



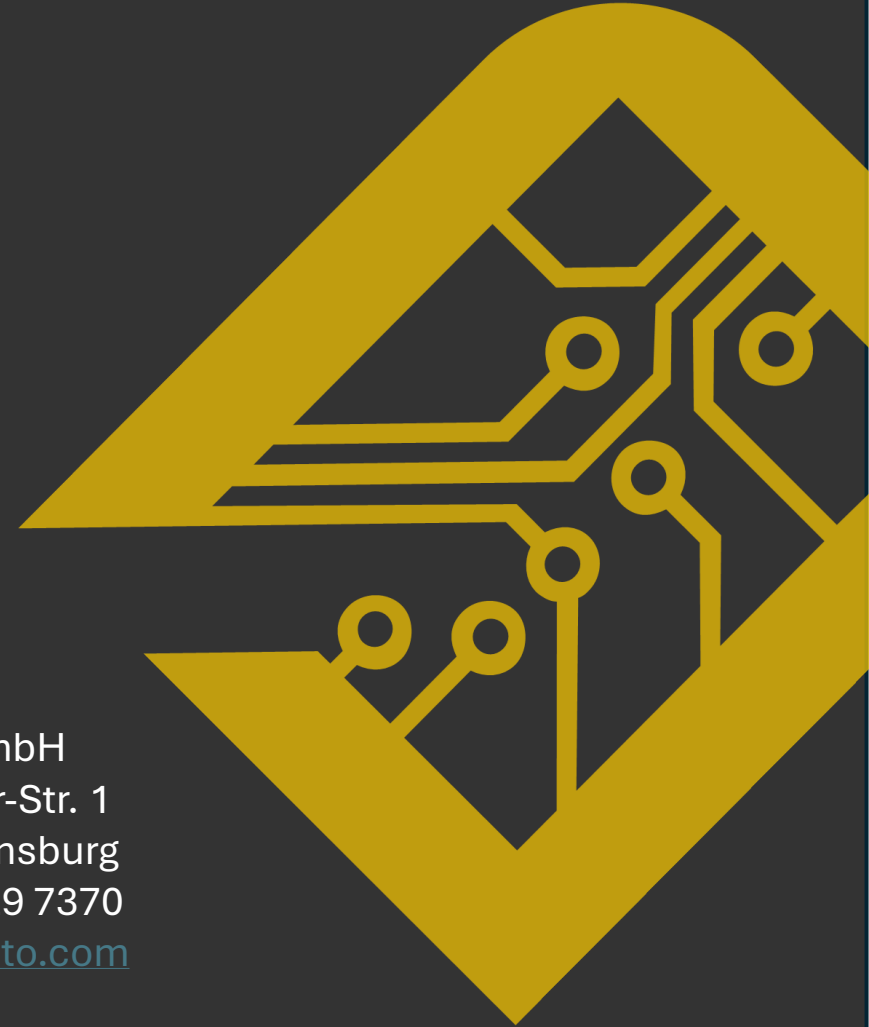
dissecto

Security Testing, simplified.

As a deep-tech startup, dissecto is reshaping the cybersecurity landscape with its flagship product, dissecto HydraVision - an intuitive, scalable, and cost-effective solution that simplifies cybersecurity testing of embedded systems. We offer **PaaS, SaaS, and on-premise solutions** to cater to diverse industry needs.



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Franz-Mayer-Str. 1
93053 Regensburg
+49 941 4629 7370
www.dissecto.com





the founders



**Alexander
Meisel**

COO

- Over 20 years in cybersecurity, specializing in strategies for the automotive sector
- Former Co-founder of "art of defence" GmbH
- Two decades of innovation, leadership and engagement



**Dr. Nils
Weiß**

CEO

- Over 8 years of experience in automotive security, specializing in penetration testing and vehicle system vulnerabilities
- Renowned expert, speaker and global advisor in automotive security
- Interdisciplinary expert – from soldering-iron to cloud software



**Dr. Enrico
Pozzobon**

CTO

- Specialist in embedded penetration testing, focusing on automotive hardware
- Can hack almost every embedded system with an EMP
- Created some buzz within the cybersecurity landscape with his research in 2022



key milestones

2022

eXIST

- dissecto was founded
- EXIST Transfer of Research
- attracted notable clients like CARIAD, KTM, Allianz Zentrum für Technik, and ADAC
- Launch of HydraScan

2023



- Start of HydraVision development
- Launch of HydraHat
- ISO 9001 certification

2024



TISAX[®]

- Launch of HydraLink
- Launch of HydraVision
- First ever ScapyCon Automotive
- ISO 27001 certification
- TISAX certification



business partners



**BG
Networks**

Specializing in medical and IoT cybersecurity, BG Networks removes barriers to secure IoT devices.

Spatial Scope: **USA**

BG Networks Inc.
100 Robin Rd
Weston, MA (02493)
UNITED STATES

www.bgnetworks.com



**Trinity
Tech LTD**

Cybersecurity Experts based in Taiwan with a deep understanding of the local market.

Spatial Scope: **Asia & PAC**

Trinity Technologies Ltd
No. 22, Ln. 583, Ruiguang Rd
Taipei 114695
TAIWAN

<https://www.trinitytec.net/en>



**Lexington
Soft**

Indian- and US- based company connecting engineers with local business opportunities.

Spatial Scope: **India**

Lexington Soft
Old Madras Rd no. 3
Bangalore, Karnataka 560016
INDIA

www.lexingtonsoft.com



references

amag



intive



 Payatu

KTM

CYEQT
KNOWLEDGE BASE

ASRG



 **EDAG**

C A R I A D

ADAC

 **ERNW**
providing security.




DRÄXLMAIER



DAIMLER
TRUCK

Allianz 


BG NETWORKS

OAMTC



Continental 

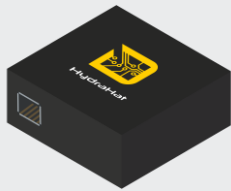


T SECURITY



Hydra* portfolio

Hardware



HydraHat

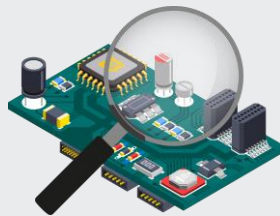


HydraProbe



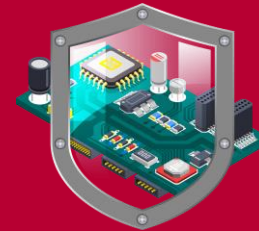
HydraLink

Software



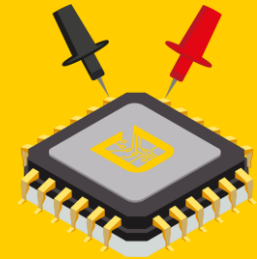
HydraScan

Security Test Environment



HydraVision

Consulting & Pentesting

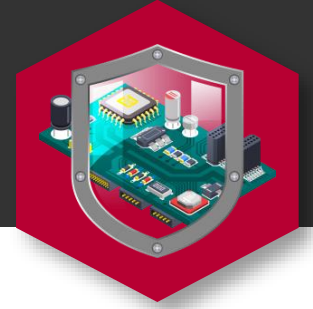


Trainings & Workshops





industry challenges



Regulatory Compliance

Evolving regulations is no longer optional, it's a requirement!

