

# Building the HSbooster.eu Standardisation Training Academy

Experiences and lessons learned  
from Standardisation Training in Europe

**27<sup>th</sup> September 2022**

11:00–13:00 CEST

**Online Workshop**



Funded by  
the European Union



# European Standardisation Booster

- **Duration: 24 Months**
- **Start Date: 1 April 2022**
- **End Date: 31 March 2024**
- **Goals:**
  - Provide expert services to European projects to help them to increase and valorise project results by contributing to the creation or revision of standards.
  - Facilitate and streamline the dialogue between Horizon 2020 and Horizon Europe Research & Innovation projects with the Standardisation landscape and its main actors, namely corresponding Standards Developing Organisations (SDOs) to increase the European impact on (international) Standardisation and strengthen the European competitiveness.
  - Raise strategic awareness and build expertise and skills in standardisation



- Project Coordinator
- COMMpla Platform manager



- Automated services management



- EAG management
- Open calls and EPE management



- Training academy management



- Proactive services management



- Premium services management



**HSbooster.eu**

Horizon Standardisation Booster

# First OPEN Call for EU Funded Projects

Deadline to submit applications > 30th September 2022

## Sustainable Digitalisation



- › Data quality & Artificial Intelligence
- › Access to & usage of data
- › Space
- › Data and cybersecurity
- › Quantum technology

## Health



- › Pandemics
- › E-Health & personalized services
- › Design & use of medical devices
- › AI in Healthcare

## EU Green Transition



- › Clean energy
- › Materials (raw and secondary)
- › Green & sustainable production
- › Environmental impact

## Resilience



- › Robust supply chains
- › Climate resilience
- › Hybrid civil/defence

## Smart City & Circular Economy



- › Circular economy
- › Transportation
- › Infrastructure

The main Open Call priorities reflect the urgencies included in the “*EU Strategy on Standardisation*”  
Besides, the EC Scoping Study identifies key areas in which HSbooster.eu can make a practical and tangible difference to projects.  
Booster services should meet needs of ESOs, national bodies and International SDOs



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# External Advisory Group

Backed and supported by experts with complimentary expertise and roles

- Vertical sectors
- Technologies
- Standardisation
- Advisory roles
- Market needs
- Innovation



**Ray Walshe**  
Assistant Professor & EAG Chair  
DCU

Chair – Ray Walshe,  
Dublin City University



**Emilia Tantar**  
Chief Data and Artificial Intelligence Officer  
Blar & Swin



**Emilie Bratt**  
Lead Standards Development Manager  
British Standards Institution (BSI)



**Grit Munk**  
Chief Consultant at Danish Society of Engineers  
The Danish Society of Engineers (IDA)



**Knut Blind**  
Professor for Innovation Economics  
Fraunhofer IPA



**Lindsay Frost**  
Chief Standardisation Engineer  
NEC Laboratories Europe



**Maitane Olabarria**  
Secretary General  
Small Business Standards (SBS)



**Martin Chapman**  
Director for Technical Policy & Standards  
DIGITAL DROPE



**Pamela Hussey**  
Senior Lecturer  
School of Nursing and Human Sciences, DCU



**Pernille Hagedorn**  
Chief Consultant  
The Danish Society of Engineers (IDA)



**Sebastian Hallensleben**  
Head of Digitalisation and AI  
VDI



**Speranta Stomff**  
Head Of Project Management Office  
ASRO (Romanian Standards Association)



**Valerie Livina**  
Principal Research Scientist  
National Physical Laboratory (NPL)



EAG provides high-level strategic guidance and provides expert input into standardisation urgencies for open calls



**HSbooster.eu**

Horizon Standardisation Booster

# **OPEN CALL** for Standardisation Experts

Supporting Horizon Europe  
and H2020 projects address  
Standardisation priorities in Europe

**Join our pool of experts**



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# Some Key points addressed in the Workshop

- What is the biggest challenge facing current training and education programmes offered at the European level?
- How can the Training Academy best engage with the research community?
- What is the biggest challenge facing the SME Community in current standards training and education programmes offered at the European level?
- How can we better valorise R&I results by standardisation?
- What are the skills that the TA can provide? And how can it best engage with the Research community?
- And more!

