AUTODESK

April 2026

Product Development & Manufacturing with Artificial Intelligence

Jon den Hartog
Vice President
Product Development and Manufacturing Solutions

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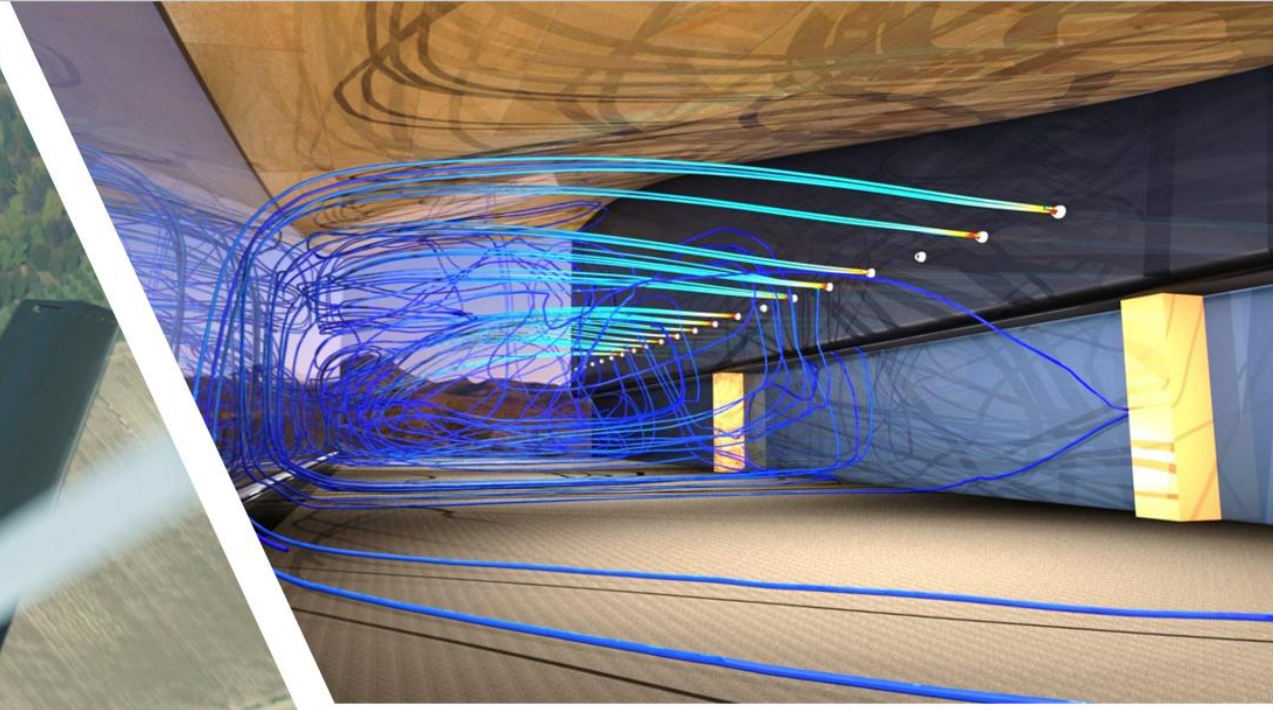


BioLite

Agenda

01 The AI shift

02 Autodesk's approach

03 What you can do today

04 Our recommendations

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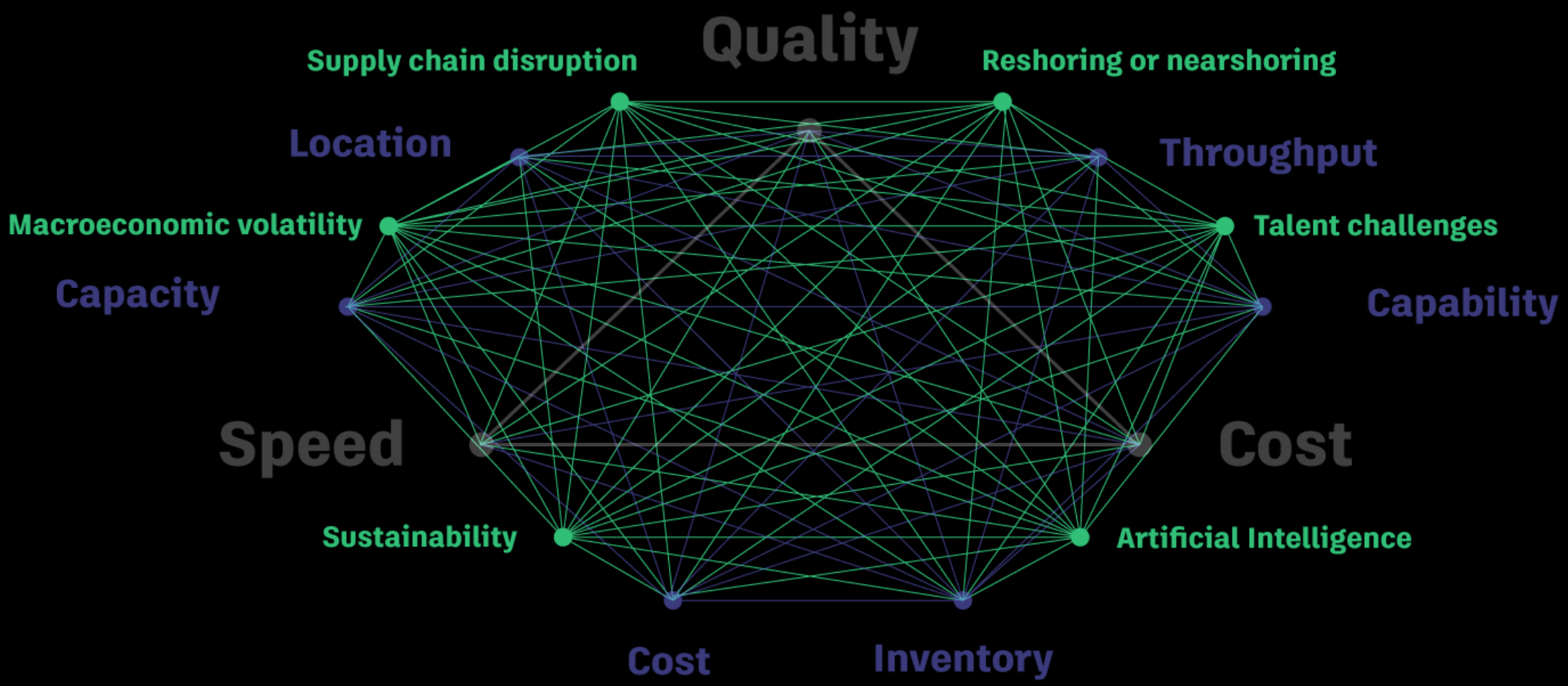
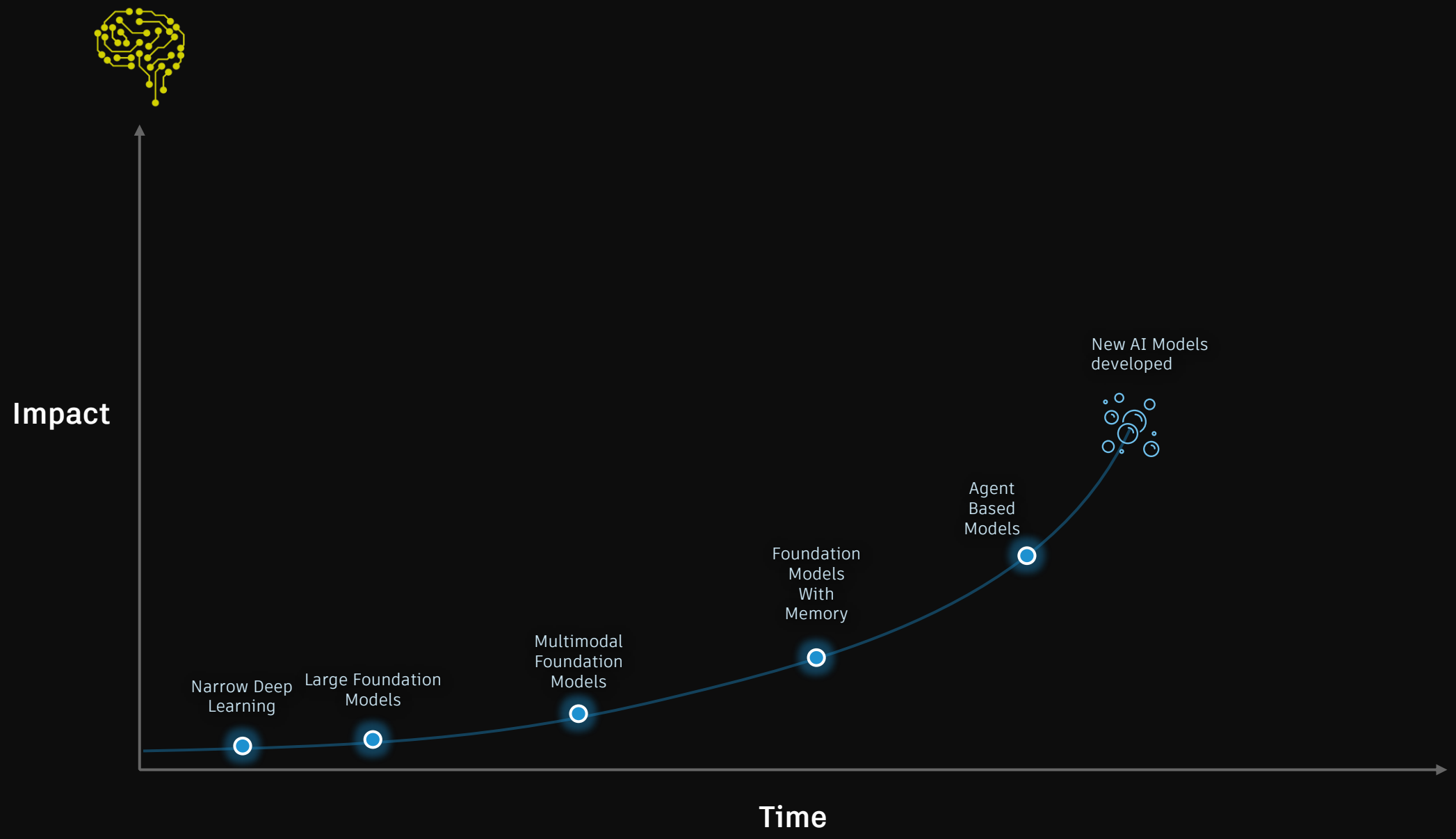
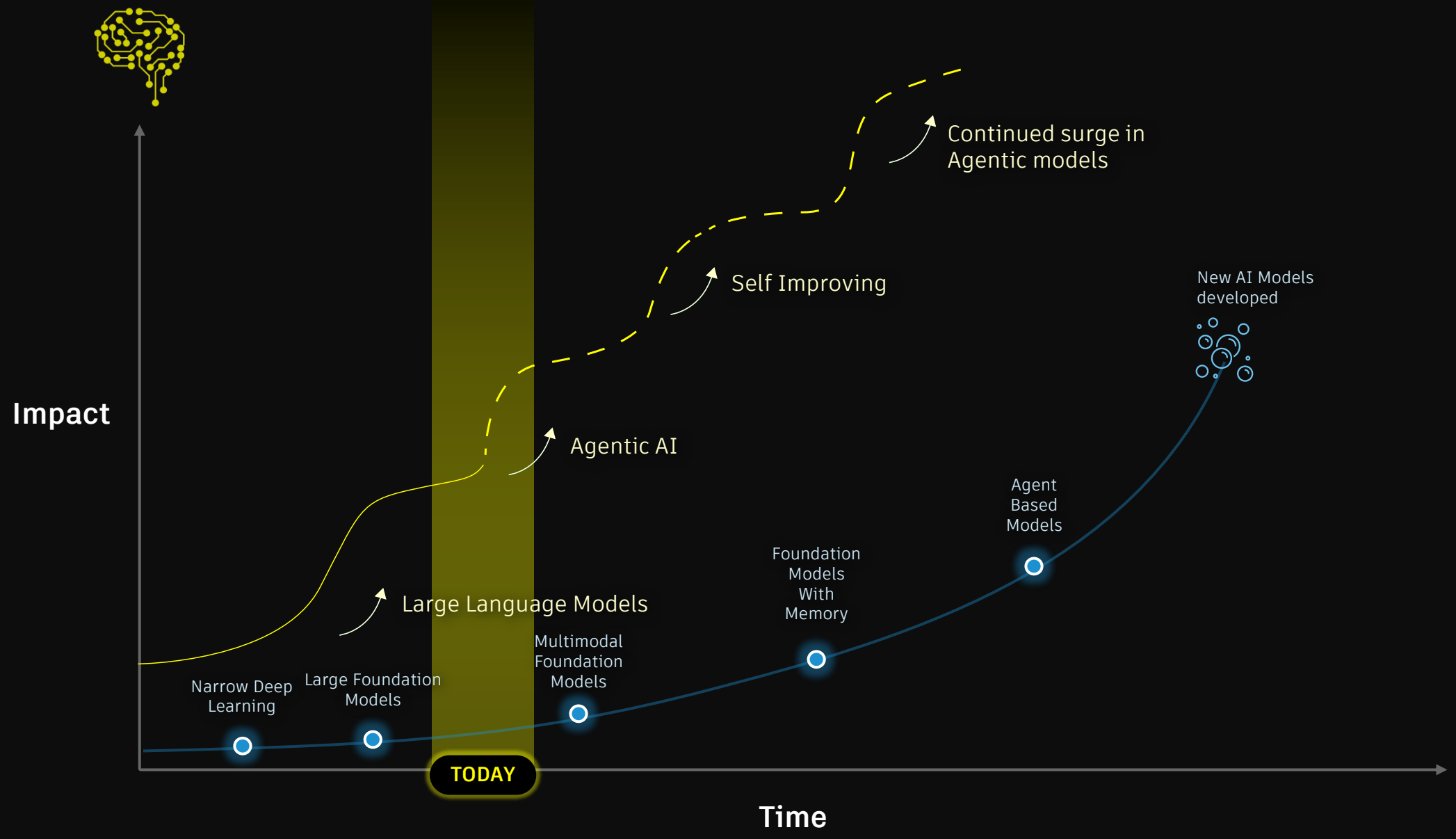
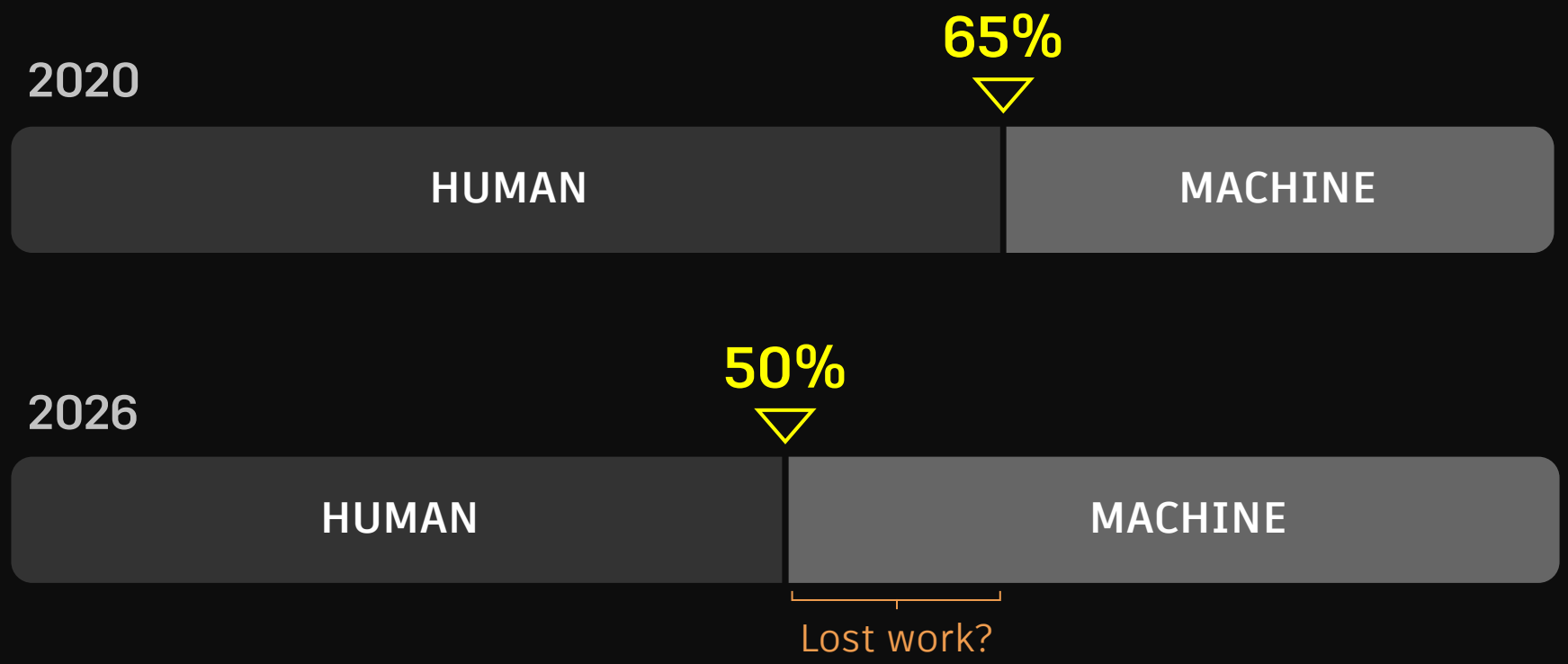

