



EUROPEAN UNION



State Education
Development Agency
Republic of Latvia



Digital Pedagogy
in the Age of AI

HINTS

Project overview

Dr. Eng. Alin Constantin MURARIU

Scientific Director

National R&D Institute for Welding and Material Testing – ISIM Timisoara

Romania



High INnovative VET for green and digital Transformations

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Dr. Eng. Alin Constantin MURARIU



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START DATE: 01.02.2024

DURATION: 24 MONTHS

END DATE: 31.01.2026

COORDINATOR: NATIONAL R&D INSTITUTE FOR WELDING AND MATERIAL TESTING (**ISIM TIMISOARA**)

PARTNER 1: EUROPEAN FEDERATION FOR WELDING JOINING AND CUTTING (**EFW**)

PARTNER 2: ASOCIACION ESPANOLA DE SOLDADURA Y TECNOLOGIAS DE UNION (**CESOL**)

PARTNER 3: HELIXCONNECT EUROPE S.R.L. (**HELIX**)

PARTNER 4: JAVNA USTANOVA UNIVERZITET CRNE GORE PODGORICA (**UOM**)

PARTNER 5: BEN JMAA NADHEM (**AMTA ACADEMY**)

PARTNER 6: ALEXANDRIA UNIVERSITY (**AU**)

PARTNER 7: UNIVERSITETI POLITEKNIK I TIRANES (**UPT**)

PARTNER 8: JORDAN ENGINEERS ASSOCIATION (**JEA**)

ASSOCIATED PARTNER: MISKOLCI EGYETEM (**ME**)

PROJECT LUMP SUM: 320,000 EUR

Project's Overview

Priorities addressed by the project.

- **Priority 1:** A European Green Deal;
- **Priority 2:** A Europe fit for the digital age.

Topics addressed by the project.

To support partners in the Western Balkans and South-Mediterranean countries for training in green and digital technologies



Why this project now?

- ❑ Industry faces a **twin transition: green + digital**
- ❑ Rapid technology change → skills gaps and curriculum lag
- ❑ Employers need workers who can apply:
 - sustainability principles in daily operations
 - digital tools for efficiency, quality, and traceability

The challenge HINTS addresses

- Training often struggles with:
 - translating emerging needs into teachable competences
 - keeping content **job-relevant** and **practice-oriented**
 - scaling across institutions and countries
- Need for solutions that are:
 - competence-based, modular, adaptable
 - validated by stakeholders

HINTS objectives

- ❑ Identify priority green & digital competences for industry
- ❑ Develop guidelines/curriculum-oriented resources and training materials
- ❑ Provide an IT/online environment to support access and sharing
- ❑ Pilot/validate results with stakeholders and improve based on feedback
- ❑ Disseminate widely to support uptake in the partners countries

Who benefits? (Target groups)