HSbooster.eu major Goal – Set up a **full-fledged Training Academy** to address Standardisation needs and educational material for a wide range of participants (beginners, intermediate and advanced level)

This workshop gathers academia, Standardisation professionals, and experts to discuss their experiences and lesson learned in Standardisation training.

# Building the HSbooster.eu Standardisation Training Academy

11:00 – 13:00 CEST

## Moderator



### **Francesco Osimanti**

Project Manager at Trust-IT Services, HSbooster.eu Deputy Coordinator

- 11:00 - Framing the workshop and its scope

## Keynote Speakers



### **Gergely Tardos**

Policy Officer at Directorate General for Research and Innovation of European Commission

- 11:10 - The missing parts of the standardisation puzzle – What we learned from the EC's Scoping Study for the Code of Practice on Standardisation



### **Ivana Mijatovic**

Faculty of organizational Sciences at University of Belgrade

- 11:20 - The HSbooster.eu Standardisation Training Academy

## 1<sup>st</sup> - Roundtable discussion

“How to serve the SMEs community, the StandICT.eu EUOS Standards Academy, valorisation of R&I results on Standardisation”

### Panellists



**Ray Walshe**

Professor at Dublin City University (**CHAIR**)



**Marija Jankovic**

Postdoctoral Research Associate  
at Information Technologies  
Institute of CERTH



**Ivana Mijatovic**

Faculty of organizational  
Sciences at University of  
Belgrade



**Brian McAuliffe**

Director of Technology  
Standards at HP



**Maitane Olabarria**

Secretary General at Small  
Business Standards



## 2<sup>nd</sup> -Roundtable discussion “Current Training and Educational Programmes”

### Panellists



**Pernille Arendsdorf Bengtsen**

Project Manager at Dansk  
Standard (**CHAIR**)



**Daniel Masso Aguado**

Head of Knowledge and  
Agenda 2030 at UNE



**Hermann Behrens**

Head of Science and Research  
Relations at DIN



**David Boswarthick**

Director of New technologies  
(NET) at ETSI



**Ashok Ganesh**


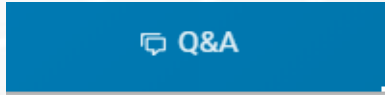
Director Market Perspectives  
& Innovation at CEN CENELEC



**Daniele Gerundino**

Member of the board of the Italian  
Study Center on Standardization (UNI)

# Housekeeping

- This event is being recorded in its entirety. A link to the full recordings will be shared with participants afterwards
- All presentations will be available at the HSbooster.eu website straight after the webinar
- Please **don't activate your microphone and videos unless the host gives you permission**
- **Please do ask questions.** Use the   for any questions. Indicate which speaker you are putting the question to and we'll also try to answer things directly in the chat.
- If you do not see the buttons at the bottom of the Zoom window, move the mouse on that window and buttons will appear
- If you experience bad quality in audio, try switching off your video (webcam button at the bottom of your Zoom screen)

# Help us ensure the Standardisation Booster creates the right impact for your communities!

## ***Promote to Projects***

- Receive expert strategic advice on planning activities
- Gain expertise to enable making effective and timely contributions
- Create greater impact and valorise results

## ***Promote to Standardisation experts, ESOs, NSBs, SDOs***

- Facilitate R&I contributions to standardisation
- Enable recognition of R&I contributions

# Thank you

- [www.hsbooster.eu](http://www.hsbooster.eu)
- [@HSboosterEU](https://twitter.com/HSboosterEU)
- [IN/company/HSbooster.eu](https://www.linkedin.com/company/HSbooster.eu)
- [info@hsbooster.eu](mailto:info@hsbooster.eu)