Quality
Supply chain disruption
Reshoring or nearshoring
Location
Throughput
Macroeconomic volatility
Talent challenges
Capacity
Capability
Speed
Cost
Sustainability
Artificial Intelligence
Cost
Inventory

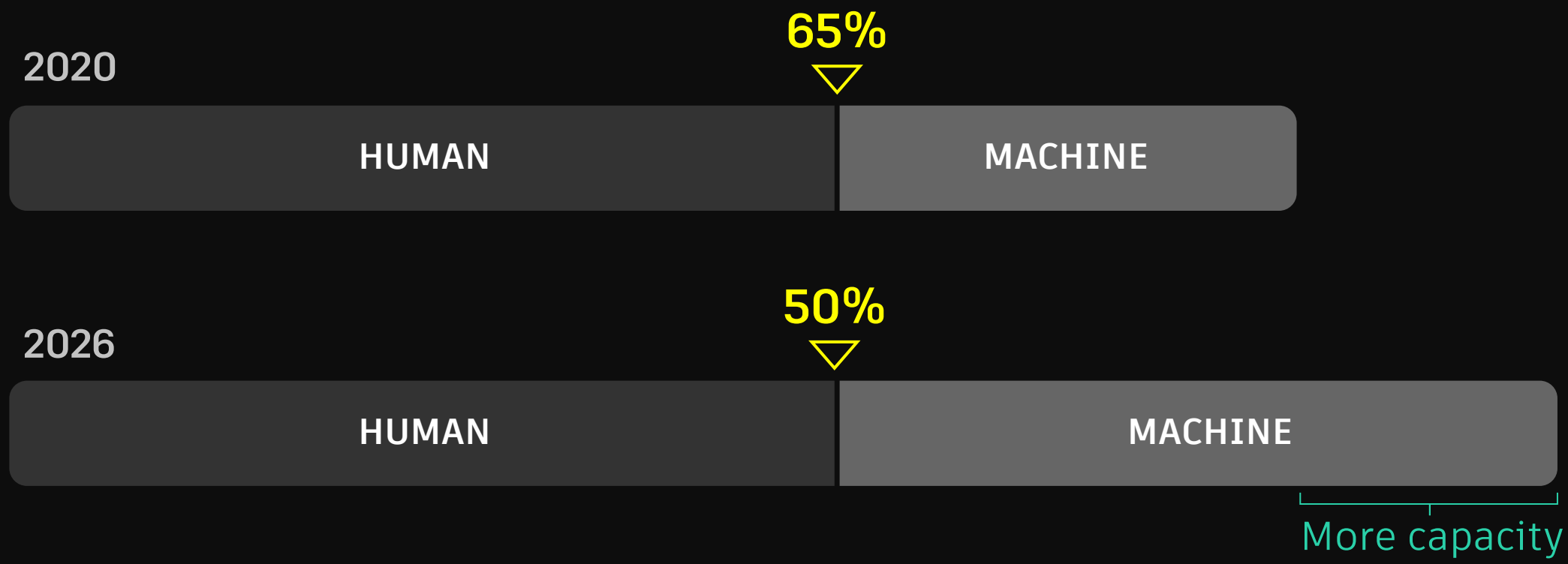

Impact
Time
Narrow Deep Learning
Large Foundation Models
Multimodal Foundation Models
Foundation Models With Memory
Agent Based Models
New AI Models developed


Impact
Time
TODAY
Narrow Deep Learning
Large Foundation Models
Multimodal Foundation Models
Foundation Models With Memory
Agent Based Models
New AI Models developed
Large Language Models
Agentic AI
Self Improving
Continued surge in Agentic models

