

# The European Standardisation Booster 31 May 2022 WEBINAR 11:00-12:30 CEST

loannis Sagias European Commission Deputy HoU for valorisation policies and IPR

Nicholas Ferguson HSbooster.eu Project Coordinator & COMMpla Senior Project Manager

Signe Annette Bøgh Project Manager at Dansk Standard

Ray Walshe Chair of HSbooster.eu External Advisory Group & Professor at DCU

Ivana Mijatovic Full Professor at University of Belgrade

José Lucio Gonzàlez

SGS CyberLab Madrid Manager









#### **Horizon Standardisation Booster**

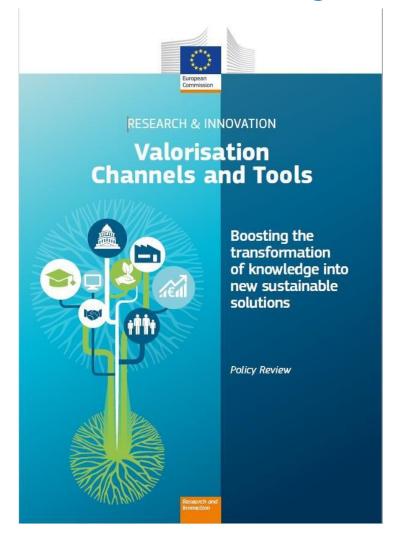
# Standardisation as a mean to valorise research results

Webinar 31 May 2022

Ioannis Sagias

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

# Policy Review: R&I Knowledge Valorisation Channels and Tools

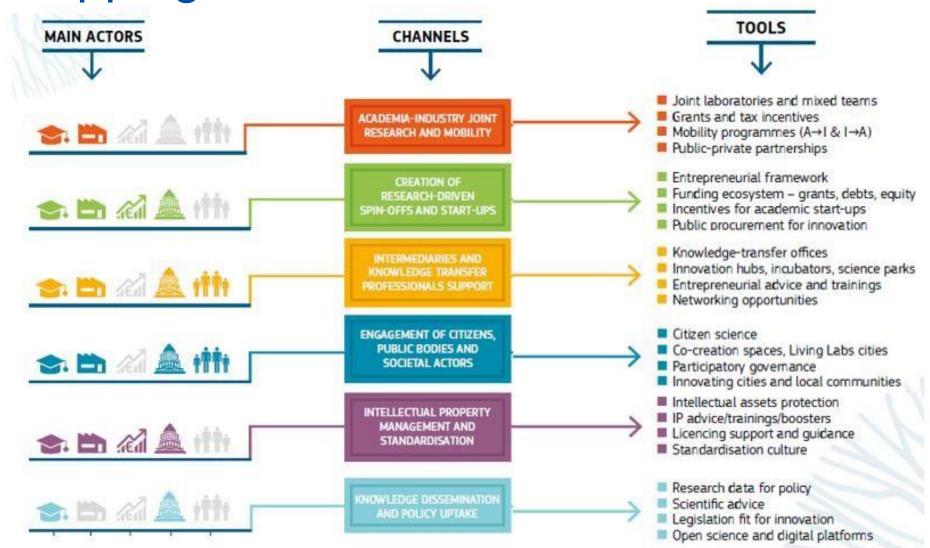


This policy review provides a toolbox to promote the uptake of R&I results and data. To enhance the diffusion of excellent national, regional and organisation-level initiatives, it also includes references to European and

international best practices.



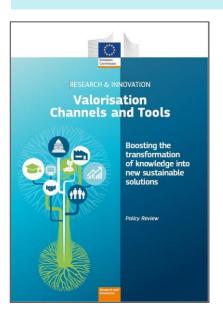
# Mapping valorisation actors, channels and tools





# The policy context

- Competitiveness Council (Research and Space), 28 May 2021 on renewing the European Research Area: among key principles and the vision for ERA, the ministers stressed in particular transfer of knowledge and cooperation between industry and academia
- The Commission Proposal for a Pact for R&I in Europe adopted in July 2021 identified "value creation" as one
  of the key principles underpinning European research and innovation, and highlighted "knowledge
  valorisation" among the priority areas for joint action by Member States







# Knowledge Valorisation in ERA

#### What is needed

- Strengthen European resilience via R&I.
- Deploy new technologies and sustainable solutions to drive the twin transitions.
- Increase Europe's competitiveness and technological sovereignty.
- Ensure a faster knowledge circulation and a well functioning valorisation ecosystem.

