basket

PART NUMBER

02-14-36113

Drum Body

1

[ADD TO BASKET](#)

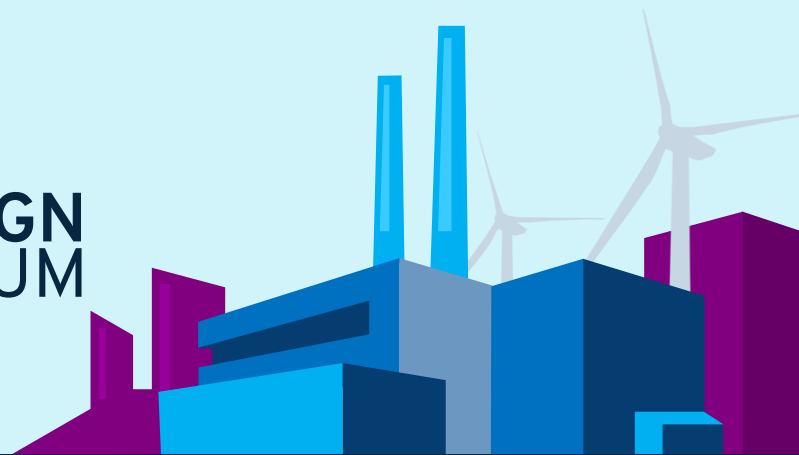
## Current Basket

PART NUMBER	QUANTITY	
20-30-0020C-asm Cone spraybar assy	2	
06-25-0009 Centre Roller	1	
06-65-12013 Discharge conveyor end skirting rubber	1	
22-02-1005 Drive gear box mtg bkt	3	
02-43-0001 TED bearing housing	1	
02-14-36113 Drum Body	2	





2022  
INDUSTRI&DESIGN  
FORUM



# Afrunding

*3 vigtige step*

*Se også meget mere i næste præsentation  
med Michael Kjærgaard*

# Vær klar til fremtidens ønsker og muligheder

## Globalisering

Nye markeder  
Konkurrenceevne  
Billigere priser

## Innovation & tilpasning

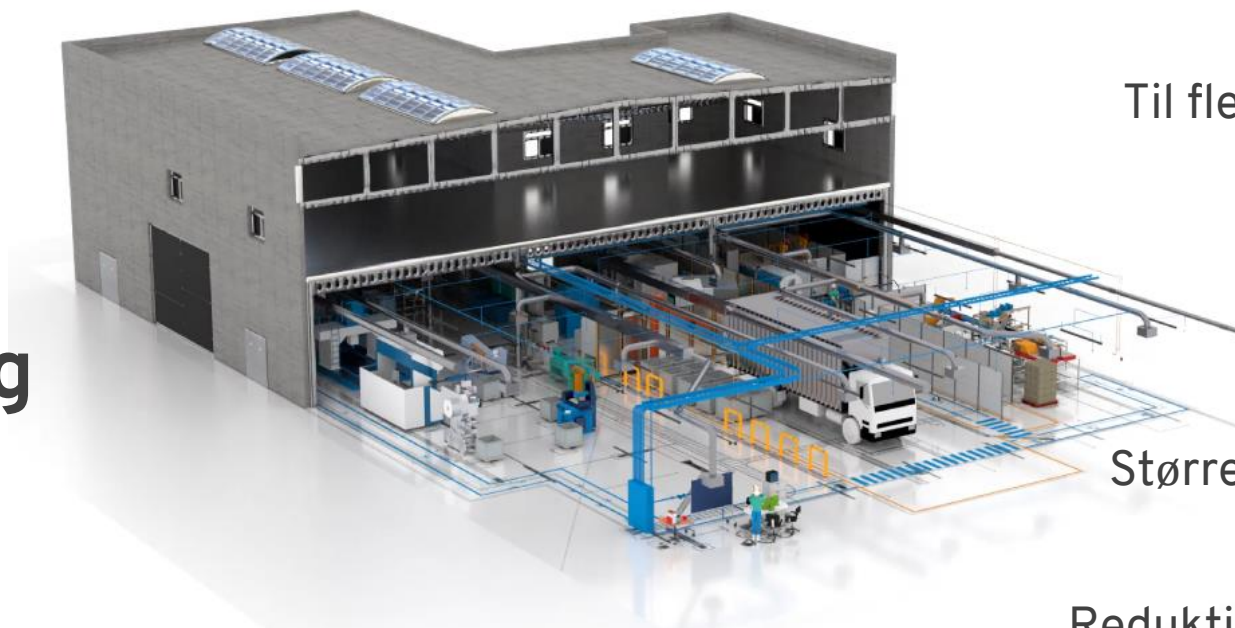
Af fleksible standard produkter  
Til markedet  
Til flere/komplekse krav og behov

## Outsourcing

Af Design  
Af Produktion  
Til Leverandører

## Produktivitet

Større og bredere produktprogram  
Hurtigere produktudvikling  
Reduktion af indirekte omkostninger

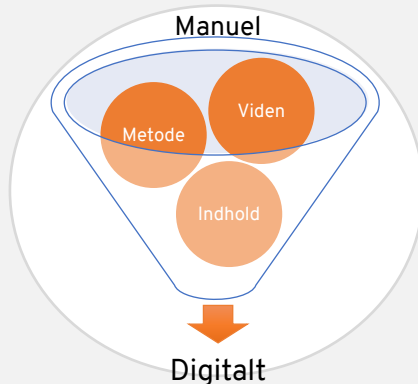


# 3 step tilgang

- Til digital integreret projekt dokumentation og know-how
- Digital Twin understøtning, tidligere afklaring, reviews, lifecycle ....

## Digitalisering

*Organisering og standardisering  
af data / processer / viden - digitalt  
Ofte manuelt håndteret*



## Automatisering

*Sæt 'strøm' til håndtering  
af data og metoder  
Oprettelse, vedligehold, process ...*



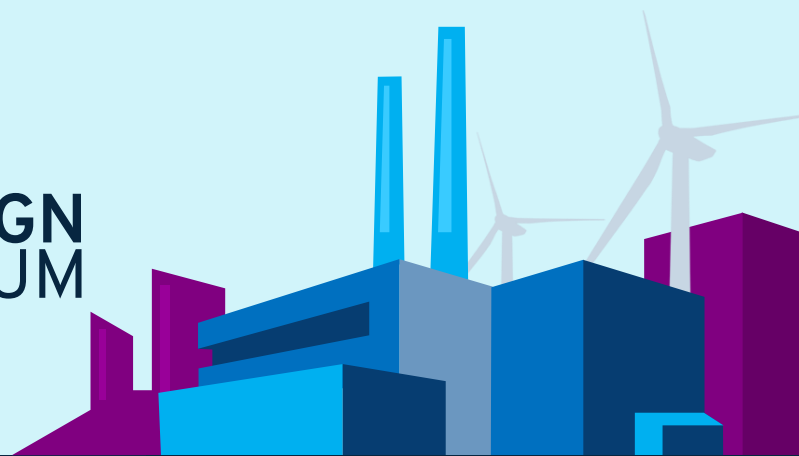
## Transformering

*Integrering og optimering  
med nye muligheder  
Beslutte aktivt at bruge og optimere metoder og  
forretning i relation til digitale muligheder*





2022  
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FORUM



# Alt det jeg har glemt ??

*Se også næste indlæg med Michael  
Mere i dybden og masser af eksempler*





*Den digitale transformation er i fuld gang*

*Hop med på vognen, hvis du ikke allerede er  
med eller i gang med indsatser*

*Ta' endelig fat i os, hvis du vil vide mere*

*Tak for din deltagelse*