

GOAL

Development of a set of tools enabling efficient engineering of IoT inspired system of systems comprising edge IoT devices and cloud-based integration platform.

Challenge

INTEGRATION OF ELECTRONIC DESIGN AUTOMATION TOOLS WITH PRODUCT LIFECYCLE TOOLS

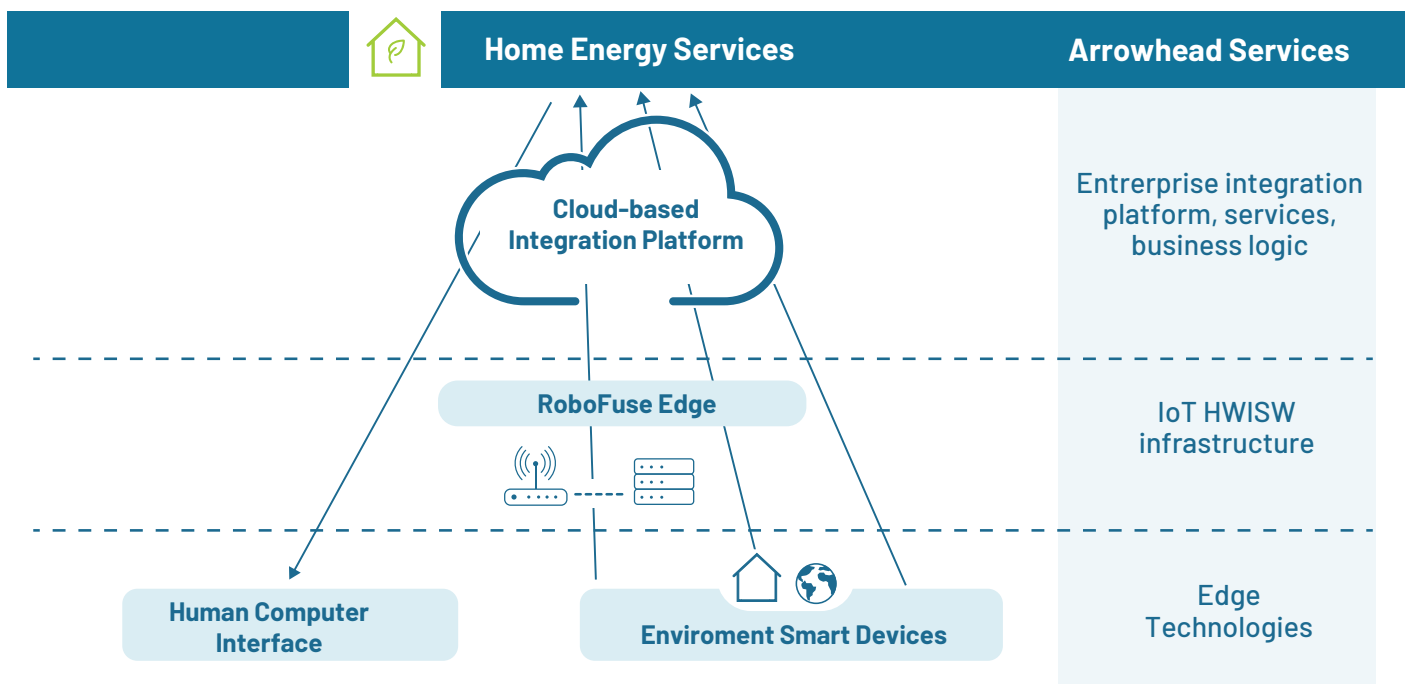
The aim of the use case is to link a PCB design tool with tools that are used in the lifecycle of an embedded product (such as a requirement management tool, or an architecture design tool). The OASIS standard OSLC (Open Services for Lifecycle Collaboration) will be used to carry out this integration and exchange information within the designed toolchain.

