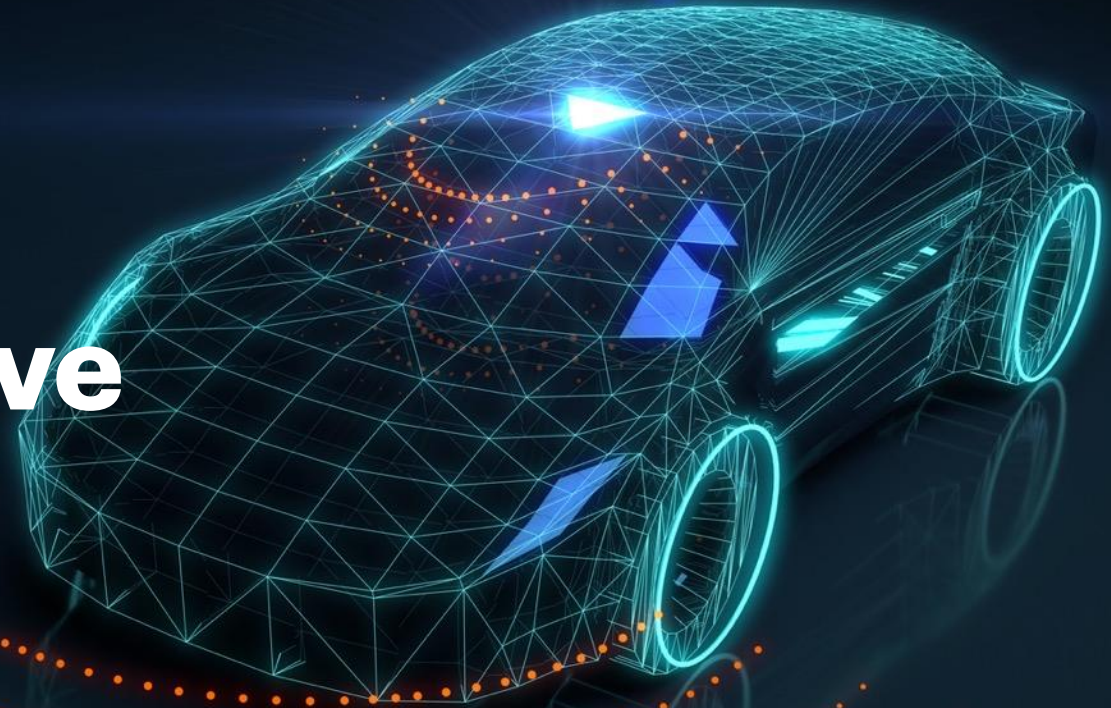


**Industry X**

**Center for Automotive  
Research**

**Webinar**

December 2020



# Building blocks of an intelligent platform for advanced manufacturing

## CONTROL TOWER



**Digitally-enabled control tower** assists in overall manufacturing network operations management



## CYBER SECURITY



**Threat prevention techniques and solutions** that predict, detect, understand, model, and respond to **mitigate operational risks** across IT platforms and physical OT assets



## PREDICTIVE MAINTENANCE



Asset tracking, IoT sensors, and predictive analytics for **maintenance to reduce asset downtime, reduce maintenance spend and increase revenue**

## CONNECTED WORKER ENABLEMENT



**Use of digital technologies** such as wearable devices, mobile apps, smart procedures, remote assistance and low-cost automation **to assist shop floor workers in executing operational activities**

## ENERGY MANAGEMENT



**Energy data analysis** across different utilities to **identify and prioritize areas for optimization**

## DIGITAL QUALITY



Utilizing **connected systems and AI** to identify small changes in quality **reducing rework and maximizing First Pass Yield**



## DIGITAL SAFETY



**Reduces the risk of a safety incident** by monitoring an individual's location, exposure to hazardous conditions, or help workers perform high risk tasks

