Welcome to KI4BoardNet

In the research project "Integral Agile E/E Development for Fusion and Standardized Power and Data Wiring Systems - KI4BoardNet" - twenty-two partners from research and science as well as from the electronics and user industries are working under the coordination of CARIAD experts to develop new development methods for efficient wiring system development.

KI4BoardNet focuses on the development of architectures, components and design tools for the vehicle electrical system of the future. Agile and AI-supported design processes as well as maximum automation in the development and production of on-board networks are to be jointly researched and implemented. Intelligent zone concepts enable the required computing power in the vehicle to be distributed among a small number of control units (zone controllers) and the central computing unit. The vehicle electrical system itself thus becomes an intelligent vehicle component. New key components in the area of connectors/cables/power and data concepts as well as sensor/IC/actuator/controller algorithms up to procedures for fault detection and redundancy available in zones are being developed for this purpose. The project results are illustrated by a vehicle demonstrator.

The German Federal Ministry of Education and Research (BMBF) is supporting the KI4BoardNet project under the funding codes 6ME0763-16ME0784 as part of the funding announcement "Electronics and Software Development Methods for the Digitalization of Automobility" (MANNHEIM [1]).

The MANNHEIM-KI4BoardNet project (project labels 16ME0763-16ME0784 is supported within the framework of the funding announcement "Electronics and software development methods for the digitalisation of automobility" (MANNHEIM) by the German Federal Ministry of Research, Technology and Space (BMFTR) gefördert.

Links:
[1] https://elektronikforschung.de/foerderung/bekanntmachungen/mannheim