



A.I. als digitale reisgenoot

Waar liggen de kansen?

Januari 2025

Arbeidsmarkt

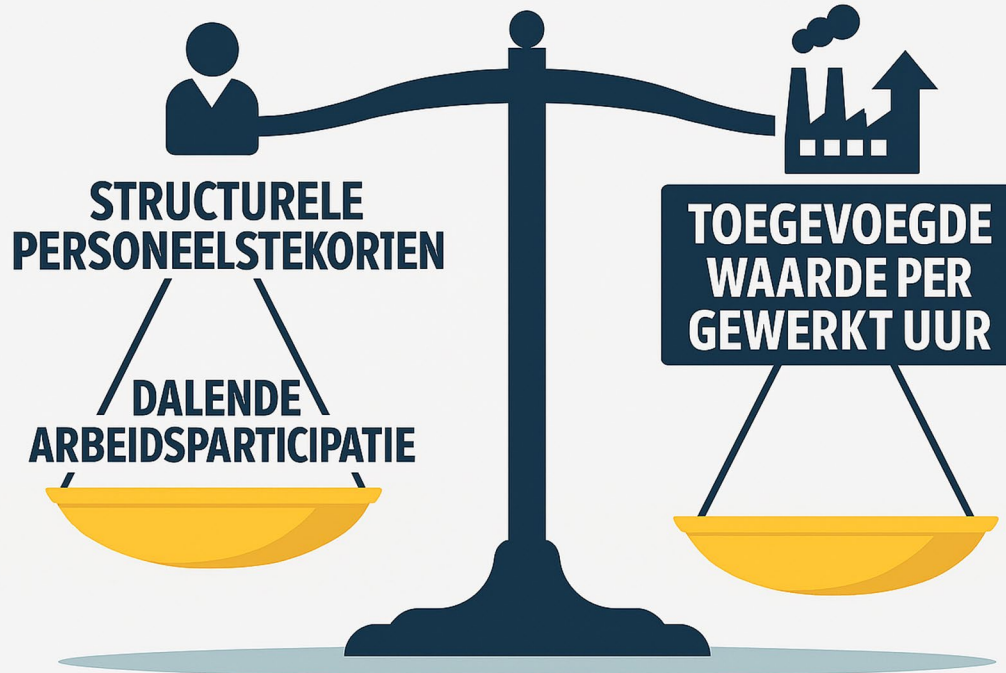
Arbeidsproductiviteit moet tot wel 50% stijgen in komende 10 jaar *

Industrie-visie 2040, Rabobank, 2025

** Dit komt neer op circa 4.1% per jaar*



Waarom is die groei nodig?



Huidige situatie



Sleutelrol maakindustrie bij arbeidsproductiviteitsgroei in Nederland, Technishow, 2025

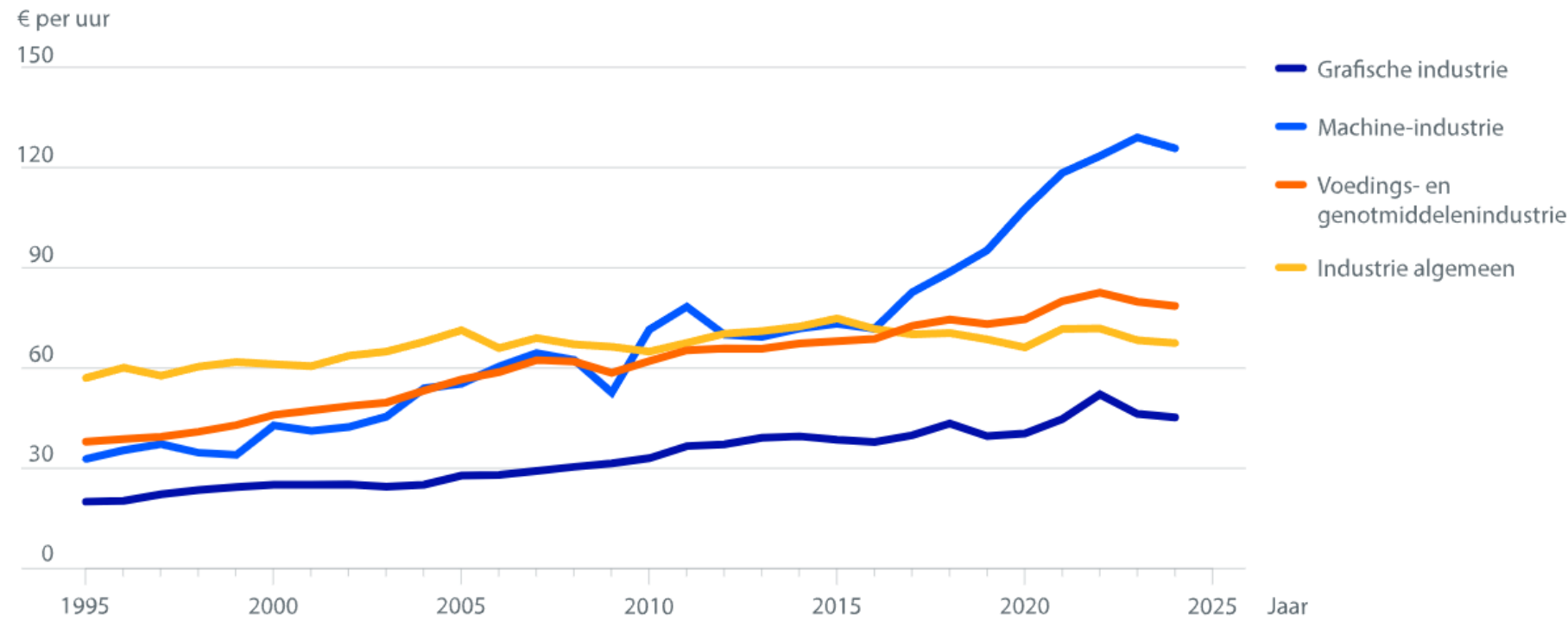






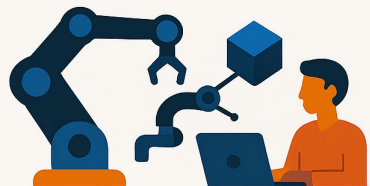
**FIRST
TECH
CHALLENGE**
BENELUX

Arbeidsproductiviteit in industriesectoren



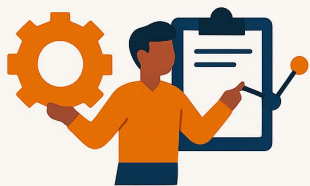
Bron: CBS, bewerking Rabobank. Noot: De arbeidsproductiviteit is per subsector berekend door de bruto toegevoegde waarde tegen basisprijzen (prijsniveau 2021) te delen door het aantal gewerkte uren

Hoe kan die groei worden bereikt?