# Code of practice on standardisation for researchers

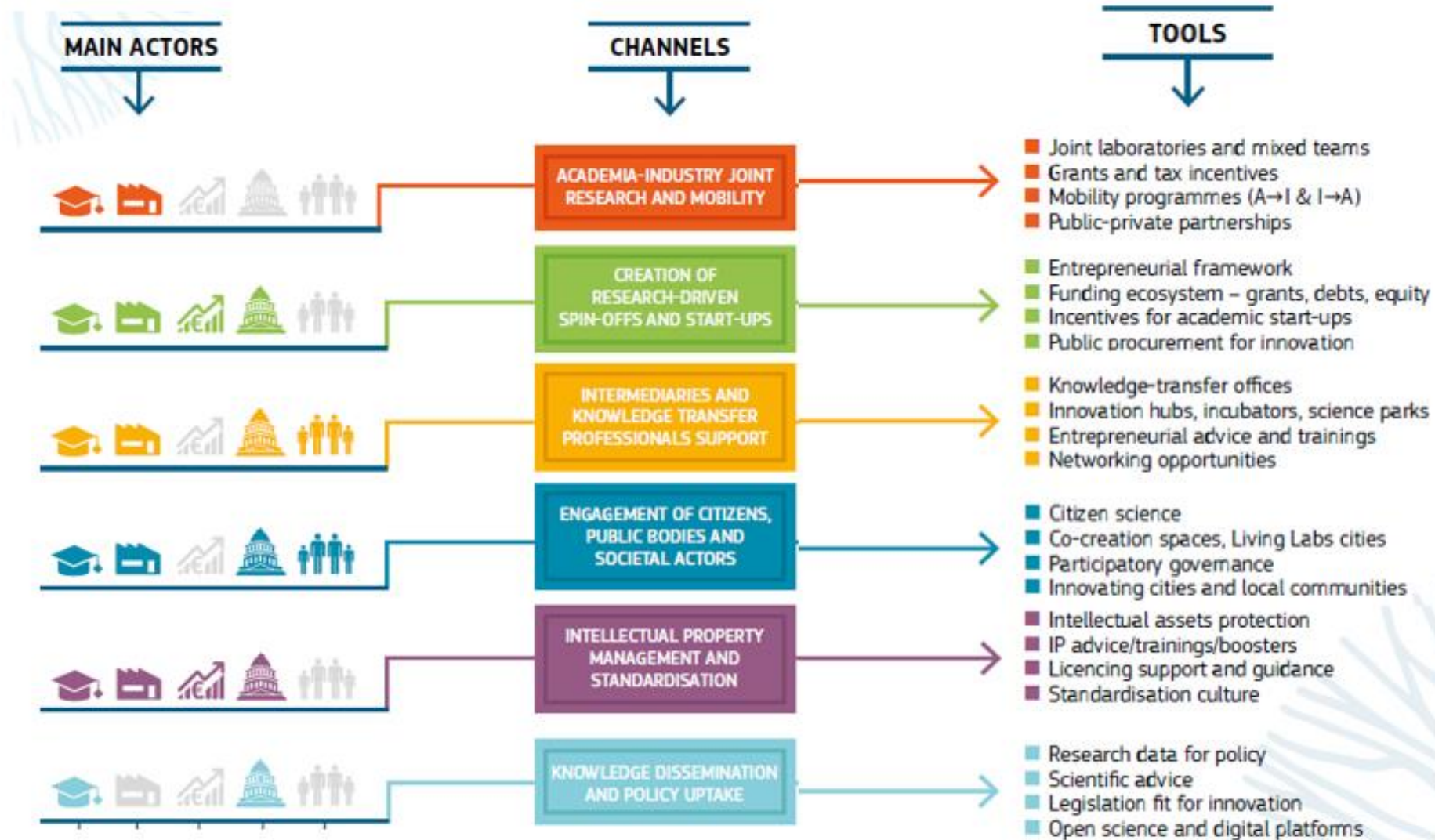
**Building the Hsbooster.eu –  
Standardisation Training Academy  
27 September 2022**