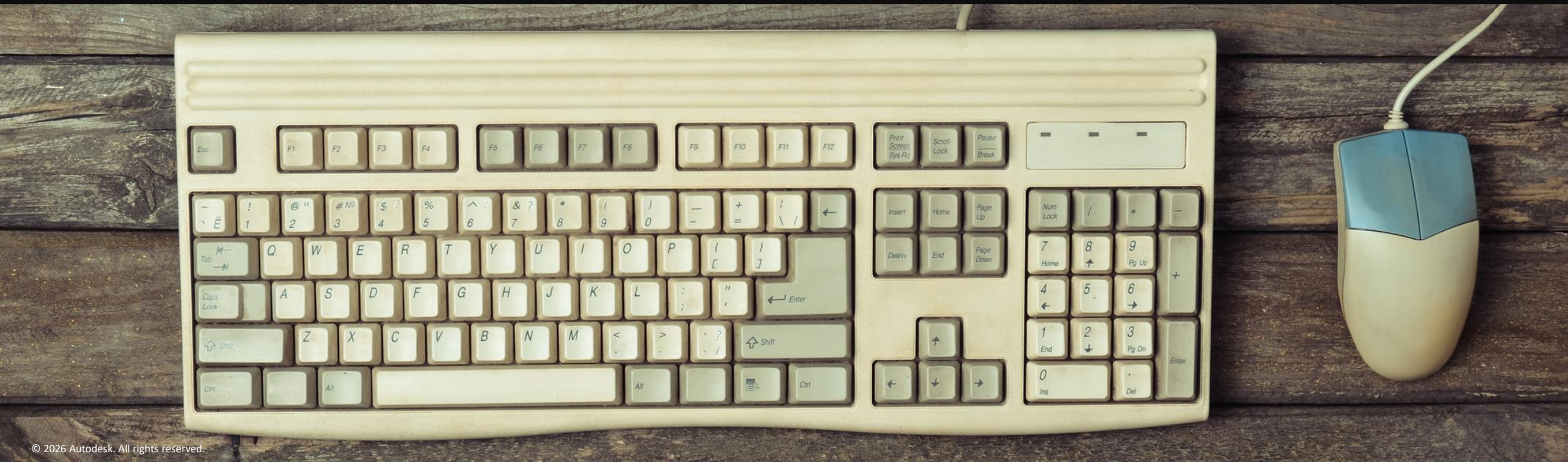
A new relationship with machines



A new relationship with machines



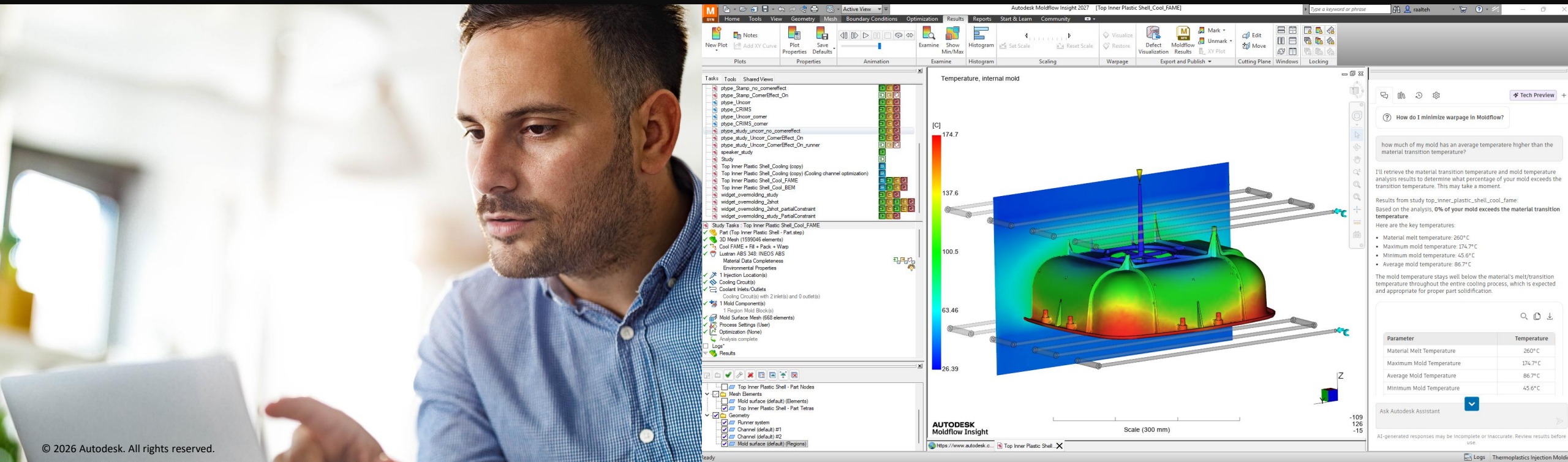
Traditional relationship with machines



New relationship with machines

"Conversation is the **new interface**"

Mustafa Suleyman, CEO, Inflection AI



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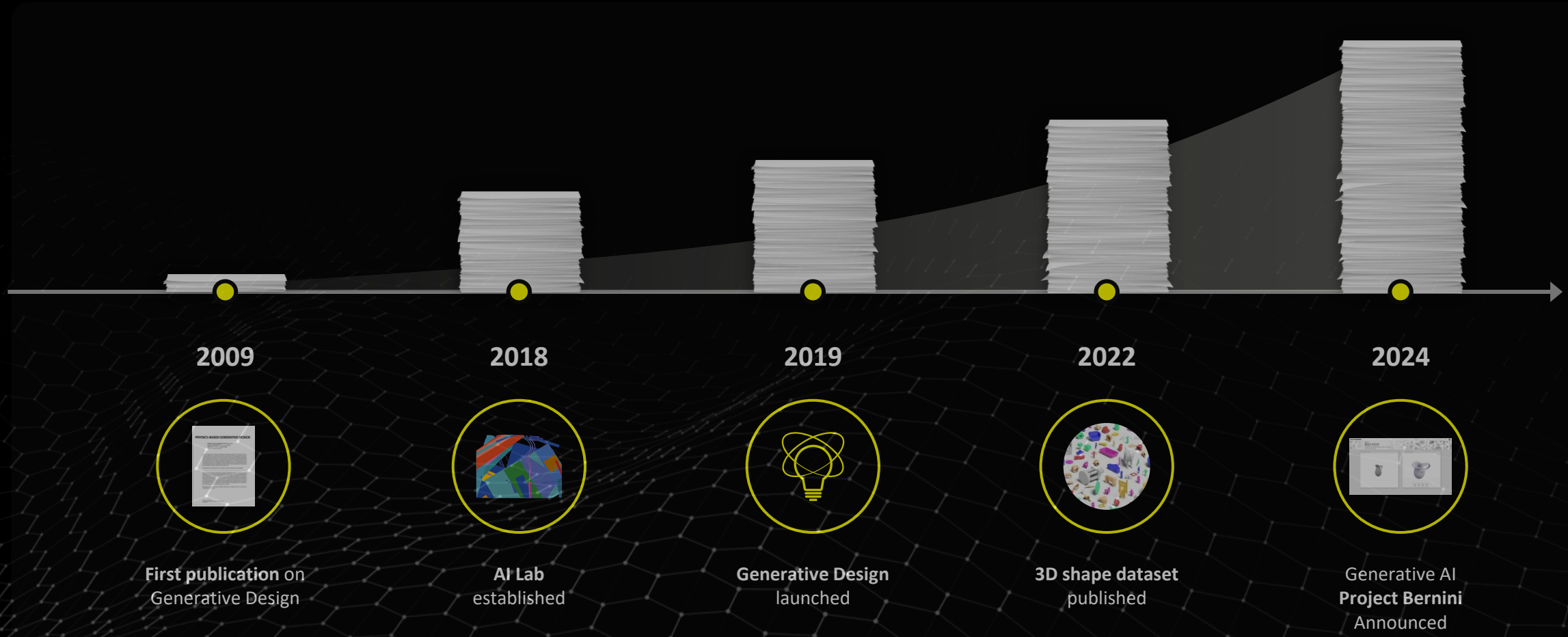
AUTODESK AI

Autodesk's AI Mission

Autodesk AI is built for Design and Make industries. With a focus on augmenting creative **exploration and problem-solving, automating tedious and repetitive tasks,** and assisting teams with **predictive insights** into their project data, Autodesk AI helps customers stay ahead of industry demands and technological shifts—bolstering ambition, creativity, and sustainability.

Autodesk’s history with AI



90+

AI Research papers

WorldSmith: Iterative and Expressive F
Building with a Generat

Hai Dang
hai.dang@uni-bayreuth.de
University of Bayreuth & Autodesk Research
Bayreuth, Bavaria, Germany

George Fitzmaurice
george.fitzmaurice@autodesk.com
Autodesk Research
Toronto, Ontario, Canada

BrepGen: A B-rep Generative Diffusion Model with Structure Geometry

XIANG XU, Simon Fraser University, Canada and Autodesk Research, Canada
JOSEPH G. LAMBOURNE, Autodesk Research, UK
PRADEEP KUMAR JAYARAMAN, Autodesk Research, Canada
ZHENGQING WANG, Simon Fraser University, Canada
KARL D.D. WILLIS, Autodesk Research, USA
YASUTAKA FURUKAWA, Simon Fraser University, Canada

CadVLM: Bridging Language and Vision in the Generation of Parametric CAD Sketches

Sifan Wu[1], Amir Hosein Khasahmadi[2], Mor Katz[2], Pradeep Kumar Jayaraman[2], Yewen Pu[2], Karl Willis[2], and Bang Liu[1]
[1] Université de Montréal & MILA, Montreal, Canada
[2] Autodesk AI Lab, Toronto, Canada

Experiential Views: Towards Human Experience Evaluation of Designed Spaces using Vision-Language Models

Bon Adriel Aseniero, Michael Lee, Yi Wang
Qian Zhou, Nastaran Shahmansouri, Rhys Goldstein
Autodesk Research, Toronto, Ontario, Canada

Sketch-A-Shape: Zero-Shot Sketch-to-3D Shape Generation

Aditya Sanghi, Pradeep Kumar Jayaraman, Arianna Rampini, Joseph Lambourne
Hooman Shayani, Evan Atherton, Saeid Asgari Taghanaki
Autodesk Research

CLIP-Forge: Towards Zero-Shot Text-to-Shape Generation

Aditya Sanghi[1], Hang Chu[1], Joseph G. Lambourne[1], Ye Wang[2]
Chin-Yi Cheng[1], Marco Fumero[2], Kamal Rahimi Malekshan[1]
[1]Autodesk AI Lab, [2]Autodesk Research
https://github.com/AutodeskAILab/Clip-Forge

GraphSeam: Supervised Graph Learning Framework for Semantic UV Mapping

FATEMEH TEIMURY, McGill University and Autodesk, Canada
BRUNO ROY, Autodesk, Canada
JUAN SEBASTIÁN CASALLAS, Autodesk, USA
DAVID MACDONALD, Autodesk, Canada
MARK COATES, McGill University, Canada

