

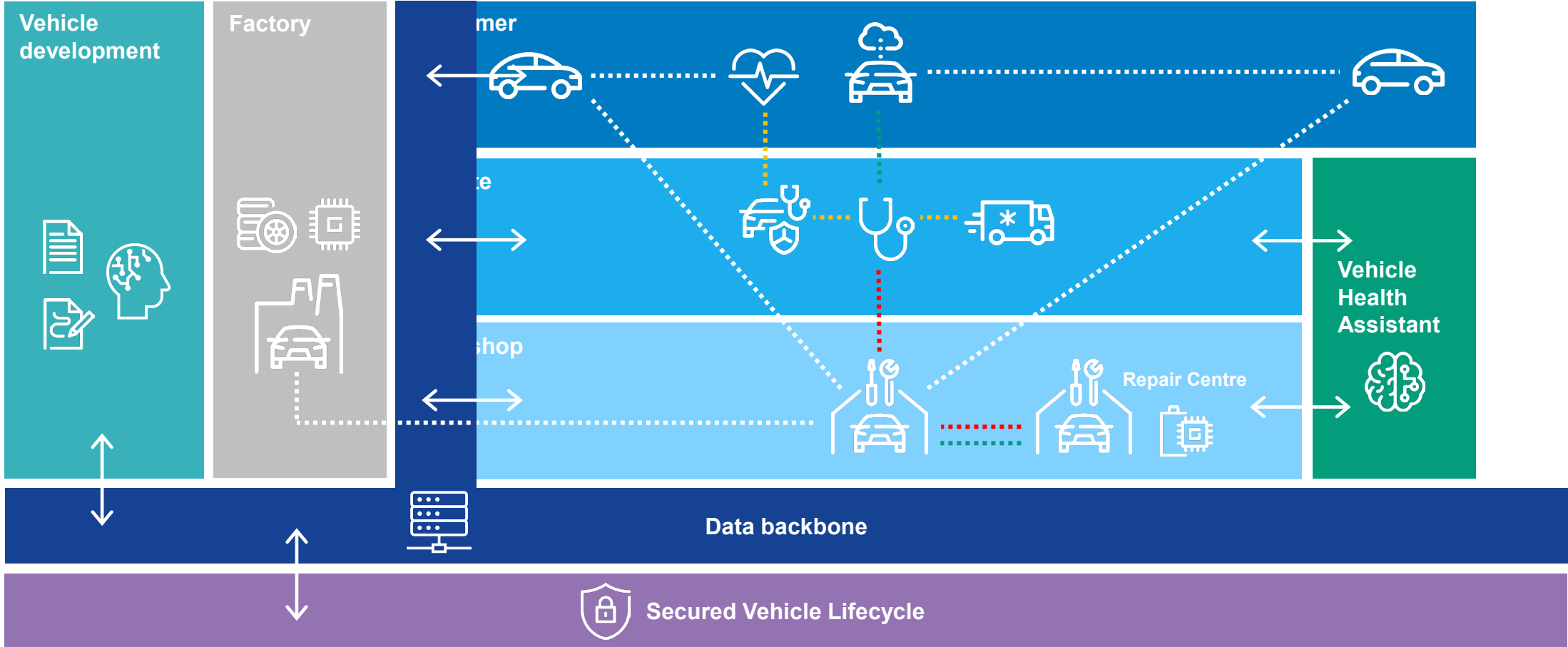
Service orientated vehicle diagnostics & technical workshop assistant

Service orientated vehicle diagnostics - SOVD



We offer solutions along the whole vehicle diagnostic & security lifecycle and connect them to a holistic solution

