

Participant Information Sheet – Online Survey (WP2)

4SiM – Scalable SocioTechnical System Simulation in Manufacturing (Erasmus+)

Project Overview

In the Erasmus+ project 4SiM (Scalable Socio-Technical System Simulation in Manufacturing) we are building a novel simulation learning environment combining traditional and generative AI based simulation approaches. The learning environment will be used to educate current and future manufacturing workforce on topics such as safety, Lean Production, human factors and HSEQ management.

A simple illustration of a generative AI-enhanced case study can be found at <https://app.lessonlab.org/?c/ed/university-of-oulu/ionwave/index=&group=FINMXU>. In 4SiM we aim much higher than this; to combine these AI agents with the technical part of the socio-technical environment, i.e. simulate the whole manufacturing system: both the machines and the people. The simulation will be based on carefully engineered requirements and will be validated with key stakeholders.

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Why Are We Conducting This Survey?

This online survey aims to gather general feedback on current and future training needs in the manufacturing sector. Your responses will help us:

- Identify key skills required in modern manufacturing
- Understand current training limitations
- Prioritize future training needs
- Shape the AI-driven simulation content within the 4SiM platform



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Participation

Eligible participants include:

- Quality managers
- Safety engineers
- Production supervisors
- HSEQ officers
- Manufacturing engineers
- Manufacturing Operators
- University educators in relevant fields

Participation is voluntary, and you may stop the survey at any time. There is no remuneration for taking part. At the start of the survey, you will be shown the consent page. Only if you agree will you be directed to the questionnaire. The questionnaire will be adapted depending on your profile (industry professional or educator), ensuring that the questions are relevant to your experience.

We would be glad if you could participate in the survey. Share your experience and help us build learning solutions that reflect realworld needs, and better support skill development and career advancement in manufacturing industries.

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Data Collection and Privacy

The survey collects only the information necessary for the project's research goals. This may include: your professional background, your experience with training in your sector, your views on current and future training needs, and your assessment of training gaps and priorities.

No personally identifying information is required. Your identity will not be linked to your survey responses. All data will be stored securely on password-protected systems accessible only to the research team. Results will be analysed and reported in anonymized form, ensuring that no individual participant can be identified in any project deliverables or academic publications.

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Who should I contact if I require further information?

You are welcome to ask the researcher any questions regarding your participation before the survey and at any time afterwards if you have further inquiries:

Principal researcher: Dr. Maria Chiara Leva - mariachiara.leva@tudublin.ie

Thank you for considering to participate in this study!

