WASABI

White-label shop for digital intelligent assistance and human-AI collaboration in manufacturing

What is WASABI?

WASABI is a project funded in the framework of the Horizon Europe programme.

WASABI focuses on **digital intelligent assistance solutions**, based on **human-AI collaboration**, and applied to the manufacturing domain.

WASABI aims at providing SMEs with the tools and knowledge to **improve workers capacities and performance**, providing advanced user interfaces for continuous augmented hybrid-decision-making.

Wasabi allows European SMEs **to achieve sustainability principles and technological and operational innovation capacity**, such as to become renewed and cutting-edge, and reach leadership goals and **market competitiveness.**

What is WASABI vision?

The WASABI vision is that digital assistance and conversational AI become **standard practices** to reach **sustainability goals** in manufacturing.

Wasabi makes digital intelligence assistance and **conversational artificial intelligence** solutions become standard practices, **accessible, affordable and manageable** even for small companies.

Goals

Sustainability	Agility and Resilience	Technology Adoption	Innovation Capacity	Leadership

Consortium

CARSA · BIBA · UNIMORE · SYXIS · SINTEF · TTTech

ATLANTIS · ICCS ΕΠΙΣΕΥ · mews PARTNERS · reinova · KU LEUVEN CiTiP CENTRE FOR IT & IP LAW · SH4

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Use Cases

USE CASE 1 - Augmented waste management and valorisation

This use case focuses on **waste management in manufacturing to valorise waste**. If a production process cannot avoid waste for technical reasons, this waste may be reusable by other organizations provided its characteristics meet the requirements. **Advanced user interfaces** will help workers describe production waste to identify if it qualifies for reuse by a third party. This use case will connect the *COALA solution for cognitive assistance* consisting of a composition of trustworthy AI components with a voice- enabled digital intelligent assistant as an interface, with the *rEUse waste management platform*.
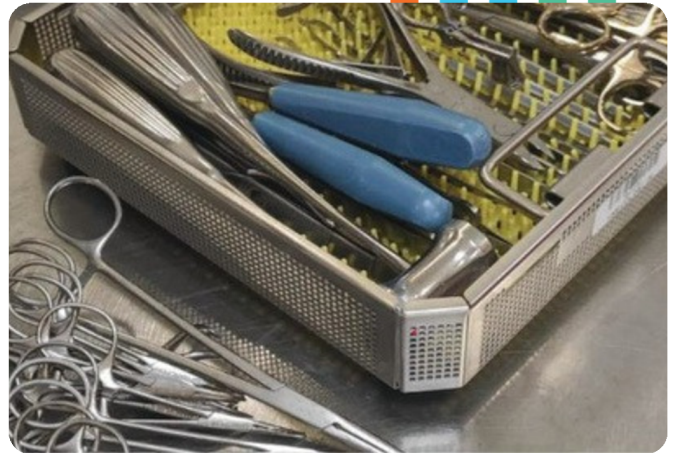
Image Credits: Croma Gio Batta España SL

USE CASE 2 - Assisted workforce management

This use case focuses on **manufacturing workforce management** after a regional crisis that forces many people to search for jobs. Manufacturing organizations that suffer from workforce shortages will be able to use **human- centred AI-based digital assistance solutions** to onboard and integrate interested people faster into their workforce. WASABI will demonstrate its solution in this use case by customizing the *COALA assistant's dialog model* and creating a knowledge base that contains what new workers should focus on during the onboarding process.

Image Credits: Episcan

USE CASE 3 - Assisted quality assurance for sustainable products

This use case focuses on the **augmentation of product quality testing** to increase product and worker safety, carbon footprint, and workers' cognitive skills and reduce the burden of repetitive, boring, error-prone, and knowledge intensive activities. A digital assistant will support workers in product testing by interactively executing a validation protocol, assuring the highest safety and sustainability standard while at the same time reducing validation time and energy consumption. WASABI will demonstrate its solution in four cases: automotive battery testing, dimensional metrology, material testing and prosthetics quality testing.

Image Credits: Silk Biomaterials Srl