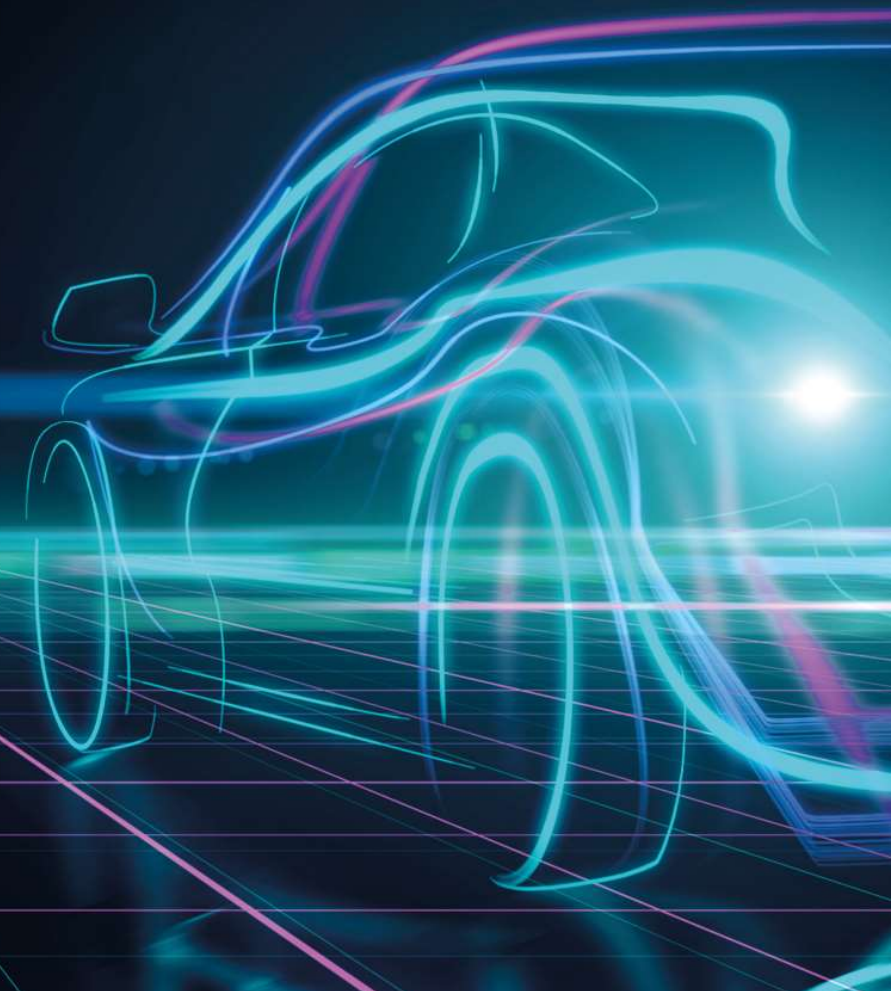





# Welcome To The AUTOMOTIVE SUMMIT

Stefan Andre Raschke  
Director, Automotive Sector  
Microsoft Germany GmbH





“Take out the driver, take out the IC engine, take out the dealers, take out ownership... otherwise it’s business as usual.”

**Adam Jonas**  
Auto Industry Analyst, Morgan Stanley

# Digital is disrupting automotive industry

## Products and technologies

### Connected cars



### Autonomous cars



### Electric vehicles



## Customer expectations

### New experiences



### Sales and service relationships



## Business models

### Car sharing services



### Pay-as-you-go insurance



### Fleet management services



## Smart ecosystems

### Smart homes



### Smart infrastructure



### Smart cities





# Deliver personalized mobility services

## Challenge

Keep up with the rising customer demand for personalized mobility services.

## Strategy

Store and analyze information on traffic conditions and the subscribers individual calendar, contacts, message, app and habits on Microsoft Azure.

## Results

Provided subscribers with a journey management tool that communicate to them when and where they need to be and how to get there.



"We are building this platform as a foundation for our future services and experiences... and Microsoft Azure and Azure services gave us the right tools."

— Thom Brenner, Vice President of Digital Life, BMW Group







# Open up new services

## Challenge

Constantly increasing demands for efficient and modern logistics requires a data platform with which transports can be better monitored and documented.

## Solution

Document and monitor sensitive transports with "deTAGtive logistics", a data platform built on Microsoft Azure.