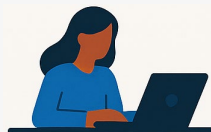
Investeren in
technologie

Robotisering,
automatisering, AI
en digital twins



Proces-optimalisatie

Lean manufacturing,
slimme planning,
predictive
maintenance



Menselijk
Kapitaal

Training, digitale
vaardigheden,
levenslang
ontwikkelen



Samenwerking

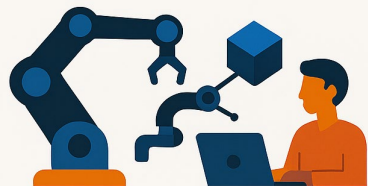
Tussen bedrijven,
onderwijs en
overheid



Innovatie en
ondernemerschap
Ruimte voor nieuwe
verdienmodellen en
mkb-groei

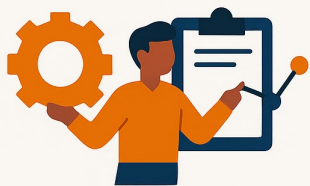
Samenwerken voor Arbeidsproductiviteitsgroei, Sociaal-Economische Raad, 2025

Hoe kan die groei worden bereikt?



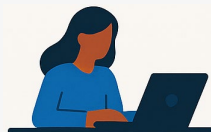
Investeren in
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Proces-optimalisatie

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Menselijk
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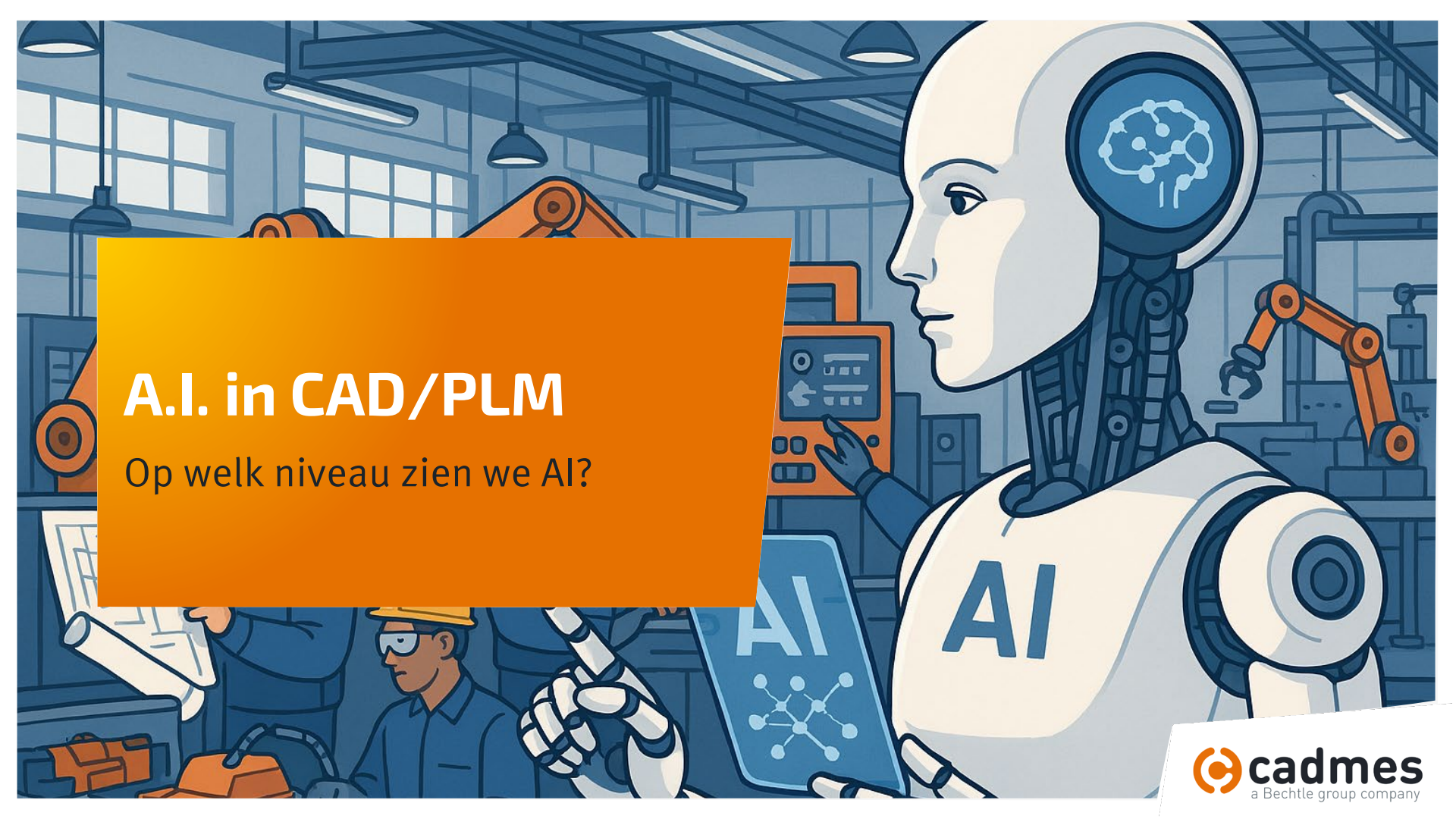
Samenwerking

Tussen bedrijven,
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Innovatie en
ondernemerschap
Ruimte voor **nieuwe
verdienmodellen** en
mkb-groei

Samenwerken voor Arbeidsproductiviteitsgroei, Sociaal-Economische Raad, 2025



A.I. in CAD/PLM

Op welk niveau zien we AI?

A.I.-Evolutie in SOLIDWORKS

Automatiseren

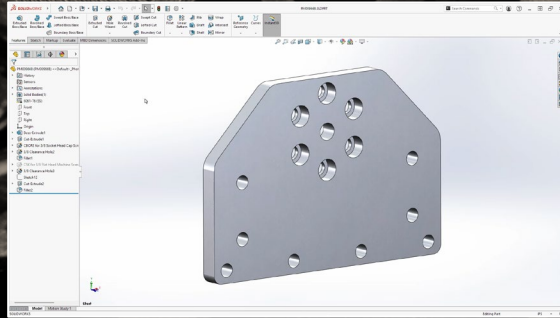
Assisteren

Co-creëren

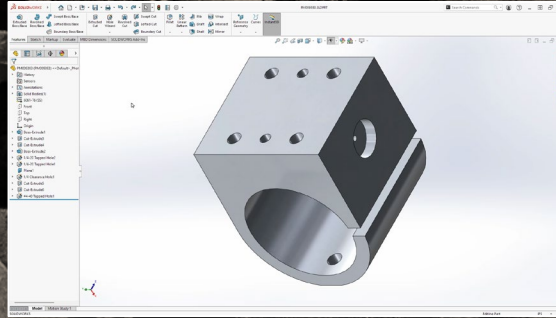
A.I. in SOLIDWORKS...