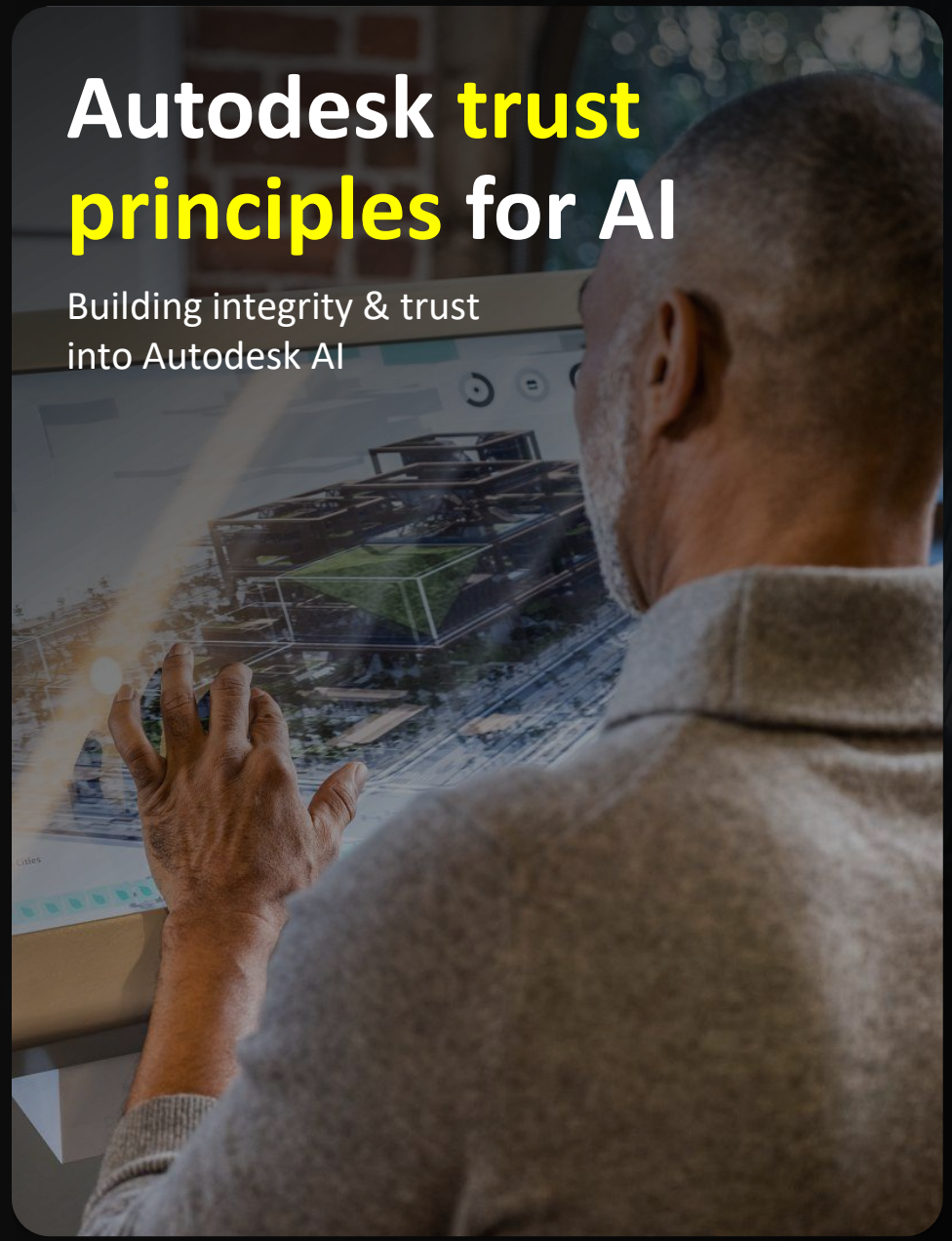
Hierarchical Neural Coding for Controllable CAD Model Generation

Xiang Xu[1]* Pradeep Kumar Jayaraman[2] Joseph G. Lambourne[2] Karl D.D. Willis[2] Yasutaka Furukawa[1]

arXiv:2307.00149v1 [cs.CV] 30 Jun 2023

Autodesk trust principles for AI

Building integrity & trust into Autodesk AI



Responsible

We hold ourselves to high standards in acquiring and managing data as well as training and delivering fair and safe AI models.

Transparent

We are forthcoming about the design, development, and intended use of AI systems and data.

Accountable

We are committed to respecting the choices of our customers and aligning to laws and regulations.

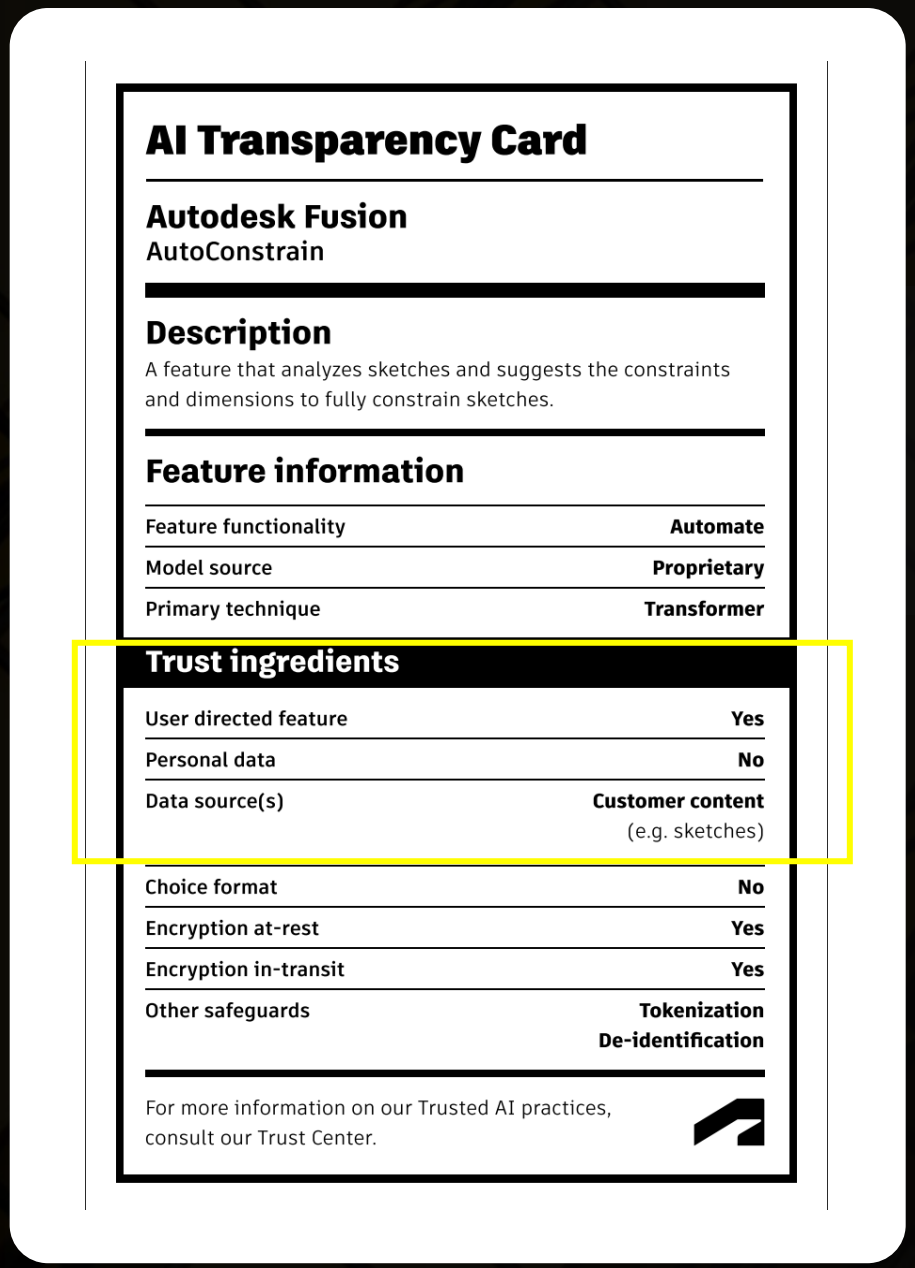
Reliable

We are rigorous in building AI systems that strive to provide accuracy, validity, and consistency.

Safe & Secure

We employ robust practices throughout the AI lifecycle to protect customer data, intellectual property, and privacy, and to produce safe outcomes.

Autodesk AI transparency



AI Transparency Card

Autodesk Fusion
AutoConstrain

Description
A feature that analyzes sketches and suggests the constraints and dimensions to fully constrain sketches.

Feature information

Feature functionality	**Automate**
Model source	**Proprietary**
Primary technique	**Transformer**

Trust ingredients

User directed feature	**Yes**
Personal data	**No**
Data source(s)	**Customer content** (e.g. sketches)
Choice format	**No**
Encryption at-rest	**Yes**
Encryption in-transit	**Yes**
Other safeguards	**Tokenization** **De-identification**

For more information on our Trusted AI practices, consult our Trust Center.

COMMITMENT TO OPENNESS

We publish AI transparency cards on **Autodesk's Trust Center** and will continue to evolve them to provide transparent information.

- **Underlying AI methods**

  What the feature does, how it works, and 3rd party vendor considerations.