## Benefits

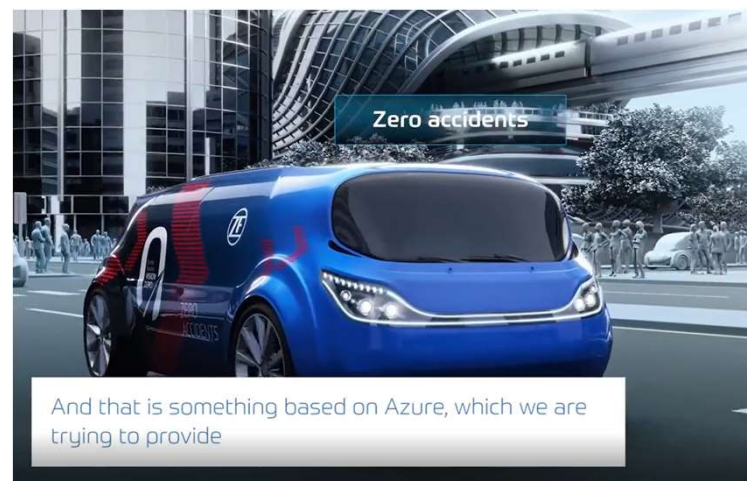
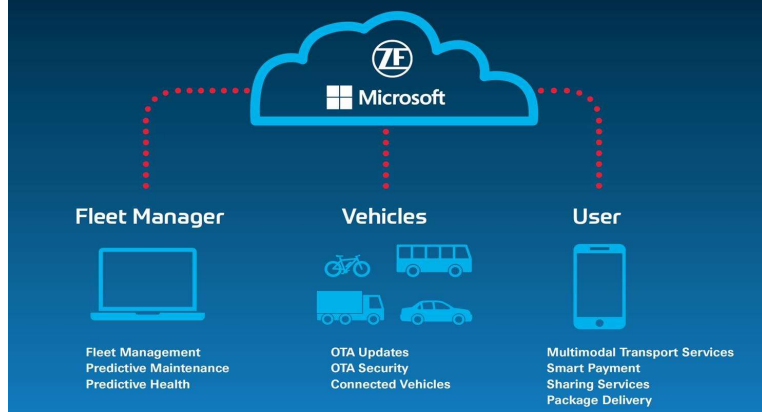
- Transparent logistics processes enable lower administration and communication efforts
- Provided threshold violation alert notices with real-time alerts

"We are able to realize these types of connection solutions for industry applications across the entire product range; from wind turbine and large industrial gearboxes to agricultural and construction machinery transmissions, enabling us to better react to changing customer needs."

—Dr. Klaus Geißdörfer, Executive Vice President of the Industrial Technology Division, ZF



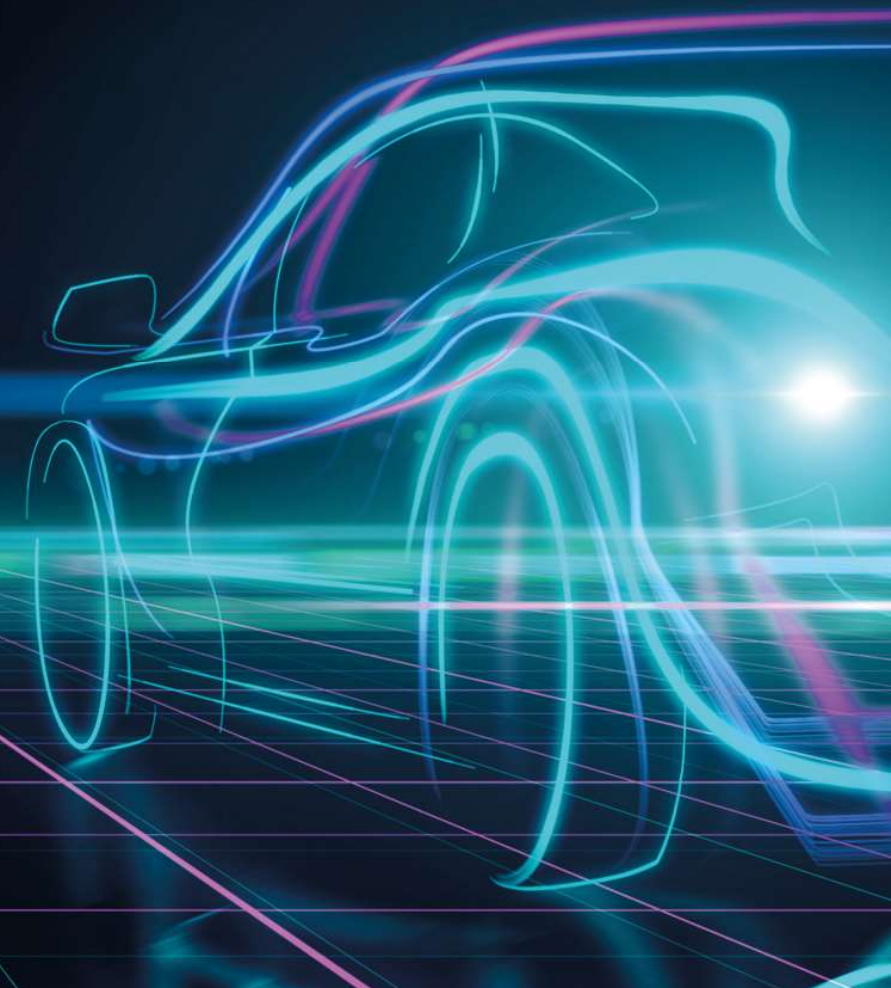
## ZF's cloud based IoT platform enables smart mobility services





