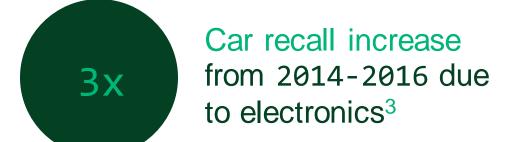
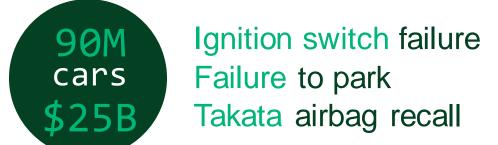


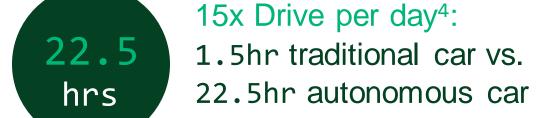
Automotive Innovation Reliability Challenge



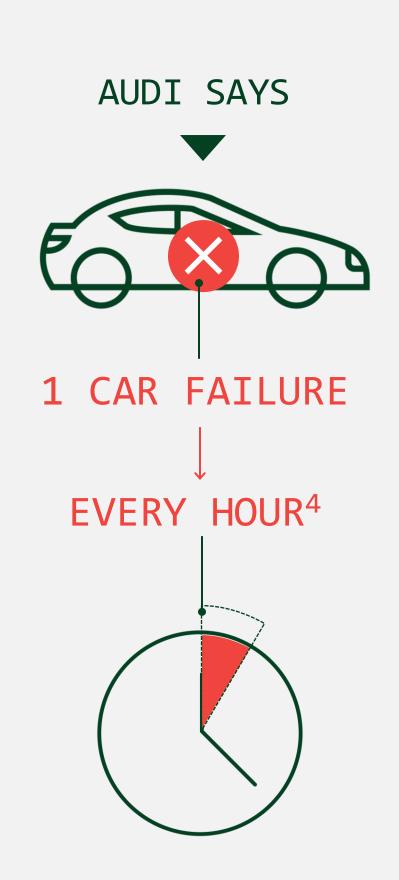








¹ Automotive change drivers for the next Decade, EY, 2016 2 BMW - AEC Automotive electronics reliability workshop, 2017 3 NHTSA Recall Data 4 Audi, DVCon Munich, 2017