...vandaag

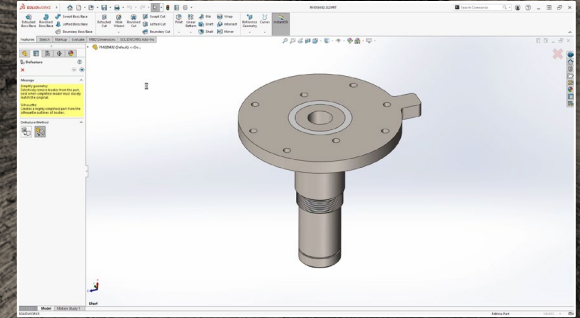
Automatisieren



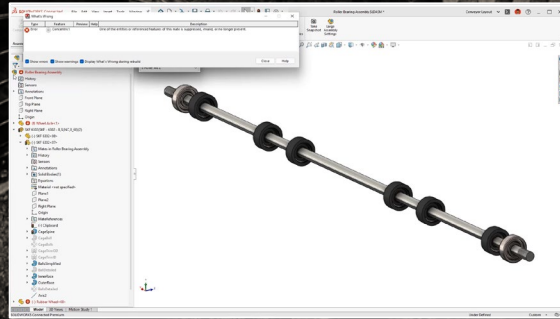
Repair Sketch Relations
(SW25 GA)



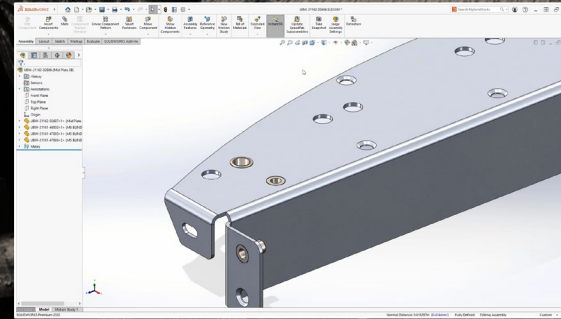
Selection Accelerators
(SW25 GA)



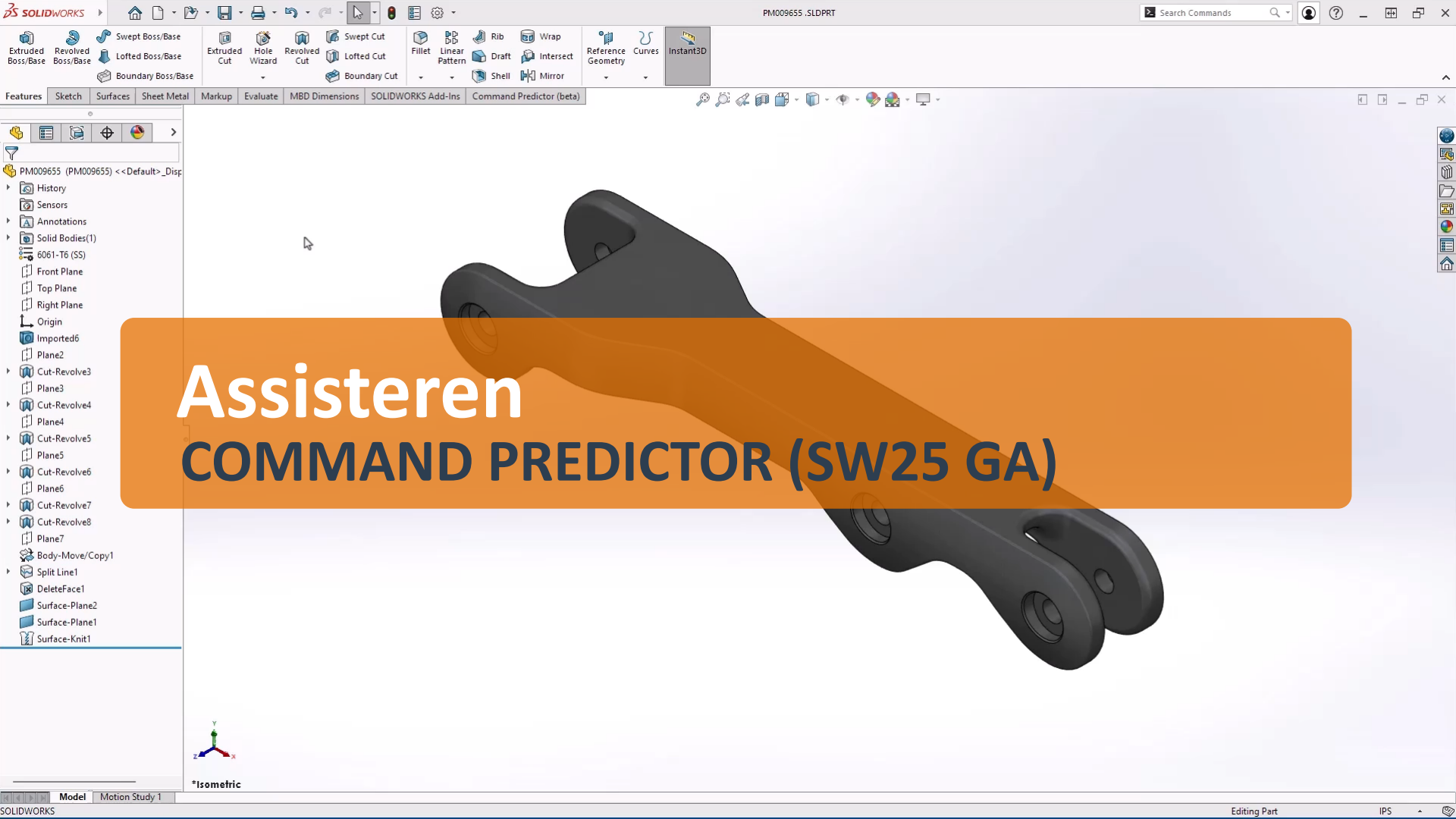
Driven Silhouette Part Defeature (SW25
GA)



Repairing Missing Mate Reference (SW23
)



Pattern Driven Component
(SW23)

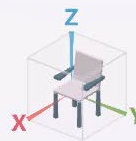


Assisteren

COMMAND PREDICTOR (SW25 GA)