Non-compliance means:

- no type approval
- no production start
- 4 month delay of vehicle launch, 2 billion cost



Complex Systems

At the beginning of the century, vehicles averaged about 10 ECUs. By 2024, that number can reach up to 70, supporting around 600 million lines of code and driving up to 40% of production cost.



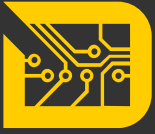
Advancing Technology

By 2025, 90% of new vehicles will support OTA updates, enabling autonomous and software-defined features - and demanding continuous, proactive security adaptations. Expected costs for updates 2.7 billion per year

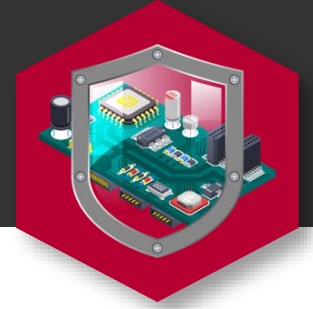


Development Cost

By 2025, the automotive cybersecurity market hits 5 billion dollars. Software makes up to 40% of a vehicle's cost. Security measures adding 20–30% to development expenses.



HydraVision - offering



Automation

HydraVision automates security testing for complex embedded systems, detecting new vulnerabilities while **ensuring compliance** with regulations. **Reduces manual effort by 70%** and improves efficiency.



Collaboration

HydraVision enables seamless collaboration with global teams and external partners, simplifying onboarding and eliminating shipping delays. **Improves efficiency and testing speed.**



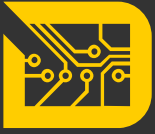
Scalability

HydraVision scales to secure entire portfolios, integrating compliance monitoring and continuous testing to meet evolving global standards. It adapts quickly, **minimizing compliance risks as regulations change!**

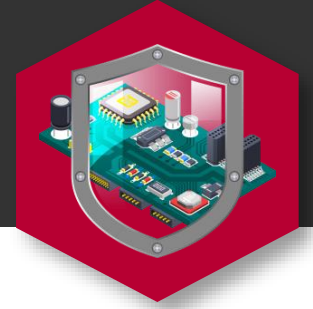


Affordability

HydraVision provides **cost-effective** security testing designed to keep up with the latest technological advancements, significantly lowering the investment needed for testing solutions. **Reduces costs by up to 75%.**



HydraVision - offering



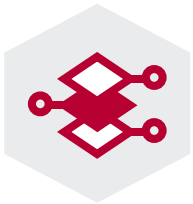
Open-Source Core

- Transparent and customizable foundation
- Continuous improvement from a global community
- Disruptive use of Open-Source technology in the automotive domain



Remote Work

- Fully web-based, no installations required
- Accessible from anywhere with a browser
- Rapid user on- & offboarding



Unique Test-Case Middlelayer

- Scales test cases across entire product portfolios
- Supports large-scale exploratory testing.
- Self-learning system

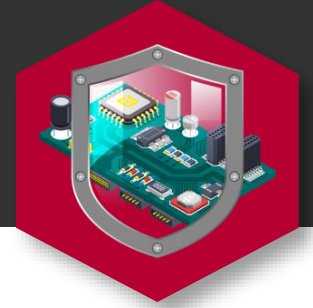


Collaboration

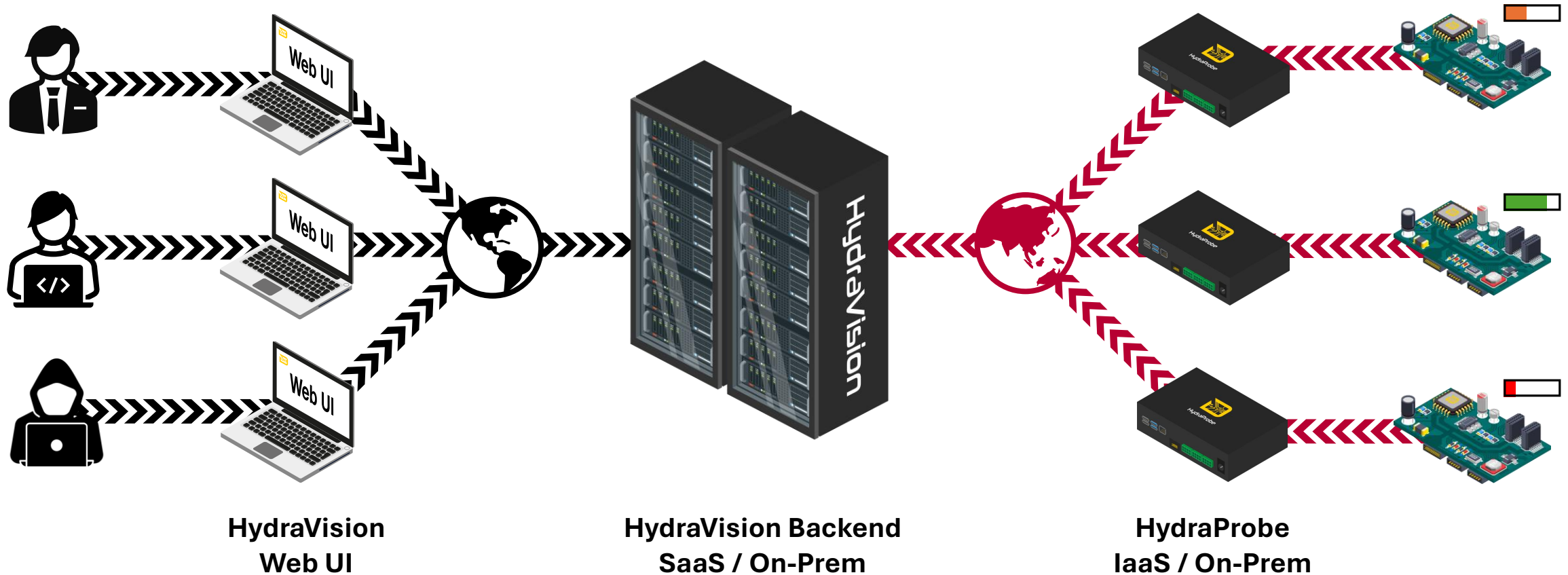
- Unified platform for OEMs, Tier 1s, and testers worldwide
- Consistent software stack for probes and test cases