#### **ERA Objectives**

Prioritise investments and reforms in R&I

Improve access to excellent R&I

Translate results into the economy to ensure market uptake of research output

Make progress on the free circulation of knowledge

# Deliverables under Action 7 of ERA

Guiding Principles for knowledge valorisation co-created with Member States

Codes of Practice, on the Smart use of IP and on standardisation

#### **Outcomes**

Nurture a valorisation culture and mindset in European researchers

Improve valorisation policies and practices of MS and R&I stakeholders

Promote closer connections among valorisation actors

Support leading European technologies

Increase IP literacy and smart management of knowledge assets



## European Industrial Strategy & Standardisation Strategy

The European Green Deal

A European Industrial Strategy

Standardisation Strategy





#### Standardisation Strategy – the key actions

# No alignment with political priorities

- Enhance Annual WP to reflect standardisation urgencies
- High-Level Forum to assist in priorisation
- Review of all harmonised European standards against contribution to zeroemission 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 prenormative work

- Code of Practice for researchers
- > Standardisation Booster

#### **Lack of experts**

- Targeted actions on education and skills:
  - Horizon Europe/COST
  - EU AcademyPlatform/e-learningmaterial
  - StandardisationUniversity Days



#### Element of the EU Strategy on Standardisation

#### **HSbooster.eu** is the "Standardisation Booster"

- a platform to help H2020 and Horizon Europe beneficiaries whose research results are likely to lead to the revision or creation of a standard and to test the relevance of their results for standardization
- Engage the R&I community early on in standards development
- Raise strategic awareness of standardisation
- Build expertise and skills in standardisation
- Promote EU interests and values through standards
- Address standardisation urgencies [...] in green and digital technologies

From the EU Standardisation Strategy

HSbooster.eu will support the creation of value in R&I investment and create a flow from projects to standardisation activities



#### Priorities that HSbooster.eu will address & base activities

#### Standardisation urgencies\*

- COVID-19 vaccines and medicines production
- Critical raw materials for batteries and waste batteries.
- Climate resilience of infrastructure and low-carbon cement
- Hydrogen technologies and components
- Transport and storage of hydrogen
- Standards for the certification of chips in terms of security, authenticity, reliability
- Smart contracts for data spaces

\* 2022 annual Union work programme for European standardisation



#### How can the HSBooster.eu valorise R&I by standards?

- Develop a strong ecosystem culture by stimulating the connection between R&I and standardisation community
- Bring on board local and regional authorities
- Facilitate free knowledge circulation
- Match the agenda of SDOs and R&I projects
- Systemic integration of gap analyses for the identification of appropriate Technical Committees
- Realistic stepping-stones within the project cycle and beyond



#### HSbooster.eu – The essentials

- Coordination & Support Action
- April 2022 March 2024
- Budget €2m
- HORIZON-WIDERA-2021-ERA-01-32 Standardisation Booster for fostering exploitation of FP-funded research results
- Strong consortium with expertise and experience in the standardisation field, delivering EC Booster services, training and matchmaking services
- Authoritative External Advisory Group with solid background cross cutting academia & industry with their competences

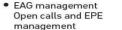














 Training academy management



 Proactive services management



 Premium services management









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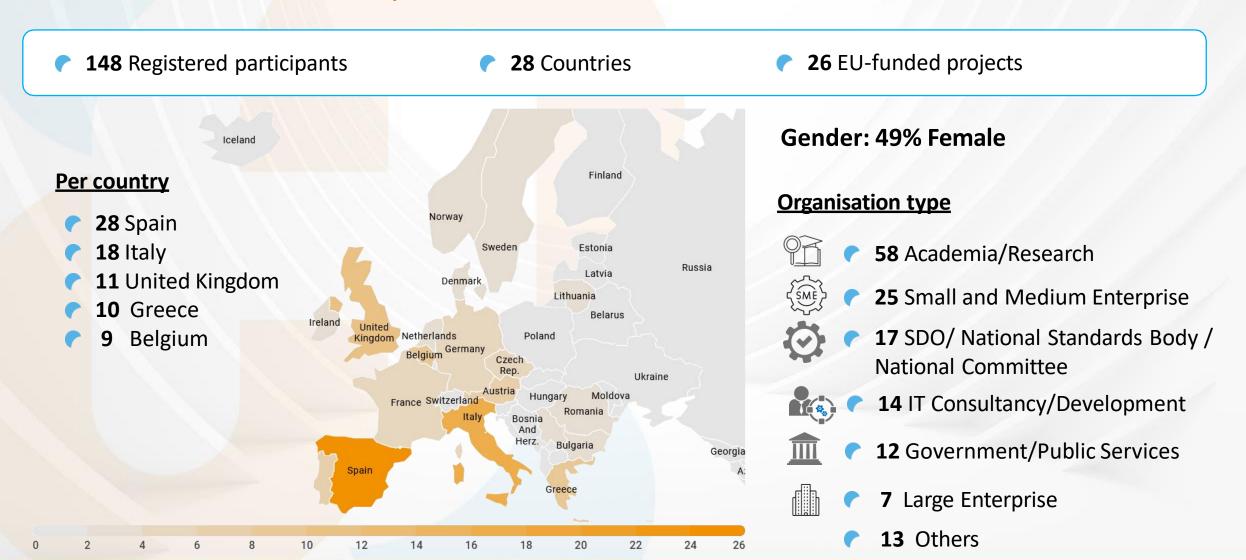
SGS CyberLab Madrid Manager