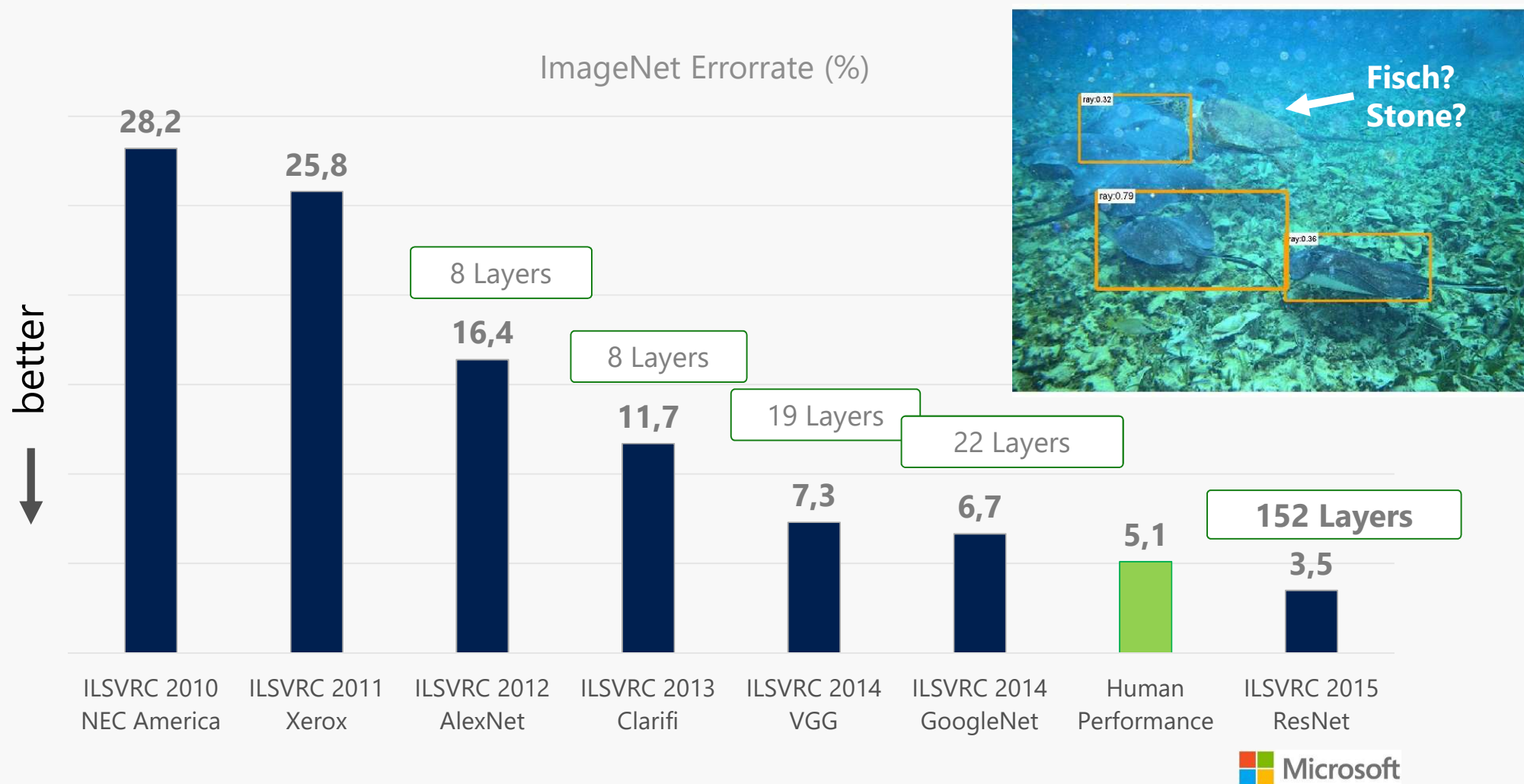
# Artificial Intelligence in Automotive

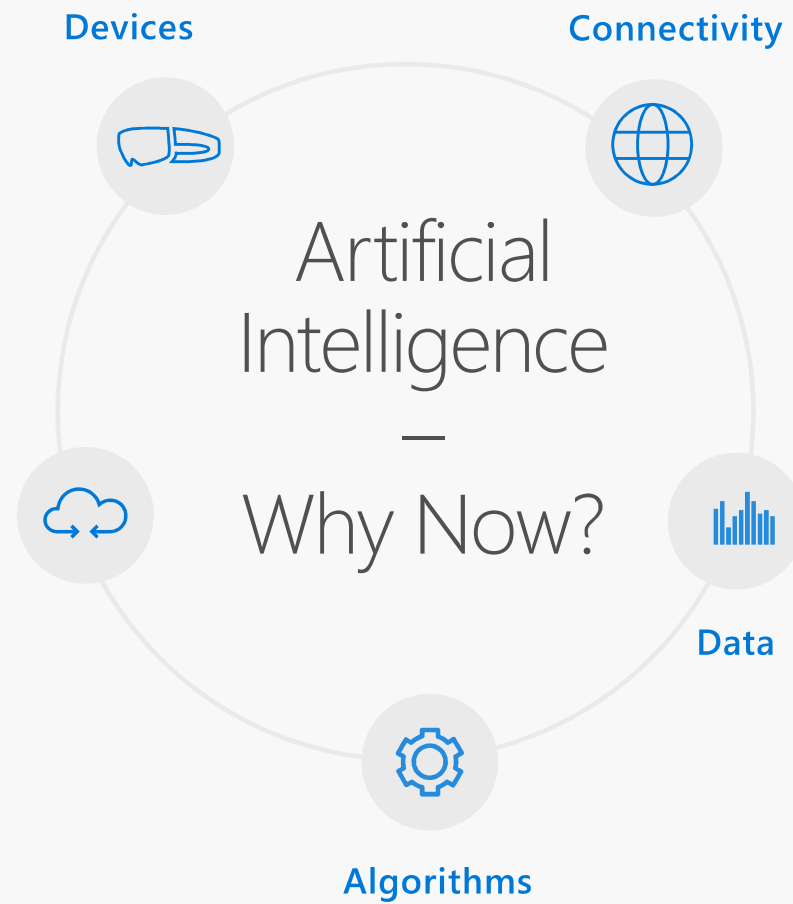
Robert Nahm,  
Industry Manager, Automotive Sector  
Microsoft Germany GmbH