ETAS Diagnostic & Security Journey



Service-orientated vehicle diagnostics SOVD

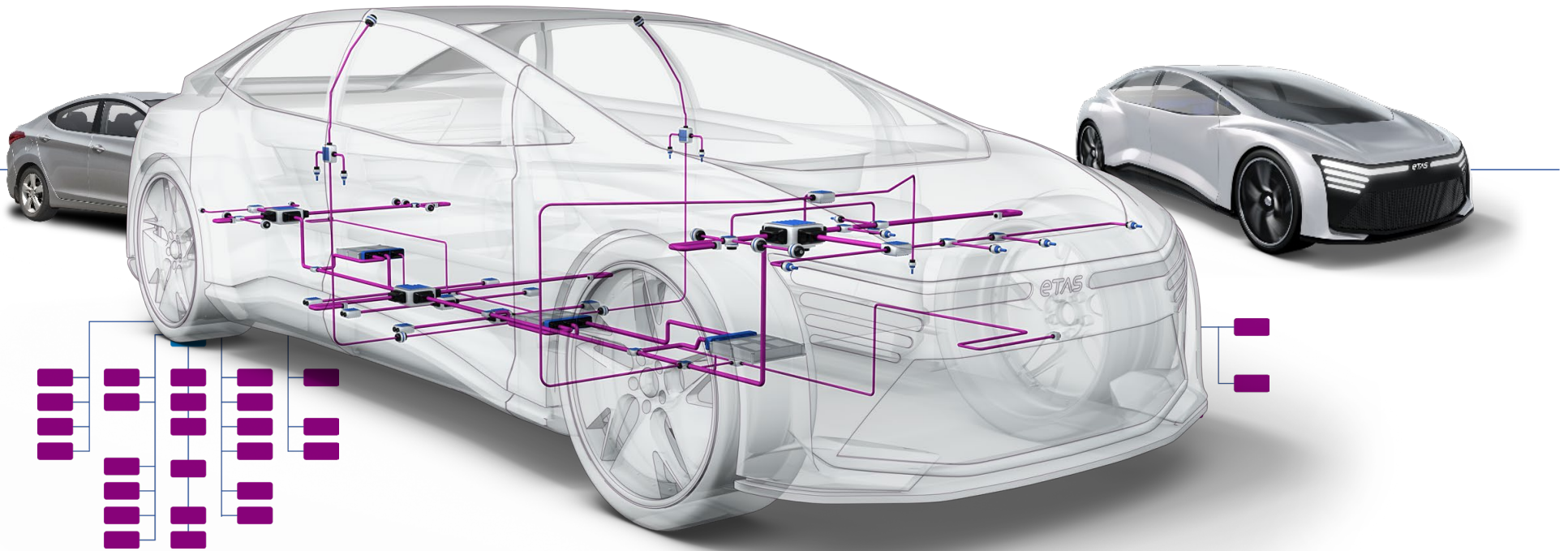


Service-oriented vehicle diagnostics (SOVD)

The shift in the automotive industry

Major changes on **in-vehicle architecture**

Shift towards zonal architectures results in **shift of diagnostics**



Changes for software-defined vehicles

- Software development **is independent** of hardware
- Software focus enables **continuous feature updates** for SDVs
- **Continuous software updates** and additions are **required** throughout the vehicle lifecycle

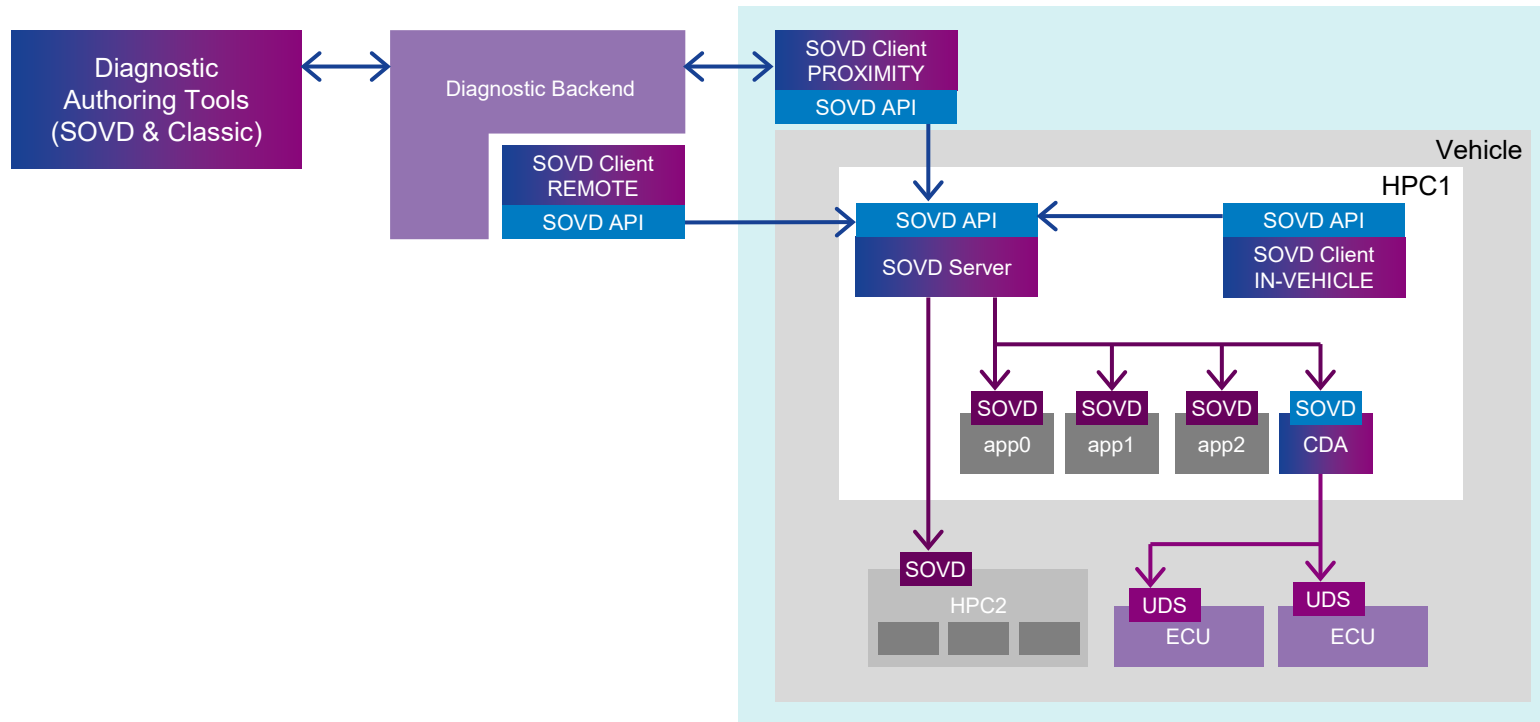


Challenges coming with new E/E architectures for software-defined vehicles

- SDVs shift **diagnostics to include software** components
- **New mechanisms are needed** to manage software structures and dependencies
- Diagnostics require handling a **continuously evolving set of data**
- **Static diagnostic** approaches will **struggle** in dynamic environments