Gergely Tardos

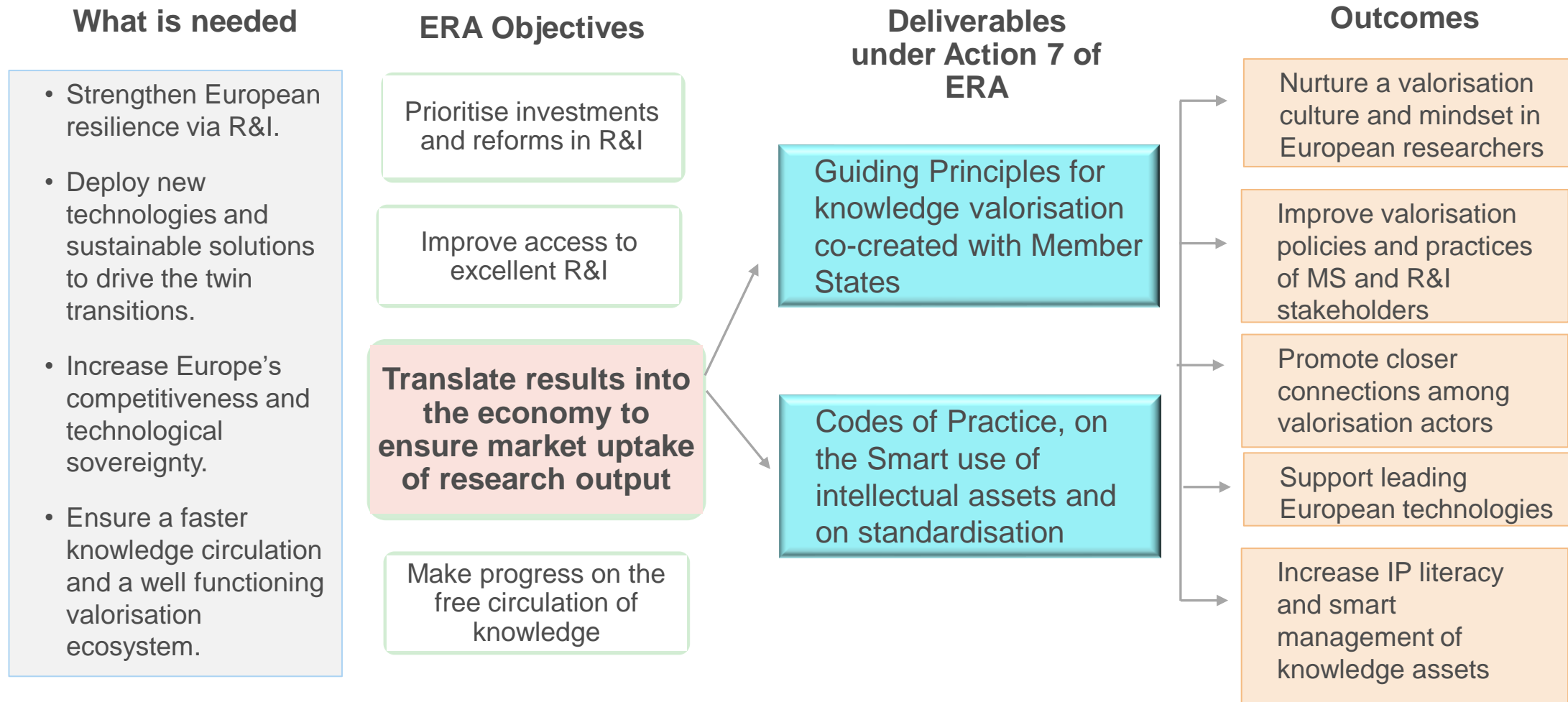
Unit E.2 – Valorisation Policies & IPR  
DG Research & Innovation

European Commission

# Mapping valorisation actors, channels and tools



# Knowledge Valorisation in ERA



# Standardisation Strategy – the key actions

## No alignment with political priorities

- Enhance Annual WP to reflect standardisation urgencies
- High-Level Forum to assist in prioritisation
- Review of all harmonised European standards against contribution to zero-emission economy and Europe's Digital Decade
- EU excellence hub and Chief Standardisation Officer