## AUTOMATED DECISION MAKING (AI/ML)



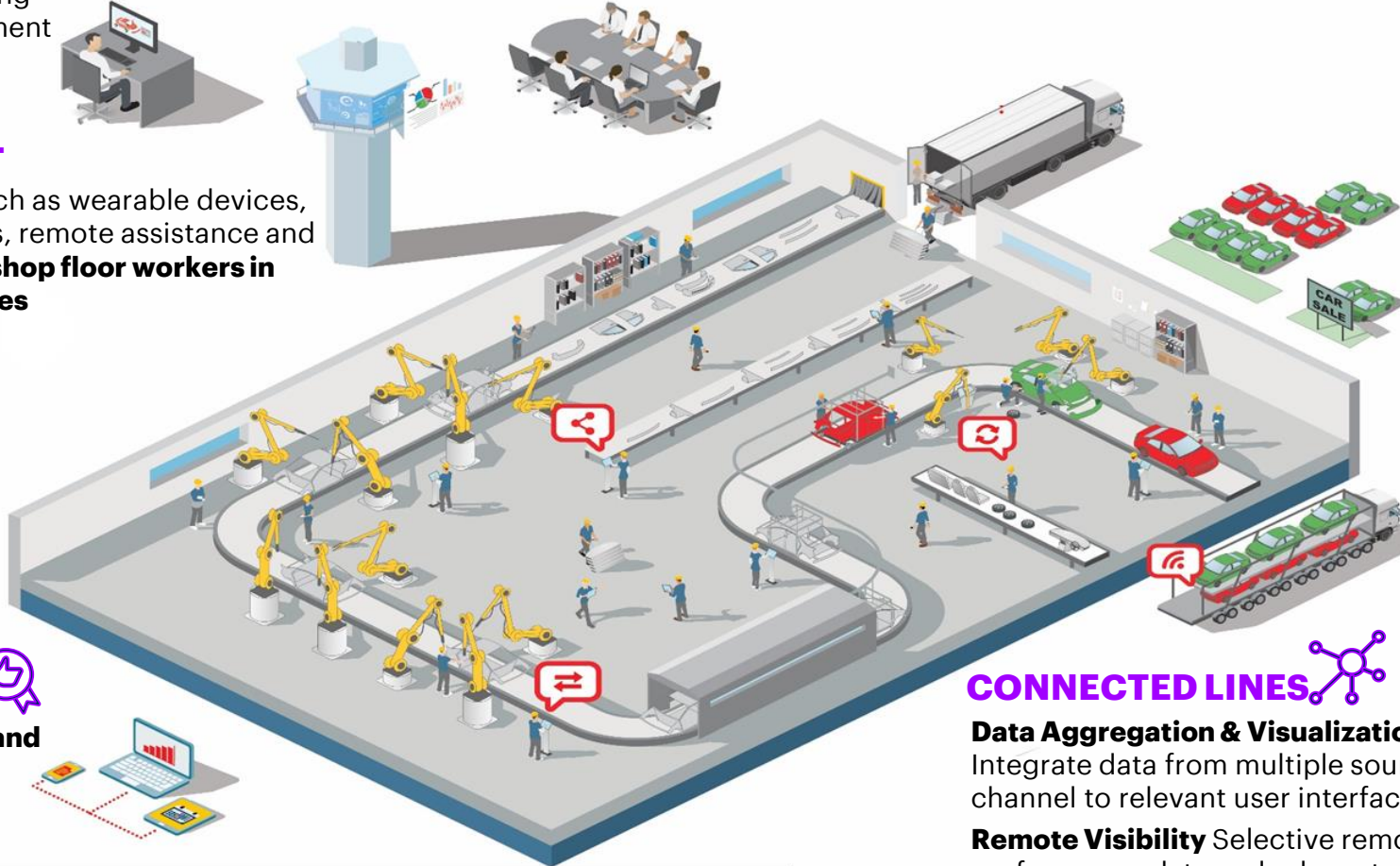
**AI/ML** learns and proposes actions in the factory by **monitoring production volume, utilization, safety, quality, etc.** helping identify corrective measures.