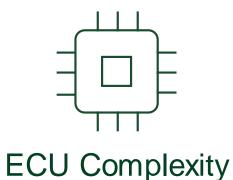








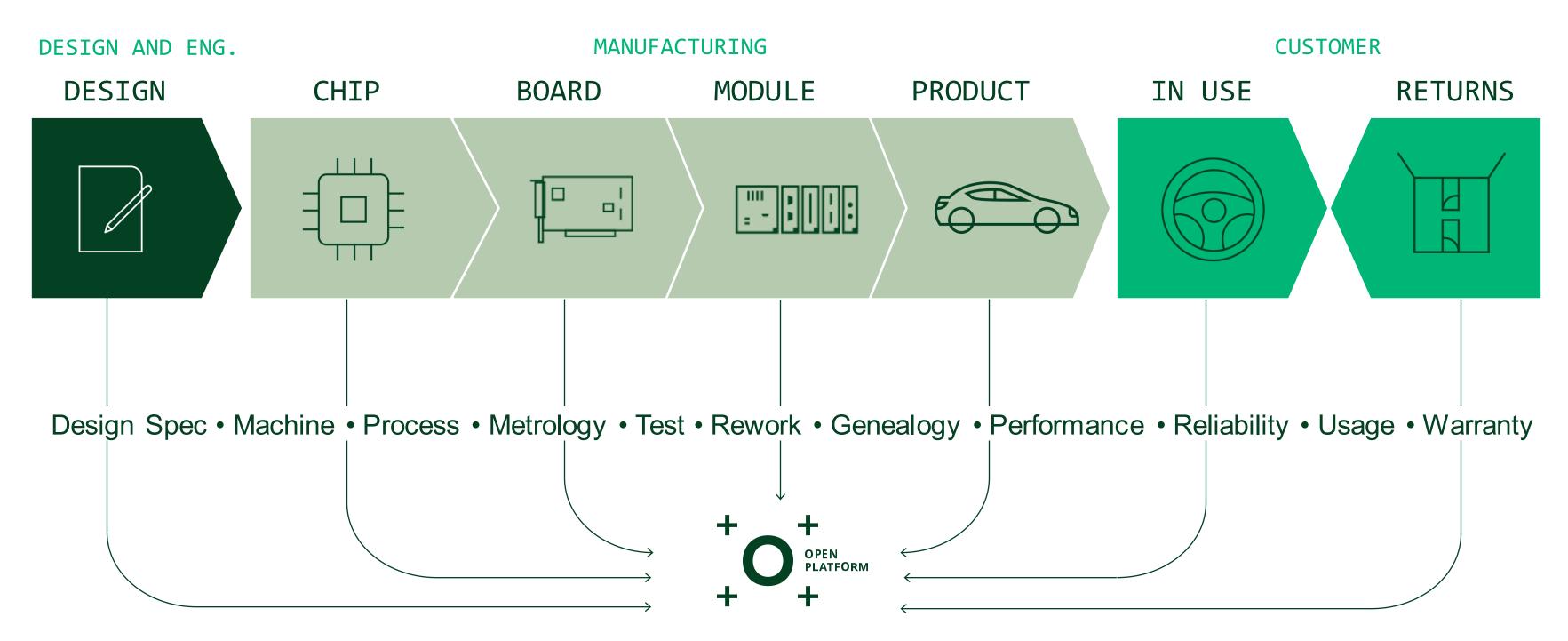
Electrification





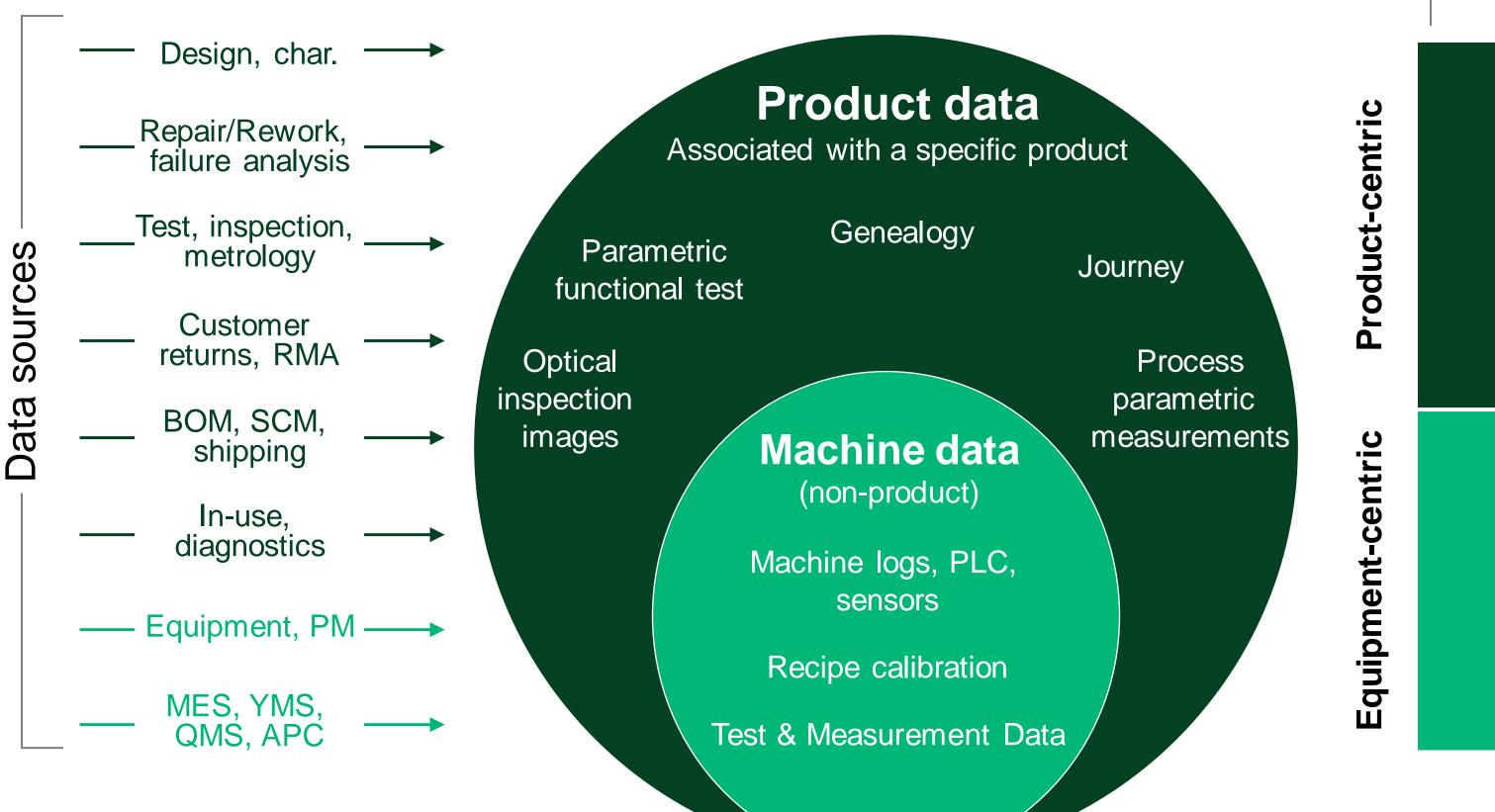
Our Vision

Lifecycle Analytics Through Product-Centric Approach





Product-Centric Approach to Advanced Analytics



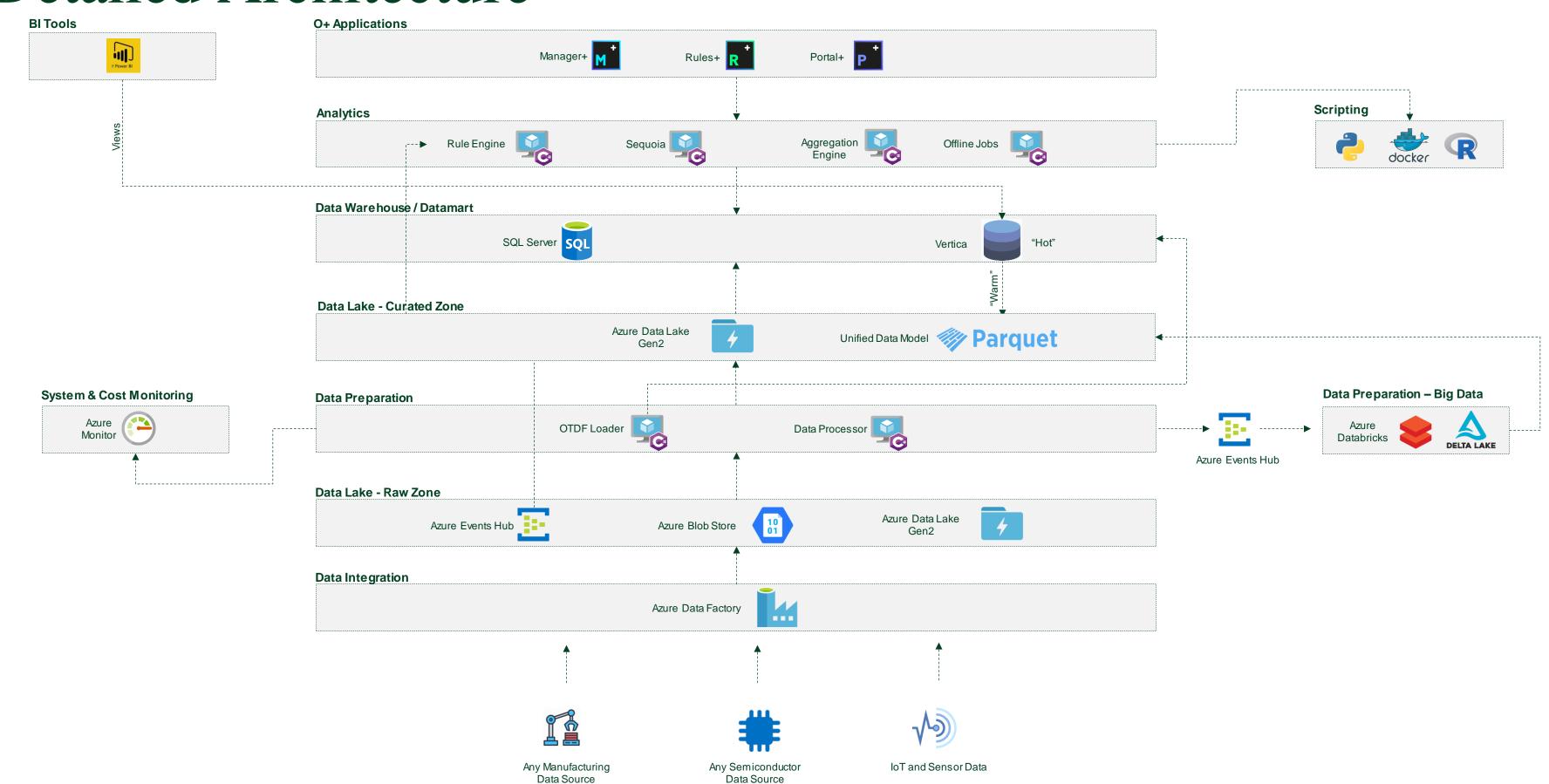
Benefits

Reliability
Safety
Quality
Performance
Consistency

Predictive maintenance
Utilization
Efficiency
Availability

N

Detailed Architecture



NI Analytics for Transportation on Microsoft Azure

Run NI's industry-leading analytics solutions for the Transportation industry on Microsoft Azure and benefit from tight integration with your other Azure-based investments and lower cloud costs.

