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Newsletter #2

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Advancing Digital Industrial Symbiosis across Europe

www.symbiotech-project.eu

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From Progress to Implementation

Following a strong first year focused on research, stakeholder engagement, and needs mapping, the SymbioTech project has now entered a new phase: **turning insights into concrete educational and digital solutions**.

Building on validated results from workshops and surveys across partner countries, the consortium is now progressing with:

- the development and finalisation of the **curriculum materials**;
- the development of key digital tools supporting Digital Industrial Symbiosis (DIS) - the **SymbioTech Collaborative AI Platform** and the **SymbioEnergy Tool**.

Completion of the SymbioTech Curriculum Syllabus

A major milestone achieved during this period is the **completion of Deliverable D3.1 Training modules for HEI and VET students**, marking a critical step toward building a new generation of professionals in circular economy and digital transformation.

The curriculum includes:

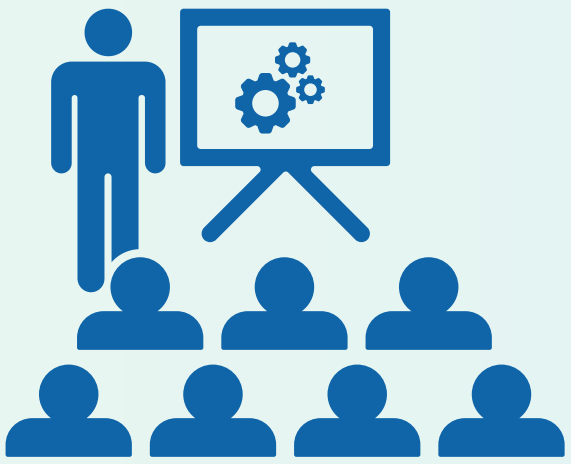
- 7 training modules for Higher Education (EQF6)
- 7 training modules for VET (EQF5)

Each module is designed based on:

- real needs identified through stakeholder workshops and surveys;
- practical industrial symbiosis use cases;
- integration of digital technologies such as AI and data-driven tools.

The syllabus provides the foundation for future training materials, including:

- case studies;
- gamified learning activities;
- toolkits and assignments;
- digital learning resources.



This ensures that the training is not only theoretical, but **highly practical and applicable across sectors and regions**.

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Inside the Curriculum:
Training Modules & Next Steps

With the completion of the curriculum syllabus (D3.1), the **SymbioTech training programme** is now structured around 7 core modules, designed to equip learners with the knowledge and skills needed to implement Digital Industrial Symbiosis in real-world contexts.

Our modules:

- **Module 1:** The Industrial Symbiosis (IS) Framework
- **Module 2:** Life Cycle Assessment Principles for assessing the environmental benefits and drawbacks of sharing resources
- **Module 3:** Interorganisational relations
- **Module 4:** AI and machine-learning to predict material flows and optimise supply chain/process
- **Module 5:** Blockchain technologies to create transparent and secure tracking and certification systems for material and energy flows
- **Module 6:** Symbiotic energy efficiency / management technologies and models
- **Module 7:** Environmental Management Systems (EMS)

Following the completion of the syllabus, the project is now moving into the next phase: **the development of comprehensive training materials (D3.2)**.

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Development of the SymbioTech Digital Tools

SymbioTech Collaborative AI Platform

Work has officially started on the **SymbioTech AI-assisted Collaborative Platform**, one of the project's core innovations.

The platform will:

- analyse industrial data (materials, waste, energy, logistics);
- identify synergies between companies;
- provide data-driven insights for circular business models.

It will also serve as a **central hub** for training materials and collaboration, supporting informed decision-making across industrial networks.

SymbioEnergy Tool

In parallel, development has begun on the **SymbioEnergy Tool**, focusing on energy optimisation within industrial symbiosis.

The tool will:

- simulate energy flows and balances;
- identify optimisation opportunities;
- provide cost-benefit and investment analyses.

By enabling better energy management and planning, it will support companies in improving both **efficiency and sustainability performance**.

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Stakeholder Engagement Continues

Stakeholder engagement remains a core pillar of SymbioTech, ensuring that all outputs are grounded in real needs and practical realities.

Building on the first phase (over **395 stakeholders engaged** and **22 workshops organised**), partners continue to:

- validate curriculum content;
- test early concepts of digital tools;
- strengthen collaboration between academia, SMEs, and policymakers.

The **Knowledge Committees**, established in all partner countries, continue to play a key role as:

- platforms for dialogue;
- sources of feedback;
- bridges between education and industry.

Their input directly supports the **co-creation of training and digital solutions**, ensuring relevance and long-term impact.

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Looking Ahead

The next phase will focus on developing the **SymbioTech Manager training materials** for EQF5 and EQF6 levels, the SymbioTech **AI Collaborative Platform**, the **SymbioEnergy tool**, **piloting**, and more.

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