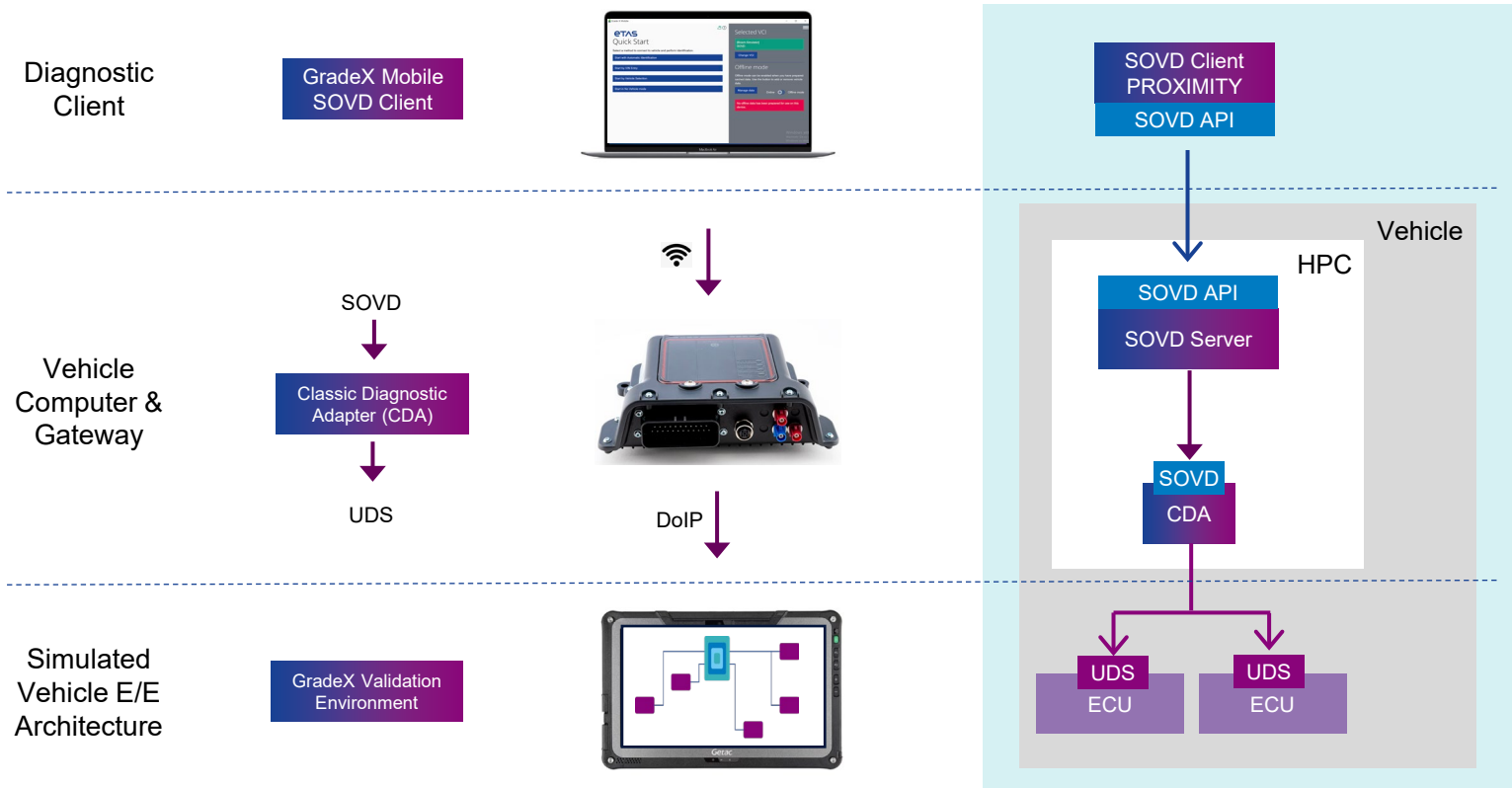


High level SOVD architecture



Service-oriented vehicle diagnostics (SOVD)

SID Summit SOVD / CDA Demonstrator



Let's connect!

ETAS



How am
I driving?