More specifically, an interoperable layer based on the OSLC principles, oriented to the market of developers of embedded systems, will be designed and implemented in the context of the project integration platform. This solution will help to integrate, reuse and recover traces between existing and new system artefacts generated during the development cycle.

SOS ENGINEERING OF IOT EDGE DEVICES

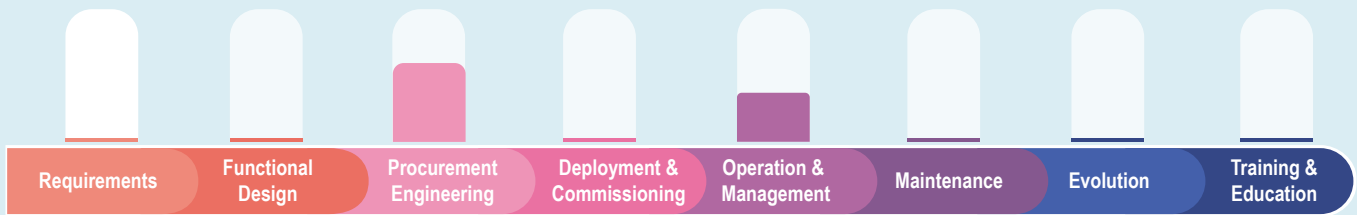
The innovation is set of tools enabling efficient engineering of IoT inspired system of systems comprising edge IoT devices and cloud-based integration platform.

These tools and HW kits shall be provided as development kit which will be made available to the market and as educational material to professionals.





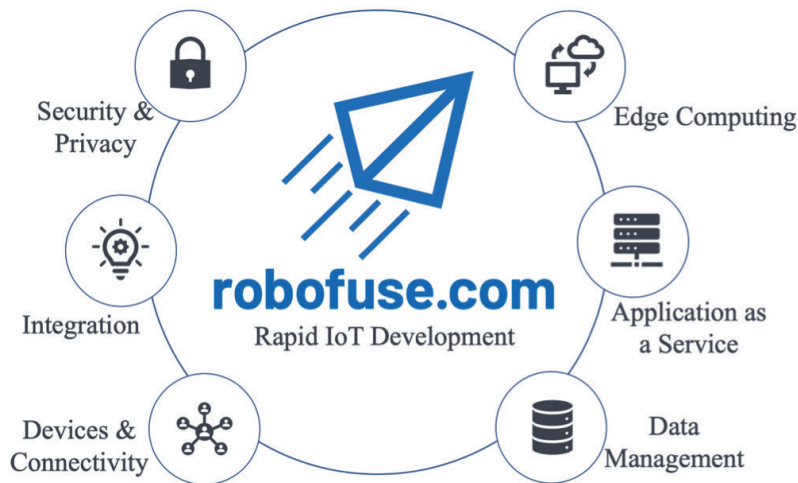
Engineering Phases



Results

RoboFuse, developed by ROPARDO, provides an IoT turnkey solution and allows your business Apps to access real-time data without much engineering work. RoboFuse is a Platform as a Service (PaaS) that facilitates device communication and management, data storage, and app creation, while adhering to robust security protocols.

The easily-integrated turnkey solution can empower any IoT and Apps business with real-time connectivity, cloud hosting, data harvesting, data analytics, data encryption, easy apps generator that manages IoT devices remotely, without much engineering work.



RoboFuse represents a unified platform composed by various components in form of tools, technologies, SDKs, and protocols that support the variety of IoT solutions. Each IoT solution has clearly defined protocols and technologies that are used to achieve specific business goals according to the industry vertical.

Partner Data



ROPARDO is an independent leading software engineering company providing customers with key competitive advantages - Innovation, Quality, Timely delivery, since 1994. With the latest tools and agile methods, we create beautiful highly performing products and platforms as well as user-friendly mobile, cloud or web applications. We master Cloud, Big Data, Web, Mobile, and DevOps technologies to build commercially efficient software that enables users to transform their vision into actions.

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