



**WHITE-LABEL SHOP FOR DIGITAL INTELLIGENT
ASSISTANCE AND HUMAN-AI COLLABORATION IN
MANUFACTURING**

Silvia de la Maza- INNOVALIA



Co-funded by the Horizon Europe programme
of the European Union under Grant Agreement
Nº 101092176

CONTENT



01. What is WASABI?
02. Goals
03. Use Cases
04. Open Calls



01.

What is WASABI?

What is WASABI?

- **Digital intelligent assistance** solutions, based on **human-AI collaboration** applied to the manufacturing domain.
- The WASABI solution **increases the cognitive abilities of workers** and accelerates the acquisition and transfer of knowledge, through *Natural Language Processing* (NLP) system, **for the upskilling of the existing workforce** as well as to secure job positions.

Consortium

carsa

BIBA



TITech



mews
PARTNERS



TRIMEK
METROLOGICAL ENGINEERING

EROMAGIO.BATTA
ESFRAP
Quality in Hospital Services



KLISBio

innovalia
ASSOCIATION

Who is it for?

- **SMEs and mid-caps manufacturers in Europe** that need to meet sustainability goals. Producing components for complex products, or often operating in emerging specialty equipment markets, they must be quite careful about spending their resources on activities with uncertain costs or outcomes.
- Digital intelligence assistance and **conversational artificial intelligence** solutions become standard practices, **accessible, affordable, and manageable** even for small companies. 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**.



02.

Goals

Goals

Sustainability

Agility & Resilience

Technology Adoption

Leadership

Innovation capacity





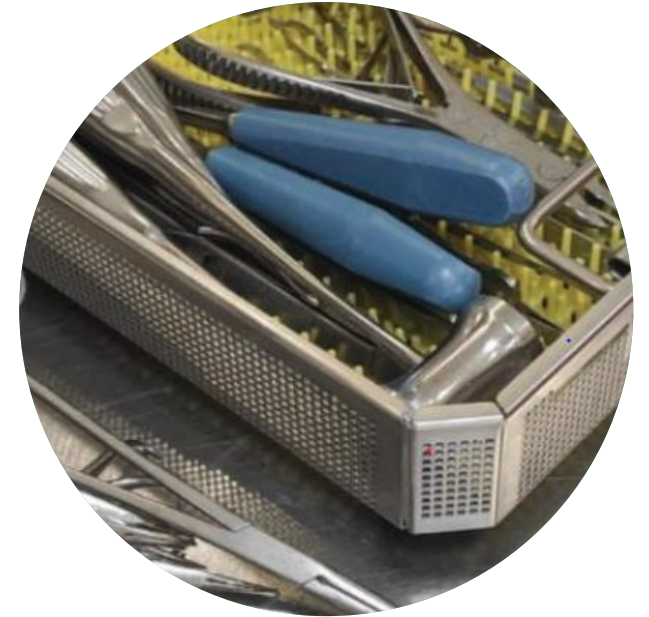
03.

Use cases

1: Augmented waste management and valorisation

Waste management for the manufacturing sector, through a **conversational interface and rich-media records**, to identify waste and determine if it qualifies for reuse.

- *Dimensional metrology*, **TRIMEK** develops a module that measures manufacturing scrap pieces to see if other manufacturing SMEs or midcaps can reuse them.
- Recycling and revamping, surgical tools provider **CROMA** checks the instruments used after each surgery following SOPs (Standardized Operation Procedures).



2: Assisted workforce management

Manufacturing workforce management towards the use of human-centred AI-based digital assistance solutions to onboard and integrate new workers facing different job experience, education, ethnic, social and demographic background, and language issues. This use case aims to **increase agility** by rapidly **upskilling the workforce** of the organisation.

- **EPISCAN** enhances the integration and participation of workers such as foreign employees.



3: Assisted QA for sustainable products

Augmentation of product quality testing to increase product and worker safety, carbon footprint, and workers' cognitive skills and reduce the burden of repetitive, error-prone, and knowledge-intensive activities. Assisted quality assurance for sustainable products.

- **REINOVA** -> new facility for *battery testing* already equipped with the most advanced technologies for digital twin and safety standards, with
- **TRIMEK** -> an assistance solution to increase the quality of the work performed during the use of the *Coordinate Measuring Machine*
- **EPISCAN** -> assistance to workers for *quality checks and material testing*
- **KlisBio** -> *prosthetics quality testing purposes.*





04.

Open calls

Open Calls

- Aim to support AI-based digital assistance experiments involving SMEs from the broad manufacturing sector.
- Both open calls will include experiments that develop modules, providing digital assistance solutions for SMEs. Experiments will be able to use the WASABI core infrastructure to create the specific solutions for their user stories.
- **Final objective:** to have a diverse portfolio of solutions (and in particular assistant skills) that SMEs and mid-caps can access and choose from to offer the best support to their workers and most efficiently incorporate AI-based digital assistance in their daily processes.

2
Open Calls

20 experiments

125.000€/experiment

1st Open Call

- Tentative launch date: 20th of May
- **Open Call Deadline: 9th of September, 17:00 CET**
- **Total Budget:** € 1.250.000,00
- **Experiment duration:** 12 Months
- Consortium: DIH + SME or DIH + 2 SMEs.
- **AI-based assistance for their processes or products.** The proposers' consortiums will **develop** their **WASABI solution** as well as **participate** in the **WASABI's ecosystem**
- **Maximum amount of financial support per proposal** 125.000 €
- **DIH should be included in the European DIH map**

Up to 10
experiments

125.000€/experim
ent

1st Open Call

WASABI OC1 is looking for experiments that would like to **enhance and improve manufacturing processes or products using AI-based voice assistance**

Aim to address advanced functionalities on the implementation of digital assistance solutions, such us:

- Human machine interface for complex processes
- Agile on boarding of new employees in complex manufacturing systems
- Conversation AI facilitating data access in different thematic areas
- Conversation guided maintenance operations



Contact us!!

Wasabiproject.eu

- smaza@innovalia.org
- info@wasabiproject.eu



WASABI

THANK YOU!



Co-funded by the Horizon Europe programme
of the European Union under Grant Agreement
N° 101092176