- **Privacy considerations**

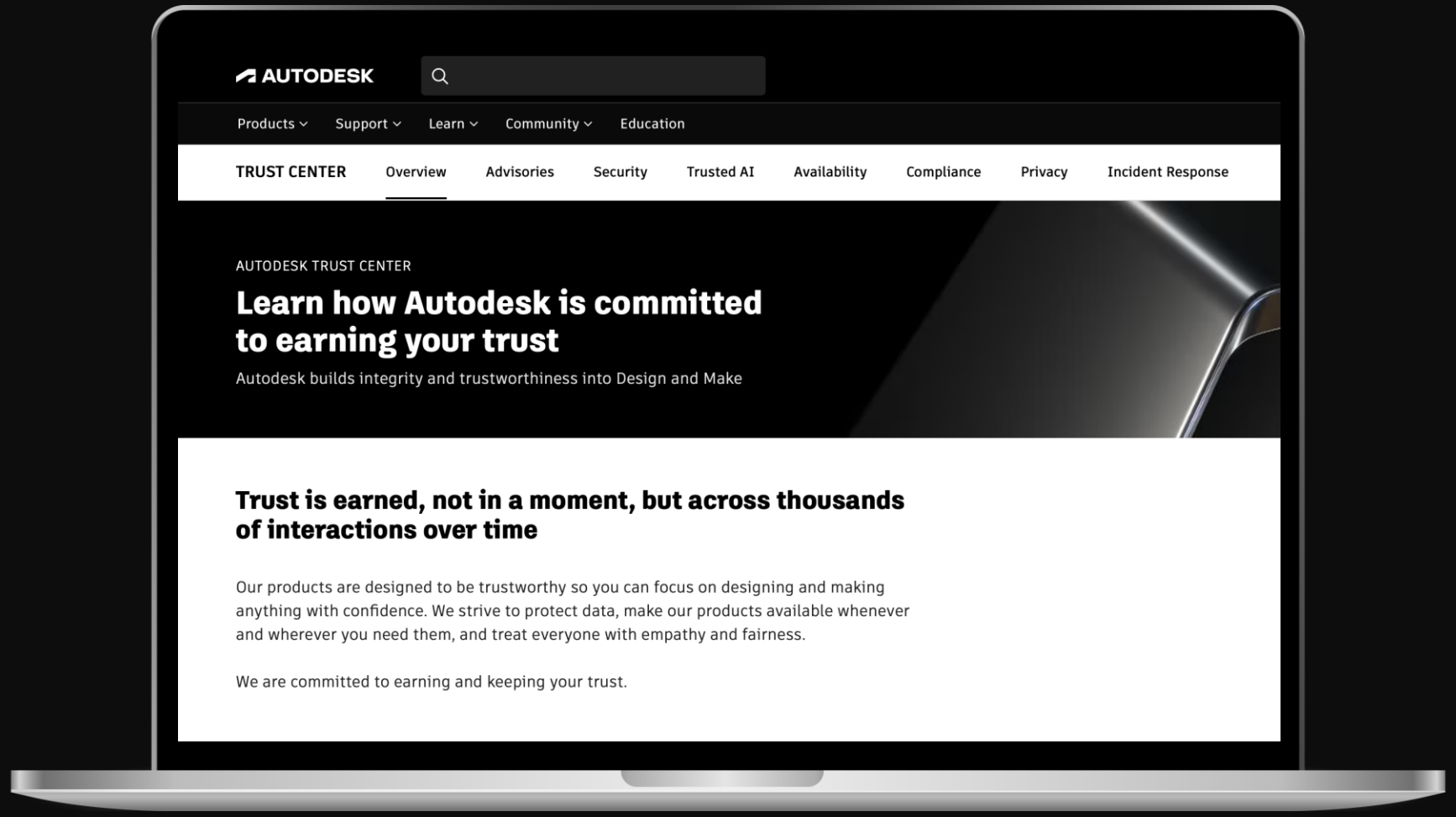
  If personal data is used, what additional safeguards are in place to protect privacy.

- **Data protection measures**

  If data is needed for training what kind, which elements of customer content, and measures in place to protect IP.

Online Trust Center

trust.autodesk.com



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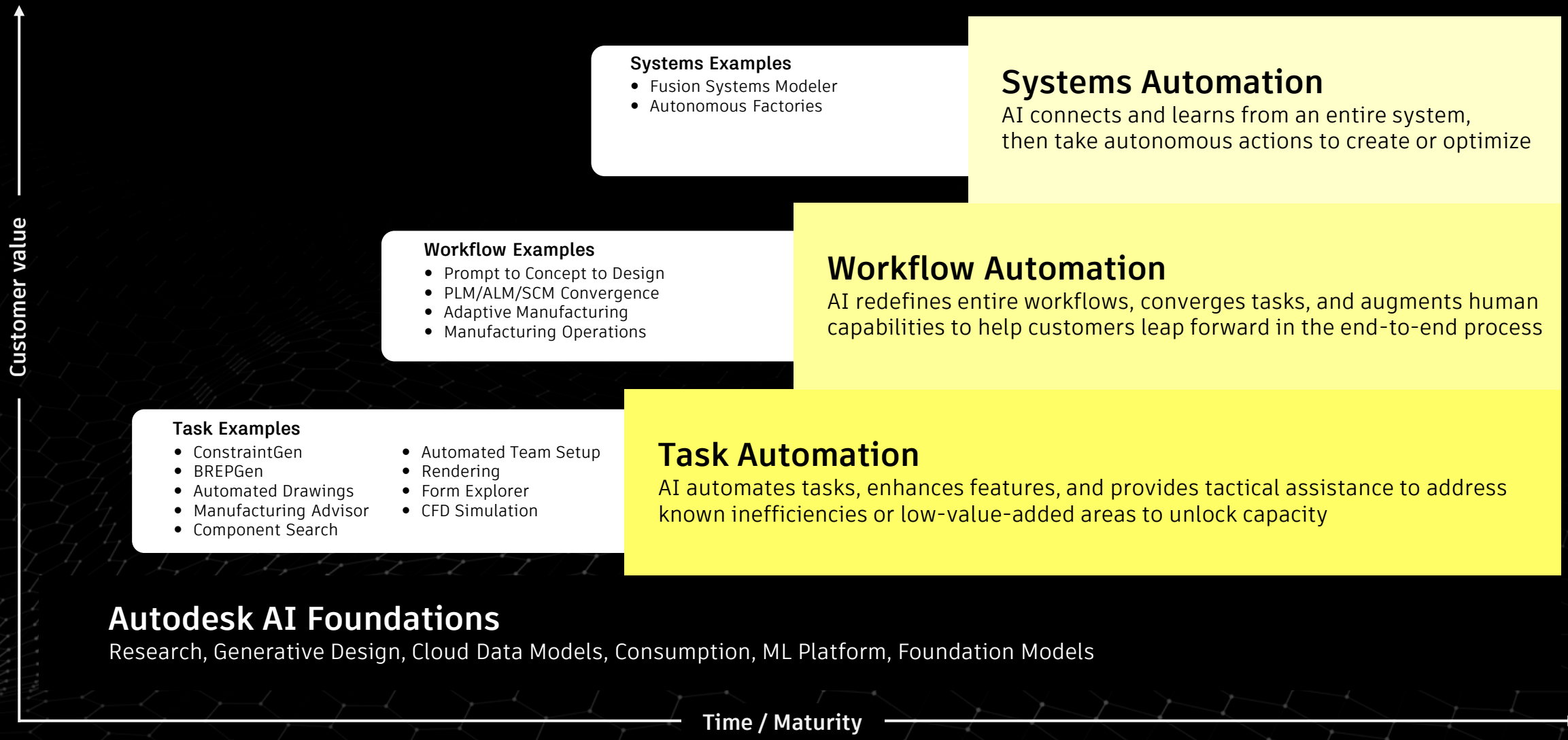
Features powered by Autodesk AI

Industry	AI-Powered Feature	Product
AECO	Inference Node	Dynamo
	ML Node Autocomplete	Dynamo
	Rapid Wind Analysis	Forma
	Rapid Noise Analysis	Forma
	Embodied Carbon Analysis	Forma
	Site Automation	Forma
	Machine Learning Deluge	InfoDrainage
	Generative Design in Revit	Revit
	Smart Block: Replacement	AutoCAD
	Smart Blocks: Detect and Convert	AutoCAD
	My Insights: Macro Advisor	AutoCAD
	Markup Import & Assist	AutoCAD
	Search and Convert	AutoCAD
AECO + D&M	My Insights	AutoCAD, Revit, Civil 3D, and Fusion
Construction	AI Assistant for Construction	Construction Cloud
	Automated Specifications Sectioning	Construction Cloud
	Automated Submittals Logs	AutoSpecs
	Automated Symbol Detection	Takeoff
	Construction IQ	Construction Cloud
	Photo Autotags	Construction Cloud
	Financial Data Extraction	TradeTapp
	Bid Forwarding	BuildingConnected
	Automated Plan Processing	Construction Cloud
	Subcontractor Recommendations	BuildingConnected
	Automated Object Generation	ConstructionCloud

Industry	AI-Powered Feature	Product
Product Design & Manufacturing	AutoConstrain	Fusion
	Fastener Classification for Drawing Automation	Fusion
	Manufacturing Advisor	Fusion
	Generative Design Clustering	Fusion
	Generative Design Optimization	Fusion
	Feeds and Speeds Recommendation	Fusion
	Search Results Relevance in Fasteners library	Fusion
	Form Explorer	Alias
	Performance driven design	Navpack
	Inventor Automation with Autodesk Assistant	Inventor
	Vault Automation with Autodesk Assistant	Vault
	Moldflow Automation with Autodesk Assistant	Moldflow
Media & Entertainment	Camera Analysis	Flame
	ML Timewrap	Flame
	Human Face Semantic Keyer	Flame
	Salient Keyer	Flame
	Sky Extraction Keyer	Flame
	ML Morph	Flame
	Human Body Semantic Keyer	Flame
	ML Dept	Flame
	Inference Node	Flame
	Machine Learning Upscale	Flame
	ML Deformer	Flame
	MotionMaker	Maya
	Flow Generative Scheduling	Flow
	TBC	WonderDynamics

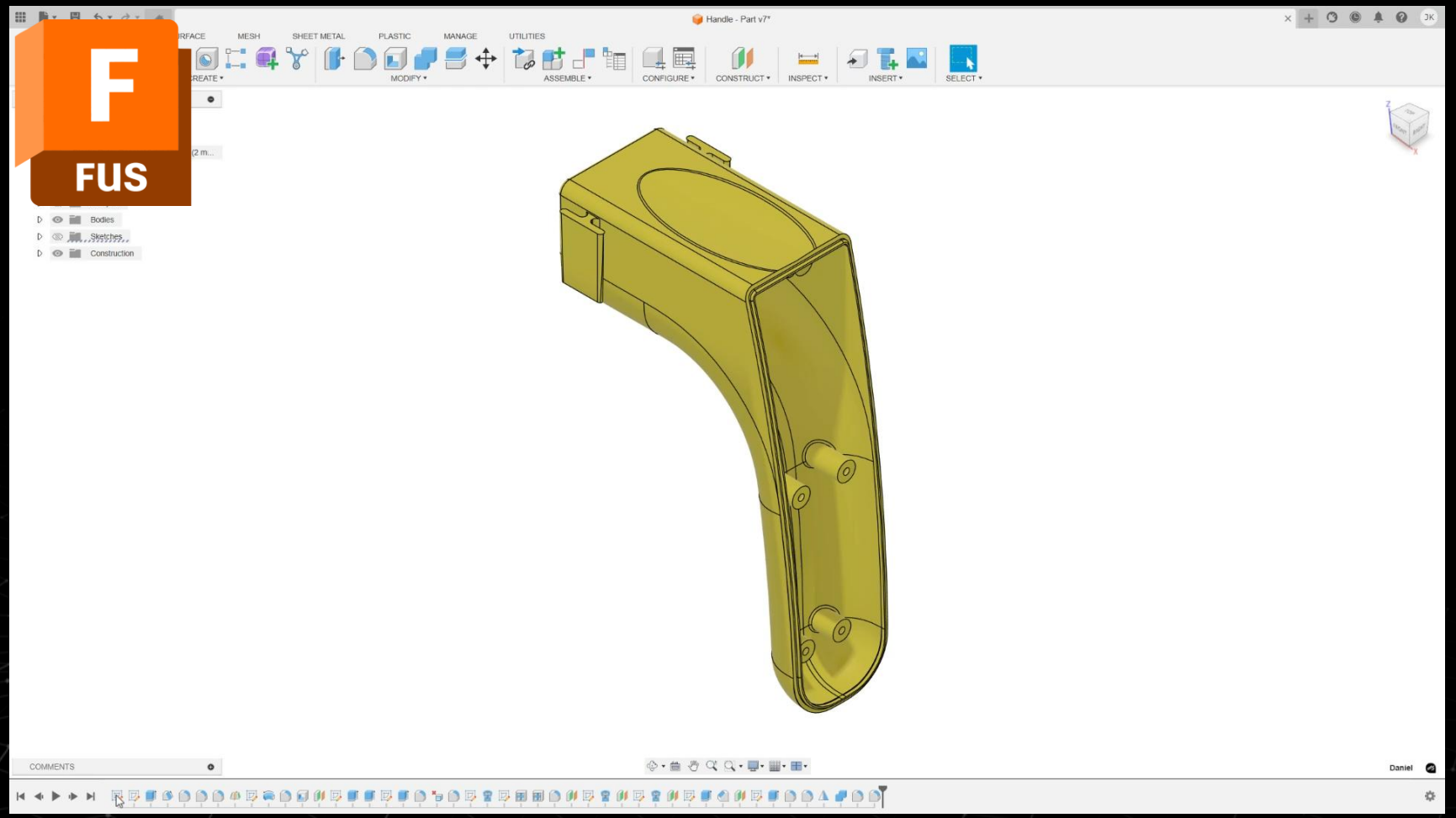
Path Ahead – AI Capability Framework to deliver value