Ivo Köhler

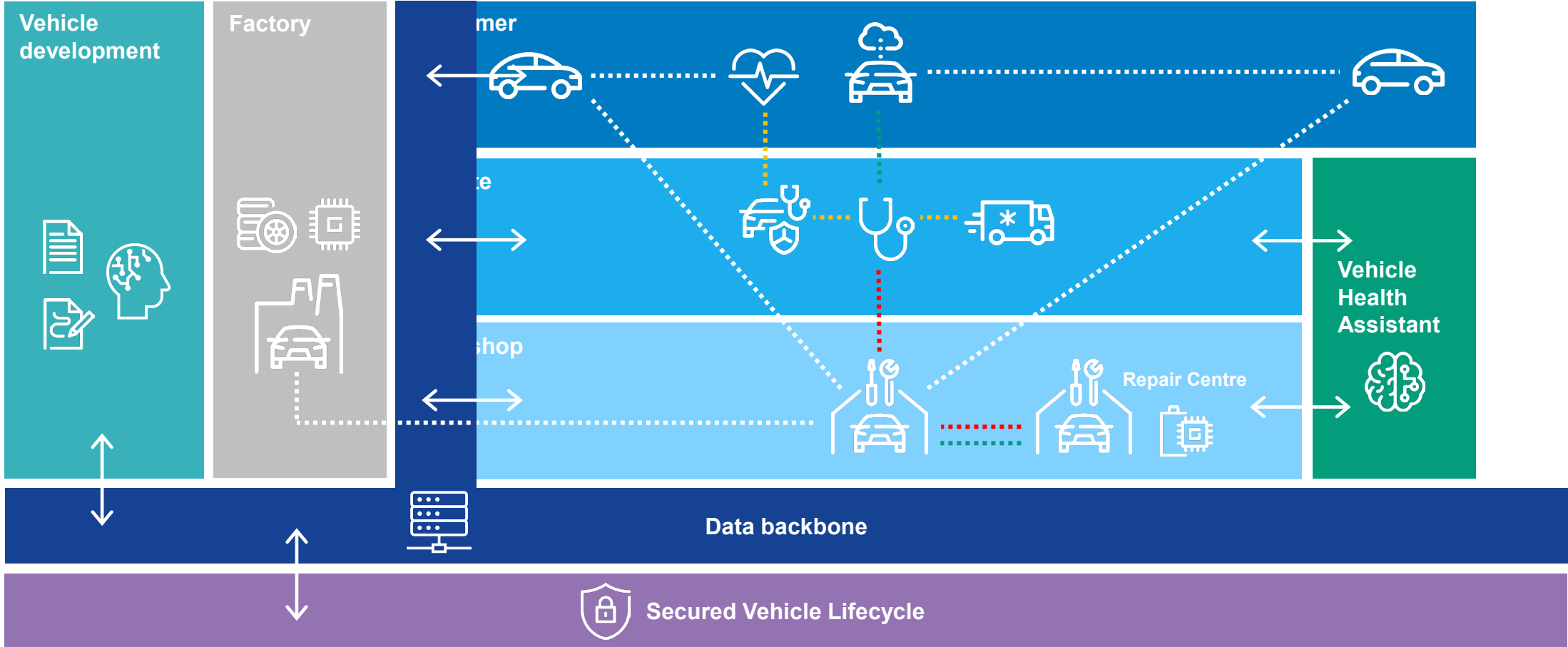
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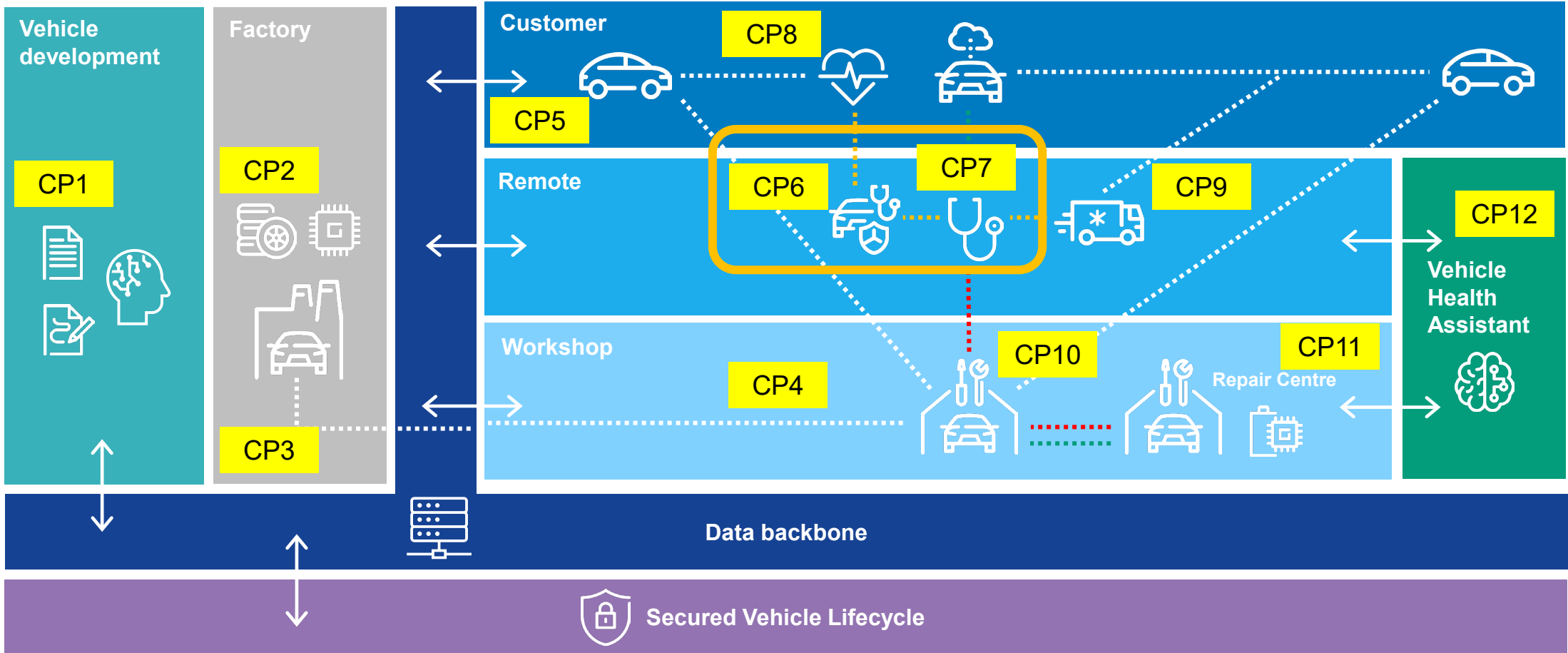
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ETAS Diagnostic & Security Journey