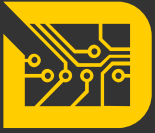


HydraVision - scheme

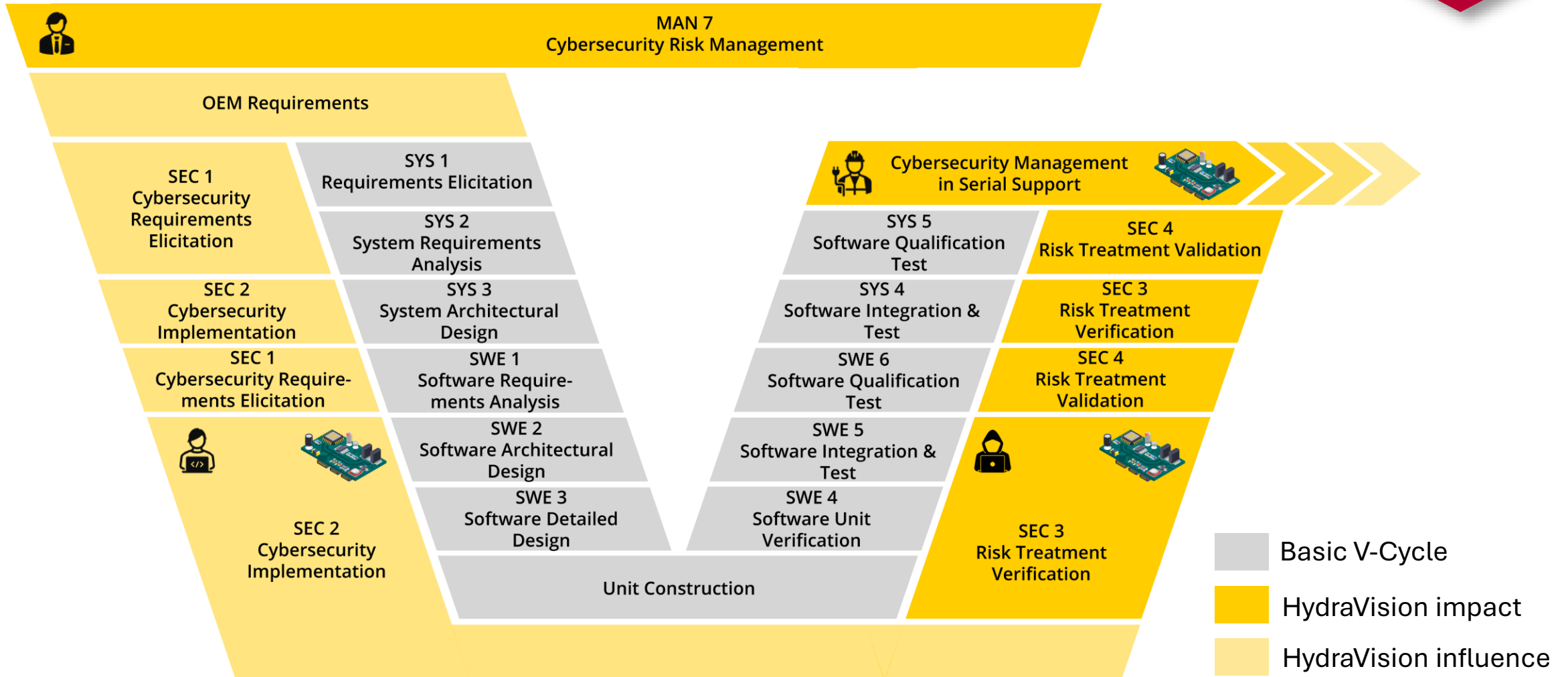
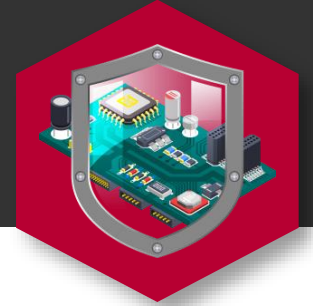


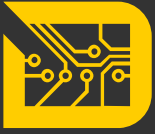
Users remotely access HydraVision via **web browsers** to control test cases on distributed **DUTs** with **HydraProbes**.



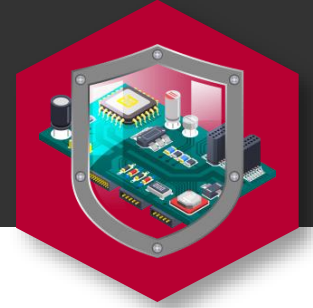


HydraVision - V-Cycle





HydraVision - target audience



Tier 1 System Supplier

- Test cases scale across multiple components and product lines
- Early issue detection reduces development delays and -cost
- Ensures compliance with UNECE R155 and ISO/SAE 21434
- Consistent environments and automated reporting



Pentesters

- Unified platform and scalable test cases
- Consistent environments and automated reporting
- Real-time teamwork, web-based global access
- Intuitive WebUI and centralized management



OEM

- End-to-end testing across all suppliers / systems
- Reusable test cases for consistent results
- Seamless integration with Tier 1s/ 2s
- Simplifies adherence to regulations / standards
- Early detection reduces costs
- Continuous monitoring and updates to address new threats proactively



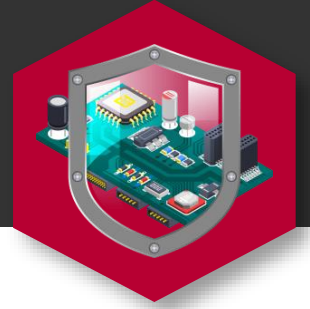
Elektrobit

Tier 2 Software Supplier

- Scalable, reusable test cases streamline testing.
- Simplifies UNECE R155 and ISO/SAE 21434 adherence.
- Enhances coordination with OEM / Tier 1
- Early vulnerability detection ensures reliable software.