## Participation from across the EU





# Today's speakers



EC Perspective & expectations
Ioannis Sagias, Deputy HoU,
Valorisation Policies and IPR,
European Commission



HSbooster.eu – The EU Standardisation Booster Nicholas Ferguson, COMMpla & HSbooster.eu Coordinator



What's in store for H2020 & Horizon Europe Projects
Signe Annette Bøgh, Senior
Consultant, Dansk Standard



The Standards Training Academy Ivana Mijatović, Professor, University of Belgrade



Standards & market uptake for EU Projects
José Lucio Gonzàlez, CyberLab Madrid Manager, SGS



The Open Call for Standardisation
Experts
Ray Walshe, Professor,
Dublin City University



# 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 Coom 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)



# Thank you

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- @HSboosterEU
- IN/company/HSbooster.eu
- info@hsbooster.eu

















#### HSbooster.eu – The essentials

- HSbooster.eu Standardisation Booster for H2020 and Horizon Europe Research Results
- Coordination & Support Action (101058391)
- April 2022 March 2024
- Pudget €2m
- HORIZON-WIDERA-2021-ERA-01-32 Standardisation Booster for fostering exploitation of FP-funded research results and managed by the European Research Executive Agency (REA).
- "A new service for EU research projects that want to ensure that their results create real impact by contributing to standards development. - Peter Droell, Director at the European Commission's Research and Innovation Unit
- Strong consortium with expertise and experience in standardisation, training and delivering EC Booster services

Standardisation Support for Horizon Europe and H2020
Projects

5 Open Calls to Contribute to the Revision & Creation of Standards to Address Europe's Standardisation Urgencies

Open Call for Standardisation Experts

Join our community of consultants and support R&I projects contribute to standardisation.

Submit your application

Our Experts will advise Horizon Europe and H2020 projects on how to contribute to standardisation in their field



- Project Coordinator
- COMMpla Platform manager



Automated services management



 EAG management Open calls and EPE management



 Training academy management



 Proactive services management



 Premium services management



## External Advisory Group

Backed and supported by experts with complimentary expertise and roles

EAG provides high-level strategic guidance to

project and provides that extra external

perspective

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













**Economics** 

Pamela Hussey























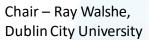


**FOKUS** 















Maitane Olabarria

Septemby General





Peter for Technical Policy &

Standards







# An Element of the EU Strategy on Standardisation

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From EU Strategy on Standardisation

HSbooster.eu will support the creation of value in R&I investment and create a flow from projects to standardisation activities



# Key pointers for HSbooster.eu from EC's Code of Practice Scoping Study

- Have access to standardisation experience and access to the community
- "Involve TC members as sounding boards for the project"
- Relevance of project to standard and careful, realistic planning
- Synchronising objectives to consensus- and time- driven standards process
- Training and skills: basic understanding, negotiation, linguistic, stakeholder management
- Standardisation KPIs and evaluation
- Support SDO standards light instruments
- Sustain industry involvement
- Strategic elements: Raise awareness, training, recognition
- IP Management (in particular with SMEs)
- SME needs in collaborative research and standards



Report identifies key areas in which HSbooster.eu can make a practical and tangible difference to projects.

