SLOG 4.0

Digital and green skills for boosting innovation
and sustainability of the logistics sector

PROJECT AIMS

The project links two frameworks: sustainability/green skills and 4.0 technologies/digital skills within the field of logistics and aims to adapt green and digital skills of students to the requirements of the industry 4.0.

"TO INCREASE THE ADOPTION OF SUSTAINABLE AND DIGITAL PRACTICES IN THE LOGISTICS SECTOR, SECTOR RESPONSIBLE FOR CREATING SUBSTANTIAL COSTS FOR SOCIETY."

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SLog4.0

OUR KICK-OFF MEETING:
the SLog4.0 project has started!

The virtual kick-off meeting of the "Slog4.0 - Sustainable Logistics4.0: Digital and green skills for boosting innovation and sustainability of the logistics sector" with the seven partners from around Europe: Poland, Slovenia, Italy, Turkey, Portugal, and Austria, initiated the project activities to be developed over the next three years.

Despite a slight change of plans (the meeting was initially scheduled to be held in Maribor), the partners showed a strong spirit of cooperation and motivation. The meeting allowed for getting to know each other better and discuss the participant's experiences and views on the liaison between teaching and professional practice as well as the future of education, thus allowing for strengthening the common objectives of the partnership.
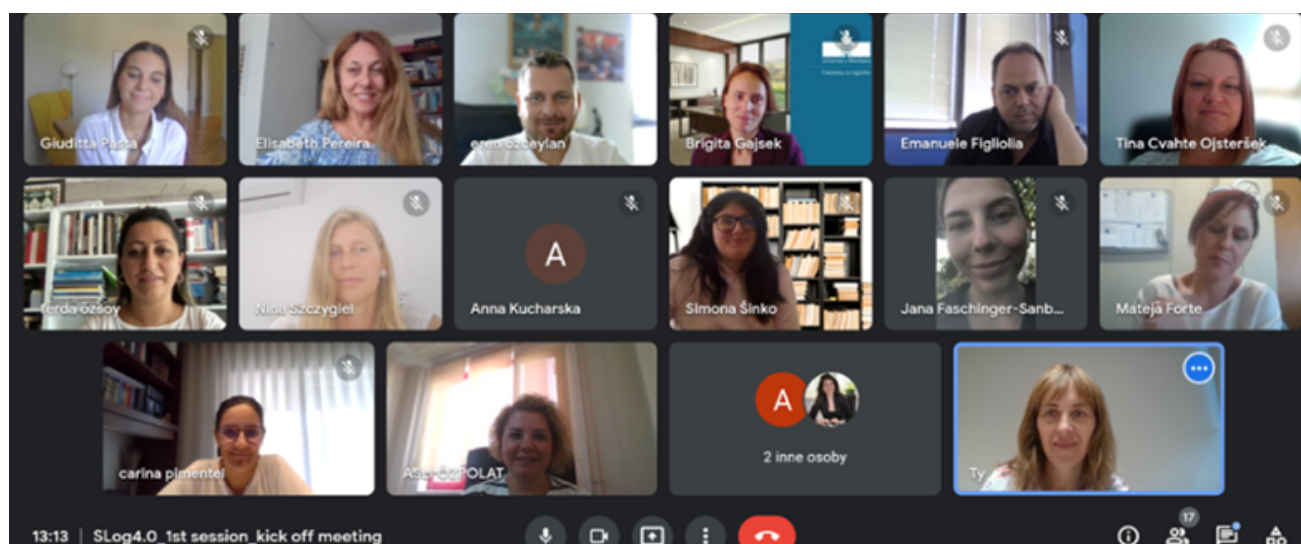

The project aims to enhance the digital capabilities of higher education institutions and promote sustainable and environmentally friendly logistics in response to the changing landscape influenced by the pandemic and climate concerns. In simpler terms, our objective is to contribute to the training of a new breed of professionals for the logistics industry who possess a sustainability-focused mindset aligned with the principles of Industry 4.0.

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DID YOU KNOW...

What are the greenhouse gas emissions in the EU and in Logistics?

Why is the Slog4.0 project relevant? Human actions during the Industrial Revolution have led to the significant release of carbon dioxide and other greenhouse gases into the atmosphere, resulting in climate changes. In the EU, the burning of fossil fuels for electricity and transportation is the main contributor to greenhouse gas emissions. In 2020, the EU emitted a total of 3,708 million tons of CO2 equivalent. The transportation sector specifically accounts for a substantial portion of greenhouse gas emissions in the EU, amounting to 23.2%!
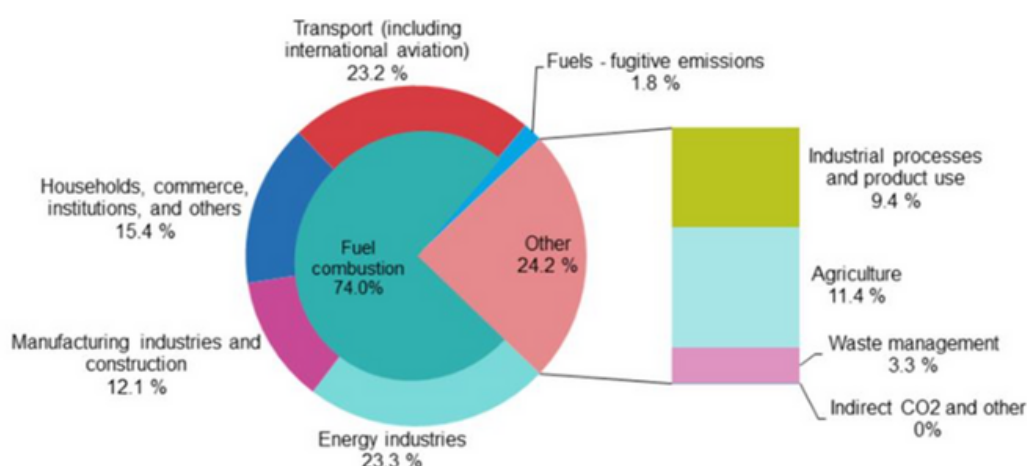
Distribution of CO2 emissions in the EU in 2020 (Source: European Environment Agency)

To address greenhouse gas emissions caused by transportation, it is essential to focus on logistics. The EC has adopted the European Green Deal, which includes strategies to align the EU's climate, energy, transport, and taxation policies with the goal of reducing net greenhouse gas emissions by at least 55% by 2030 compared to 1990 levels. Achieving the goal of becoming a climate-neutral continent by 2050 requires significant changes in the transportation sector, aiming for a 90% reduction in transport-related greenhouse gas emissions. The literature suggests various approaches to reduce carbon emissions in the logistics sector, including working with environmentally friendly suppliers, using eco-friendly transportation methods, optimizing truck and storage space utilization, implementing reuse, and ensuring a qualified and educated workforce in this field.

PRESENTATION ON...

Slog4.0 current developments

The first months of any project tend to be intense, and this has also been the case of the Slog 4.0!

The project partners have been involved in the preliminary activities necessary to carry out the intended Delphi study, that is, collecting data on the actual situation regarding the information on higher education courses in Logistics 4.0 and Sustainable Logistics in the EU countries; identifying the theoretical needs for "greening" and digitalization of the logistics sector; and collecting and analyzing information on good practices in other countries. University partners collected information on how HEI courses in topics related to Logistics 4.0 and Sustainable Logistics are delivered in the EU countries, focusing on methods and topics (20 EU HEI were examined). Moreover, the partners analyzed good practices in non-EU countries referring to training methodologies and practical activities (12 non-EU HEI were examined). The literature review was also completed, and the synthesis of the findings has already been prepared.
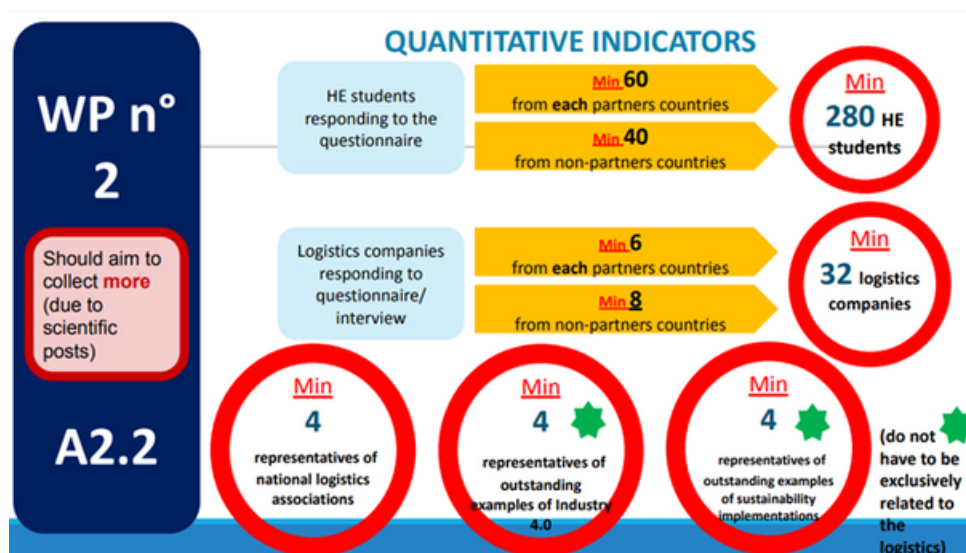
In Slog4.0, we are committed to developing relevant content, which is why we rely on specific and demanding indicators. In short, the project team has started to work on the design principles on which partners will produce the training course and training materials.

WHAT IS SLOG4.0?

Slog4.0 is a European project that aims to promote the uptake of eco-friendly and technologically advanced approaches within the logistics industry, a sector known for generating significant expenses for society, including greenhouse gas emissions and pollutants. For this purpose, it aims to contribute to the formation of a fresh cohort of proficient professionals for the logistics sector, equipped with a sustainability-focused mindset and a comprehensive skill set aligned with the principles of Industry 4.0.

PROJECT INFORMATION

Name: Sustainable Logistics4.0: Digital and green skills for boosting innovation and sustainability of the logistics sector
Number: KA220-HED-B12C4B93
Duration: 36 months
Funding: Erasmus+ Programme of the European Union, call "Cooperation partnerships in higher education"

PROJECT PARTNERS

The consortium includes 4 universities that believe in the need of proposing an innovative training offer in the field of logistic 4.0 by developing a new interdisciplinary curriculum, and 3 companies providing specialized and advanced services, selected upon the expected commitment proven by consolidated previous relations and their acknowledged proficiency.
The partners of the project are:
◆ Poznan University of Technology (Poland) - coordinator
◆ University of Aveiro (Portugal)
◆ University of Gaziantep (Turkey)
◆ University of Maribor (Slovenia)
◆ Valuedo srl (Italy)
◆ ECQA (Austria)
◆ Zerynth srl (Italy)

CONTACT US

◆ Email: .slog4@put.poznan.pl
◆ Web: https://slog4.put.poznan.pl
◆ LinkedIn: https://www.linkedin.com/company/slog4-0/
◆ Facebook: https://www.facebook.com/profile.php?id=100088193735360