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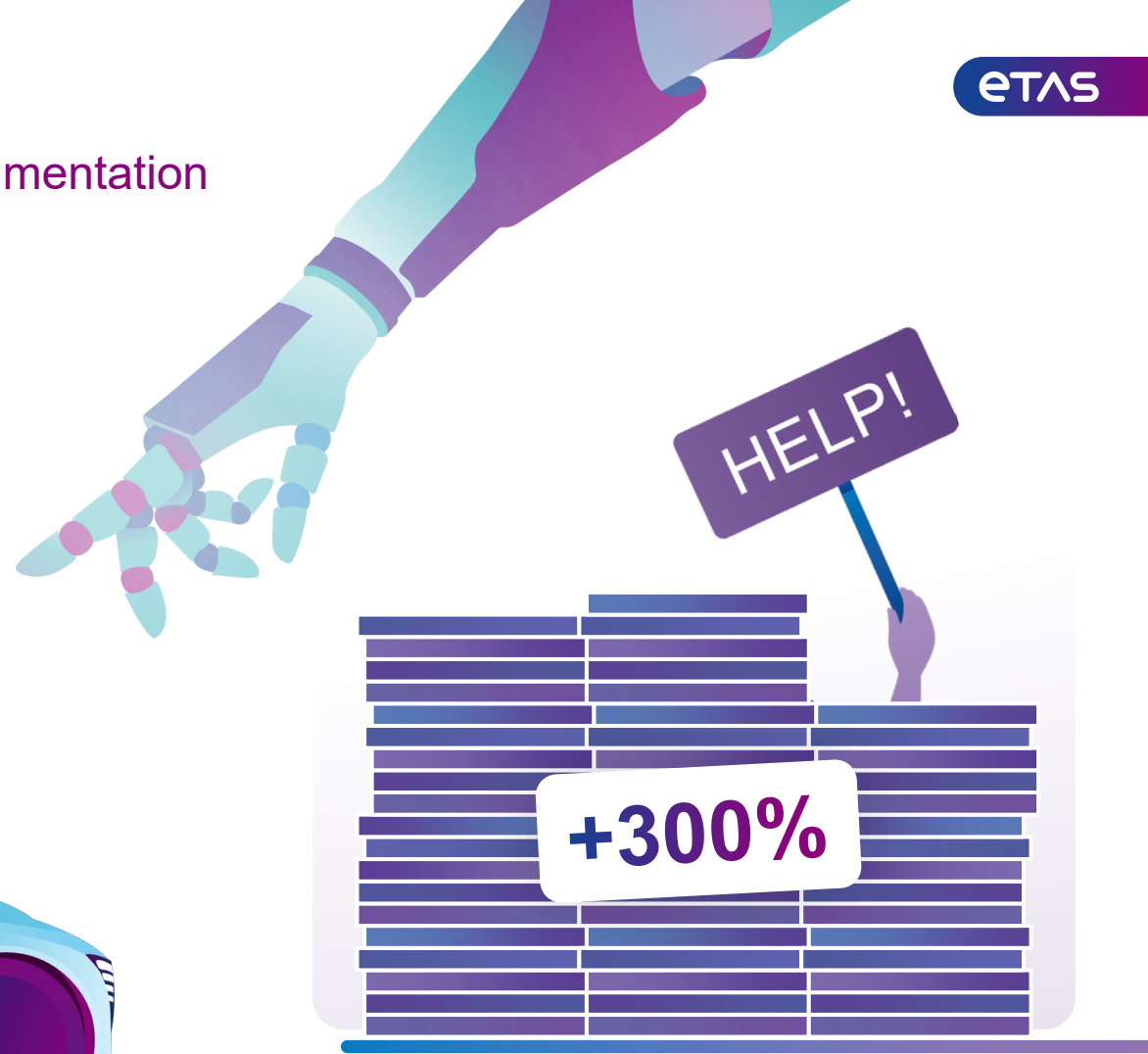
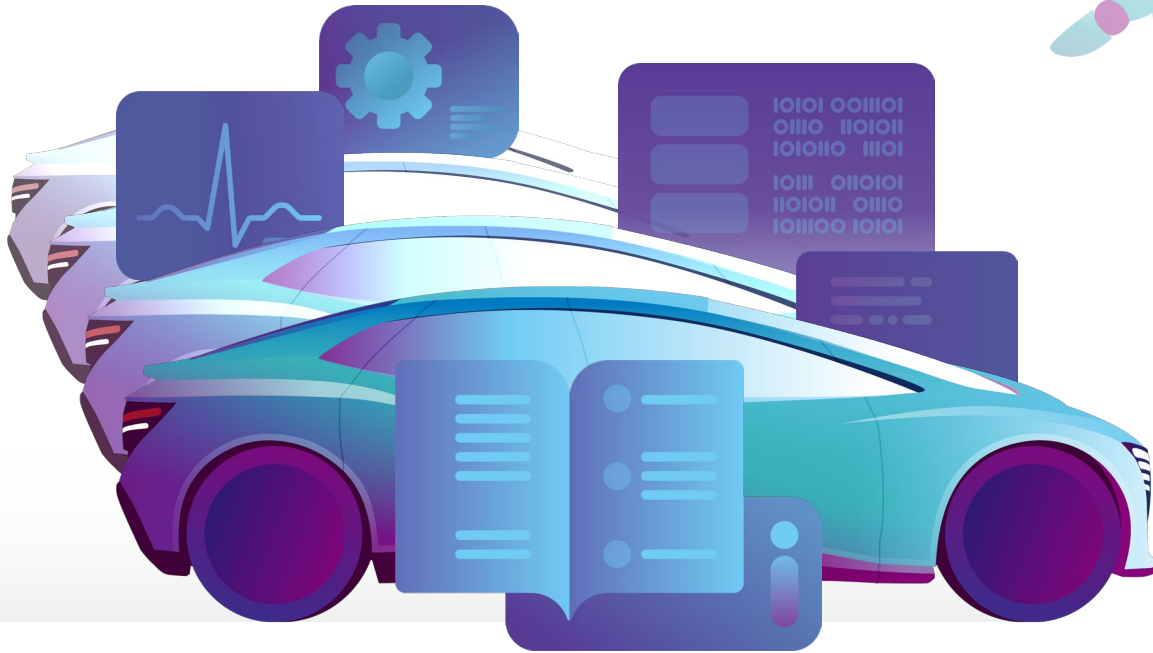
ETAS Diagnostic & Security Journey