HydraVision - applications



Automotive



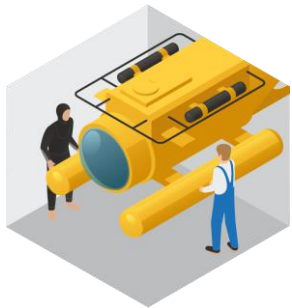
Industrial



Medical



IoT



Maritime



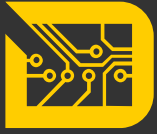
Insurance



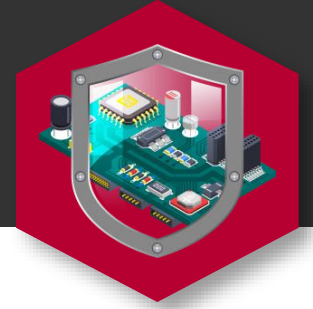
Defense



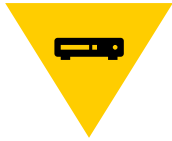
Aviation



HydraVision - global collaboration



HIL



ECU



External Pentester



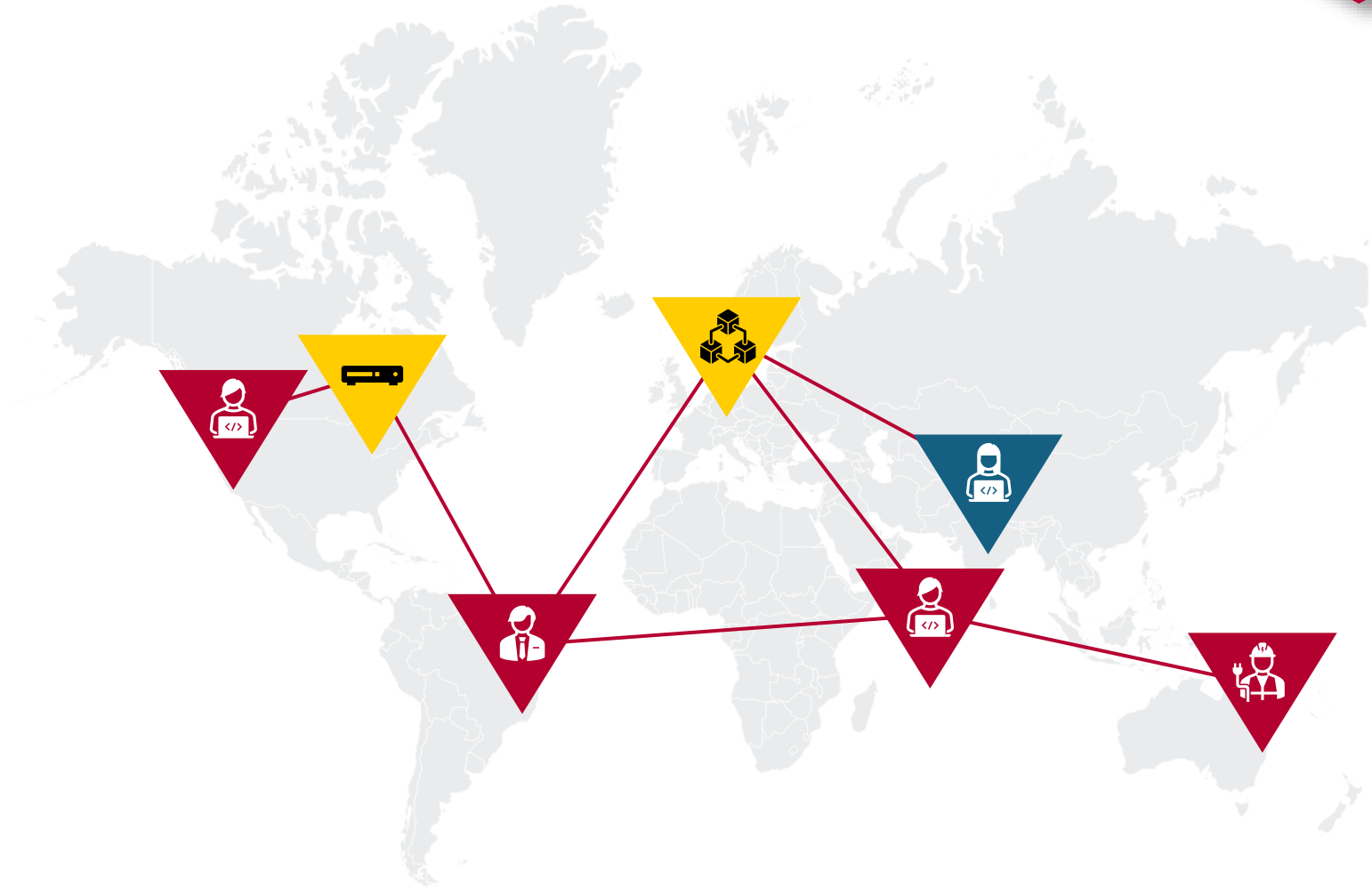
Pentester



Serial Support

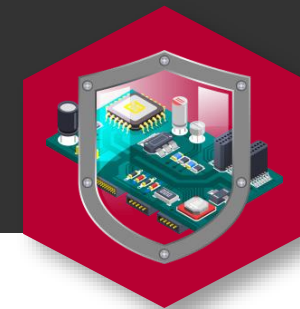


CS Manager



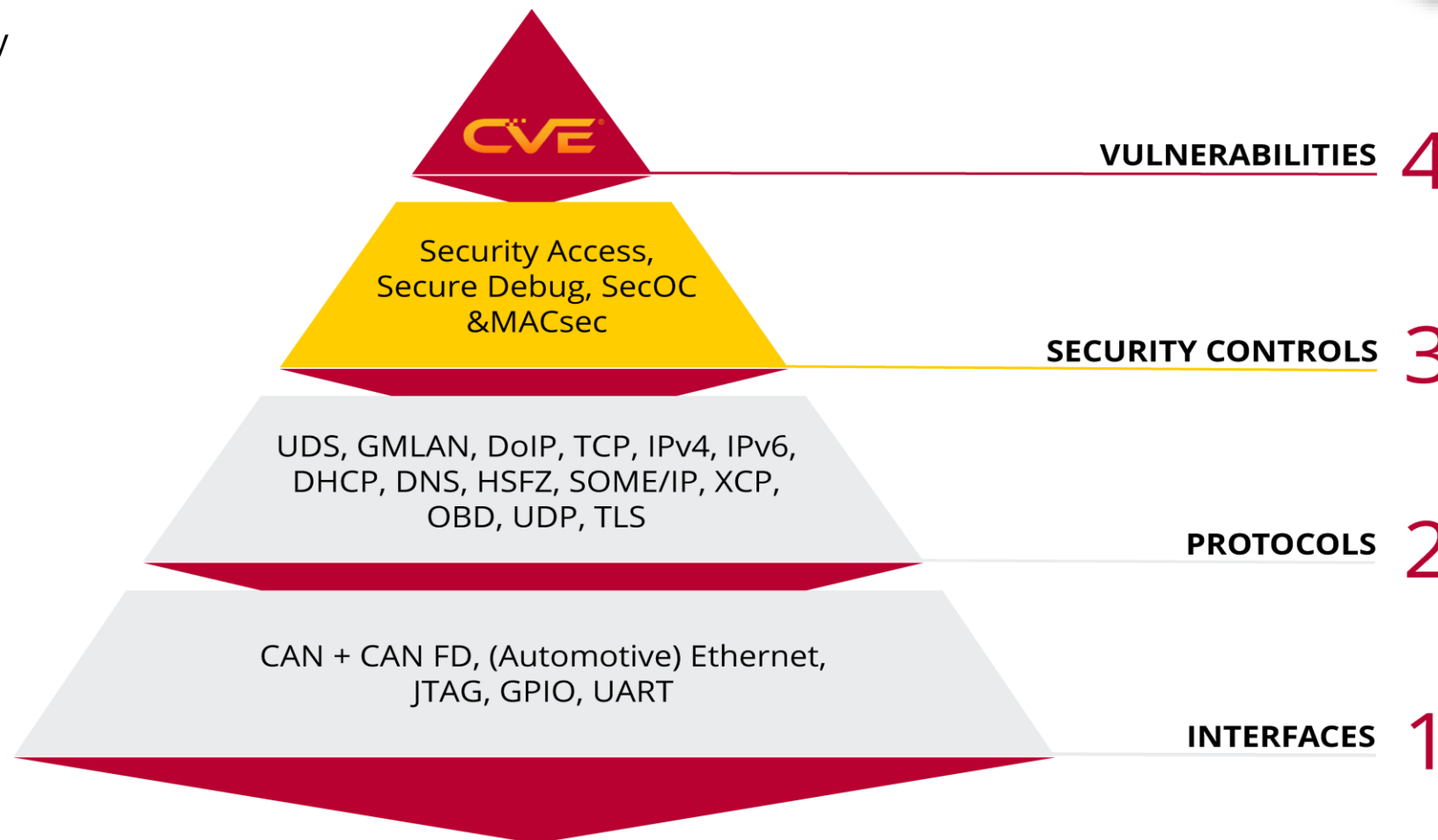


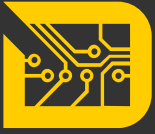
HydraVision - validation & testing



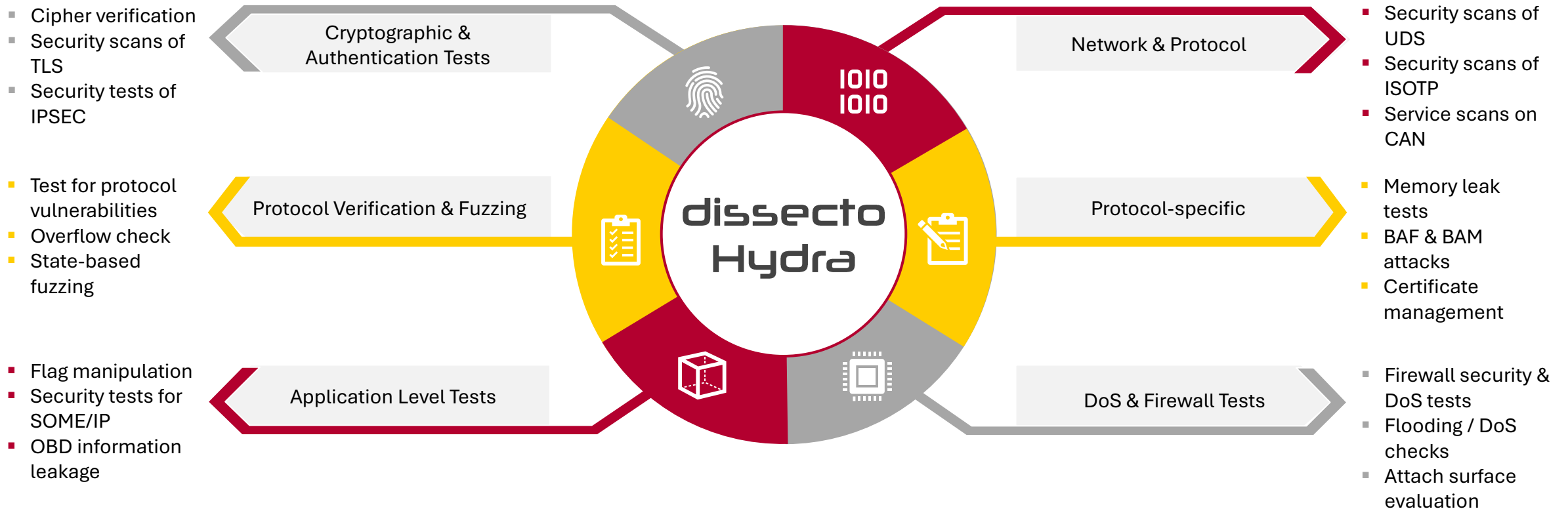
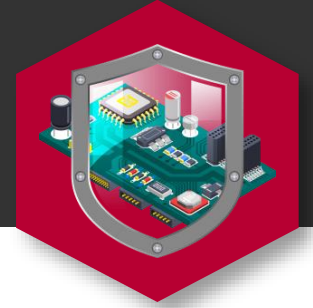
HydraVision is a robust security validation and testing solution, comprising four integral layers to fortify digital defenses

We proactively develop test cases for new threats (CVEs) reported by developers, dissecto Research or third parties. This allows attack vectors against your system to be verified and validated in a timely manner.



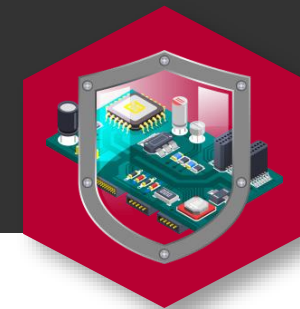


HydraVision - standard tests





HydraVision - main USPs



Compliant

Each industry has its own standards. As new vulnerabilities emerge, our testing system enables you to instantly **adapt to the latest CVEs**. Our automated, traceable tests ensure your embedded systems **remain compliant** with current regulations, providing comprehensive security coverage that **scales with your needs**.



Transparent

Years of R&D have enabled us to create a testing system that delivers consistent and reliable results. Our standardized approach ensures transparency, giving you **full visibility and control** over your security testing. With global collaboration features and seamless on-/offboarding, your team can easily **collaborate from anywhere in the world**.

