

Deep Learning for Engineering Intelligence

FROM FUNCTIONAL REQUIREMENTS TO GROUNDBREAKING PRODUCT DESIGNS

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Neural Concept

Deep Learning for Engineering Intelligence

Overview

- Pioneers & Leaders in Deep Learning for Engineering since 2018
- First to come on the market with 3D DL Surrogates and Generative models
- Technology spin-off from EPFL
- Team of 65 and growing

Strong sectors

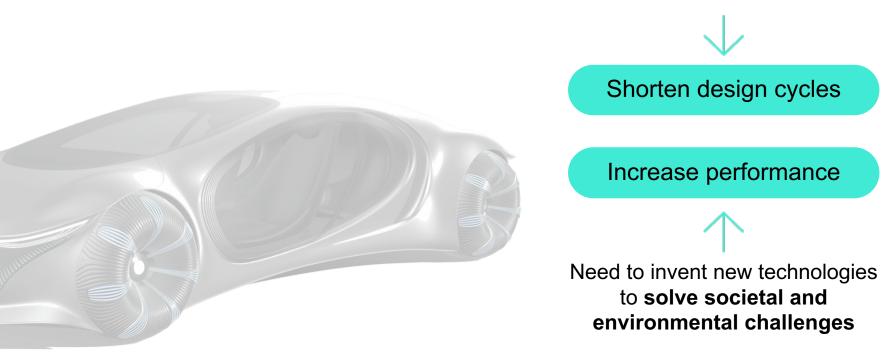
- Automotive OEMs. 50% of Japanese OEMs, 50% of German OEMs as customers
- Automotive suppliers. 35% of top 30 suppliers as customers
- Other relevant markets: Tech, Aerospace, Micro-Electronics.



Engineering companies are facing unprecedented challenges

Design faster and innovate better

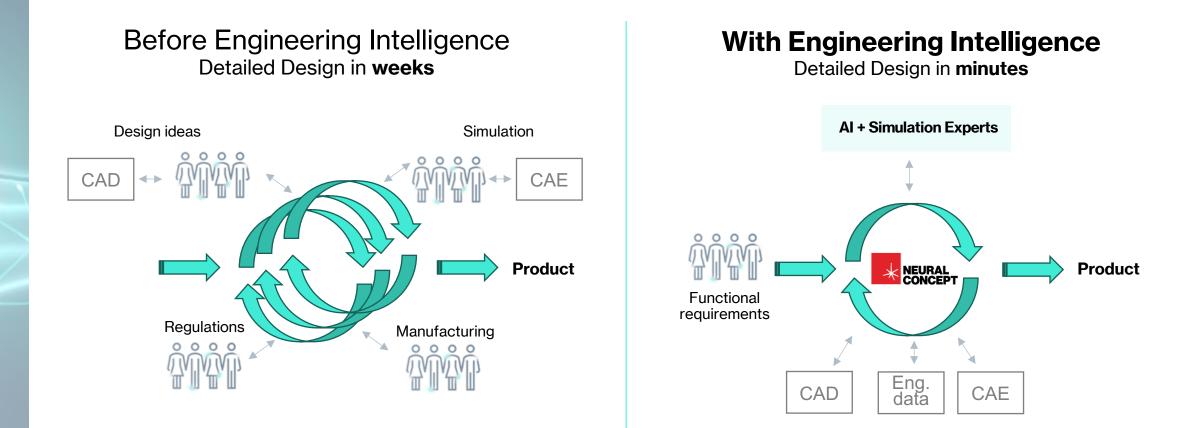
Industrial companies need to keep up with **accelerating technological innovation and growing competition**. Need to **develop hardware at the pace of software** (3x faster) to beat the competition



Industrial companies need to keep up with accelerating technological innovation and growing competition

Only one way to achieve this transformation

From product requirements to groundbreaking product designs with AI



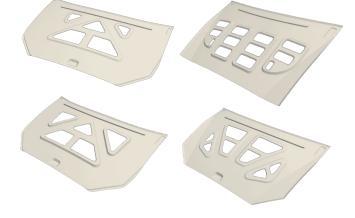
Endless iterations between designer and simulation teams for component designs are delegated

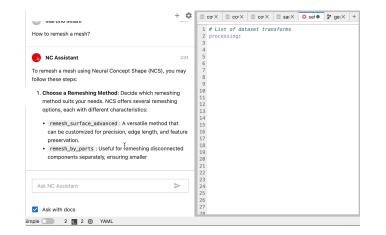
to intelligent algorithms driving CAD/CAE/PLM autonomously

Made possible by recent technology breakthrough

Combining engineering data with deep-learning opens incredible technological possibilities







Physics-based predictive models allow to simulate 10 to 10'000 times faster, directly from 3D CAD Deep Generative models output plausible and innovative geometries at **100/min rate**

Large Language Models are redefining the CAD and CAE User Experience

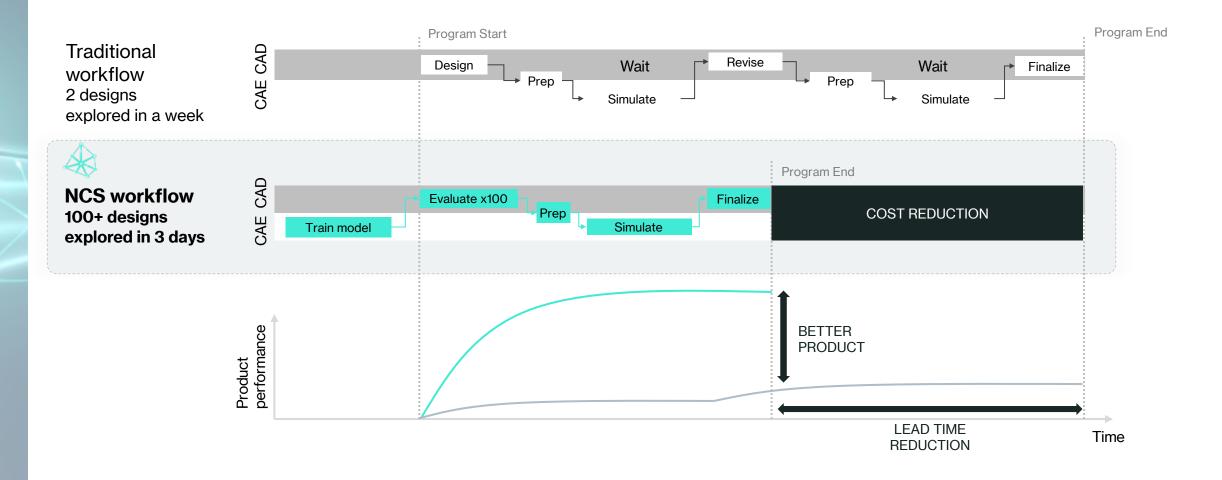
These technological evolutions are bringing a paradigm shift in engineering

and opening the road to Engineering Intelligence

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Better product and much faster time to market

Anticipate RFQs or project starts by bringing AI work upstream



Thank you!

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