# ImageNet "ILSVRC" – Worldwide Industry Competition for Object Recognition









# Our “Artificial Intelligence” Portfolio

## Platform Approach



Agent

Cortana



Applications

Office 365 / Skype

Dynamics 365



Services

Bot Framework

Cognitive Services

Cortana Intelligence

Cognitive Toolkit



Infrastructure

Azure Machine Learning

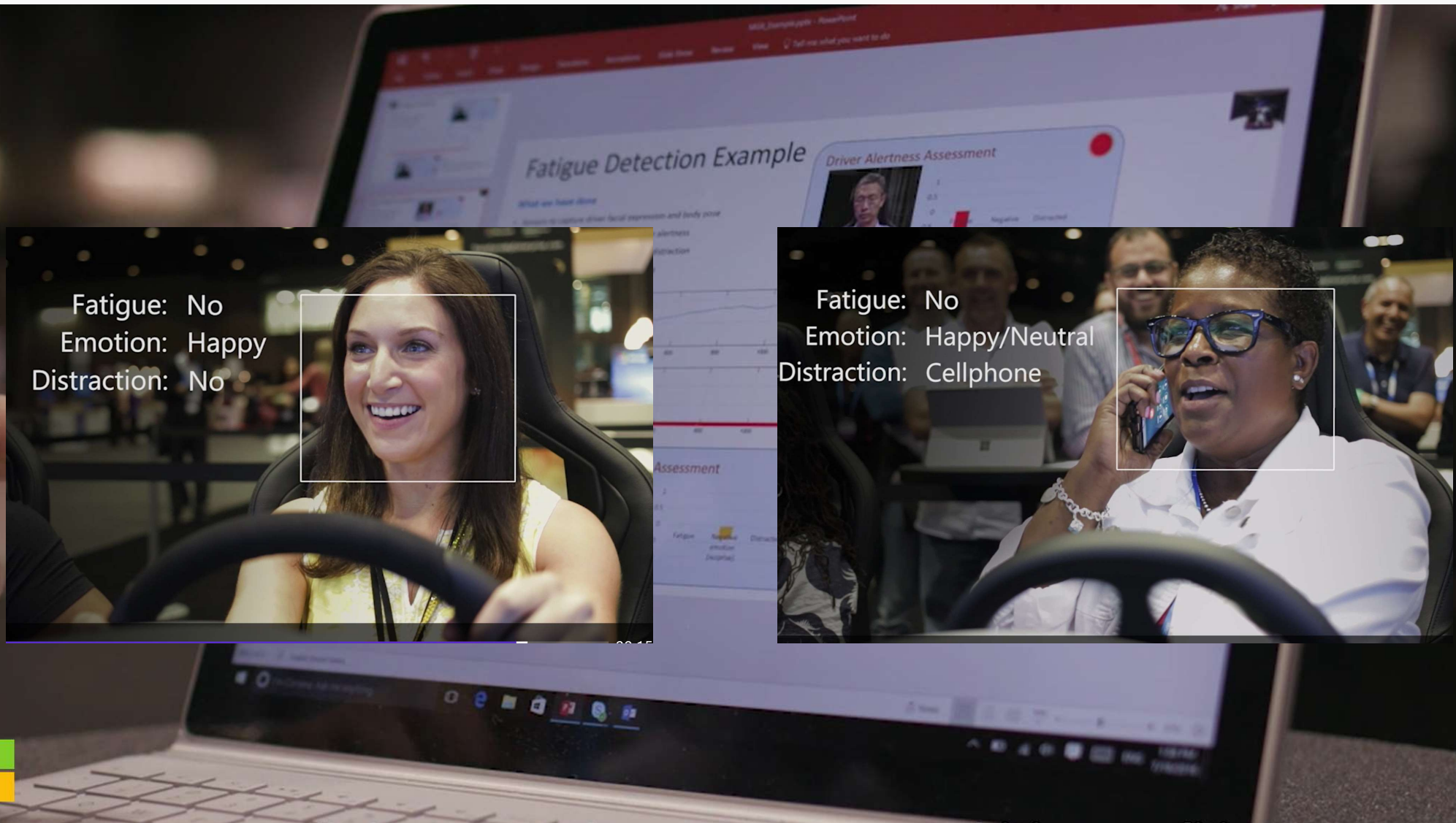
Azure N Series

FPGA





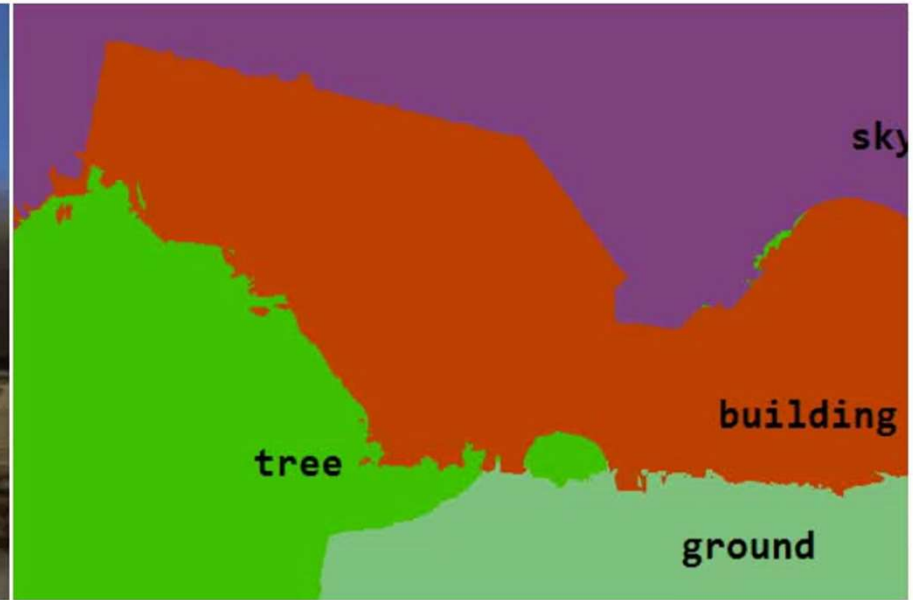
# Ending distracted driving with cognitive services