Task Automation | Sketch AutoConstrain

Description:
Streamlines the design process by automatically applying constraints during 2D and 3D sketching as well as repairing common sketch issues, speeding up workflow and reducing manual input.

Value Proposition:
- Reduce Non-Value-Add Processes
- Reduce Resource Consumption
- Reduce Defects and Non-Conformities
- Improve Quality and Reliability

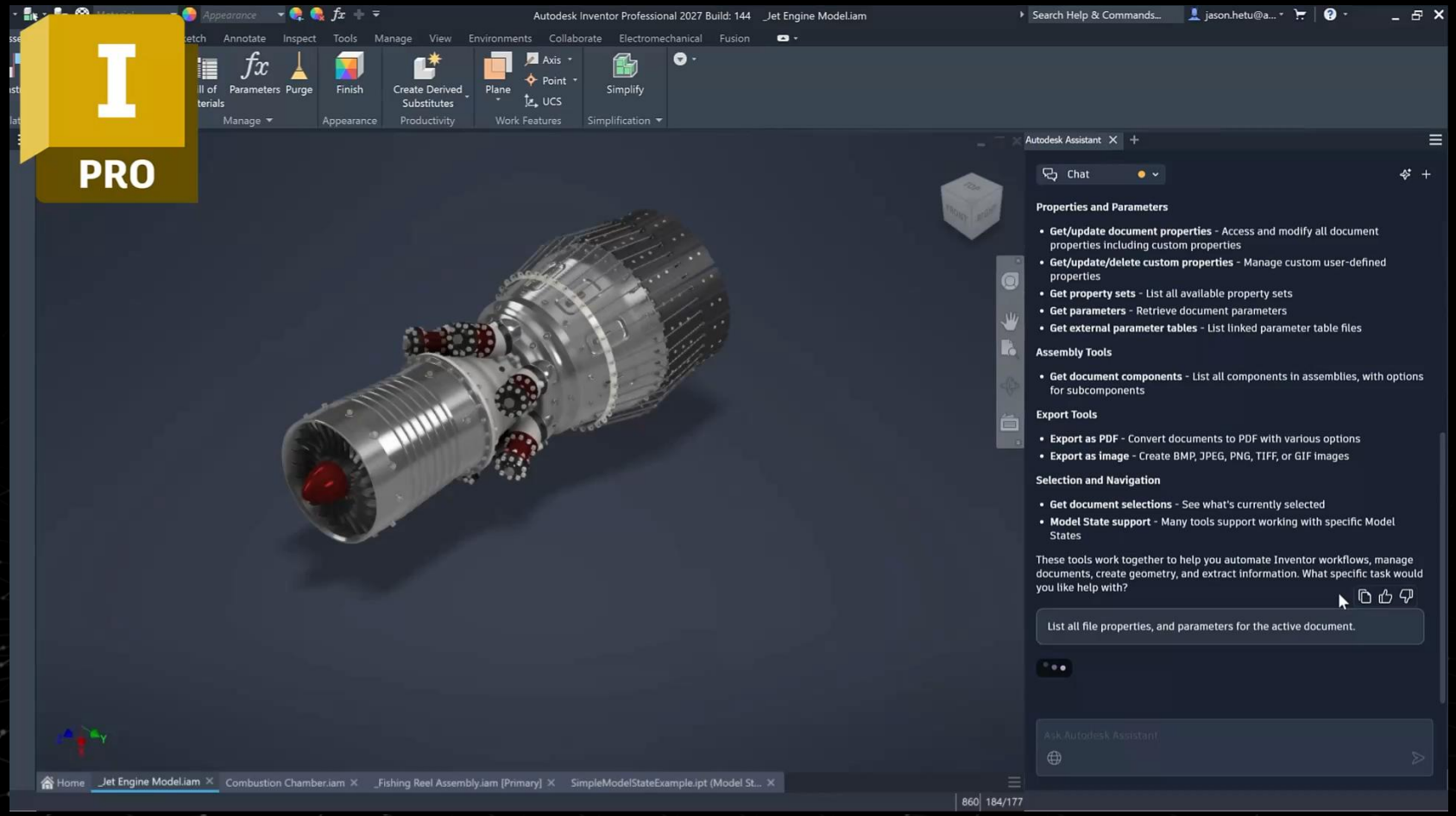


Task Automation | Model Interrogation

Description: Chat with Autodesk Assistant to work directly with your Inventor models, properties, and documents through natural language commands.

Value Proposition:

- Faster discovery and selection of components, features, and properties across open documents
- Read and write iProperties, parameters, and instance data without navigating dialogs
- Automate repetitive tasks like updates, exports, appearance changes, and BOM cleanup
- Hands-on model control through conversational prompts instead of manual workflows

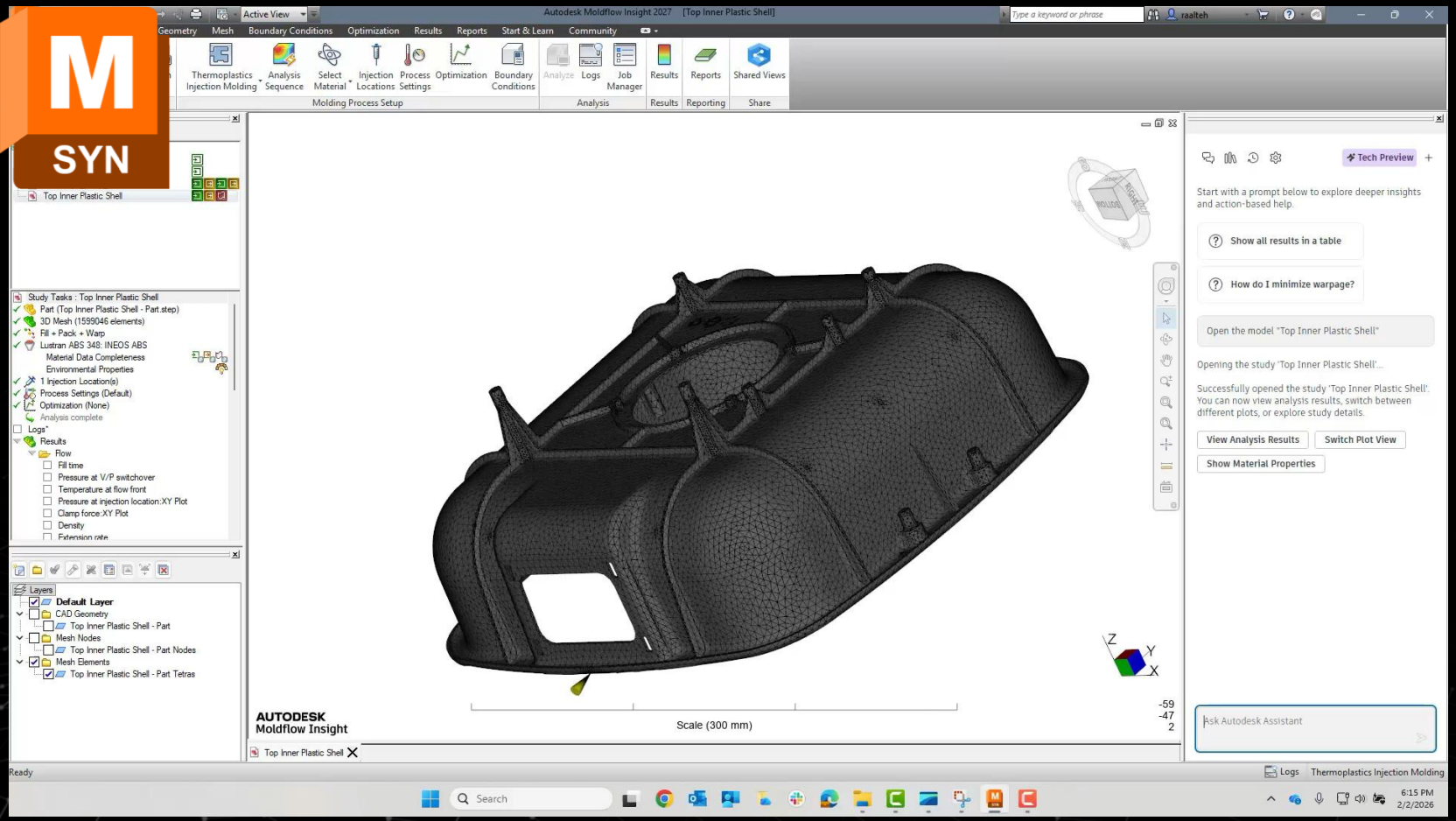


Task Automation | Simulation Assistance

Description: Chat with Autodesk Assistant to interpret Moldflow simulation results, get guidance on injection molding challenges, and take action directly within your analysis environment.

