

ONE4ALL PROJECT

PERIODIC UPDATE ON OUR ACTIVITIES

Progress Update on Digital Twin in the INO and MOL Use Cases

In the latest press release ([March 2026](#)), we presented two update videos on the project's [YouTube channel](#), showcasing the robotic system installed by [Innobotics](#) at [Madama Oliva](#) and demonstrates a complete automated workflow.

Since then, further progress has moved forward with the development of Digital Twin solutions for [Innoglobal](#) (INNO case) and [Madama Oliva](#) (MOL case). Both cases aim to support better decision-making by helping companies simulate, understand and improve their production processes.

In the **INNO case**, the team has developed a data-driven Digital Twin that brings together production, machine and energy data. This makes it possible to better understand how the system works, how equipment behaves and where time and energy are used across the production process.

The current model already focuses on two key aspects: **production time** and **energy consumption**. Once validated, it will help compare different operating conditions and support smarter decisions on how to improve efficiency, reduce energy use and optimise production performance.

In the **MOL case**, the Digital Twin has been built using expert knowledge and available production information. The model represents the main stages of the production line – from raw olive arrival to sorting, packaging and end-of-line operations – and already includes **26 machines**.

This allows MOL to simulate different scenarios, such as changes in demand, machine downtime or capacity adjustments. The model provides useful indicators on **throughput, energy consumption, machine uptime and reliability**, helping identify possible improvements before applying them in the real production environment.

Together, the INNO and MOL cases show how Digital Twins can move from concept to practical use. By combining data, simulation and industrial expertise, these tools can support more efficient, resilient and sustainable manufacturing.

🔔 Stay tuned for the next updates on development progress with the upcoming focus on [ONE4ALL website](#) and social media.

Advancing Scientific Dissemination

As ONE4ALL enters its final year, **scientific dissemination** remains a key priority to strengthen the project's impact across both research and industrial communities. Universities and research partners are contributing strongly to this effort, turning the knowledge developed within the project into valuable scientific outputs.

The newly **publication of scientific articles** are now available on the [ONE4ALL website](#) and within the [project's Zenodo community](#). They offer fresh insights into the technologies and methods developed within ONE4ALL and further highlight the project's contribution to smarter, more flexible and sustainable manufacturing.

Are you curious to discover more about:

- **modular validation approach** for Digital Twins?
- advances and trends in the use of **Digital Twins for Decision Support**?
- new extensions for **Stochastic Petri Nets (SPNs)** for modelling and analysing complex systems across multiple dimensions?
- how the implementation process and employee training influence the **acceptance of collaborative robotics** in SMEs?

Discover with us the latest publications and visit the ONE4ALL Zenodo community to access and download the research: <https://one4allproject.eu/>

Want to know more about the project?

More details on the project activities, results, consortium are available on the official website: <https://one4allproject.eu/>

To remain updated, follow ONE4ALL social medias: [LinkedIn](#) , [X](#) and [YouTube](#)