# Computer Vision Examples using Microsoft Cognitive Toolkit



input video



segmentation result

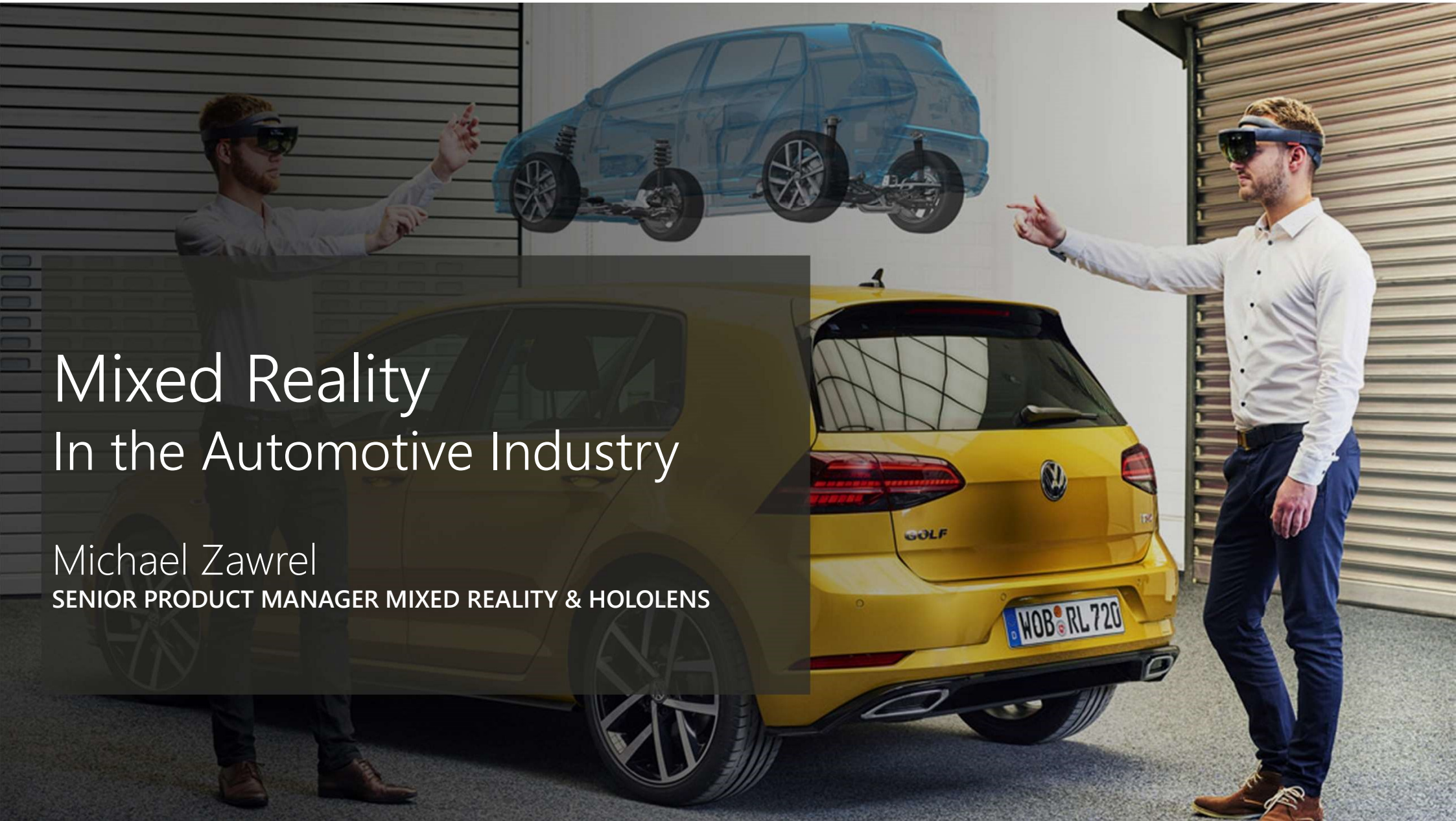




# Mixed Reality In the Automotive Industry

Michael Zawrel