## Good governance concerns

- Proposal for amendment → introducing good governance principles for ESOs
- Call to ESOs to modernise their governance
- Announce the Evaluation of Regulation 1025/2012
- MS peer review process on SME-friendly conditions

## Geopolitics of standards

- Coordination of EU MS/NSB positions
- International standards for a free, open and secure global internet
- EU funding (Horizon, NICI), pilots in African countries and EU Neighbourhood
- Continuation of concerted actions with like-minded partners (TTC, Japan)

## Unexploited potential of pre-normative work

- Code of Practice for researchers
- Standardisation Booster

## Lack of experts

- Targeted actions on education and skills:
  - Horizon Europe/COST
  - EU Academy Platform/e-learning material
  - Standardisation University Days



# Objective of the code of practice on standardisation

Supporting our stakeholders to valorise their R&I results through standardisation by

- Contributing to the synchronisation and systemic integration of R&I and standardisation
- By providing guidance to researchers and innovators

# Process

- Survey with beneficiaries – May-June 2021
- Scoping study – June 2021-March 2022
- Workshop with practitioners – December 2021
- Publication of the first draft – 19 May 2022
- Stakeholder consultation – May – June 2022
- Expected publication of the code by Q4 2022

Matrix Group  
on  
Standardisation

COM (JRC,  
GROW, CNECT,  
REA, HADEA,  
EISMEA)

CEN-CENELEC

Practitioners

Member States

<https://op.europa.eu/en/publication-detail/-/publication/94a9bba7-a43b-11ec-83e1-01aa75ed71a1/language-en/format-PDF/source-253037686>

# Success factors at individual level

## Success factors at individual / organisation-specific level

### Personal competencies & expertise

- Domain knowledge
- Social competencies
- Business skills
- Being able to keep things secret, being able to take decisions
- Linguistic skills
- Persistence

### Existence of strategic alliances

- Facilitates assertion of interests
- Networking skills

### Selection of the “right” committee

- Know-how/technology for a committee
- Particularly relevant for SMEs

# Success factors for overall standardisation

## Success factors at macro level

### Thematic fit of participants

- Thematic complementarities and synergies
- High degree of individual domain expertise

### Practical relevance of the project

- Standard fills a gap and meets a need

### Involvement of an industry partner

- Facilitates bringing other partners into the project
- Increases likelihood that the standard is later taken up in practice

### Previous experience with standardisation work

- Informal links in committees may lead to future projects
- Understanding of how standardisation processes work increases efficiency and effectiveness

### Existence of a “driving” force

- “Light towers” who motivate others to participate and increase the likelihood of success
- More intense contribution results from own interest in the standard (relevance, urgency)

### “Right” timing

- Depending on driver and technology choosing the right timing for initiating standardisation activities

# Indicators

- At output / outcome level:
  - standardisation maps created, and gaps assessed;
  - CEN New Work Item Proposals,
  - New working groups established,
  - Voting behaviour;
  - technical reports suggesting improvements of / new standards
- At impact level:
  - Use of the standard by industry;
  - hard fact result

# Recommendations

Based on the lessons learnt and success factors from examples of Horizon 2020 projects

At the level of higher  
education institutions  
and research  
Innovation and  
Technology  
organisations

At project level

At policy and  
stakeholder level

Inclusiveness – all types of projects with a wide range of TRLs

# Next steps

- **Finalise** the draft code of practice
- Prepare for **adoption and publication** by end of the year
- **Disseminate** the codes of practice and **raise awareness** about their content
  - Launch awareness raising campaign on Guiding Principles and on codes of practice (2023)

**Code of Practice on standardisation for researchers**  
Accompanying the Action 7 on European Guiding Principles for knowledge valorisation of the Communication of the Commission on a new ERA for Research and Innovation  
Draft of 14 September 2022