Value Proposition:

- Plain-language summaries of complex simulation results, highlighting key risks like fill problems, weld lines, and warpage
- Guided recommendations for process and design changes informed by analysis data and Moldflow domain expertise
- Lower barrier to entry for new or occasional users who need expert-level interpretation without deep simulation background

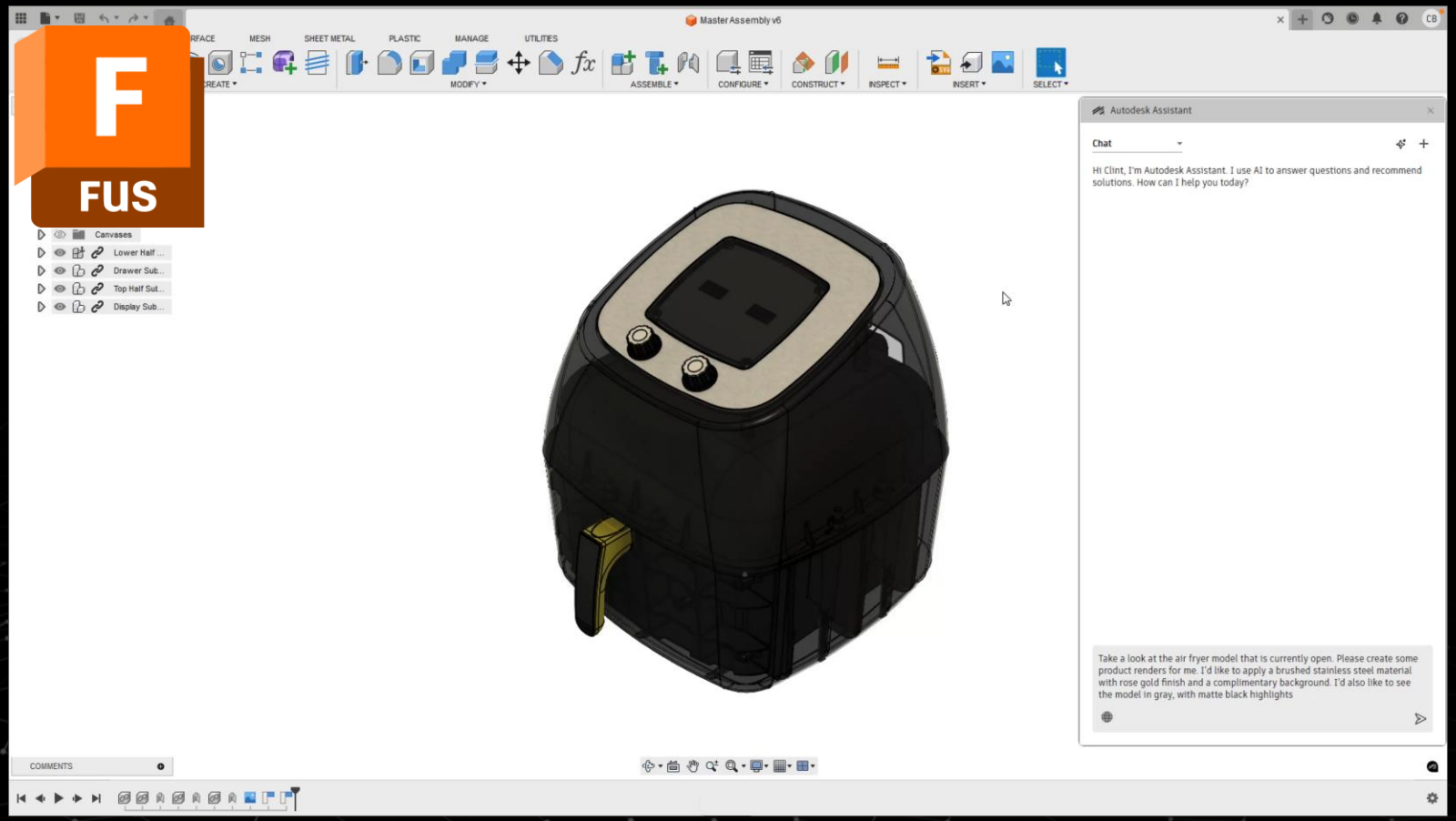


Workflow Automation | Media Generation

Description: Through a collaboration with Microsoft, we have enabled new workflows for the creation of high quality AI generated product imagery and aggregation of those into a curated Microsoft PowerPoint presentation for design reviews

Value Proposition:

- Reduce Non-Value-Add Processes
- Reduce Resource Consumption
- Reduce Defects and Non-Conformities
- Improve Documentation and Collaboration



Workflow Automation | Form Exploration

Description:
A powerful in-product assistant that enables rapid exploration and creation of automotive concepts, offering intuitive 3D proportional design assistance and performance insights directly within the Alias environment

Value Proposition:
- Unlock Design Creativity
- Reduce Time to Design Approval
- Reduce Non Value-Add Processes
- Improve Product Personalization

Autodesk
MCP Servers*

**in progress*

AUTODESK

Model Context Protocol

What is MCP?

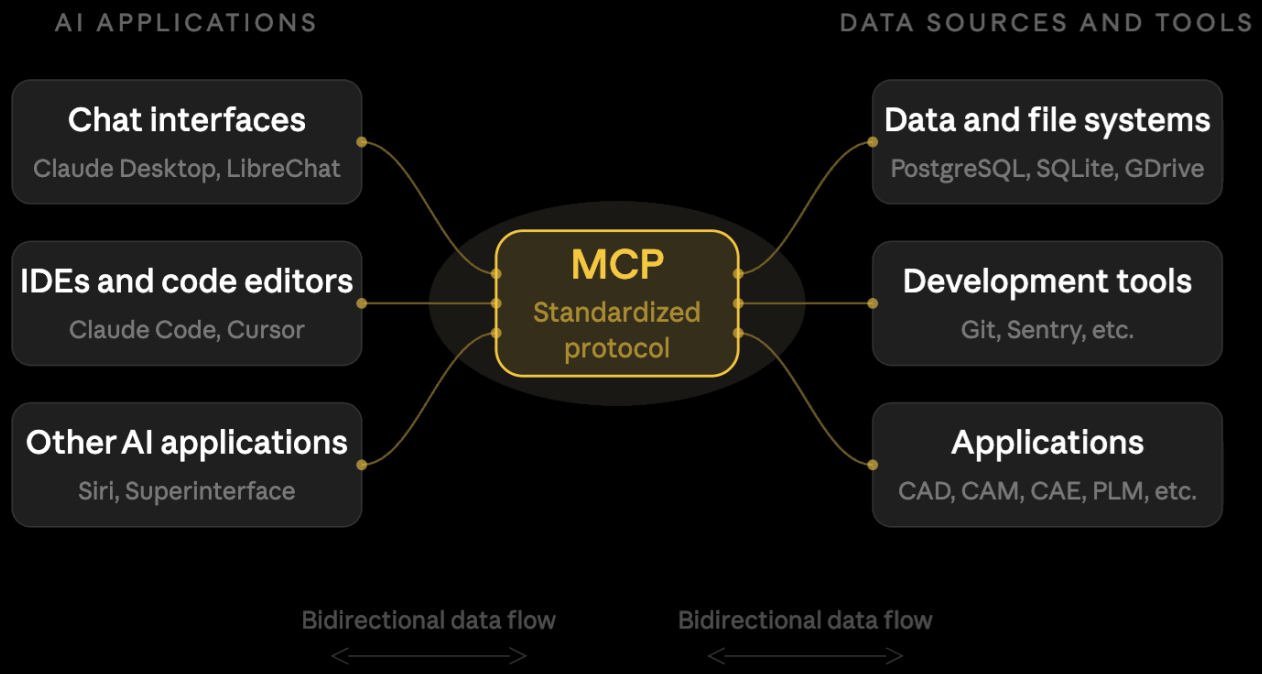
- Standardized protocol for AI ↔ tools & data
- Connects models to real-world systems
- Enables seamless, bidirectional integration

Why it Matters

- AI is limited without access to real systems
- Today's integrations are fragmented and manual
- MCP unlocks scalable, reusable connectivity

The Impact

- Faster workflows
- Less manual effort
- More reliable, consistent outcomes



Why Autodesk MCP Servers?