SENIOR PRODUCT MANAGER MIXED REALITY & HOLOLENS







EXPRESIVE FRONT  
WITH INVERTED DOUBLE KIDNEY GR



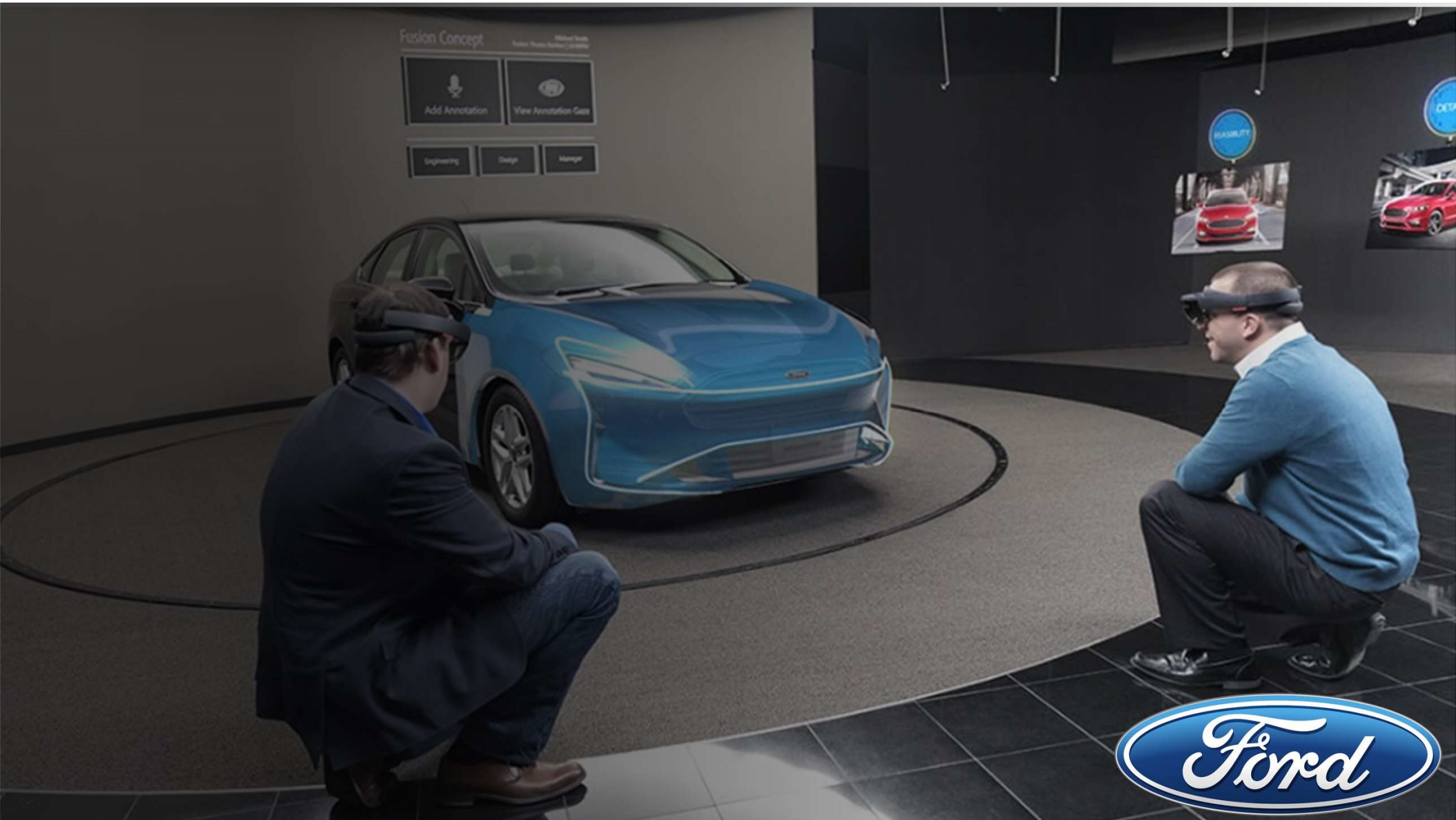