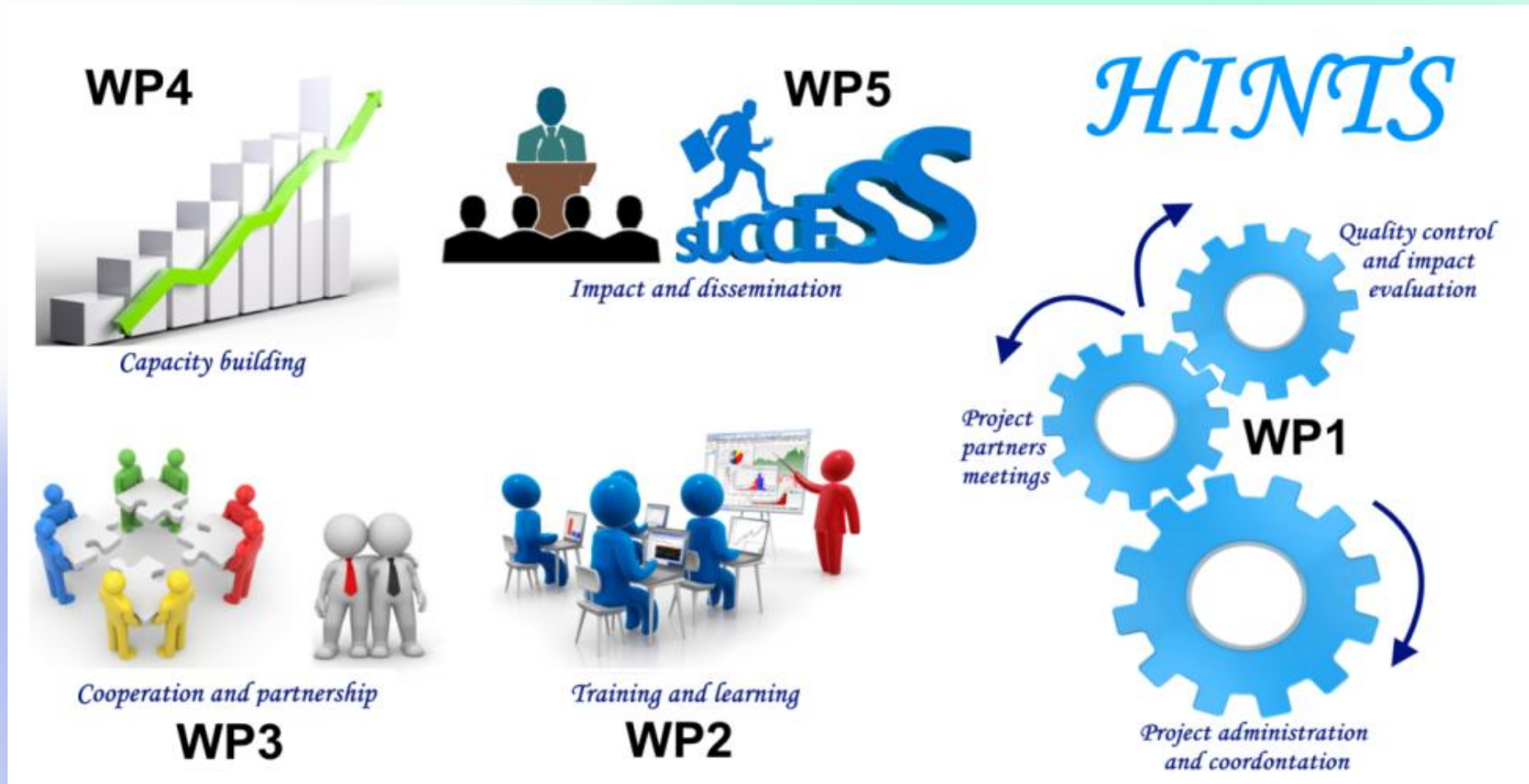
Teachers & VET trainers + learners / students + SMEs employees from WB & SM countries

- ❑ Competence orientation:
 - clear learning outcomes (knowledge/skills/attitudes)
 - alignment with real job tasks
- ❑ Practical learning design:
 - exercises, case examples, problem-solving activities
 - emphasis on “how to apply” not only “what to know”
- ❑ Modular structure for flexible use:
 - short courses, units, or integration into existing programmes

Integrating “green + digital” (design principle)

- ❑ Green and digital treated as interconnected, not separate topics
- ❑ Typical integration logic:
 - digital tools enable sustainability outcomes
 - sustainability goals define what data/tools should optimize
- ❑ Examples of integrated competence areas:
 - resource/energy monitoring and optimisation
 - process efficiency and waste reduction
 - traceability, reporting, and continuous improvement

Project activities



Two curriculum and related educational materials was developed in the frame of HINTS project:

□ **Digital training**

- CUD1: Digital competence
- CUD2: Gamification
- CUD3: Educational Innovation
- CUD4: Digital leaning spaces, systems and AI

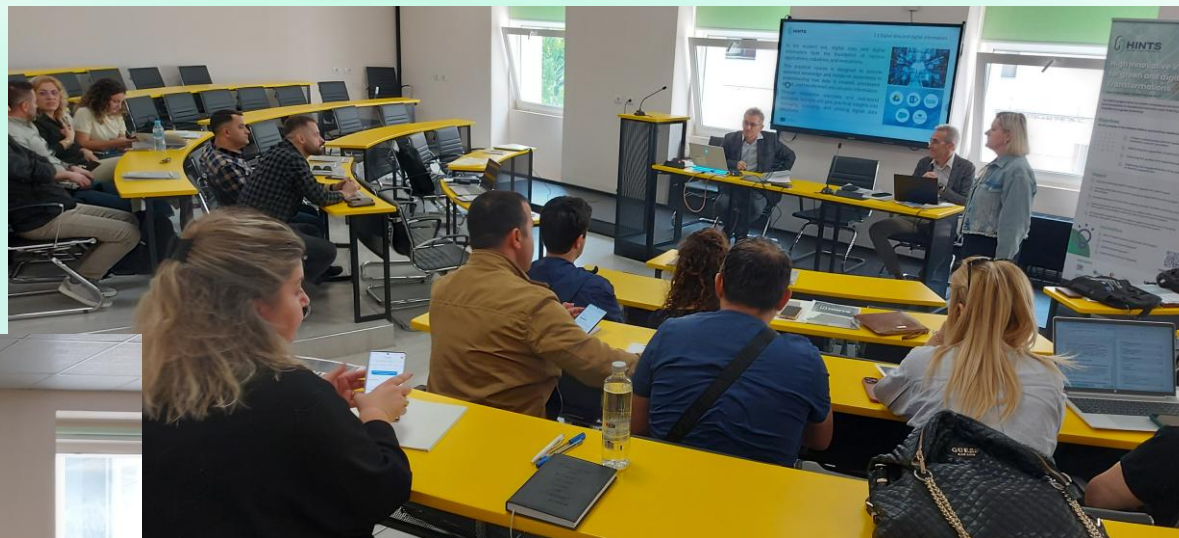
□ **Green and Sustainable Education Course**

