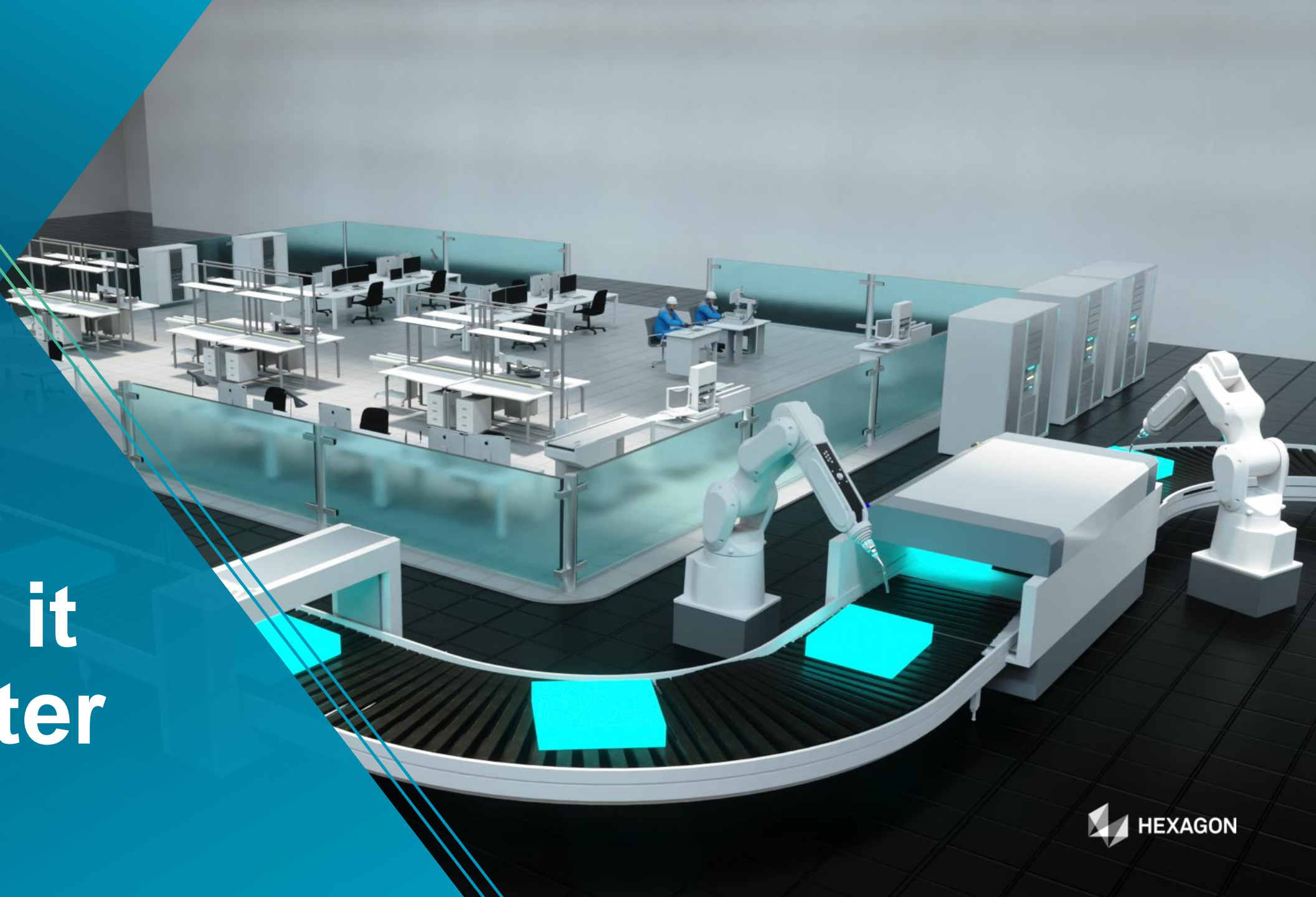




**HEXAGON**

**Solutions for the  
Smart Factory**

**Make it  
smarter**





“

**We improve quality and  
productivity for our  
customers by making their  
factories smarter.”**



# Building the leading technology portfolio for smarter manufacturing



Add Smart Factory Video from Bynder:  
***[https://hexagonmi.getbynder.com/m/400d20ab26ce0c7d/6A86AC18-Hexagon-MI-Company-Video-2019\\_EN.mp4](https://hexagonmi.getbynder.com/m/400d20ab26ce0c7d/6A86AC18-Hexagon-MI-Company-Video-2019_EN.mp4)***

# Ecosystem for smarter manufacturing







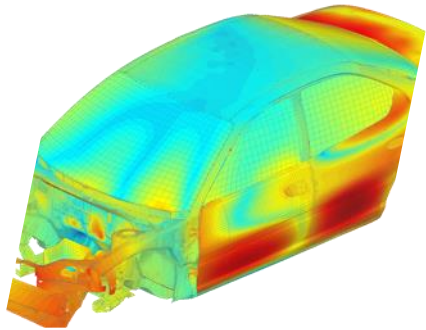
## Design and engineering

- Optimise designs
- Ensure manufacturability
- Reduce physical prototypes

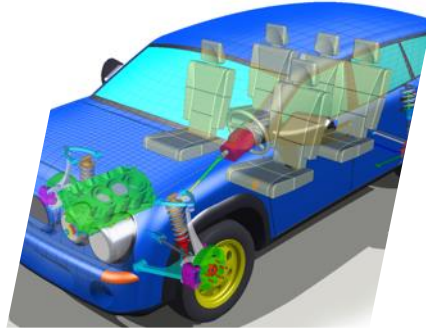
Multiphysics co-simulation

# Design and engineering

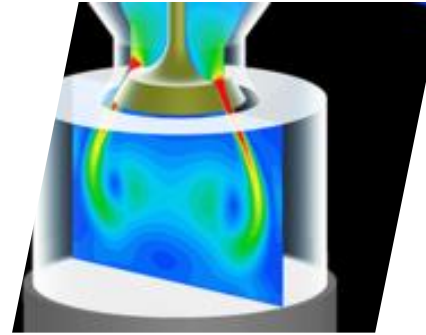
**Structural analysis**



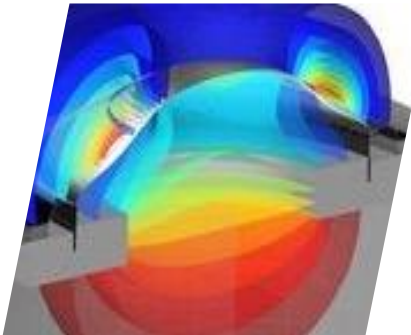
**Multibody dynamics**



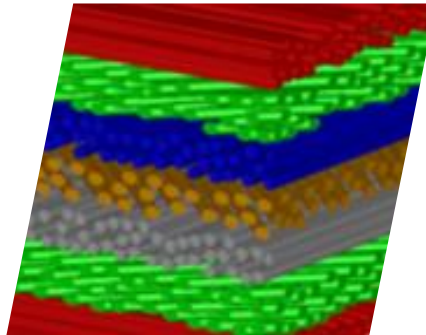
**Thermal and fluid dynamics**



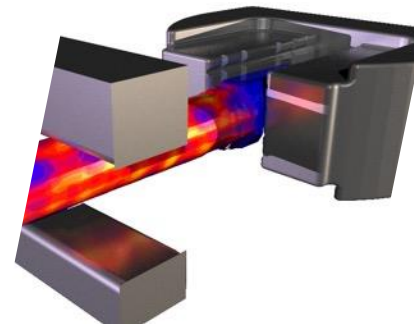
**Acoustic simulation**



**Materials modelling**



**Manufacturing process simulation**







## Production

- Maintain design intent
- Improve process efficiency
- Ensure reliable product delivery

**End-to-end control of production workflows**

# Production

**Production  
machining**



**Mould & die design  
and manufacture**



**Sheet metal  
fabrication**



**Woodworking**



**CNC simulation**



**Factory automation**





## Metrology

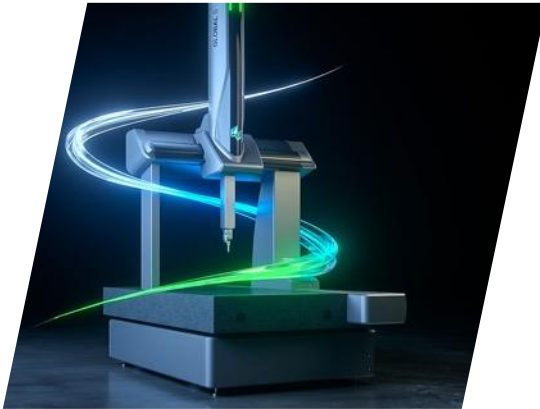
- Capture real-world data
- Converge virtual and real
- Provide feedback to make improvements

**Broadest metrology portfolio on the market**



# Metrology

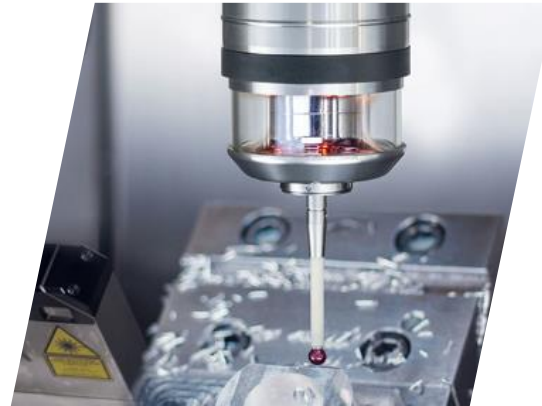
## Dimensional analysis



## Robot and machine calibration



## Metrology-assisted manufacturing



## Reverse engineering





## Building digital ecosystems

- Connect data to add value
- Improve insight
- Enable increasingly autonomous operations

Manufacturing domain expertise



# HxGN SFX | Asset Management







**“Half of factories could be smart by the end of 2022 with the increased productivity gains adding up to \$1,500 billion to the global economy.”**

– Capgemini

## Diverse global customer base

Many thousands of customers, large and small, and spanning a wealth of industry segments, make it smarter with Hexagon products and services.

### AUTOMOTIVE



### AEROSPACE



### ELECTRONICS



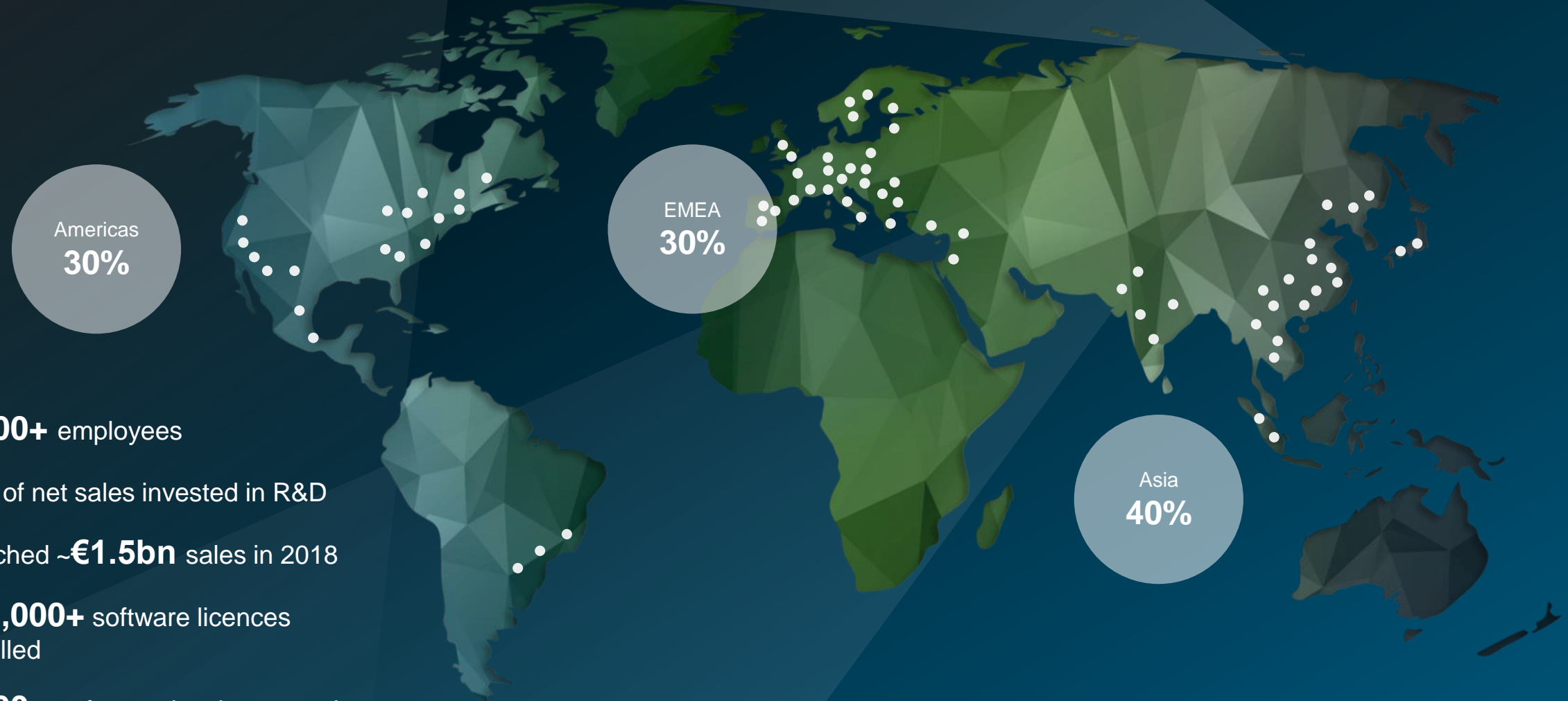
### MEDICAL



### MACHINERY



# Hexagon's global reach in manufacturing



**8,000+** employees



**9%** of net sales invested in R&D



Reached ~**€1.5bn** sales in 2018



**500,000+** software licences installed



**2,800+** software developers and engineers





**Thank you**

# Disclaimer

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