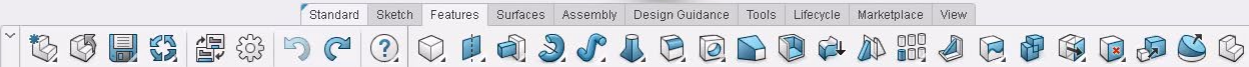
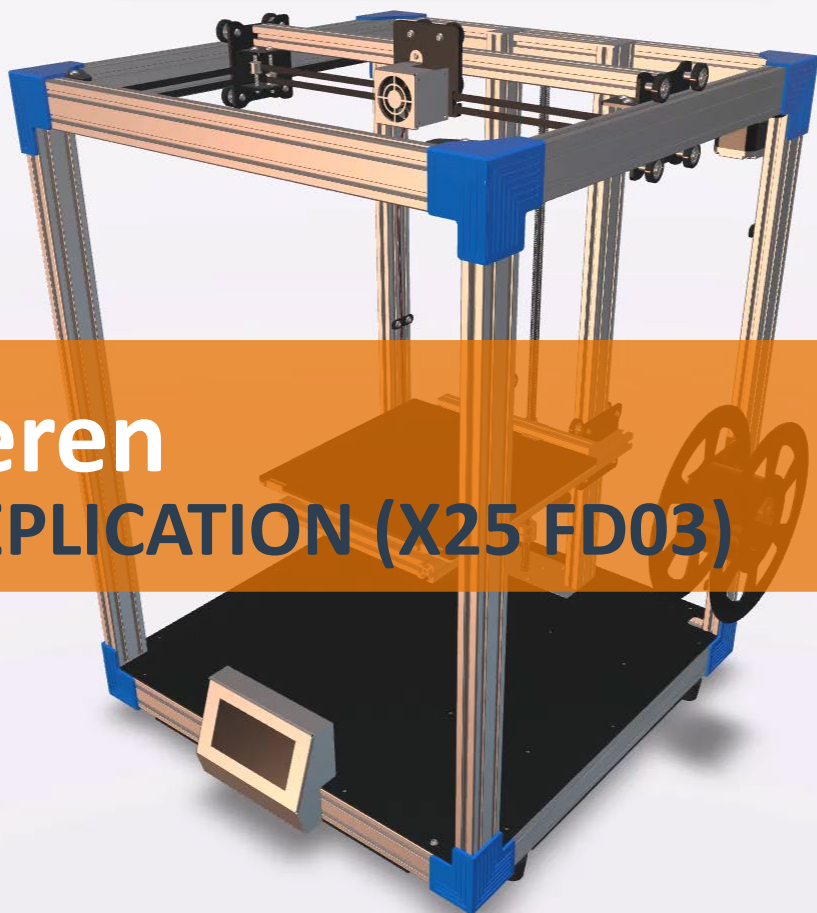
Assisteren AUTO FASTENER RECOGNITION & PATTERN (SW25 FD03)

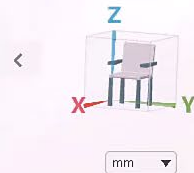


mm

Assisteren

MATE REPLICATION (X25 FD03)





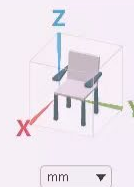
Assisteren

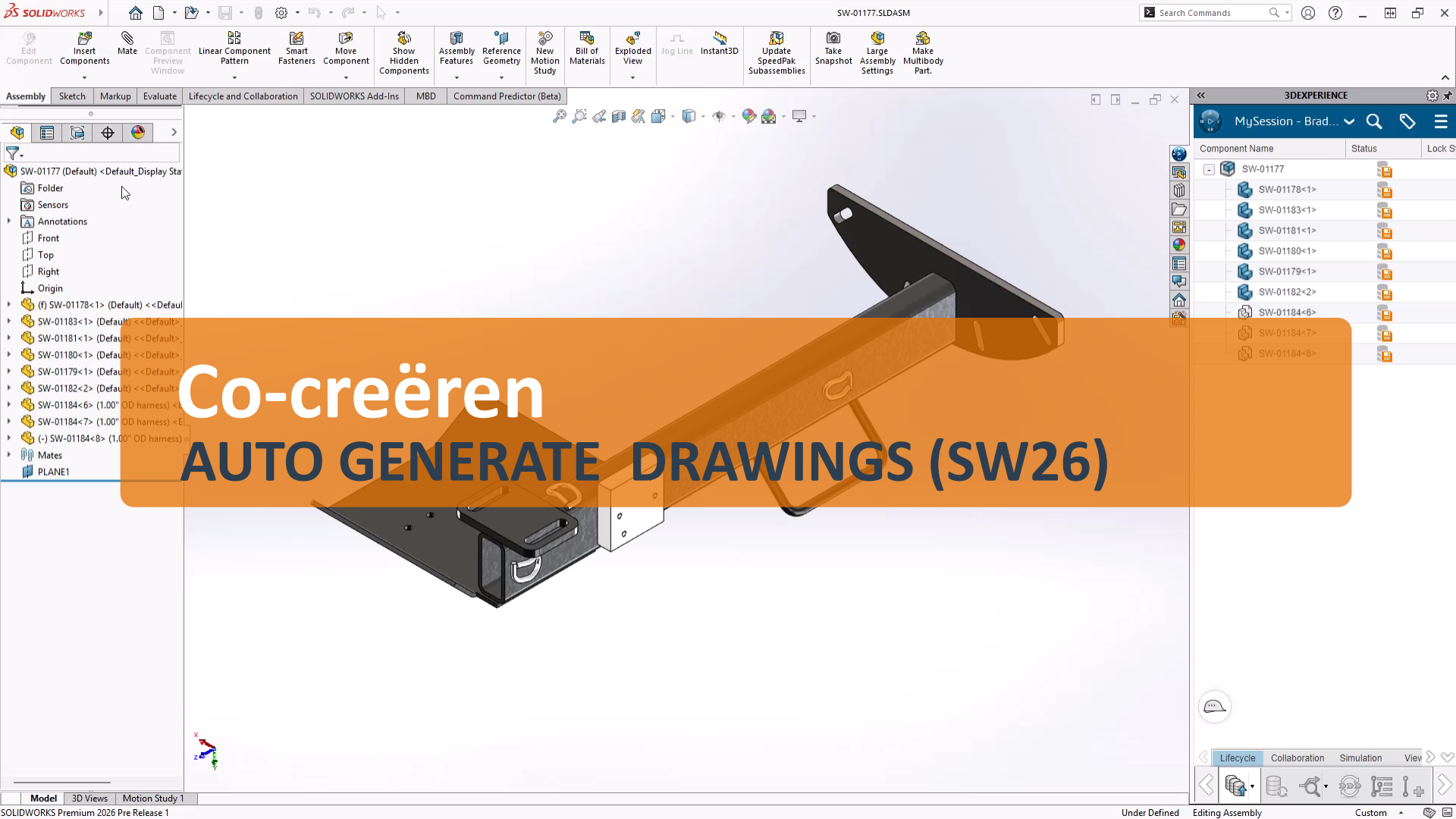
STRUCTURAL END PLATE (X25 FD03)



Assisteren

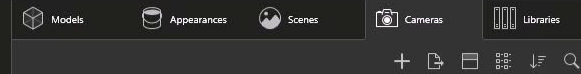
IMAGE TO 2D MECHANISM (X25 FD03)





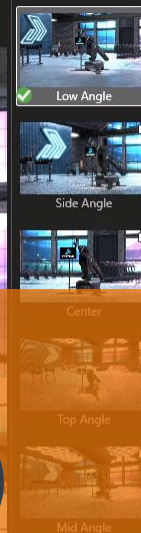
Co-creëren

AUTO GENERATE DRAWINGS (SW26)



Co-creëren

GENERATIVE RENDERING (SW25)



General Transform Stereo Filters Advanced

Name

Low Angle

☐ Lock / Unlock Selection

☒ Keep Above Floor

Aspect Ratio

6496.00

x

3780.00

Type

Perspective

▼ Lens

Perspective

42.61

Focal Length (mm)

63.80

▼ Depth Of Field

☐ Enable Depth of Field

Focal Distance

0.00

Aperture (mm)

4.38

F Stop

2.32

Passes: 3000 / 3000

Complete

Resolution: 1324x770

Polygon Count: 17825945

Focal Length: 63.80 (mm)