Turbocharging Content Creation

Accelerated innovation: AI transforms vehicle documentation

eTAS



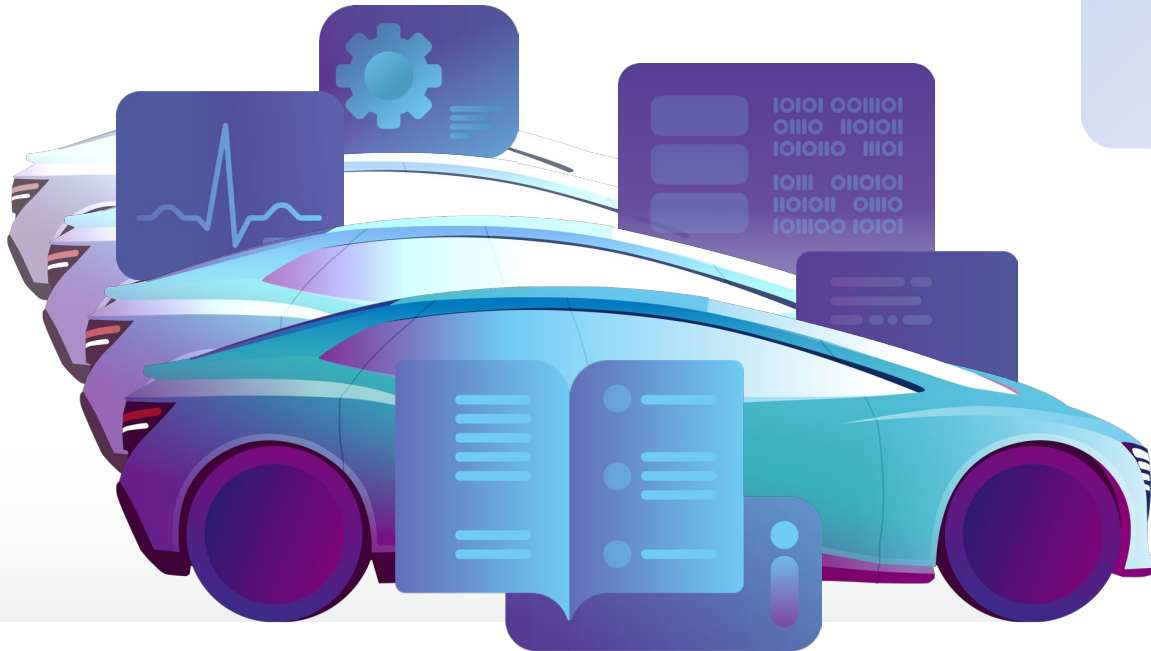
Millions of pages of documentation

Turbocharging Content Creation

Accelerated innovation: AI transforms vehicle documentation

Challenge #1: How to create and maintain the content.

Challenge #2: How to find the right content.



„Zero Authoring“



Effort reduced
by 75%



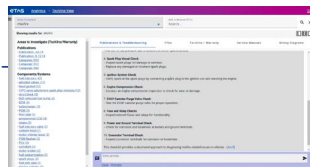
Vehicle
information
solutions

AI-powered Solutions for Workshop Technicians and Technical Authors

Digital Workshop Assistant

AI-powered guidance at your fingertips – Delivering real-time, VIN-specific insights to ensure flawless repairs, every time.

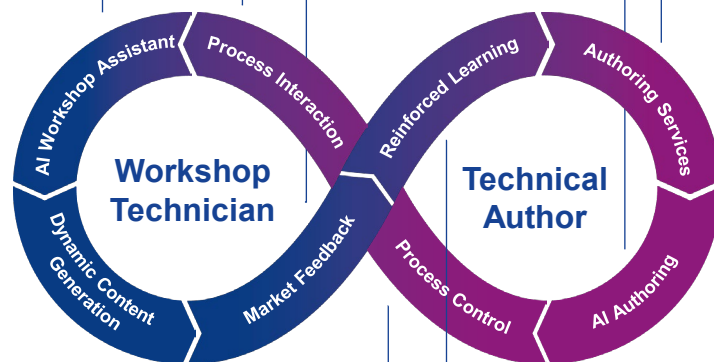
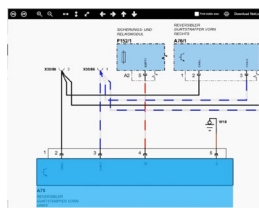
Smarter workflows, better service – Digitalized processes and remote collaboration for consistent, high-quality repairs.



ActiveSchematics

Instant wiring diagram – Dynamically generated, VIN-specific diagrams cut troubleshooting time significantly

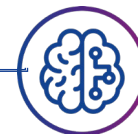
See only what matters – Focused, function-based schematics eliminate complexity and speed up repairs.



AI Authoring Assistant

AI-driven documentation, done right – Automate service manuals, owner guides, and training content with precision.

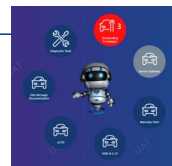
Seamless authoring from start to finish – AI transforms engineering data into accurate, up-to-date documentation.



Process Control, Market Feedback & Analytics

Smarter decisions, better outcomes – AI-driven insights optimize documentation, compliance, and service workflows.

Turn feedback into action – Reinforced learning refines processes based on real-world technician data.