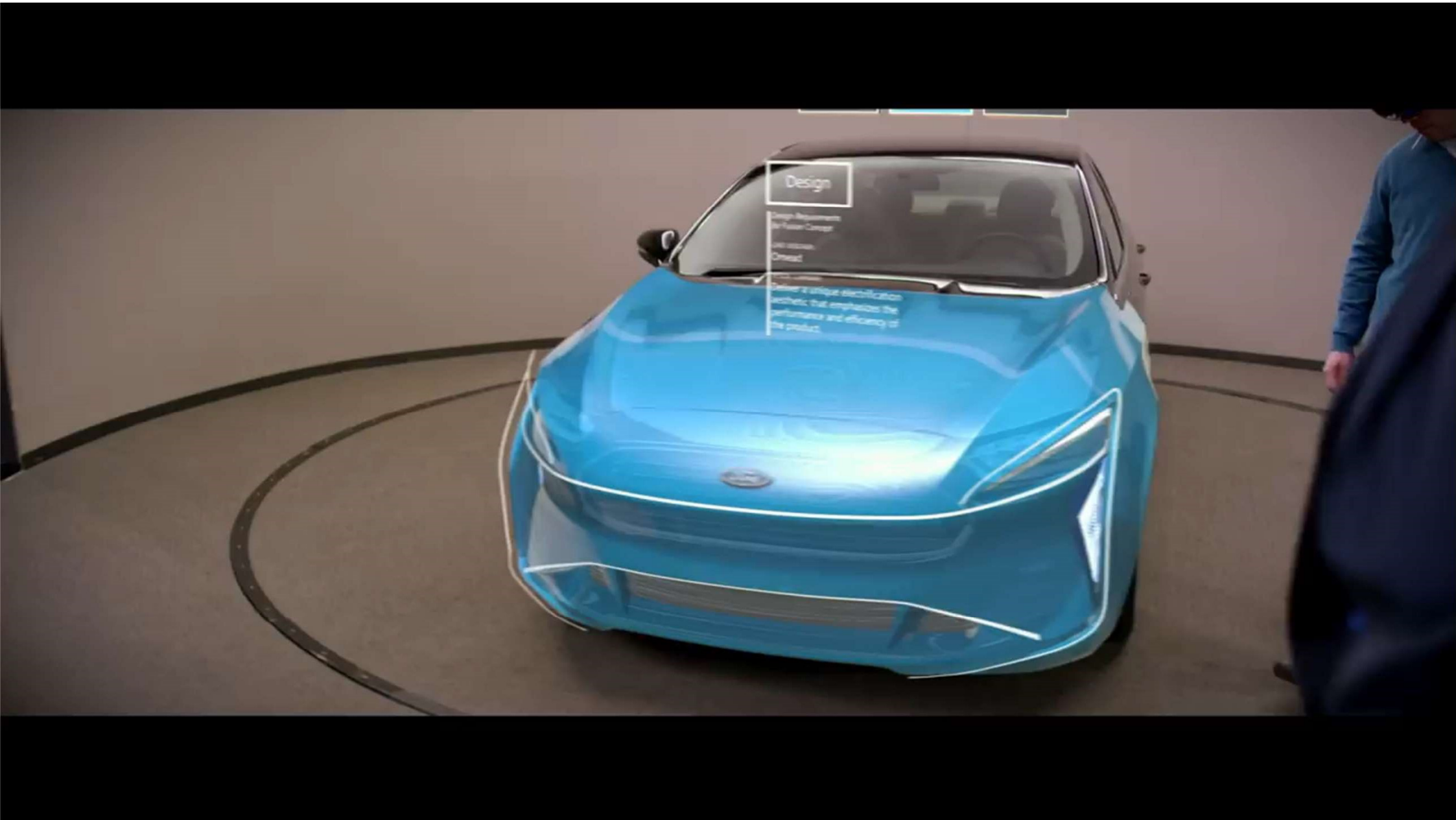
**BAE SYSTEMS**

INSPIRED WORK









## Design

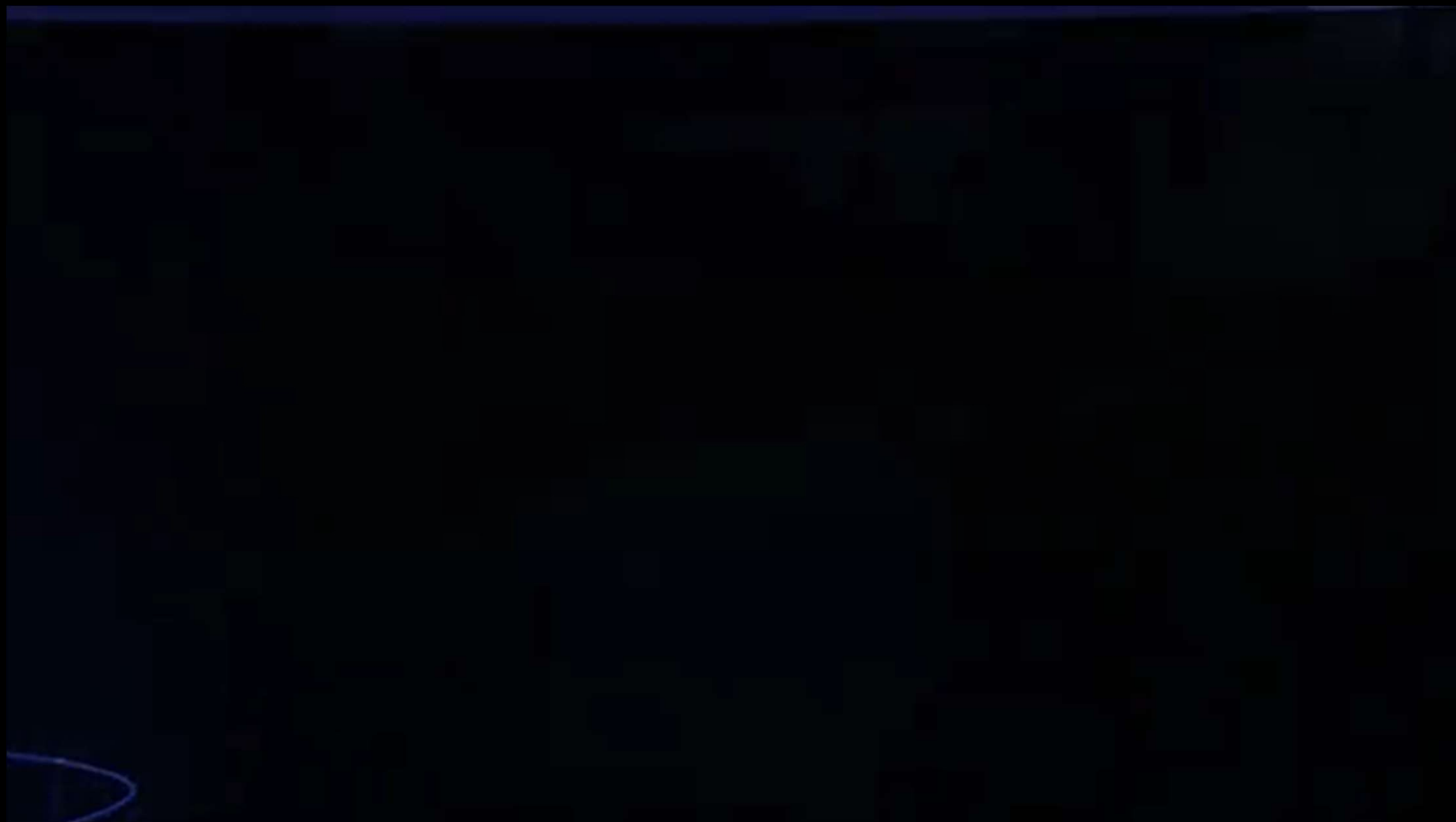
- Design Requirements
- By Fusion Concept
- Use software
- Onroad

Powerful unique electrification  
Aesthetics that emphasizes the  
performance and efficiency of  
the product.













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