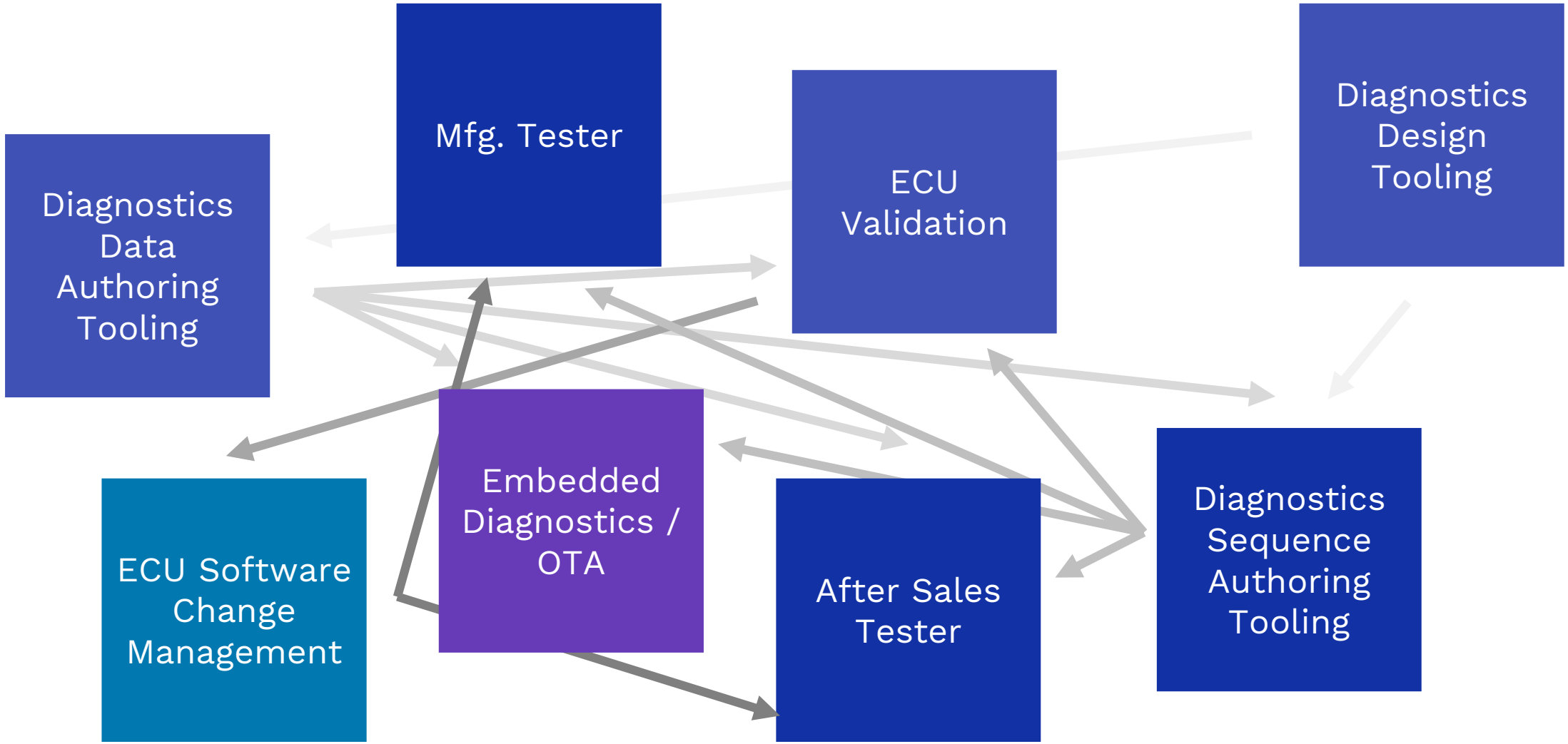
KPIT

22nd October 2019