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2

Draft v.7

**Code of Practice for the smart use of intellectual assets**  
Accompanying Action 7 on the European Guiding Principles for knowledge valorisation of the European Commission Communication on a new ERA for Research and Innovation  
*Draft*

Draft v.7

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Should you have any question, please contact at:  
[Gergely.Tardos@ec.europa.eu](mailto:Gergely.Tardos@ec.europa.eu)







**HSbooster.eu**  
Horizon Standardisation Booster

# Building the HSbooster.eu Standardisation Training Academy

*Experiences and lessons learned from Standardisation  
Training in Europe*

11:00 13:00 CEST - 27th September 2022 | Online  
Workshop

Ivana Mijatovic

University of Belgrade,  
Faculty of organizational sciences



The HSbooster.eu has received funding from the European Union's Horizon Europe Framework Programme (HORIZON) - under grant agreement no 101058391.

HSbooster.eu STA will provide an efficient mechanism for training – knowledge, expertise and skills.

The HSbooster.eu STA main activities:

- Training packages: 2 for beginners, 2 for intermediate users, and 2 for advanced users.
- Developing a network of standardisation experts, professionals and researchers
- Support to services - training for proactive and premium service applicant.
- Training webinars.

## Target audience: Researchers

### Target group general characteristics

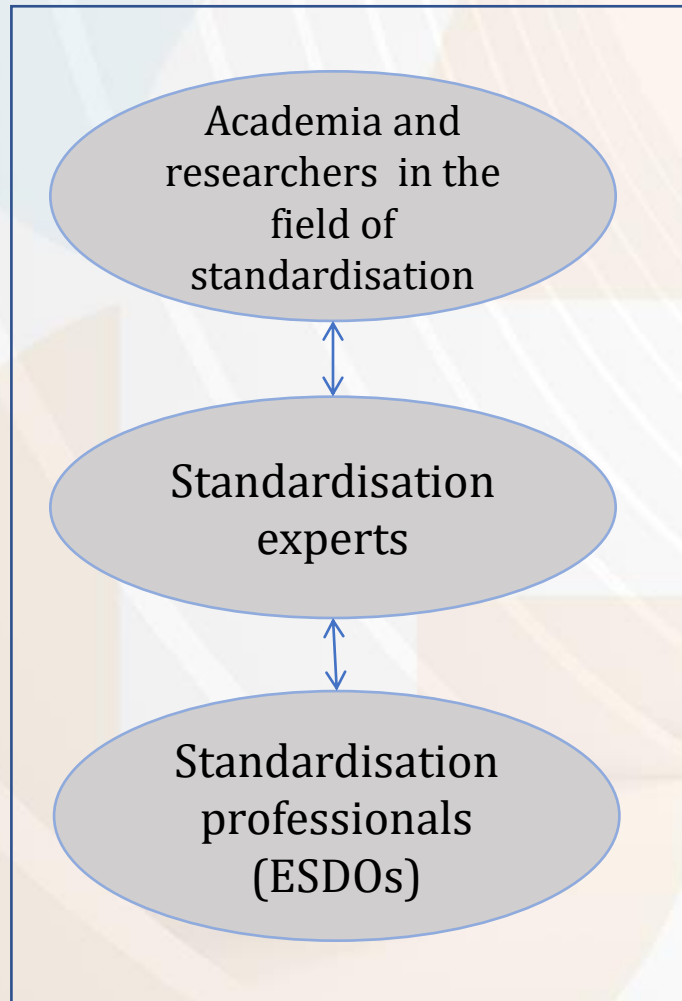
- impartial
- analytic view
- critical thinking (so what?)
- transmission of their research results (message) through research papers (IF, H index, I index)
- focus on research
- they learn from research

### How to train researchers?

The content analysis of interviews with 21 researchers (random sample) suggests:

- They need a broader understanding of standardisation (influence on affective factors – attitudes, motivation or values)
- Used to the academic style of communication.
- Motivation might be a problem. How can that help me? What for?
- Lack of time for advancing in something other than their core research area
- Interested in expanding their network (for future project submissions)

## Methodology : Placing “why” before “how”



- **Academic focus on research: focus on empirical studies and objective evidence.**
- **Generation of new knowledge about standardisation.**



**Focused on a very narrow specialisation (large number of specialisation).**

**A huge amount of material – need for orientation.**

Representatives of standards users in standardisation

Liaison organisations

A critical success factor is a concerted effort of standardisation professionals, experts and researchers.