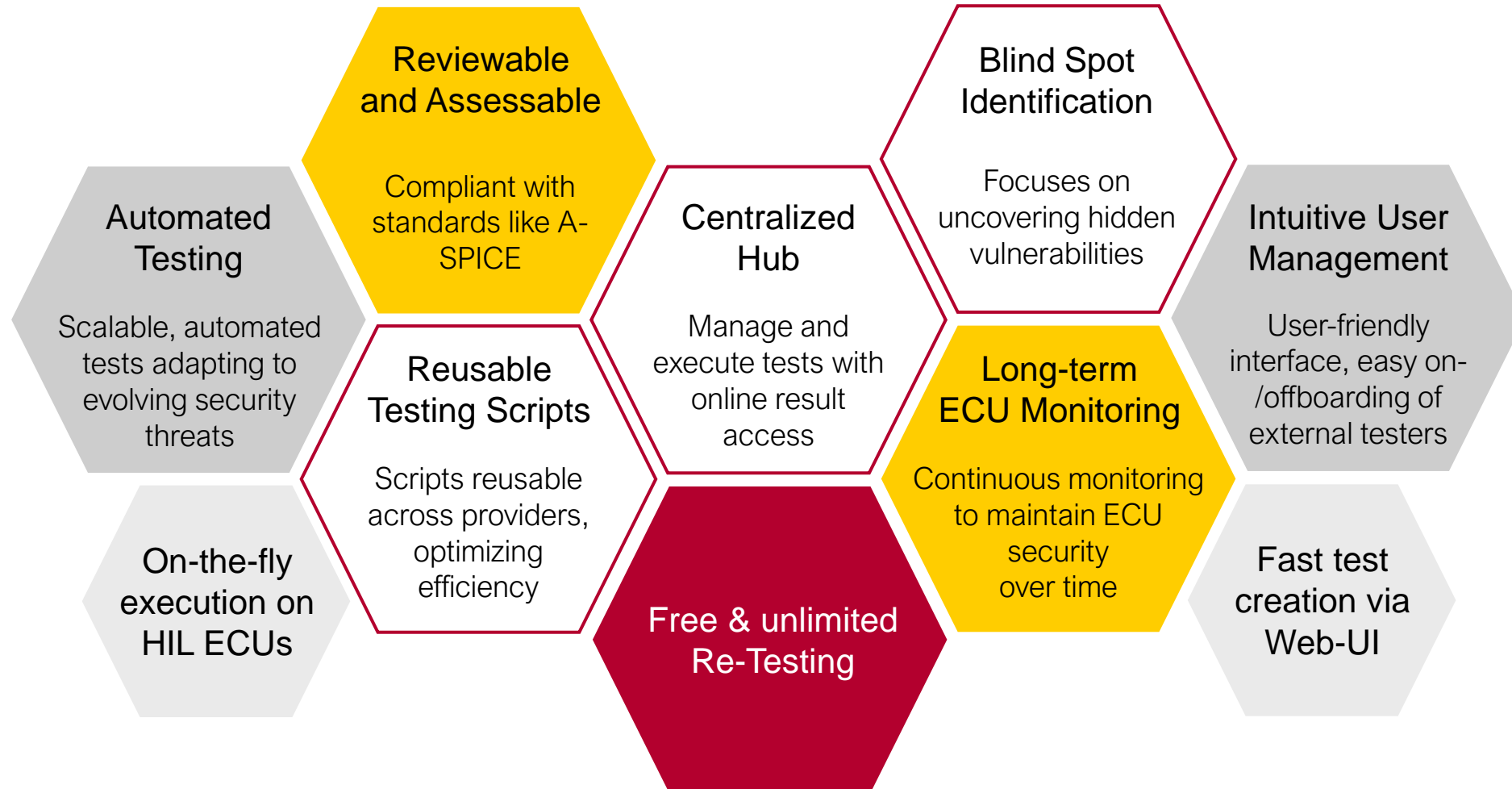
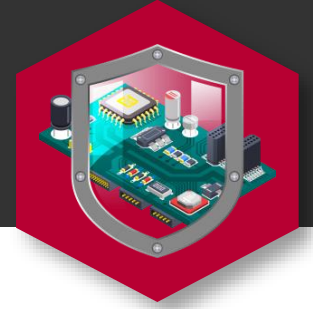


Cost-effective

Our Security Test Environment is a Platform as a Service (PaaS) that merges decades of expertise with advanced technology to deliver **cost-effective and efficient** embedded system security testing. Trusted by companies globally, our **automated solution** maintains high quality while keeping costs lower than expected.