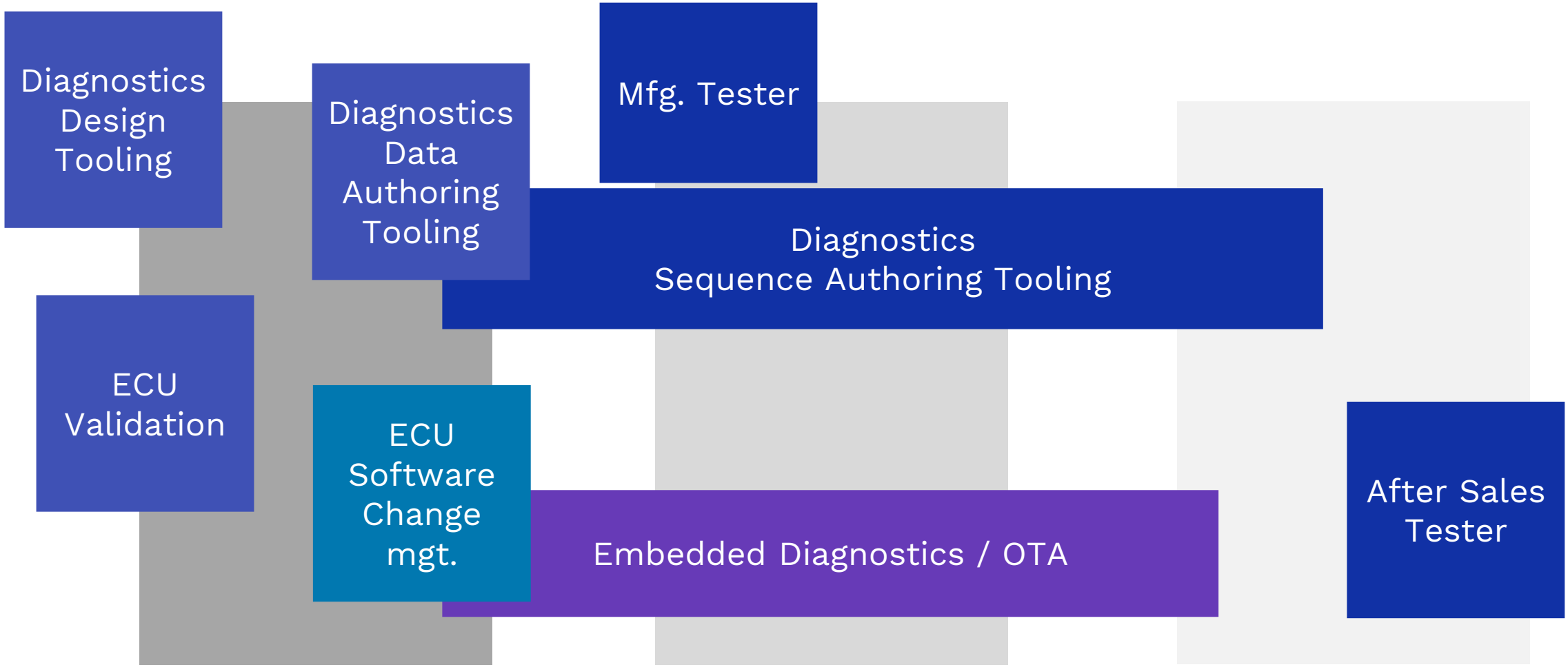
Transforming the data landscape
Case Study on UK based PC OEM