Stellar - Accurate - GPU

Activities Process View

Display Name	Computed	Total time	Machining time
Programmes d'usage_Comportement0000109...			
Phase d'usage.1		0mn	0mn
Ferrure CampusFab RCA		13,592mn	12,148mn
SELECT Commentaires Outils		0mn	0mn
APPEL ETALU + PIECE ROBOT ABB		0mn	0mn
ASSIGNATION ORIGINES G510		0mn	0mn
CREATION FICHIER RCA		0mn	0mn
Changement outil.7 (PALPEUR DIA...		0mn	0mn
Rotation palette de 06.5		0mn	0mn
Calcul Hauteur Palette=R30		0mn	0mn
Sondage multi-points.6		0,509mn	0,24mn
Degauchissage pièce R2		0,41mn	0,24mn
Changement outil.7 (PALPEUR DIA...		0,41mn	0,24mn
Pocketing.6		0,41mn	0,24mn
Pocketing.7		0,41mn	0,24mn
VERIF JALIGE + C.R2		0,41mn	0,24mn
COOLNT/FLOOD		0,41mn	0,24mn
EBAUCHE -1		4,223mn	3,908mn
EBAUCHE -2		0,904mn	0,823mn
EBAUCHE PROFIL EXTER		0,777mn	0,724mn
FINITION PROFIL EXTERIEUR		0,152mn	0,144mn
USINAGE DESSUS PERCAGES F...		1,086mn	0,942mn
USINAGE DESSUS PERCAGES F...		1,121mn	1,014mn

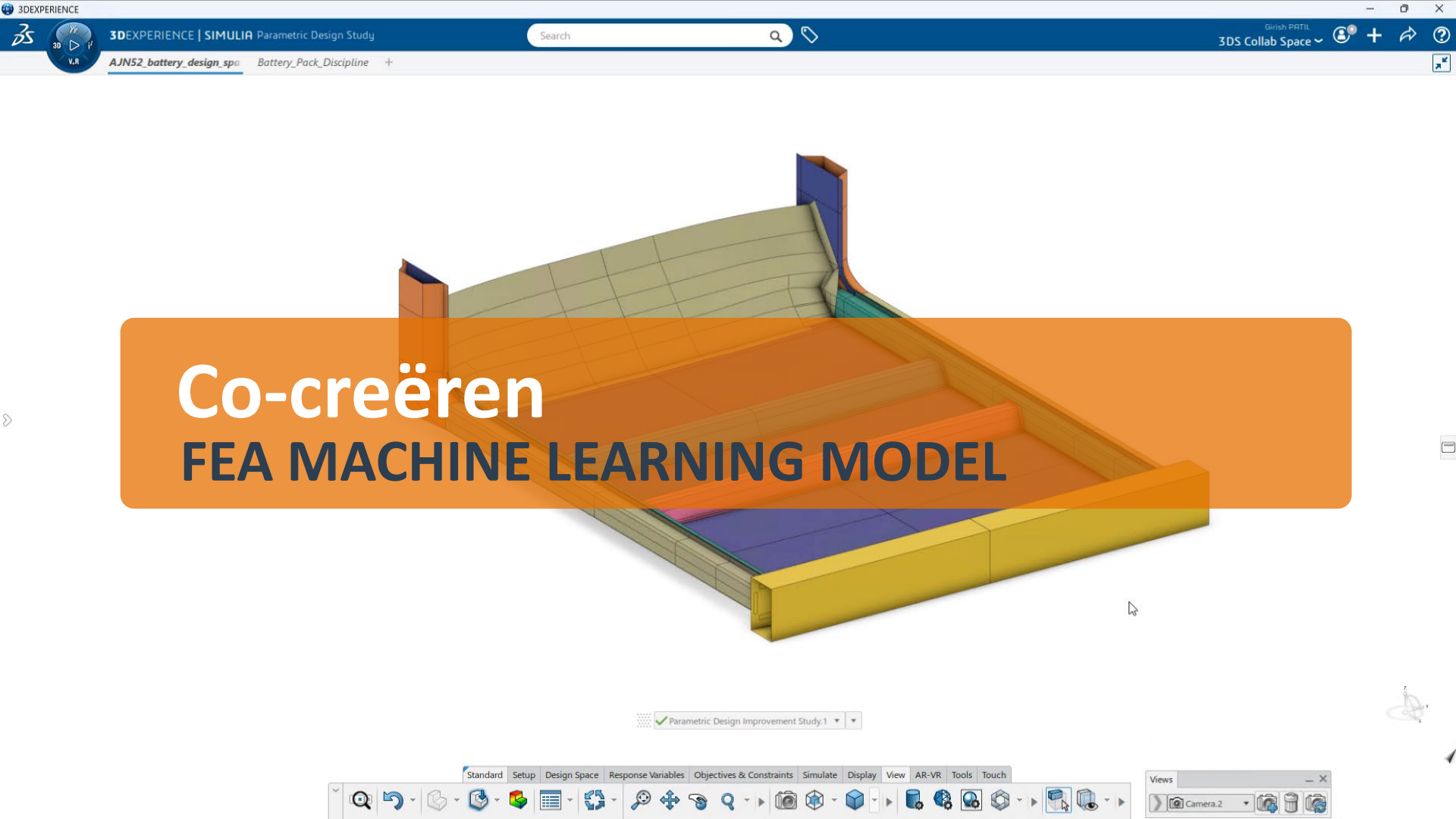
23/23 items displayed | 0 items selected

Co-creëren AUTOMATIC TOOLPATH GENERATION

Optimize Tool Path Strategy

Reference	Suggestion 1	Suggestion 2	Suggestion 3	Suggestion 4	Suggestion 5
☒	☐	☐	☐	☐	☐
Machining Time 130,576 s	Machining Time 48,7118 s	Machining Time 49,8425 s	Machining Time 63,5051 s	Machining Time 81,3532 s	Machining Time 106,693 s
Tool Path Style Concentric	Tool Path Style Helical (inward)	Tool Path Style Offset on part Zig-Zag	Tool Path Style Back and forth	Tool Path Style Inward spiral morphing	Tool Path Style Concentric
Tool Diameter Ratio 50%	Tool Diameter Ratio 70%	Tool Diameter Ratio 60%	Tool Diameter Ratio 50%	Tool Diameter Ratio 40%	Tool Diameter Ratio 80%
Pattern Auto					Pattern Dynamic
Movement One-Way					Movement Zig-Zag
Channel Width 100%					Channel Width 80%