Recommendations have influenced HSbo oster.e ustrategicplanning and service content



#### HSbooster.eu in a nutshell

Objectives

General Objective: To test a "standardisation booster" programme to facilitate European results in standardisation

Obj.1 EU Community

**Obj.2** Serve H2020/HE Projects

**Obj.3** New standards development

**Obj.4** Uptake of new technologies



#### Policy, Standards, and Synergies

- 3 impact reports
- 1 sustainability report
- 25+ MoUs signed
- 100+ measurable liaisons H2020-HE Projects/SDOs
- 500+ impacted standards



#### The HSbooster.eu Programme

- 1,000+ H2020/HE projects served overall
- 1 continuously open call for recruiting 250+ External standardisation Experts (EPE)
- 250+ Automated services delivered
- 250+ Proactive services delivered
- 5 open calls, assigning 500 Premium services
- 6 training packages, 1,500+ trainees

#### Community

- 2,000+ engaged community member
- 250+ EPE members
- 10 EAG members
- 3,000+ DB of H2020/HE projects with promising standardisation paths



#### Reports



- Service matrix
- Lessons learned & service report
- Initial, intermediate and final impact reports
- Sustainability report

#### Outreach

- 14 Webinars
- 3 Workshops
- 2 Yearly "Impact Events"
- 24 newsletters
- 8 Press Releases
- 36 Professional Videos
   Visibility at 10+ third party events



HSbooster.eu reports and policy briefs can contribute to the EU Standardisation ecosystem providing live information on the activities, status and impact of projects in the standardisation field.

31/05/2022 HSbooster.eu Webinar



## HSbooster.eu Programme



Delivered by Standardisation Experts

#### **5 Open Calls**

21 June 2022 – Jan 2024 Services last up to 3 months

**Training Academy** 

Continuous open call
Now open

Pool of Experts (250)

Standardisation experts

**L1 Support** 

Helpdesk | Chatbot Readiness tool Proactive support

Mapping &

matchmaking

Facilitating R&I innovation related stakeholders in EU projects towards EU standardisation and ensuring two-way flow of information that can contribute to identification of new areas for standardisation.





# 5 OPEN CALLS

Covering topics related to the standardisation urgencies highlighted in the EU Strategy on Standardisation.

# The 1st OPEN CALL will start on 21st June until 30th September

2<sup>nd</sup> OPEN CALL > October 2022 - January 2023

3rd OPEN CALL > February - May 2023

4th OPEN CALL > June - September 2023

5th OPEN CALL > October 2023 - January 2024



Smart City & Circular Economy







# OPEN CALL for Standardisation Experts

Supporting Horizon Europe and H2020 projects address Standardisation priorities in Europe

#### Join our pool of experts

Standardisation practices & procedures | State of the art | Where are revisions or new standards needed? |
Optimal standardisation workflows and timelines | Unique inside knowledge to facilitate contributions

Applications open: w w w .h s bo o s tereu/epe/register







# Thank you

Nicholas Ferguson – <a href="mailto:n.ferguson@commpla.com">n.ferguson@commpla.com</a>

Coordinator & COMMpla





What's in store for H2020 and HE projects

Signe Annette Bøgh,
Danish Standards
31-05-2022

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



#### What's in store for H2020 & HE initiatives



#### **Open Calls for Horizon Europe and H2020 Projects**

Your projects get the opportunity to valorise your results, address urgencies in EU and increase your impact through standardization.

Our experts can help guide you in the right direction through EC-funded Booster Service.

- Meet standardisation experts
- Discover your projects' standardisation potential and readiness level
- Plan contributions to standardisation
- Learn about the standards landscape
- Improve your skillset and strategy



# **OPEN CALL Topics**



Sustainable Digitalisation

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



#### Pandemics

- E-Health & personalized services
- Design & use of medical devices
- Al 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
- Data protection & cybersecurity

# Circ

#### Smart City & Circular Economy

- Circular economy
- Transportation
- Infrastructure
- Green buildings



# Open calls process

- Apply to an open call
- Eligibility check
- R&I project is matched with an expert within your field
- A consultancy service is tailored to your needs and may include:
  - Overview of standardisation landscape
  - Targeted training material
  - Support in getting access to relevant standards development
  - Input for standardisation strategy of your project
- The service is free of charge for European R&I projects.







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Health



# How to apply

- You may already now express your interest in the upcoming open calls via the HSBooster website
- Po you want to hear the news first?
  Register for our newsletter on HSBooster.eu







# Thank you

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HSbooster.eu

Horizon Standardisation Booster

Why HSbooster.eu
Training Academy – how
to build expertise in
standardisation

Ivana Mijatovic
University of Belgrade, Faculty of organizational sciences
31.05.2022.