Enhanced Cost Efficiency in Technical Authoring and Streamlined Technician Workflow with AI

Demo's

VIS Customer/market problem statement

One large OEM vehicle launches:**105 separate vehicle launches** across the globe

- 10 High Change Launches
- 40 Medium Change Launches
- 55 Low Change Launches

A workshop manual per vehicle:

- 13.000-22.000 pages
- 900-2.600 pinpoint tests
- 2.900 – 7.000 DTCs

105 vehicles* 22.000 pages = 2.31M
2.31M * 10 year = 23.1M pages

New technologies increases complexity (2011 => 2021):

- +300% increase in DTCs
- +250% increase in page count



>50

OEM customers

>600

Authors

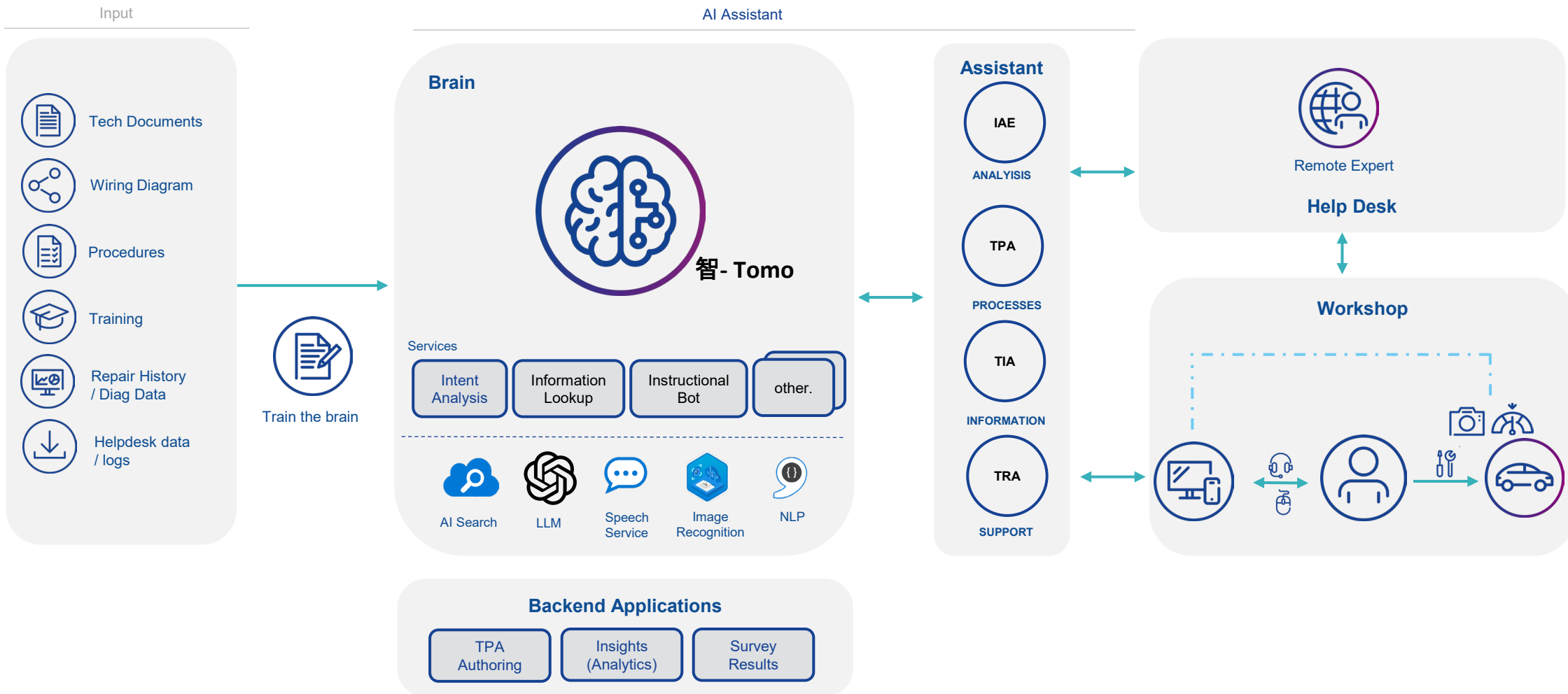
>500.000

Technicians using daily the information

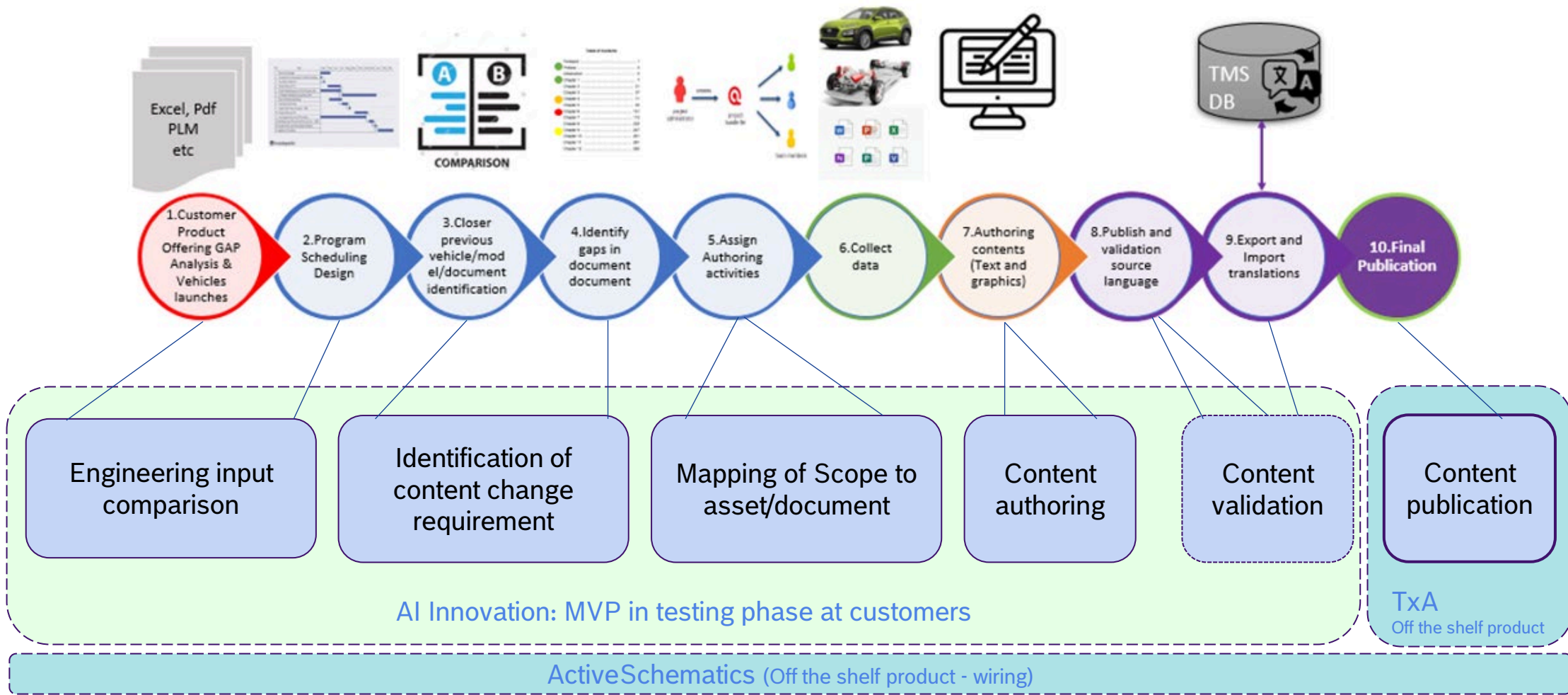
Challenge #1: How to create and maintain the content.**Challenge #2: How to find the right content.****Challenge #3: How to be compliant with global and regional norms/legislations and customer standards.**