Transportation Solutions

Drive better efficiency, reliability and quality in manufacturing with the Product Lifecycle Analytics solution

Analytics for YOUR Business

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Self-service Analytics using Power BI

Use Microsoft's PowerBI self-service analytics to visualize data and insights created by the NI solutions

Trusted By Leading Brands

Customers

































Supply Chain

























ZF: Auto Camera Manufacturing Optimization

Deployment Summary

- Factory health instant visibility
- Early scrap detection Shift Left
- Adaptive Manufacturing improved efficiency and scrap
- Closed the loop customized alerts & MES integration

Pilot Improvement Opportunity

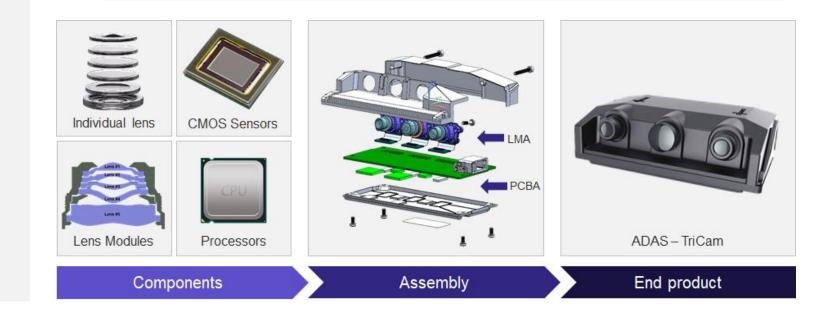
- Scrap reduction during camera assembly CMAT
- Long NPI ramp
- No structured feedback methodology
- Data silos prevented visibility of overall factory and process health

Camera A (High Volume Production)

- Retest/Rework reduction
- Throughput increase
- Reduced Scrap

Camera B (New Product Introduction)

- Reached entitlement yields faster
- Throughput increase
- Reduced scrap





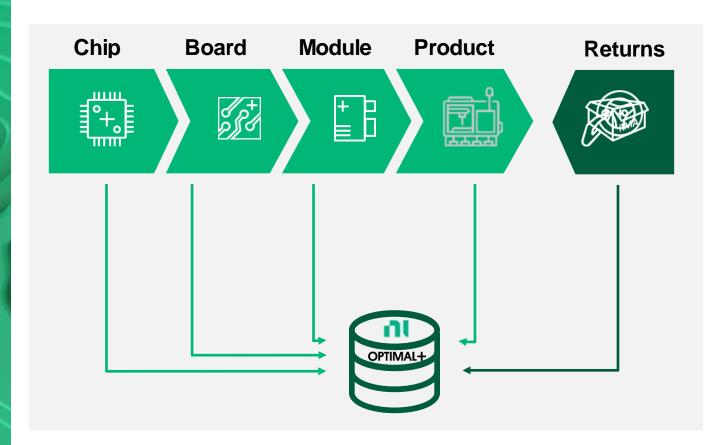
NVidia: Complex Supply Chain Management

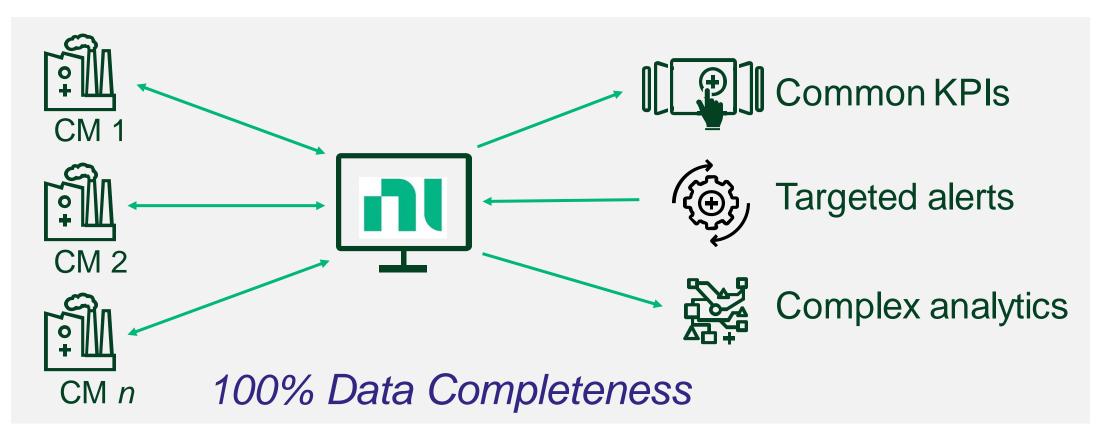
Deployment Summary

- Common, aligned visibility and KPIs across multiple contract manufacturers (CMs) for SMT through EOL test
- Deployed "crisis management" analysis to identify issues and contain affected population
- Deployed Machine Learning for failure analysis
- Targeted rules for both product and process to identify most impactful issues

Benefits

- Common KPIs and visibility across CMs
- Improved supply chain visibility
- Reduced resources needed to manage CMs
- Full traceability from board through system







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