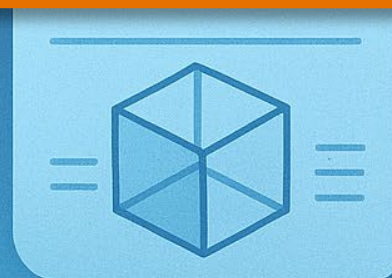
Update Cancel



Co-creëren

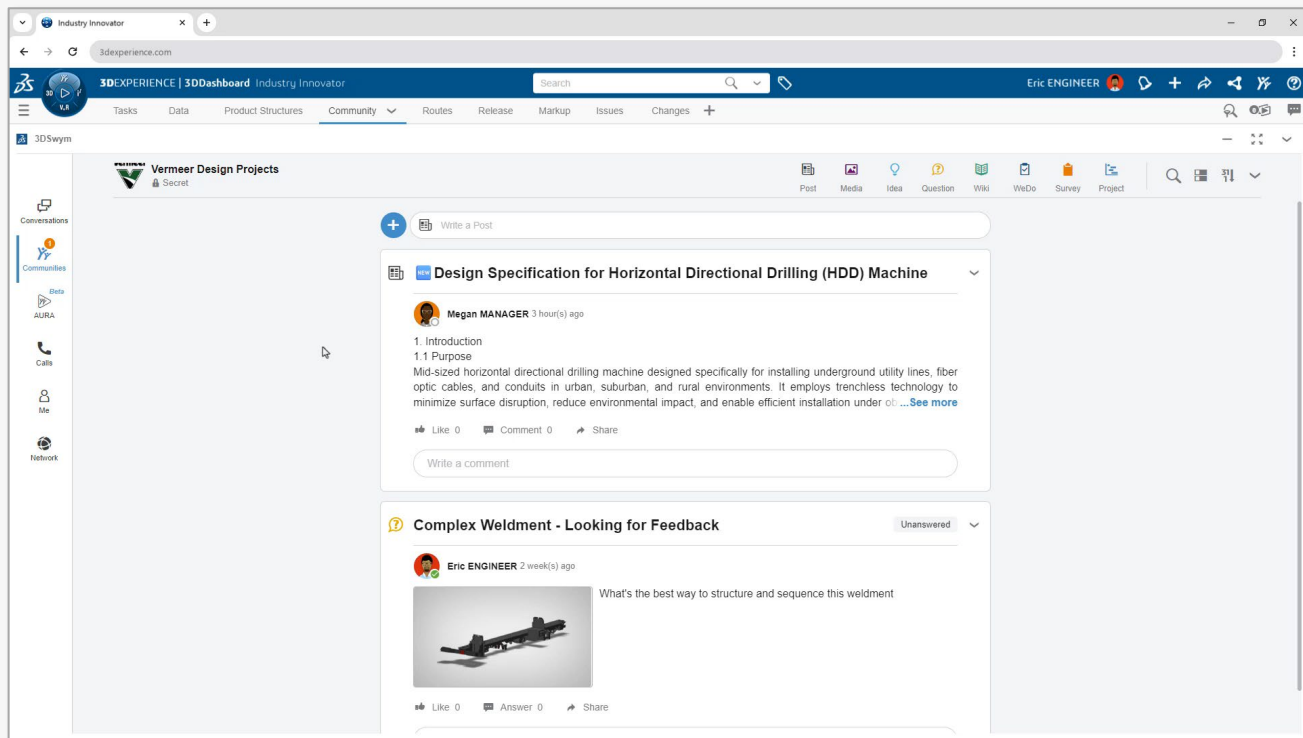
FEA MACHINE LEARNING MODEL

Stel je een A.I.-assistent voor, die dit allemaal samenbrengt...



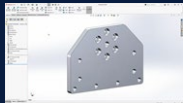
AURA, de kunstmatig intelligente ontwerp-assistent

- » Per direct beschikbaar met Cloud Services
- » Uw data in uw veilige 3DEXPERIENCE cloud
- » Antwoorden op vragen, oplossingen en advies bij uitdagingen

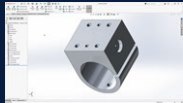


A.I. in SOLIDWORKS vandaag

Automatiseren



Repair Sketch Relations (SW25 GA)



Selection Accelerators (SW25 GA)



Pattern Driven Component (SW23)



Driven Silhouette Part Defeature (SW25 GA)



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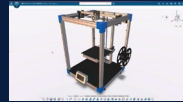
Assisteren



Command Predictor (SW25 GA)



Auto Fastener Recognition (SW25 FD03)



Mate Replication (X25 FD03)

Co-creëren



AUTO GENERATE DRAWINGS (SW26)



IMAGE TO 2D MECHANISM (X25 FD03)



GENERATIVE RENDERING (SW25)



STRUCTURAL END PLATE X25 (FD03)



AUTOMATIC TOOLPATH GENERATION



FEA MACHINE LEARNING MODEL



AURA AI DESIGN
COMPANION

A.I. in SOLIDWORKS...