A glimpse into the (current) future

Traditional Diagnostics Landscape



Traditional Diagnostics Landscape



High-Level Pain Points

Siloed Development

Lack of Re-Use

Data Inefficiency

Data Duplication

Lack of Feedback

Localised Corrections

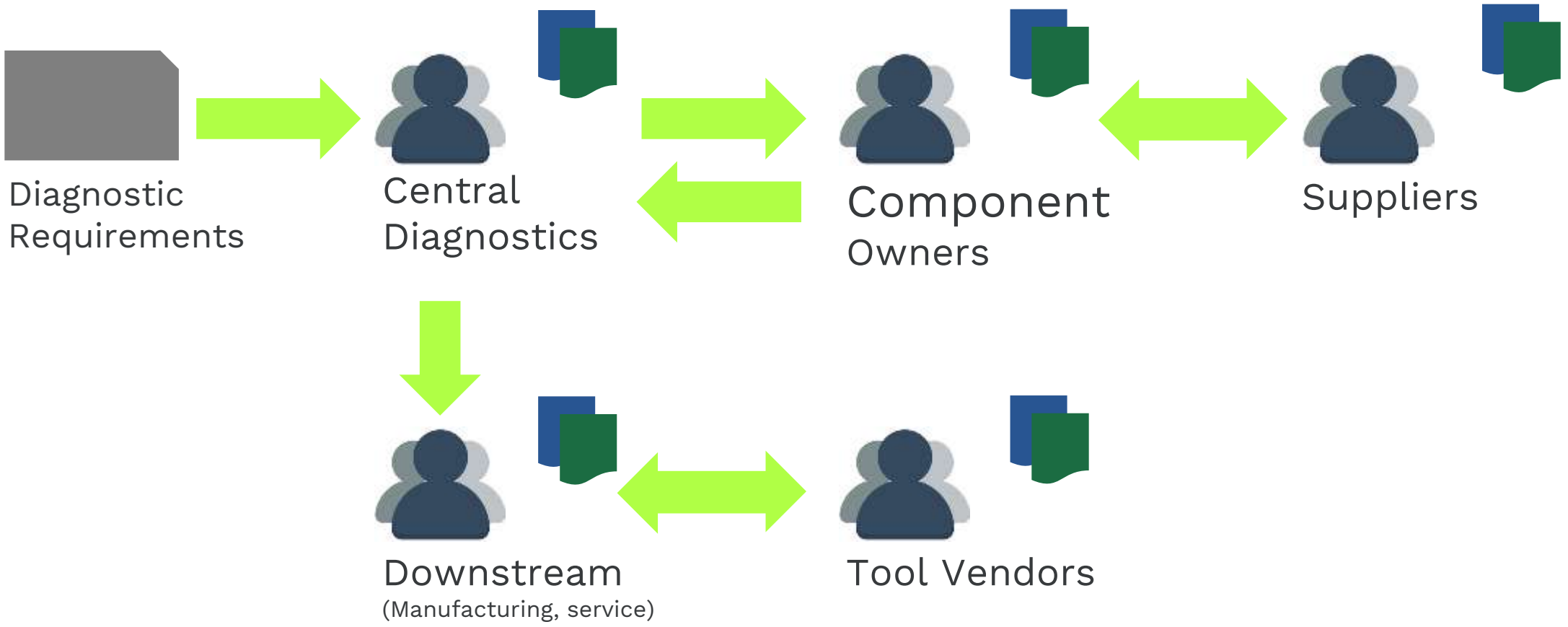
Repetitive Operations

Higher Cost

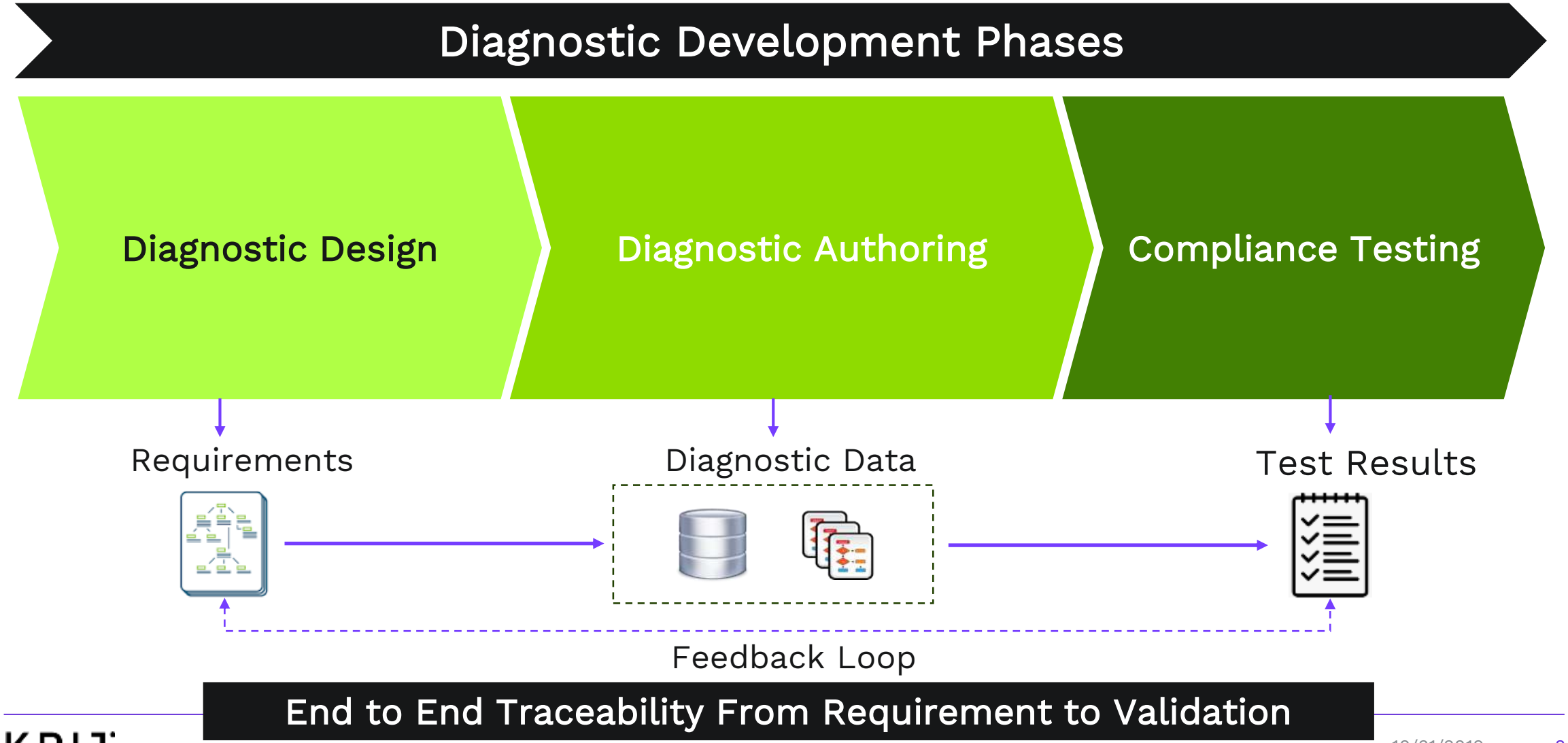
Extended Development Cycles