- CUG1: Principles in Green Industries
- CUG2: Improving efficiency, productivity, and quality: Use of appropriate technologies and materials
- CUG3: Methods and innovative technologies for the transition to a green industry
- CUG4: Green Education for sustainable practices and lifestyles.

Practical training courses

- Tirana, Albania: 19-23.05.2025

Polytechnic University of Tirana



Practical training courses

- **Podgorica, Montenegro: 30.06 - 04.07.2025 – University of Montenegro**



Practical training courses

- **Alexandria**

Egypt:

31.08 - 04.09.2025

Alexandria University



Practical training courses

- **Sfax, Tunisia:**

22 - 26.09.2025

AMTA Academy

**North-American
Private University**





Practical training courses

- Amman, Jordan:

05 - 09.10.2025

**Jordan Engineers
Association**



Quality and validation

- ❑ **Feedback loop:**
 - collect structured feedback
 - refine content and presentation
 - ensure consistent documentation
- ❑ **Stakeholder input** was used to check:
 - relevance to industry needs
 - clarity and usability for trainers
 - feasibility in different learning contexts

Dissemination in EU partner countries

- ❑ **National dissemination events** implemented in all EU partner countries
- ❑ **Total participation:** 260 people
- ❑ **Events and attendance:**
 - Hungary (Miskolc, 18/09/2025) - 95 participants
 - Portugal (Lisbon, 21/10/2025) - 59 participants
 - Spain (Madrid, 05/11/2025) - 50 participants
 - Romania (Timișoara, 07/11/2025) - 56 participants

Dissemination in WB and SM Countries

- ❑ **Dissemination activities** were also carried out in *Western Balkans (WB)* and *Southern Mediterranean (SM)* partner countries to extend the reach of HINTS beyond the EU.
- ❑ **Main objectives:**
 - present HINTS results to training providers, learners and industry stakeholders
 - strengthen links between education/training and companies (including SMEs)
 - gather feedback to support transferability and local adaptation of resources

What stakeholders valued

- ❑ **High perceived relevance** of the green + digital focus
- ❑ **Appreciation for:**
 - practical orientation and real-world examples
 - clearer pathways from needs → training solutions
 - opportunities for networking between education and industry
- ❑ **Feedback collection** supported continuous improvement and reporting

Impact

- **Learners/workers**
 - Increased readiness for roles shaped by sustainable & digital production
 - Better understanding of how to use digital tools to support sustainability
- **Education & training providers**
 - Faster curriculum updating via structured, modular resources
 - Strengthened links to industry needs and expectations
- **Companies / ecosystems**
 - Improved dialogue with training providers
 - Increased awareness of training approaches supporting the twin transition

Lessons learned

- ❑ **Co-design** with stakeholders improves relevance and adoption
- ❑ **Teach at task level:** integrate green + digital through real workflows
- ❑ **Modular resources** enable scaling and local adaptation
- ❑ **Use existing communities/events** (fairs, networks) for stronger outreach
- ❑ **Measure engagement:** attendance + structured satisfaction feedback matters

Recommendations for other implementers

- ❑ Start with a validated **competence map** and keep it updated
- ❑ Produce **trainer-ready packages** (slides, exercises, assessment ideas, guidance)
- ❑ Pilot early; iterate materials based on real delivery feedback
- ❑ Plan dissemination as an **uptake pathway**:
 - multipliers and sector networks
 - clear “how to adopt” instructions and editable resources
- ❑ Use common KPIs and feedback tools across countries for comparable evidence

Thank you !

Project website: <https://www.hintsproject.eu/>

LinkedIn: <https://www.linkedin.com/company/hints-high-innovative-vet-for-green-and-digital-transformations/posts/?feedView=all>

Project manager: Alin Constantin MURARIU

E-mail: amurariu@isim.ro