Cost of manual creation increases dramatically and only scales with head count

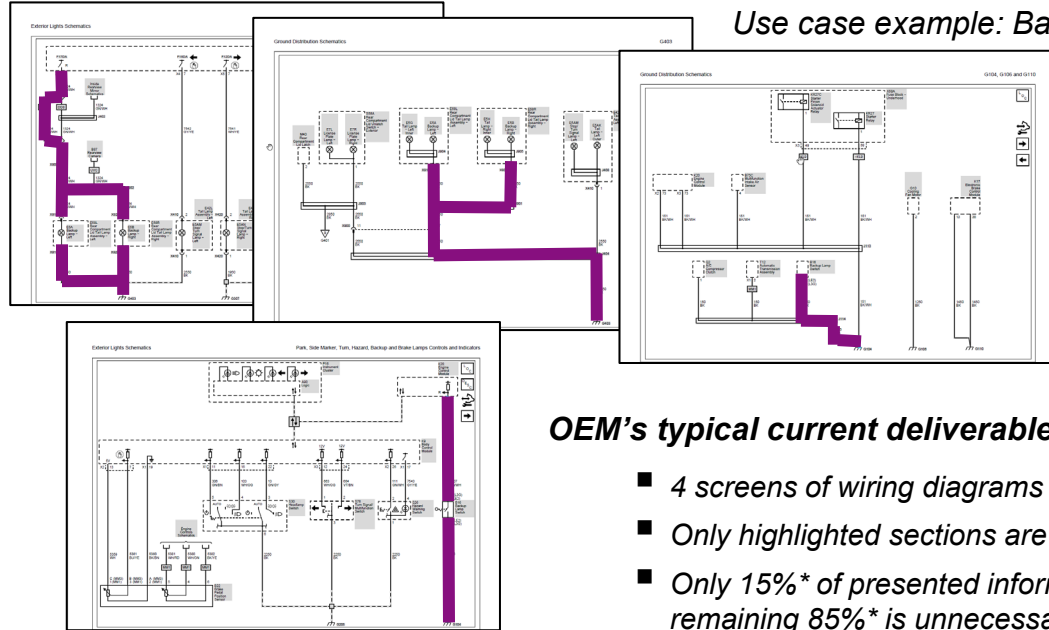
AI Workshop Assistant – Deployment



Value Stream Elements & Product Maturity



How to create and how to find the right content



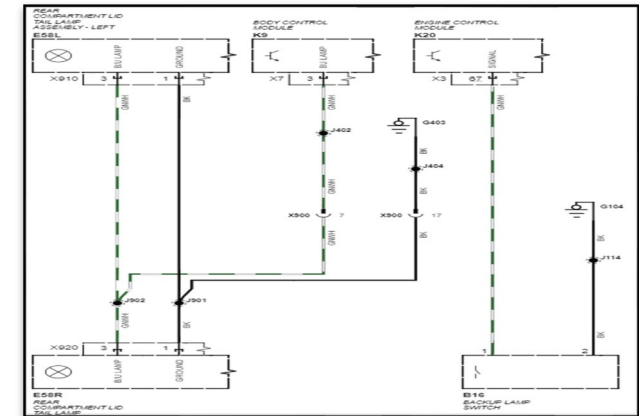
Use case example: Back Up – Light Not Working

OEM's typical current deliverable:

- 4 screens of wiring diagrams are presented,
- Only highlighted sections are relevant,
- Only 15%* of presented information is needed, remaining 85%* is unnecessary and distracting and is cognitive overload (which is costing time to digest)!
- Experienced technician needs approx. 6-10 minutes to digest this information, an entry level technician even longer.

ActiveSchematics deliverable:

- Less than 1 screen is presented,
- Only relevant components and wiring sections are generated,
- Less time needed to digest, more focus on solving the problem,
- Digesting this information is less than 1 minute!



Cognitive overload or too much information is costing money.

Let's connect!

ETAS



How am
I driving?



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Thank you!