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The Manutelligence project is creating an online platform for manufacturing companies that aims to boost efficiency when designing a new service or product. The platform will also enable the reuse and optimisation of designs and close the gap between design, manufacturing and testing.

Focusing on four use cases – automotive, ships, smart houses and the ‘FABLab’ (a digital manufacturing workplace that can be used by anyone), the project team is building a secure space in which designers and engineers can access information from IT and Internet of Things (IoT) systems.

The process starts with initial design as a simple computer-aided design drawing and simulation, for which design tools and simulation suites will be integrated. Designers will then create a digital mock-up of the product, containing all relevant data, and the product or service will then be simulated and tested in a virtual environment.

Information from the digital mock-up will feed into the process design and the manufacturing phases. Process design and manufacturing execution tools will enable engineers to design and manage these phases, turning the digital mock-up into a physical product.

From then on, information from the IoT will enable traceability and sensoring of physical products during the testing, usage, maintenance and after sales services.

See also:
CORDIS
Project:
Product Service Design and Manufacturing Intelligence Engineering Platform
Project Acronym:
Manutelligence
Project website: