

Enhancing Automotive System Mapping with ITHENA's Digital Solution

Client Profile

A global leader in automotive software specializing in AI-driven solutions for software-defined vehicles. With 11,000+ experts, the company accelerates next-gen mobility through embedded software and digital innovations for a cleaner, smarter, and safer future.



ITHENA's System Mapping solution revolutionized the client's approach to automotive design and simulation. Digital visualization, simplified error detection, and improved system connectivity enhanced efficiency, reducing error detection and simulation time while streamlining automotive development.

CHALLENGES

The client struggled with:

- Lack of a unified view of all automobile components.
- Difficulty in detecting system errors efficiently.
- Limited connectivity between multiple ECUs and systems.
- Physical data simulation led to significant time wastage.

SOLUTIONS

To address these challenges, ITHENA deployed its System Mapping solution:

1

Comprehensive System Mapping

Provided a complete digital visualization of all automobile parts.

2

Custom Layout Design

Enabled flexible designing based on client input.

3

Error Detection Simplification

Integrated color-coded connections for quick and easy issue identification.

4

Map Designer Feature

Allowed drag-and-drop functionality for ECU placements.

5

Digital Simulation

Replaced physical simulation with a digital model, enhancing efficiency and accuracy.

BENEFITS

30%

faster error
detection

40%

reduction in
simulation time

25%

boost in system
connectivity