01

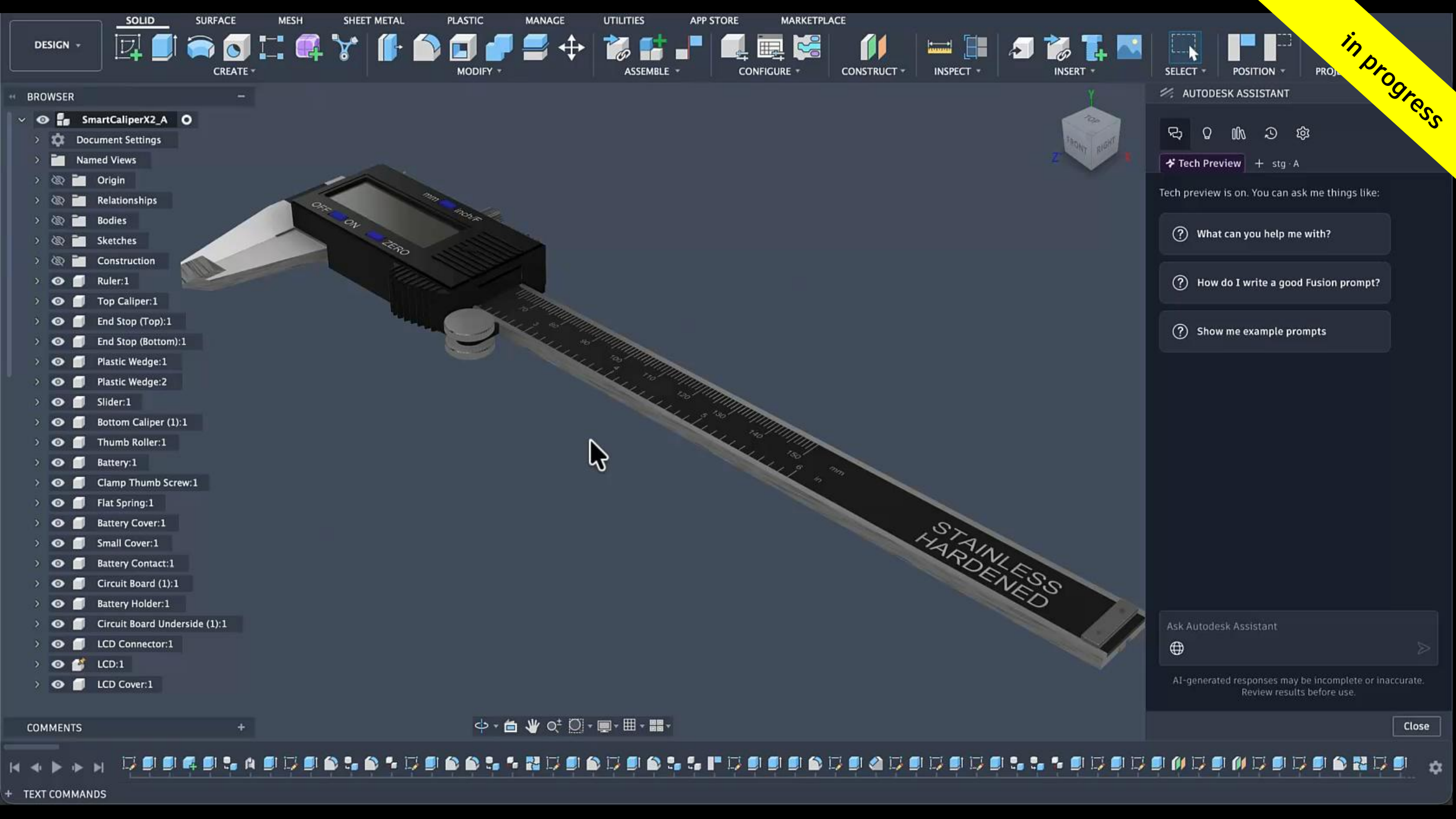
Enterprise ready security

02

Reliable, resilient, smart

03

Context-aware


in progress
DESIGN
SOLID
SURFACE
MESH
SHEET METAL
PLASTIC
MANAGE
UTILITIES
APP STORE
MARKETPLACE
CREATE
MODIFY
ASSEMBLE
CONFIGURE
CONSTRUCT
INSPECT
INSERT
SELECT
POSITION
BROWSER
SmartCaliperX2_A
Document Settings
Named Views
Origin
Relationships
Bodies
Sketches
Construction
Ruler:1
Top Caliper:1
End Stop (Top):1
End Stop (Bottom):1
Plastic Wedge:1
Plastic Wedge:2
Slider:1
Bottom Caliper (1):1
Thumb Roller:1
Battery:1
Clamp Thumb Screw:1
Flat Spring:1
Battery Cover:1
Small Cover:1
Battery Contact:1
Circuit Board (1):1
Battery Holder:1
Circuit Board Underside (1):1
LCD Connector:1
LCD:1
LCD Cover:1
OFF
ON
ZERO
mm
inch
STAINLESS
HARDENED
AUTODESK ASSISTANT
Tech Preview
stg · A
Tech preview is on. You can ask me things like:
What can you help me with?
How do I write a good Fusion prompt?
Show me example prompts
Ask Autodesk Assistant
AI-generated responses may be incomplete or inaccurate.
Review results before use.
Close
COMMENTS
TEXT COMMANDS

Systems Automation | Remote MCP Servers

in progress

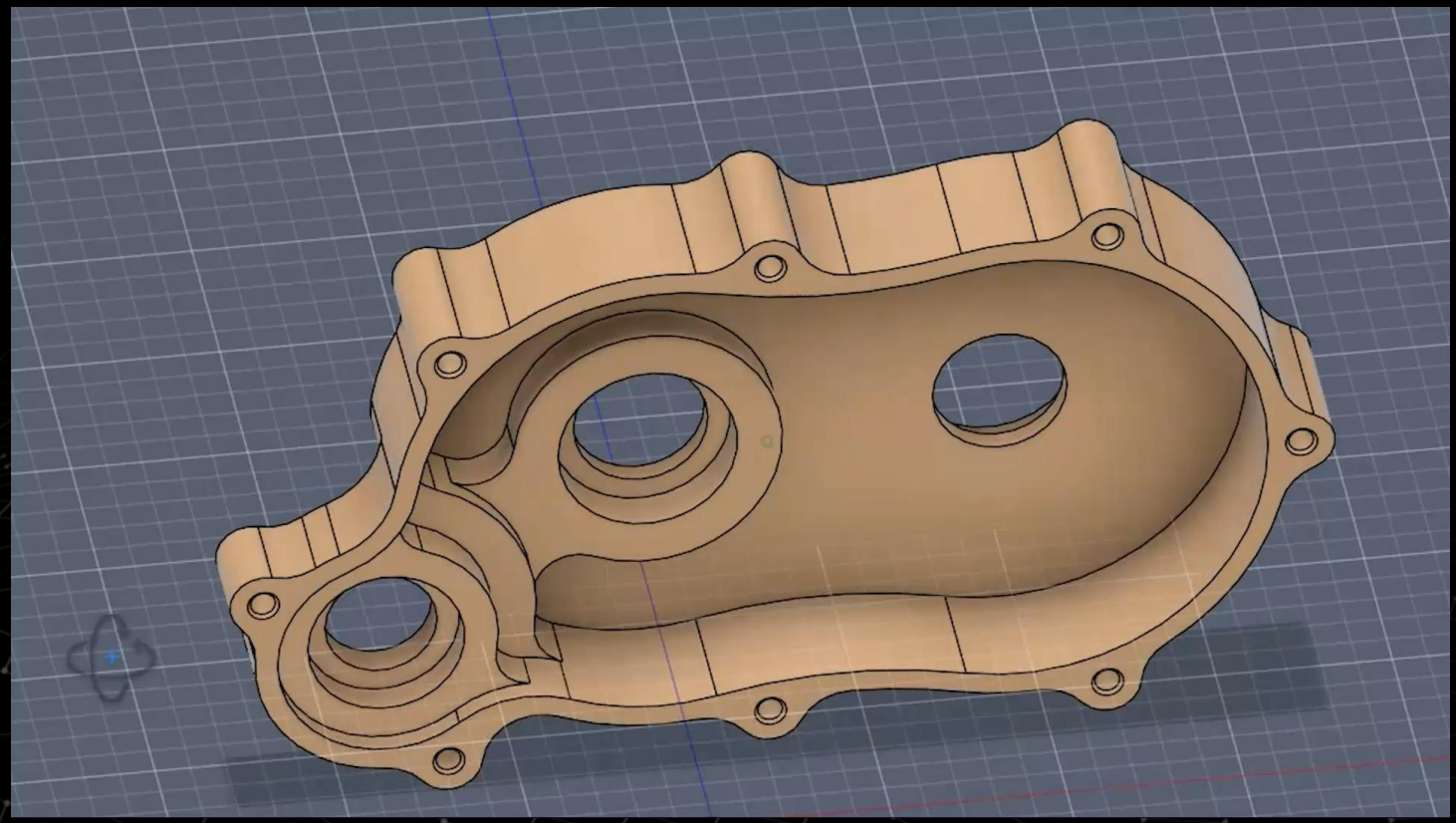
Description: Connect any AI client to Autodesk's data and automation engines in the cloud through MCPs that allow live read/write access to data and provide a session orchestrator that lets agents design, iterate, and export without a local installation.

Value Proposition

- Secure, cloud-based access to data and automation engines in Autodesk Platform Services
- Persistent, multi-step design sessions driven by natural language from any MCP-compatible client
- No local product installation required, enabling CI/CD pipelines, multi-agent workflows, and partner integrations
- AI coding assistants like Cursor, Claude Code, and Copilot can autonomously create, modify, and validate CAD models

Autodesk MCP Servers

Autodesk MCP Servers standardize design and make context to enable integrated, secure, and scalable collaboration across tools and teams.



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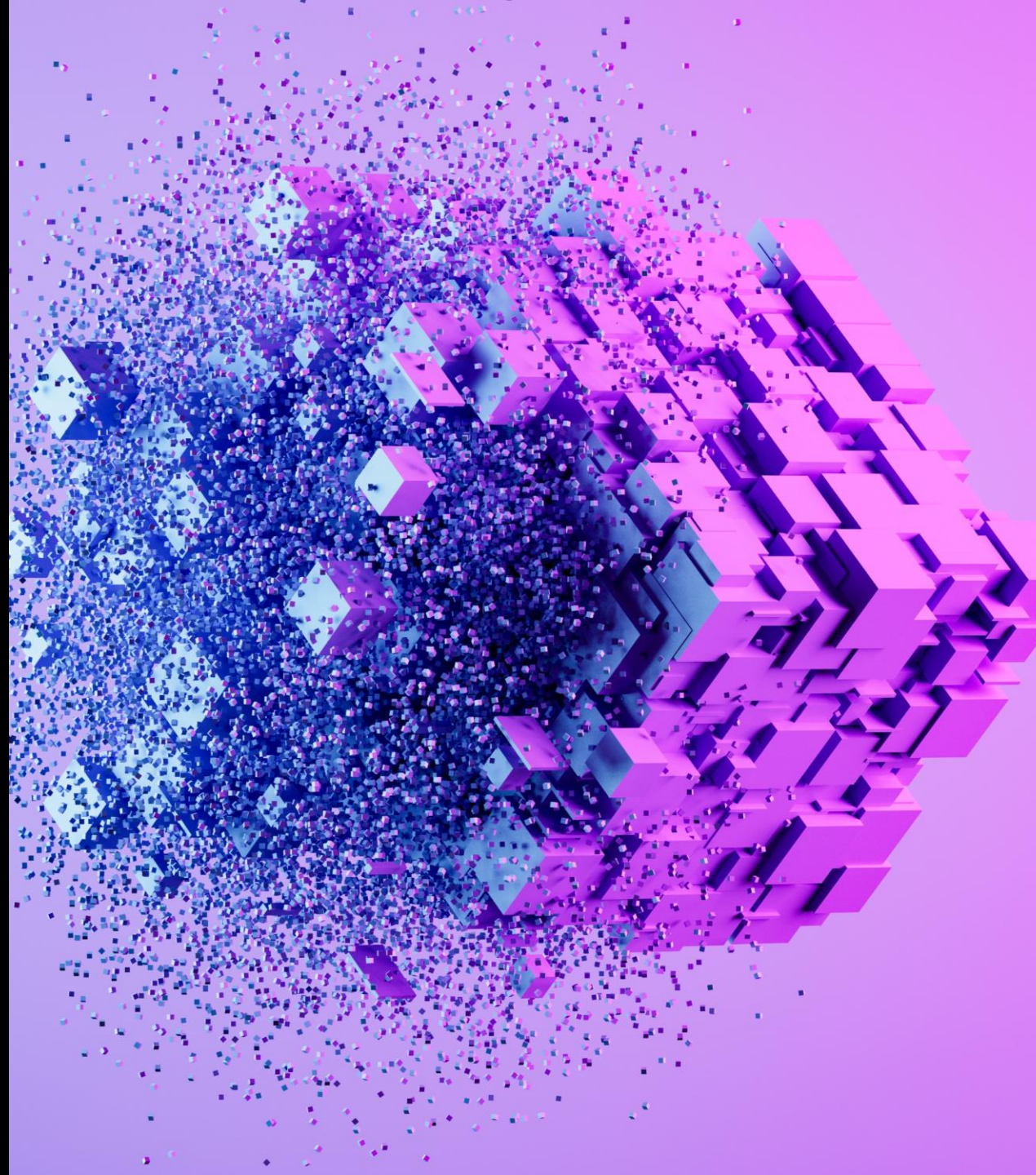
Recommendations

1. **Embrace the moment.**
   Organizations that lean in now will define the next era of design and manufacturing.

2. **Explore what's available today**
   These capabilities are in your hands right now. Know what they can do for your teams.

3. **Get hands on** Encourage your teams to experiment on real problems and build confidence through practice.




AUTODESK
Make Anything