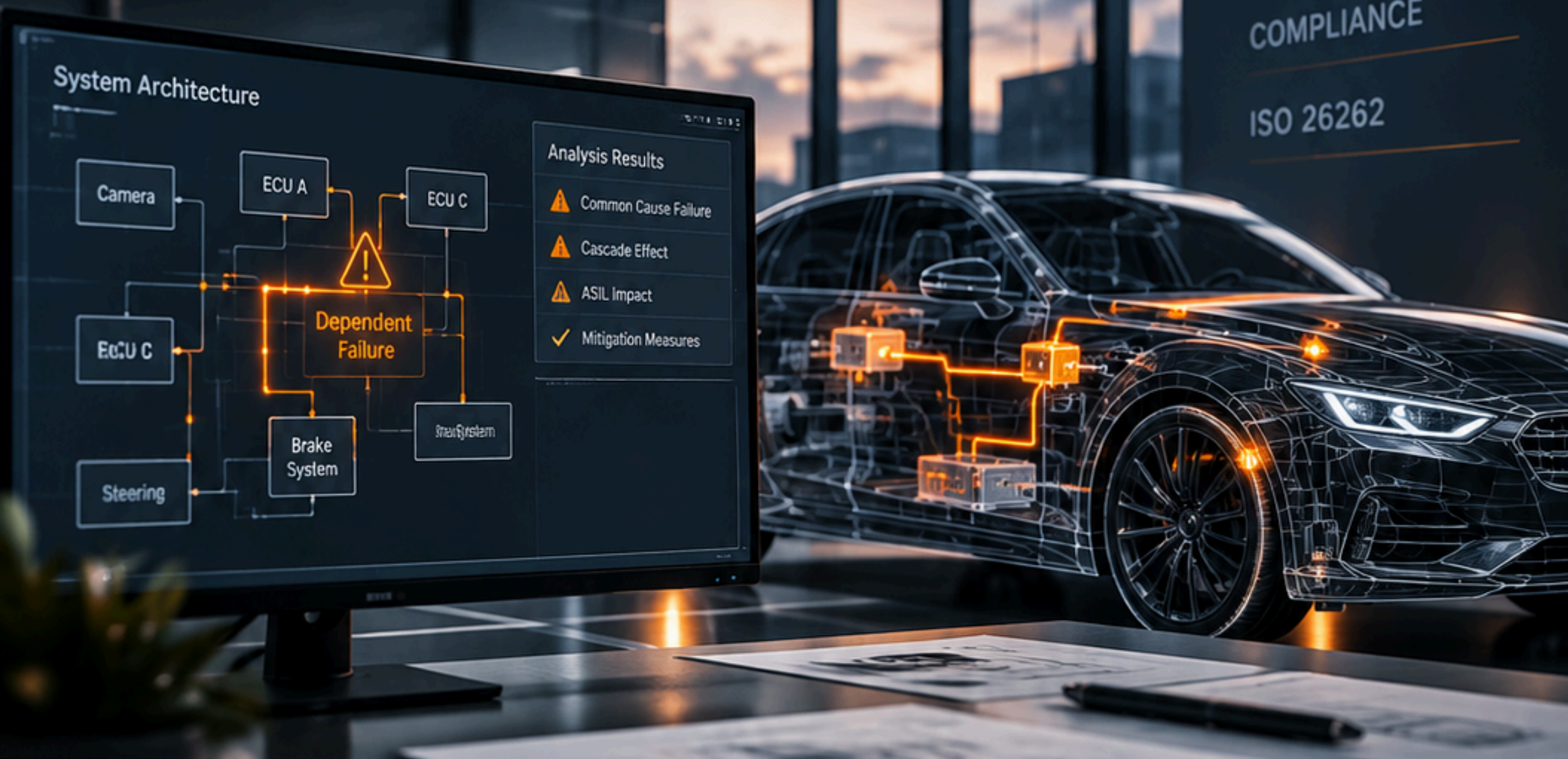


Do you want to reduce the risk of **Functional Safety (FuSa)** violations?

-  Dependent Failures
-  Common Cause Failures
-  Failure Propagation
-  ISO 26262 Compliance





Ensuring **safer vehicles** through intelligent analysis.

In modern automotive engineering, Dependent Failure Analysis (DFA) is a crucial process to ensure the safety and reliability of vehicles in compliance with the ISO 26262 functional safety standard.

DFA helps to identify and analyze potential dependent failures, such as cascade or common cause failures, early in the development process. By understanding the complex interdependencies between hardware, software and system elements, potential risks can be mitigated before they lead to functional safety violations.

Our experts support you with practical experience and proven methods to integrate DFA seamlessly into your development process – for robust systems, higher reliability and safe mobility.

Our Approach.



DFA is a structured method to detect and address potential failure modes during the system design phase.

System Architecture



Functional Safety
System Design
DFA

1.



Identification of all signal sources

We collect and analyze current design documentation (Functional Safety Goals (FSG), Schematics, Requirements, Block Diagrams) to clarify all signal sources and their ASIL status.

2.



