Truly happy to be here at the WP.6 Education on standardization initiative (START-Ed) meeting!

Why can EDU4Standards make a difference also in the long run!

Education about standardisation is high on the agenda:

- EU Standardisation Strategy - > HLF
- EU Code of Practice on standardisation, European Standardisation Panel Survey
- US Standardisation Strategy
- National activities, e.g. in Germany, and international activities, e.g. ISO, etc.
- High pressure due to demographic change & many new topics, AI, quantum, & challenges, i.e. climate change

Three prime keywords that will support us in creating impact, IMHO:

- **Branding:** People know us and our reputation;
- **Inclusivity:** Our network speaks for itself and we want to make sure all other education efforts related to standardisation in the EU (projects & partners can be integrated into EDU4Standards or at least be supported);
- **Sustainability:** We are dedicated to the topic since long time including EURAS as a hub, which should allow us to establish a sustainable initiative!

Wish us all a fruitful exchange related to EDU4Standards!
## Consortium Partners

<table>
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<tr>
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Project Organisation

EDU4Standards.eu Organisational Structure

- **Fraunhofer ISI**
  - **PROJECT COORDINATOR**
  - **PMB**
    - Project Management Board
    - Chairperson FhG
    - 2 members per partner incl. WP leaders
  - **EAG**
    - External Advisory Group
    - 15 Renowned experts

- **WP1 FhG (Lead)**
  - T1.1 - FhG
  - T1.2 - DCU
  - T1.3 - SKO

- **WP2 VU (Lead)**
  - T2.1 - UGZ
  - T2.1 - VU
  - T2.3 - UB

- **WP3 TUD (Lead)**
  - T3.1 - UPM
  - T3.2 - UB
  - T3.3 - TUD
  - T3.4 - POLIMI
  - T3.5 - TU/e
  - T3.6 - FhG
  - T3.7 - FRE

- **WP4 Trust-IT (Lead)**
  - T4.1 - TRUST
  - T4.2 - FhG
  - T4.3 - CEN
  - T4.4 - FRE
  - T4.5 - TUB
Project’s structure at a glance

**EDU4Standards.eu - Empowering Standardisation through Education in Europe**

**OBJECTIVES**
- Obj.1: Develop and disseminate teaching material about standardisation
- Obj.2: Increase the visibility via “Academic Standardisation Days” (ASDs)
- Obj.3: Increase the number of HEIs & universities offering teaching on standardisation
- Obj.4: Increase number of teachers offering courses and students attending courses about standardisation
- Obj.5: Set up a Students’ Standardisation Association (SSA)

**Community**
- Standardisation Student Association created
- 100+ HEIs exposed to standard education
- 100+ teachers with standardisation knowledge
- 500+ students educated in pilots
- 1,500+ engaged community members
- EURAS
- External Advisory Group (EAG)

**Innovative Teaching Concept of Standardisation (ITCoS)**

**Student Standardisation Association & Academic Standardisation Days**

**EU & International Synergies**
- > 10 Mutual cooperations with National, European, and Int'l organisations and initiatives
- Continuous engagement and exchanges on all ICT standards topics
- Collaborations with HE Standards projects:

**Outreach**
- 4 Pilot Workshops
- 10 Webinars
- 5 Academic Standardisation Days
- 2 CEN Workshop Agreement Meetings
- 1 Final event
- 12 newsletters

**Reports & other value-add output**
- Whitepapers & Scientific Publications
- Online: Teaching Content
- CEN Workshop Agreement
- Pilot evaluation reports

**SG 1**
HEIs

**SG 2**
Teachers & standards educators

**SG 3**
Students & Student Associations

**SG 4**
Standard Development Organisations

**SG 5**
Policy Makers

**SG 6**
Environmental and consumer organisations

**SG 7**
Research organisations & EU projects

**SG 8**
Industry & SMEs

**SG 9**
Citizens and citizen groups

**Web Platform**
- e. Seasonal university school
- f. Pan-EU EARTO
- g. Distance learning

**Pilots**
- a. B.Sc course
- b. M.Sc course
- c. In-company training
- d. Extra-curricular format
WP 1 Project Management
T 1.1 Technical and administrative coordination
T 1.2 External Advisory Group (EAG) management
T 1.3 Ethics, data management, risk management, and compliance

WP 2 Design teaching concepts in standardisation
T 2.1 Define the intended learning outcomes (ILOs)
T 2.2 Identify & categorise relevant existing content and methods
T 2.3 Produce the innovative teaching concept

WP 3 Implementation
T 3.1 Pilot design
T 3.2 Pilot at university B.Sc level
T 3.3 Pilot at university M.Sc level
T 3.4 Extra-curricular pilots (including Seasonal School at unis.)
T 3.5 Pilot of in-company training
T 3.6 Pan-European EARTO pilot
T 3.7 Evaluation of pilots