## CONNECTED LINES

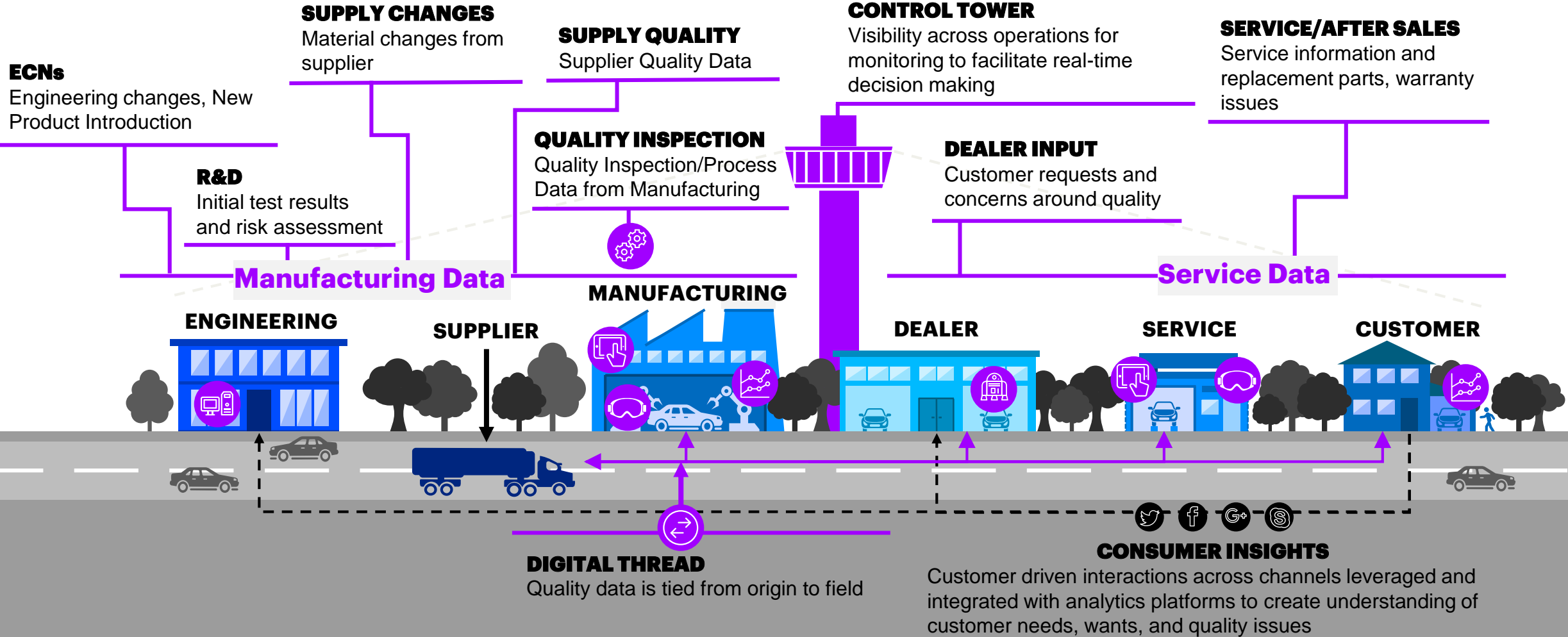


**Data Aggregation & Visualization** Integrate data from multiple sources and channel to relevant user interfaces.

**Remote Visibility** Selective remote views with live performance data and relevant alerts



# Intelligent Operations vision: multiple solutions driven across all available enterprise data to improve outcomes



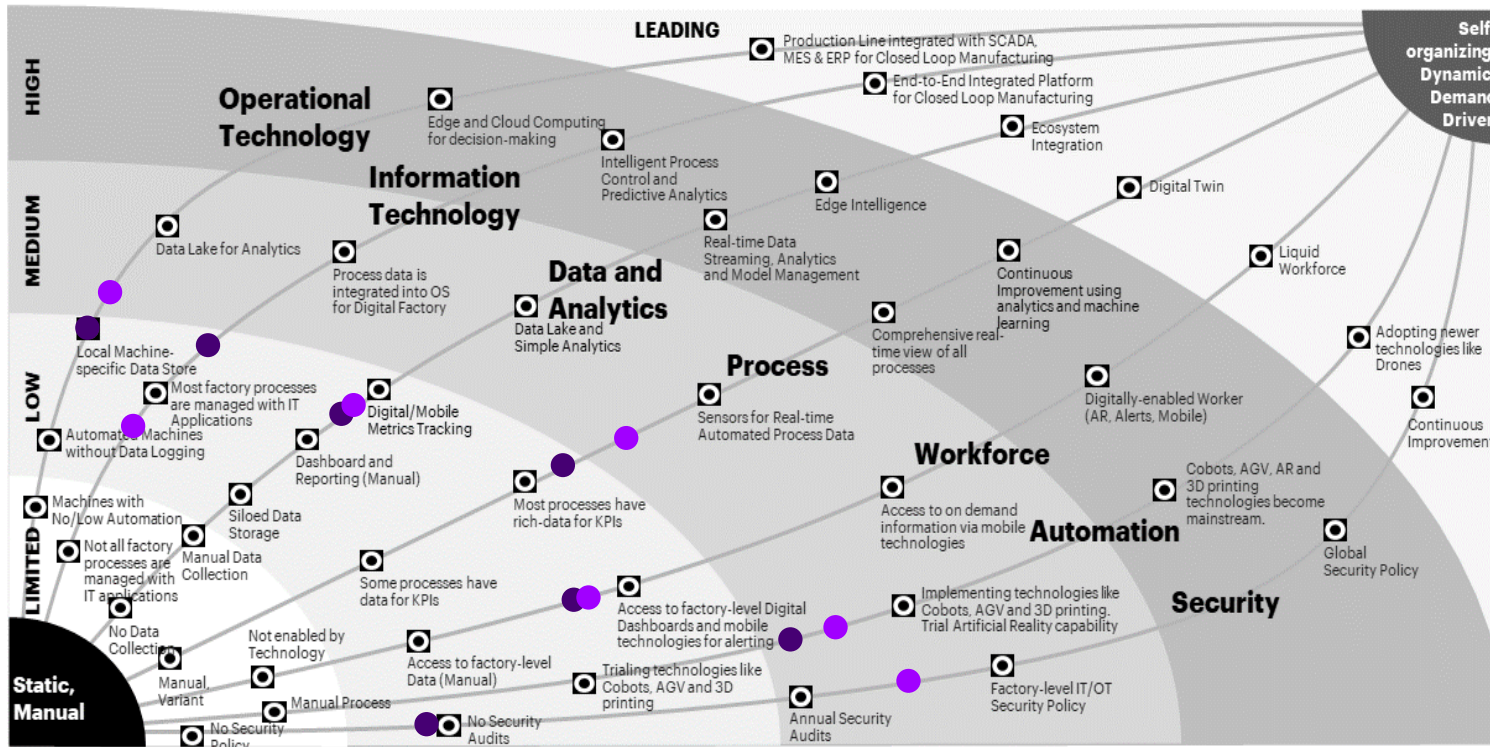
## ONE DATA PLATFORM

Uniform application, a “one-stop shop” for operational data












# Client example: automotive client challenges

## DIGITAL MATURITY



● Industry Average      ● Client Estimate

## KEY CHALLENGES

-  No cohesive Digital strategy (dabbling)
-  Haphazard roll out not linked to business value
-  Slow speed-to-value at scale
-  Lack of modern OT/IT infrastructure
-  Many vendors (Who to trust?)
-  Industry point solutions (not integrated)
-  Hard to get global buy-in across the organization
-  Lack new capabilities and workforce talent
-  Investment dollars vs. other priorities
-  Not convinced of economic value / ROI

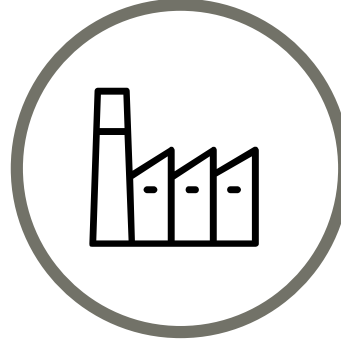


# Our approach advocates **thinking big...but starting small**



## Think Big

- Identify target sites for analysis (preferably large mega plants)
- Bring a small team of our Top Strategy and Digital professionals to conduct Operational Technology (OT), IT and Process flow assessments
- Review existing use cases



## Start Small

- Use the “speed to value” approach to rapidly pilot a combined OT and IT solution based on pre-built use cases
- Quantify value levers – initial areas to pursue are COGS and strategic cost reduction, growth through efficiency gains unlocked by digital transformation



## Scale Smart

- Prioritize high impact use cases based on pilot results
- Develop industrialization approach for high impact use cases
- Verify proposal amount



# Thank You

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