Ensure DFA related conditions

By reviewing Safety Goals and collecting possible faults, we define "Failure Effects" and "Resulting Fault Modes". Considering the implemented "Failure Avoidance" and "Safety Mechanisms" we clarify the "FSG Violation" status, adding comments and Recommendations.

3.



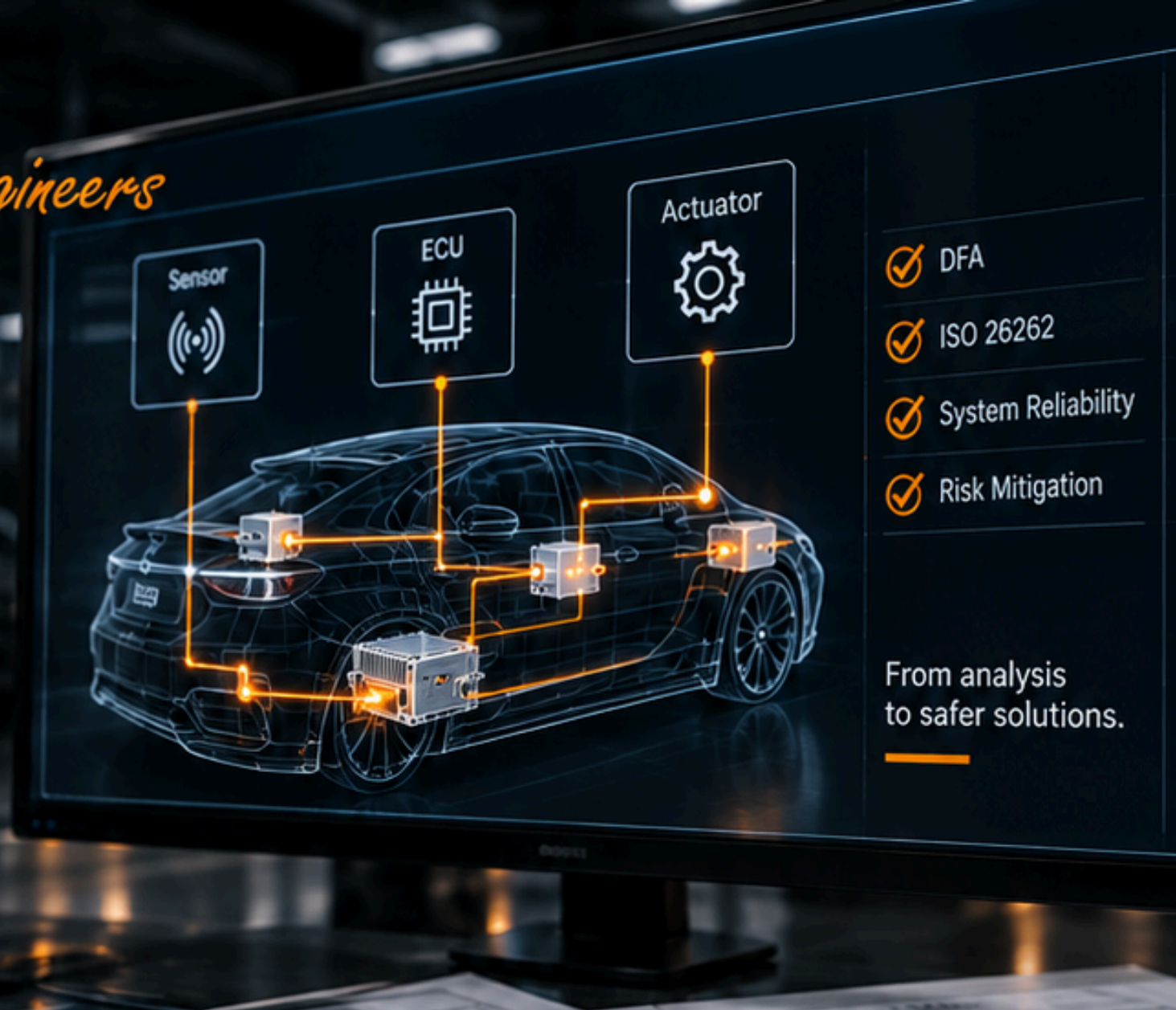
Discussing results and Support compliance

We ensure that failures are anticipated, and appropriate safety mechanisms are implemented to prevent or minimize their impact. DFA plays an essential role in meeting ISO 26262 requirements by proactively identifying risks, evaluating their severity and integrating mitigation measures into the design process.

Your Benefits.

Stronger systems.
Safer mobility.

ISO 26262
Functional Safety
System Design



Benefits.



Early risk **identification**

Early in the development cycle identifying, analyzing, and mitigating DFA failure modes.



More **robust** systems

Insights into strategies that enhance system robustness against complex failure types.



Fewer **cascade** failures

Eliminate cascade and common cause failures by engineers with practical experience in FuSa and HW.

Get in touch with our experts today.

From analysis
to safer solutions.

 Functional Safety

 DFA

 ISO 26262

 Reliable Systems

 Expert Support

Engineering
a safer tomorrow.



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