Customers Historical State & Drivers for Change

Customers Diagnostic Lifecycle – Historical State



Customers Diagnostic Development – Improved Process Flow



Integration & Automation – Drivers for Success

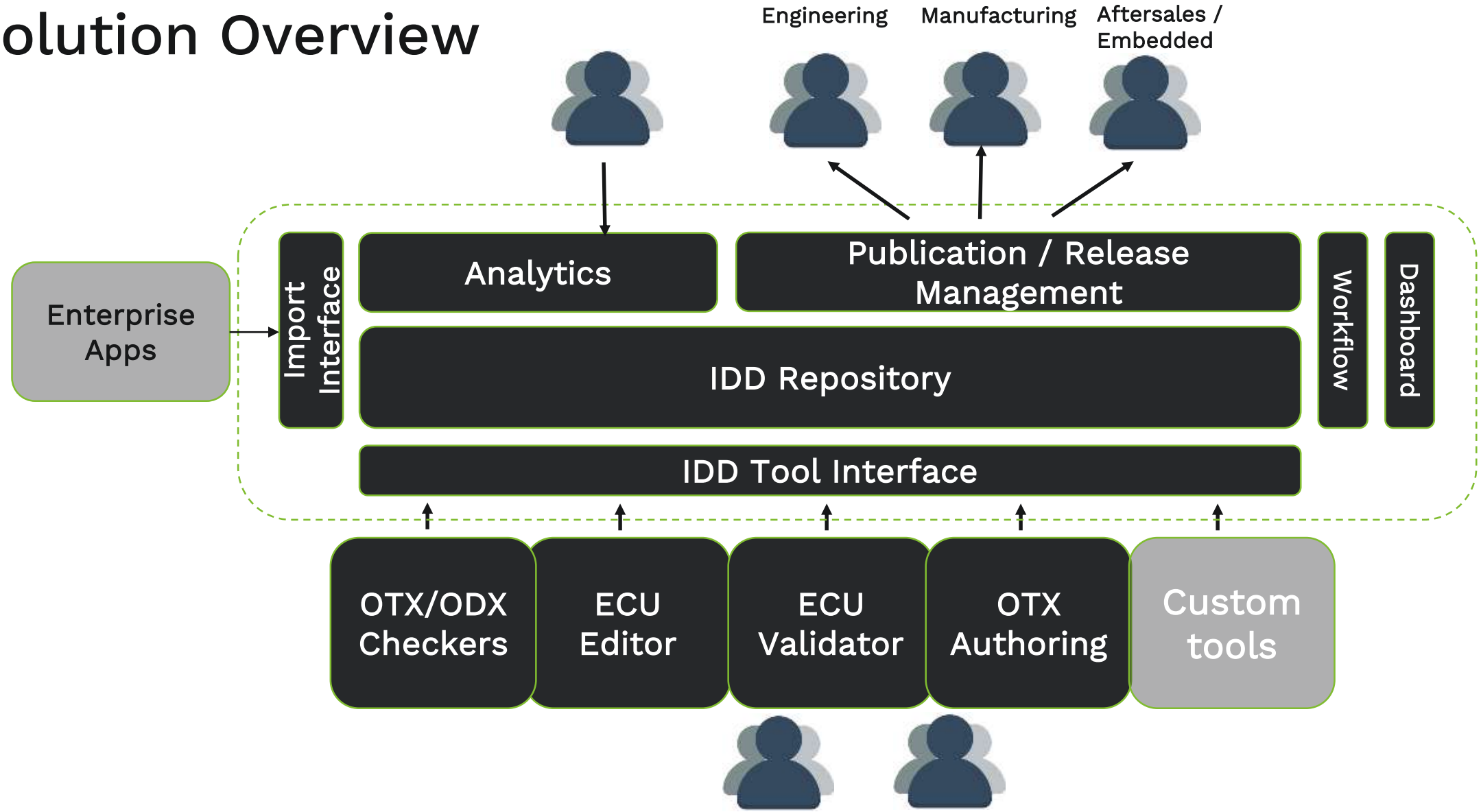
Integration Accelerates Delivery

- **No manual file handling** – cloud-based delivery & centralized storage enables ‘work everywhere’
- **Instant Insight** – Intelligent dashboards. No more waiting for progress reports
- **Joined up processes** – Enables automation and left-shifts development

Automation Improves Quality

- **Automated Checks & Validation** – Reject bad data, fewer field defects, fewer ECU S/W revisions
- **Reduced year-on-year cost** – Automation reduces the carry-over effort