...morgen

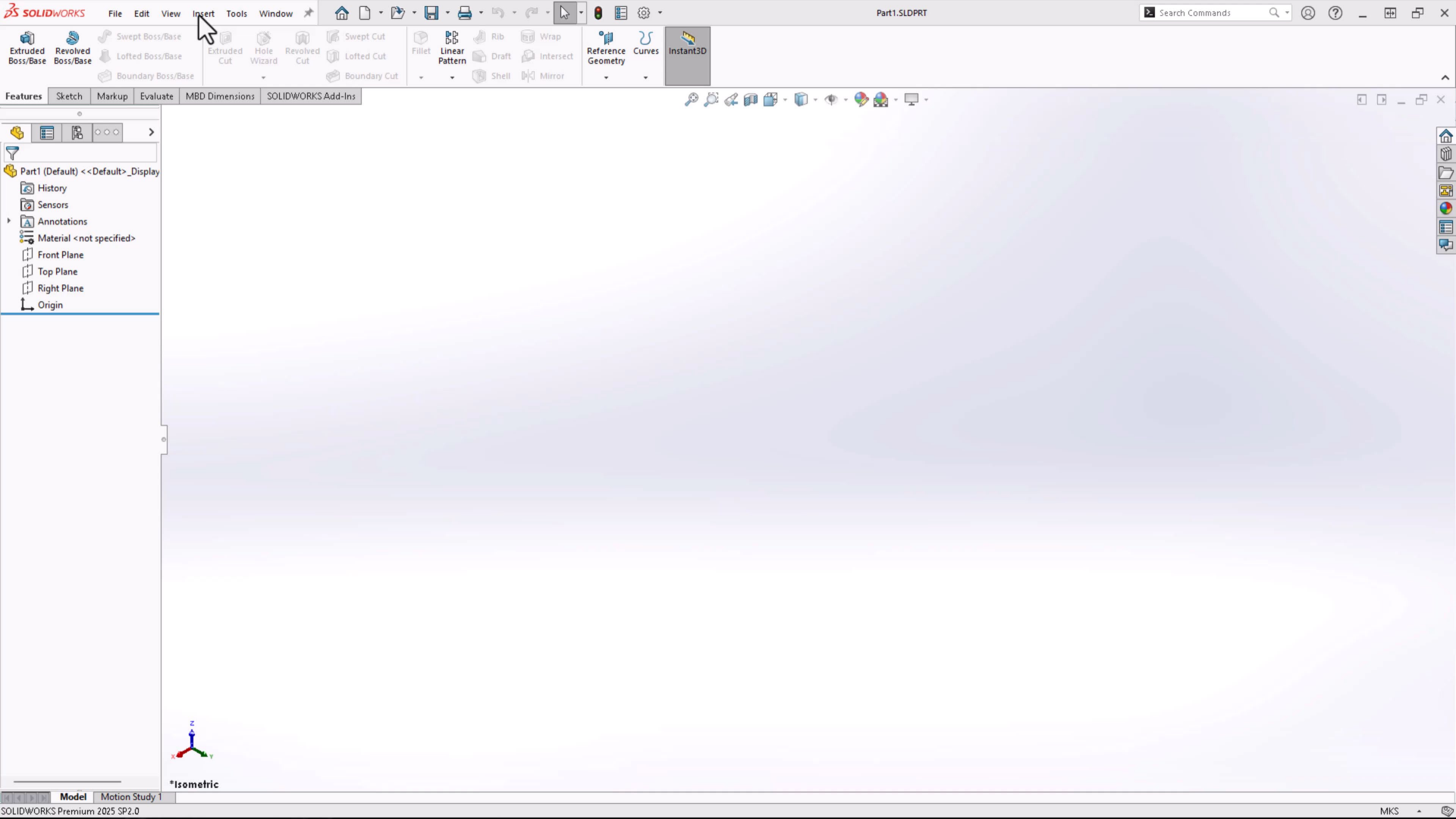


3DEXPERIENCE[®] Lab Fablab

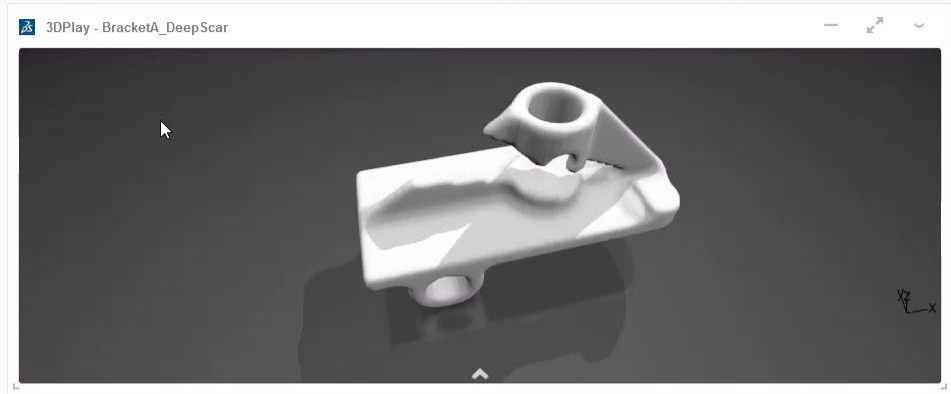
The FABLAB is a professional and complete manufacturing facility for our startups, customers and makers to use, supported by a strong expert community.

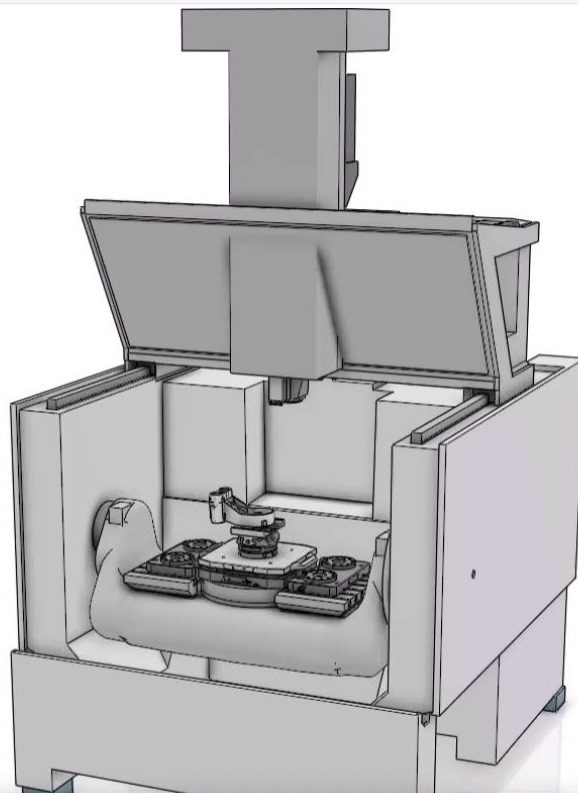
It's the ultimate place for prototyping, Research & experimentation, product development, creation and execution, leveraging the power of 3DS brands solutions.