Focus: Experience  
(standardisation experts) – interviews

Focus: Practice  
(SDOs, standardisation professionals)



Focus: Content  
(academia + SDOs)  
~ 15 academician

Levels of generality

HSBooster.EU Training packages

Specific context	<p><b>COURSE ADVANCED 1 Experiences of researchers involved in standardization</b></p> <ol style="list-style-type: none"> <li>1. The state of Art in specific areas standardisation</li> <li>2. How to make an impact in standardization</li> </ol>	<p><b>COURSE ADVANCED 2 Standardization experts involved in Critical 'standardisation areas'</b></p> <ol style="list-style-type: none"> <li>1. The state of Art in specific areas standardisation</li> <li>2. How to make an impact in standardization</li> </ol>
General and specific	<p><b>COURSE INTERMEDIATE 1</b></p> <ol style="list-style-type: none"> <li>1. Benefits from participating in standards development</li> <li>2. How to participate in TC of NSB?</li> <li>3. How to address and find the right standard?</li> <li>4. How to participate in developing standards in consortia?</li> <li>5. Standardisation development and setting processes in SDOs</li> </ol>	<p><b>COURSE INTERMEDIATE 2</b></p> <ol style="list-style-type: none"> <li>1. Training in standardisation skills 1 (argumentation and building compromise) simulation game</li> <li>2. Training in standardisation skills 2 (building consensus and strategic positioning) – simulation game</li> <li>3. How to establish a certification scheme?</li> </ol>
General context	<p><b>COURSE BIGINER 1</b></p> <ol style="list-style-type: none"> <li>1. Why do researchers need standards?</li> <li>2. Standardization, standards, and related documents</li> <li>3. Types of standardization</li> <li>4. Classifications of standards</li> <li>5. Users of standards</li> <li>6. Benefits of using standards and participating in the standards development</li> <li>7. Standardization history</li> <li>8. Quality Infrastructure</li> <li>9. Conformity assessment</li> </ol>	<p><b>COURSE BIGINER 2</b></p> <ol style="list-style-type: none"> <li>1. Arena of standardization SDOs</li> <li>2. Voluntary consensus-based standardisation</li> <li>3. European system of standardization</li> <li>4. Consortia based standardization</li> <li>5. Company standardization</li> <li>6. How standards can be referenced in regulative?</li> <li>7. Standardisation, Innovations, IPR</li> </ol>

Learning outcomes based on Blind, K. Drecshler, S. (2017). European Market Needs for Education in Standardisation/Standardisation - related Competence,

To be able to influence processes and outcomes of standardisation	Knowledge	Skills	Experience
To be able to participate in standardisation as observer and participant			
To be able to propose new work items to TC, SC or WG			
To be able to identify specific interests & needs for getting involved in standardisation			
To be able to choose appropriate type of standardisation and select adequate SDOs			
To be able to identify needs for standard application, to search for and select appropriate standards.			
To be able to implement adequate standards in product, process or system.			
To be able to understand SDOs, their cooperations, and their processes			
To be able to understand economical, social and technical impacts of standardisation and standards			
To be able to understand relations between standards and regulations			
To be able to understand history of standardisation			
To be able to understand the basic terms and basics of standardisation			

## Q&A

Training is a planned activity of transferring or modifying knowledge, skills, or attitudes through learning activities.

- What advice do you have for the HSBooster.eu Standardisation Training Academy?
- What skills are essential to researchers in the context of standardisation?
- What is the best way to develop the needed skills?

Thank you

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Faculty of organizational sciences  
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# Thank you for joining