Solution Overview



Customer Success

KPIT Solution – Key Business Objectives fulfilled

Integrated Process

Left-Shift Development

Feedback Loop

Central Storage

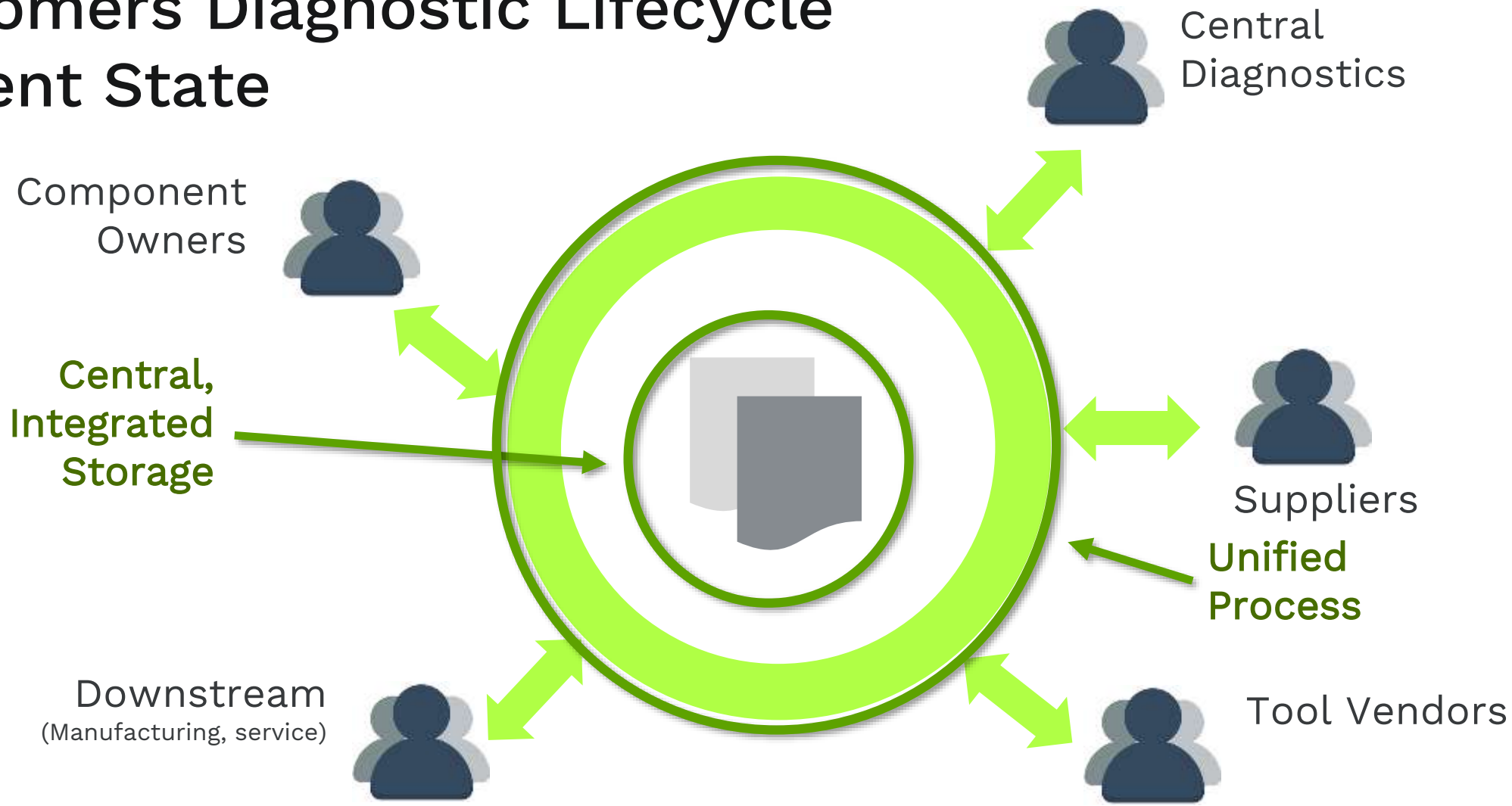
Automated Checks

Change Management

Reduced validation cycles

Reduced year on year Cost

Customers Diagnostic Lifecycle Current State



Facts and Achievements

Unified diagnostics for 350-400 users

Development Time Reduced by >50%

(target compared to historic state)

Cost saving of >35%

(target compared to historic state)

K-DCP
Engineering Toolchain

Solution Overview

Platform Tooling for Diagnostic Design, Data Authoring & Compliance Testing

Diagnostic Design

- Diagnostic design at Logical, System & Component Levels
- Diagnostic design using FMEA, Wiring, Systems & Network Architecture Data

User Group:
Diagnostic Architects, Feature Owners

Diagnostic Authoring

- Standardised Data & Test Sequence Authoring
- Documentation of DTCs & PIDs for Manufacturing & Service
- Exchange machine readable formats – ODX & OTX

User Group:
Component Owners, ECU Vendors

Compliance Testing

- Validation of Diagnostic Reqs./ implemented ECU SW
- Automated configuration and execution of test cases
- Integrated debugging, test logs and results

User Group:
Component Owners, ECU vendors

Solution Overview