WP 4 Communication, Dissemination and Sustainability
T 4.1 Communication, Engagement & Dissemination
T 4.2 Development of a European Workshop Agreement
T 4.3 Student Standard. Association & Academic Standards Days
T 4.4 Exploitation plan and sustainability strategy for Edu4Standards
T 4.5 Policy recommend. & Europ. standard. education roadmap

Milestones
M1 EAG established
M2 Teaching concept completed
M3 Pilot design completed
M4 1st series of St.Days + 1st draft of Tool Kit completed
M5 Pilots evaluated, recomm. f. further impl. formulated
M6 CWA completed
M7 St.Days completed, Student St. Association established
M8 Policy recommendations completed
Edu4Standards.eu’s Stakeholders

EDU4Standards Stakeholder Groups and Engagement

**SG#1: Higher Education Institutes/Universities**
- Active or inactive in standardisation education and teaching e.g. European University Association; European Association of Institutions in Higher Education
- ENGAGE: Identify needs and content. Validate & Uptake results and roadmap recommendations
- CHANNEL: 

**SG#2: Teachers & Standards Educators**
- Current and potential teachers and instructors in different fields: EURAS, SDD Training initiatives by ETSI, CEN-CENELEC, ISO, IEC, NATO, SBS, ITU, IEEE SA, Standard Education AASt; StandICT & HSBooster Training Academies
- ENGAGE: Identify needs and content. Pilot, validate & uptake of teaching concept and materials
- CHANNEL: 

**SG#3: Students & Students Association**
- Students and groups where education can impact positively on learning and qualifications
- ENGAGE: Recruit to EU Student Standardisation Association and pilot engagement
- CHANNEL: 

**SG#4: Standards Development Organisations**
- EU (e.g. ETSI & CENELEC in addition to partner CEN); International (e.g. ISO, IEC, ITU, IEEE, IETF, NIST, W3C, etc.); National Standardisation Bodies
- ENGAGE: Identify needs. Specify teaching content. Contribute to Standards Days
- CHANNEL: 

**SG#5: Policy-Makers**
- European Commission: DG GROW, DG R&I, DG Connect & Multi-Stakeholder Platform, EC High-Level Forum
- ENGAGE: EU Education on standardisation roadmap
- CHANNEL: 

**SG#6: Environmental and consumer organisations**
- GHG Protocol, ECOS, Carbon Trust, Digital Twin consortium, Hubs for Circularity, EU Green Digital Coalition, National consumer organisations e.g. (ACU Italian Association Consumers and Users) & Consumers’ Association of Ireland
- ENGAGE: Understand impact of standardisation & education. Educate on standardisation roadmap
- CHANNEL: 

**SG#7: Research organisations and EU projects**
- Organisations requiring researchers to be better equipped to contribute to standardisation. EU projects addressing standardisation and education e.g. StandICT, HSBooster.eu, Stand4EU and projects funded through HORIZON-CL4-2023-HUMAN-01-6
- ENGAGE: Participate at events, validate and use training material, create synergies
- CHANNEL: 

**SG#8: Industry, SMEs and Start-Ups and related Associations: Vertical sector coverage**
- Large enterprise, SMEs and Start-Up Associations with vertical sector coverage
- ENGAGE: Identify needs. Introduce standardisation into training programmes
- CHANNEL: 

**SG#9: Citizens and citizen groups**
- Citizens and citizen ICT & interest groups: Digital Citizenship Education, Digital SkillUp, ySKILLS, Digital skills and Jobs Coalition
- ENGAGE: Understand importance of standardisation in education
- CHANNEL: 

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Targeted Impacts

Impact #1: Higher visibility of standardisation knowledge in curricula and courses by 11 HEI with standards teaching teamed up with 100 other HEI supported by CEN

Impact #2: >200 teachers having standardisation knowledge by the end of the project, CWA provides further support.

Impact #3: More students gaining standardization knowledge – short/medium term: >200 students and professionals are educated by the pilots, long term: Europe’s industry has additional 5,000 standards experts p. a. by 2027 (50 in 100 HEI).

Impact #4: More standardisation knowledge available for new teaching content attracting more students details based on KPI table: >#200 courses, #5 modules on standards and green transitions, #5 modules on standards and digital transition, CWA
Member of EAG
Feedback to Innovative Teaching Concept of Standardisation ITCoS
Contribution to reach the impacts, higher visibility of EDU4Standards
Contribution to reach KPIs,
  - participation in webinars to represent stakeholders’ perspectives and needs
  - participation in events
  - promotion via Social Media, e.g. LinkedIn group
  - links to relevant organisations and stakeholders
Further ideas?