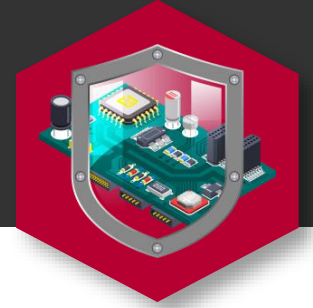


HydraVision - further benefits

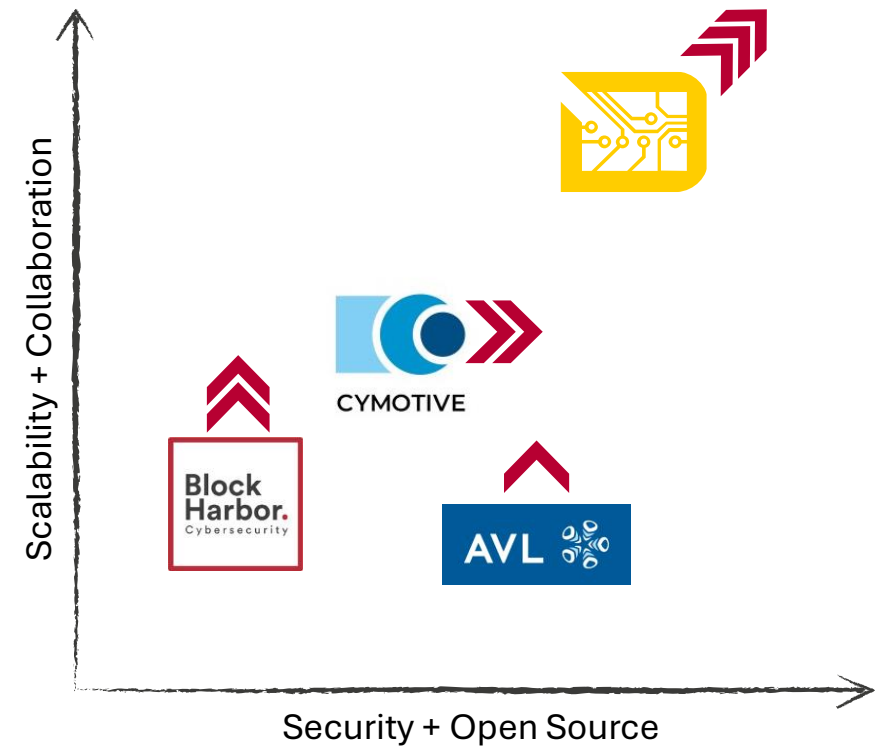




competitor overview



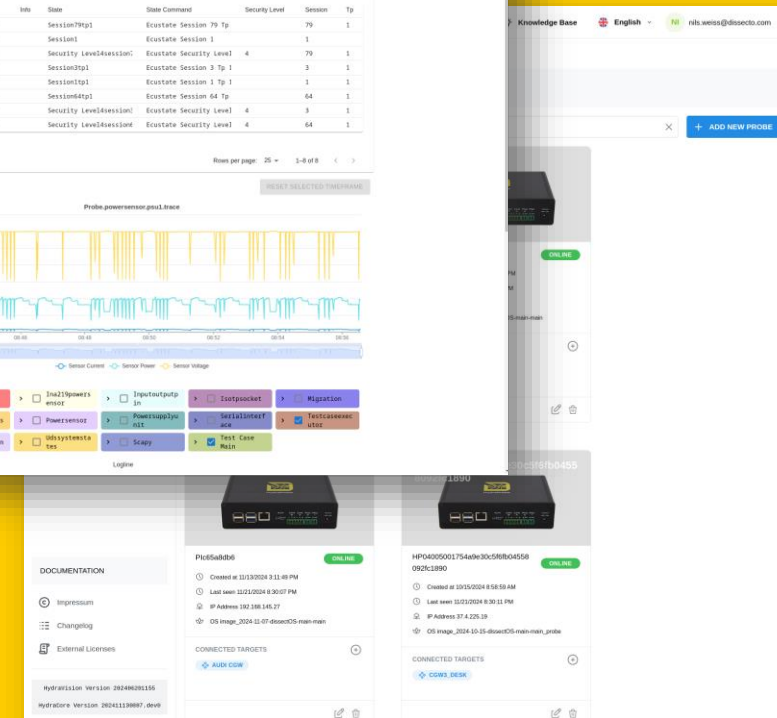
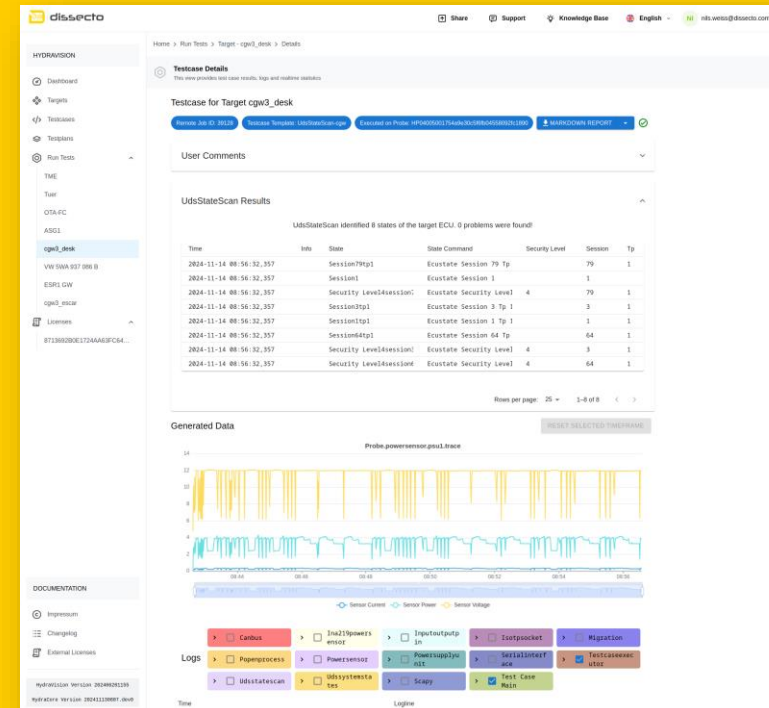
	HydraVision	Cymotive	AVL	BlockHarbor
Open Source	✓	✗	✗	✗
Remote Work	✓	✗	✗	✗
Compliance (UNECE etc.)	✓	✓	✓	✓
Test-Case Scalability	✓	✓	✗	✗
Explorative Testing	✓	✗	✗	✓
Collaboration	✓	✗	✗	✗
Real Vehicle Testing	✓	✓	✗	✓
Automated Reporting	✓	✓	✓	✓
Integration into CI/CD	✓	✓	✓	✗





Hydra* Portfolio

Besides HydraVision, we are offering Hardware solutions, penetration testing services and cybersecurity workshops





HydraProbe

ECU Security Test Tool

The dissecto HydraProbe is an essential component of our Hydra environment, acting as a critical interface between HydraVision and the device under test (DUT), ensuring smooth data flow and control. It supports **dual CAN FD**, advanced power management, and **data encryption** for **reliable cybersecurity testing**. With extended functionalities like High-Speed UART and JTAG, the interface is designed for high-performance applications. The HydraProbe can operate within the HydraVision environment or your on-site location.

Features:

- Dual CAN interface up to 5 Mbps (dual CAN FD)
- Power Monitoring
- Power Switching
- Voltage regulation (6V to 24V DC)
- Programmable co-processor for extended functions
- DUT power supply via PoE or external power supply