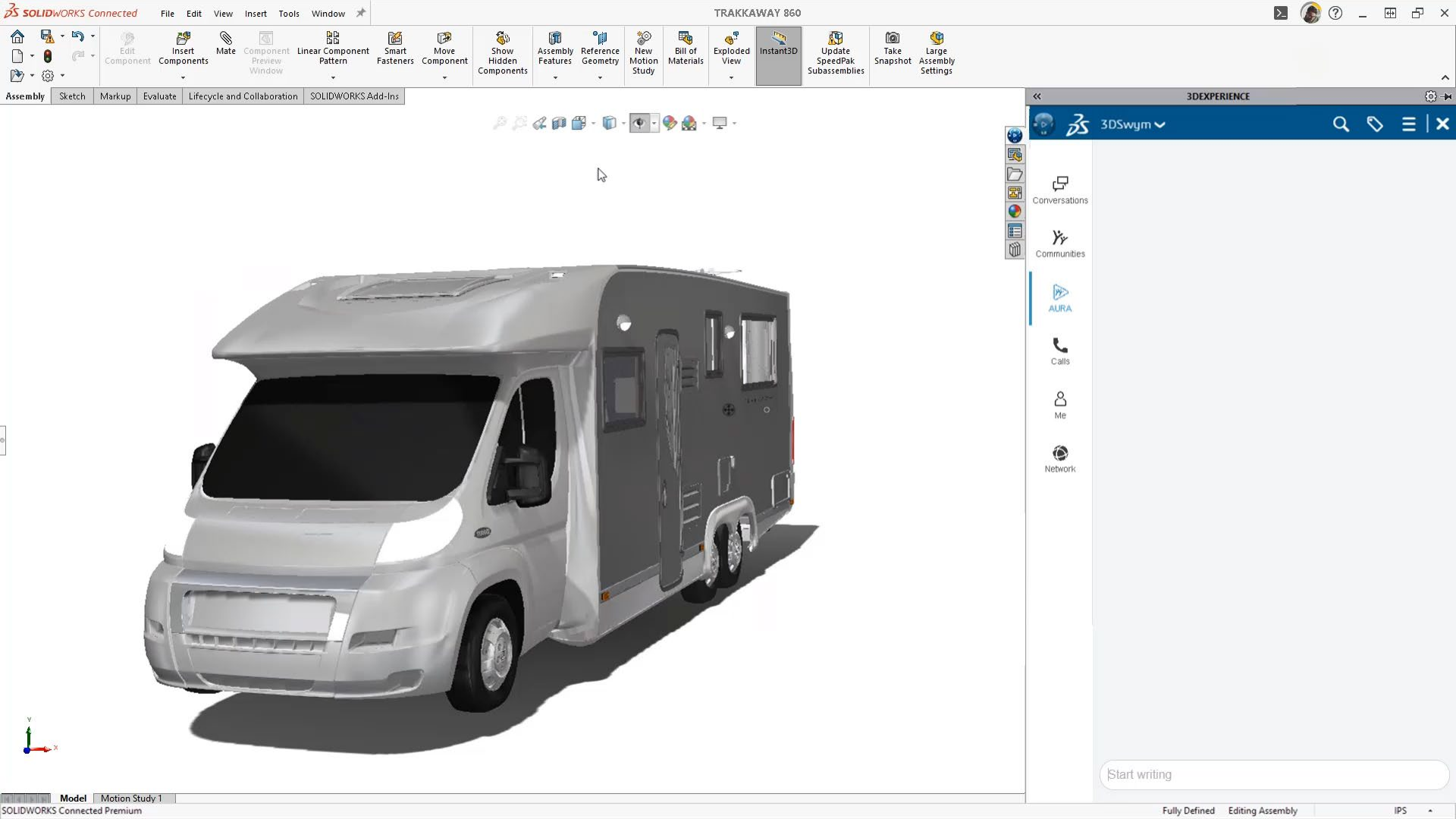


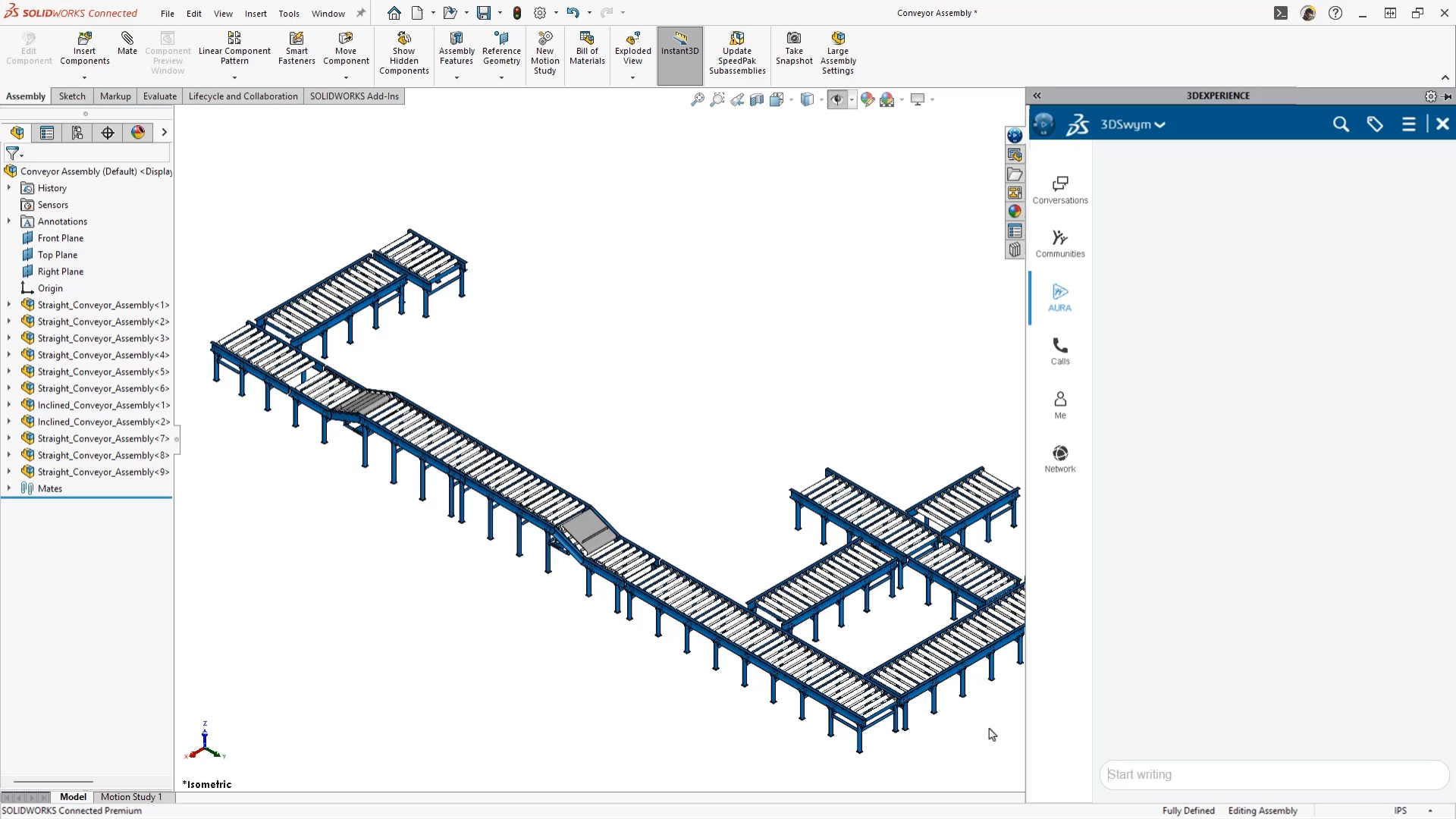






Generative NC Machining





A.I. bij
Dassault Systèmes...

...de volgende generatie

Our Vision: The Most Trusted IP Generation & Management Company

- ✓ Gen 7 = next generation of DS technology
- ✓ Combines design, simulation, data science & AI
- ✓ Protect and grow your IP in a secure, sovereign environment



THE FUTURE WE'RE BUILDING POWERED BY GEN 7 AI



GENERATIVE
EXPERIENCE



VIRTUAL
COMPANION



CYCLE
OF LIFE



SENSE
COMPUTING



EXPERIENCE

V+R

VIRTUAL
TWIN



KNOWLEDGE &
KNOW-HOW PLATFORM

CAR HEADLIGHT

AGGREGATING & ELEVATING

your

Intellectual Property

by

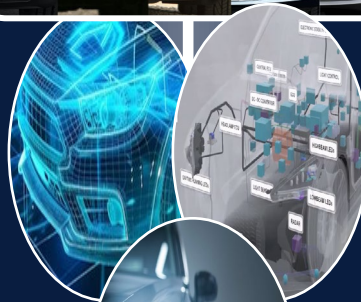
COMBINING MULTIPLE
VIRTUAL TWINS

to

GENERATE NEW
PRODUCTS with AI

and

IMAGINE NEW
BUSINESS MODELS



your VIRTUAL TWINS
of PRODUCT

your NEW HEADLIGHT
generated by our
solutions

your OPPORTUNITY to
increase your business



Waar beginnen?

- » Experimenteer met AURA
- » Leer omgaan met de A.I. hulpmiddelen in SOLIDWORKS
- » Identificeer betekenisvolle werkstromen voor A.I.
- » Verken in uw organisatie hoe A.I. kan helpen om uw doelen (sneller) te bereiken



Afbeelding van Tony C. via Pixabay

A futuristic scene featuring a metallic robot with glowing blue eyes, sitting and reading an open book. The robot is surrounded by four people (two men and two women) who are all looking at their smartphones. The background is dark and moody, with a blue and white color scheme. The robot is wearing a white shirt and a grey jacket. The people are dressed in casual attire. The overall atmosphere is one of a high-tech, interconnected world.

**“Je wordt niet vervangen door AI,
maar door iemand die het goed gebruikt”**

Arjen Banach, www.hetgrootstekennisfestival.nl