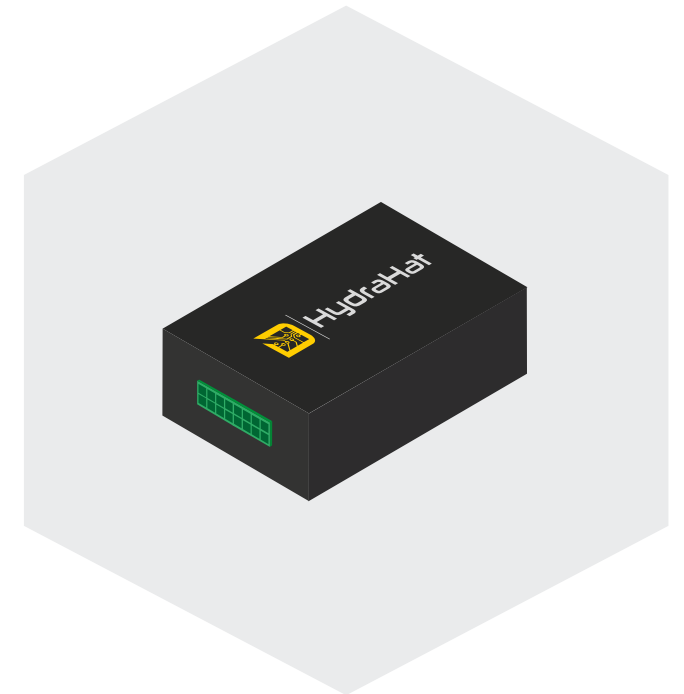
HydraHat

Dual CAN FD to Ethernet Interface

Powerful dual CAN FD to Ethernet gateway, designed for **fast, reliable, and secure** data communication. Supporting CAN FD with bitrates up to 8 Mbps and equipped with a 100 Mbps Ethernet interface, this device enables seamless data transfer **for demanding applications**. HydraHat is ideal for **time-critical** and secure industrial or automotive environments. Its robust design and user-friendly interface make integration and configuration effortless, bridging your CAN and Ethernet networks with ease.

Features:

- Dual Can FD support
- High-Speed Ethernet (100 Mbps)
- Versatile Power Options (6V-24V, optional PoE)
- Precise Timestamps (1 μ s resolution)
- Reliable and Secure Data Transmission





HydraLink

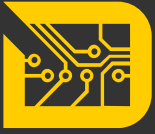
USB to Automotive Ethernet Interface

The automotive sector is undergoing a paradigm shift from (CAN)-based systems to advance Automotive Ethernet networks like **BroadR-Reach**. HydraLink, a high-performance USB to Automotive Ethernet Interface, is engineered to support this transition seamlessly. With compatibility for **100BASE-T1** and **1000BASE-T1** standards, HydraLink provides a **cost-effective** solution for reliable diagnostics, testing, and efficient prototyping.

Features:

- Supports 100BASE-T1/1000BASE-T1 over single twisted pair
- No need for additional media converters
- USB 3.0 Gen 1 to Gigabit Ethernet (100/1000)
- Driver Support for Windows and Linux
- Commercial Temperature Range (0°C to +70°C)
- Hacker-friendly thanks to 2.54 mm Pin Header



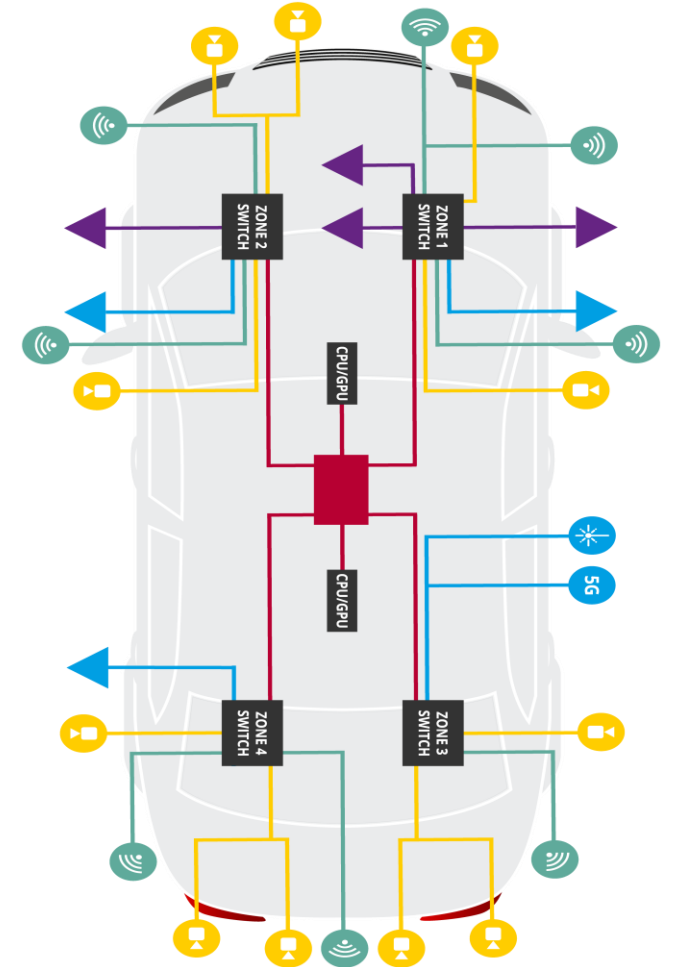


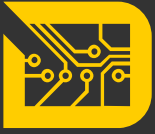
penetration testing

A penetration test, or pentest, simulates cyberattacks to assess a system's, networks's or application's security. It reveals weaknesses and strengths, aiding in **risk assessment**. Results inform the client of vulnerabilities and recommend **mitigation strategies**. Penetration tests can be tailored to meet your **individual requirements**.

Our portfolio:

- Security tests of entire vehicles
- From internal communication to backend systems
- Penetration tests of ECUs and embedded systems
- Hardware-security analysis
- Proof of concept attacks and showcases
- Bughunting (e.g. Audi-Bughunting-Event)





trainings & workshops

We actively engage in the cybersecurity community by giving talks at conferences, hosting workshops for entire company departments, by collaborating in several public projects and by sharing our knowledge online. Some examples:

- “Automotive Networks-, Controllers- and Systems-Security“ Course for Automotive- and Security-Engineers
- Hardware Security (Beginners/ Advanced) at IHK Regensburg and bbw (Bildungswerk der bay. Wirtschaft)
- Conferences: escar, embedded world, ELIV, NullCon, Hardwear.io
- Automotive- and Embedded Security Course for OTH Regensburg
- B.Y.ECU (Bring your ECU)
- CYEQT Knowledge-Base
- ScapyCon Automotive





ScapyCon Automotive

ScapyCon provides participants with an opportunity to deepen their skills and knowledge in using Scapy, the leading Python tool for packet manipulation. The conference offers a blend of **traditional presentations** and hands-on **cybersecurity workshops**. While the focus included automotive cybersecurity applications, ScapyCon spanned a wide range of industries, **from aviation to IoT**.

Join us for this years' conference from September 23 – September 25 2025!

ScapyCon Automotive

```
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        apYyYyCY/////////XCa
        sY////////XSpCs  scpCY//Pp
syp  ayYyYyYySCP//Pp      syY//C
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        A//A      cyP///C
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        sY////////y  caa      S//P
        cayCyayP//Ya      pY/Ya
        sY/PsY///YCC      sC//Yp
        sc  sccaCY//PCypaapyCP//Ysa
          spCPY////////YFSpS
            ccaacs
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dissecto

Thank you for your attention!



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