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# Training Academy

EUSoS: "Europe's competitiveness, technological sovereignty, ability to reduce dependencies and protection of EU values, including our social and environmental ambitions, will depend on how successful European actors are in standardisation at international level. This not only involves strong standardisation skills across industry and academia, but also requires European standardisation to become more agile, flexible and focused to anticipate the standardisation needs."

EUSoS: "strengthen technical expertise and skills in standards"..."engaging the research and innovation community early on in standards to build expertise and skills in standardisation.

HSBooster.eu: The Standards Academy will provide an efficient mechanism for training – knowledge, expertise and skills

#### The TA's main tasks

Training packages: 2 for beginners, 2 for intermediate users, and 2 for advanced users.

Developing a network of standardisation experts and professionals.

More than 25 contributions (training materials) developed by standardisation experts and professionals.

Support to services - training for proactive and premium service applicant

Training webinars.



#### Methodology of the TA: Placing "why" before "how"

#### **Target group 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



#### Researchers' point of view

- Why do we need standardization?
- What benefit can we have?
- How to succeed in booth research and standardization (overlapping time)?
- Antonio Renaldi (ENEA):

  "standardization do not like
  new solutions" EU Knowledge
  Valorisation Week 2022 Making R&I
  results work for a resilient and sustainable
  Europe)

"Research activities and the more formal standardisation processes are different in nature and difficult to synchronise" (Source: Scoping study for supporting the development of a code of practice for researchers on standardisation)

Our goal: To bring present/changing standardisation practice closer to the researchers



#### To make an impact in standardisation researchers need expertise

Academia
/Researchers in
the field of
standardisation

Standardisation experts

Standardisation professionals

Competence: "the proven ability to use knowledge, skills, and personal, social and/or methodological abilities, in work or study situations, and in professional and personal development" (EU, 2017)



EU establishments

Expertise: "a dynamic state, domain-specific, and the key components of expertise are knowledge, experience, and problemsolving (Swanson, 2007)

A critical success factor is a concerted effort

How to

**HSBooster.EU Training packages** 

COURSE ADVANCED 1

standardization

Experiences of researchers involved in standardization 1. The state of Art in specific areas standardisation

2. How to make an impact in

**COURSE ADVANCED 2** 

Standardization experts involved in Critical 'standardisation areas

1. The state of Art in specific areas standardisation

2. How to make an impact in standardization

**COURSE INTERMEDIATE 2** 

1. How to write standards proposals + processes?

- 2. Skills related to writing standards (structure...)
- 3. Skills related to the ability to draft texts in a standardcompliant language
- 4. How to establish a certification scheme?
- 5. Training in standardization skills

**COURSE INTERMEDIATE 1** 

1. Benefits from participating in standards development

- 2. How to participate in TC of NSB?
- 3. How to address and find the right standard?
- 4. How to participate in developing standards in consortia?
- 5. Standardisation development and setting processes in SDOs

**COURSE BIGINER 1** 

and related documents

5. Users of standards

and participating in the standards development

7. Standardization history

9. Conformity assessment

8. Quality Infrastructure

standards?

1. Why do researchers needs

3. Types of standardization

2. Standardization, standards,

4. Classifications of standards

6. Benefits of using standards

**COURSE BIGINER 2** 

- 1. Arena of standardization **SDOs**
- 2. Voluntary consensusbased standardisation
- 3. European system of standardization
- 4. Consortia based standardization
- 5. Company standardization
- 6. How standards can be referenced in regulative?
- 7. Standardisation. Innovations, IPR

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

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 interets&needs for getting involved in standardisation

To be able chose 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

build expertise in standardisa tion

Levels of generality

General and specific

Experience

Skills

Knowledge





# Thank you

Ivana Mijatovic

University of Belgrade, Faculty of Organizational Sciences,

ivana.mijatovic@fon.bg.ac.rs

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# Standards and Market

Lucio González, SGS Brightsight May 31, 2022

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



## Importance of Types of Standards

- Standards support industry competitiveness by assisting with the codification and dissemination of new knowledge and innovations, helping to improve products and services, ensuring interoperability and enabling trade.
- They also help businesses to demonstrate to regulators and customers (the Market) that their products and services meet defined (requirements) safety, quality, environmental and lately security standards.
- Standards are therefore an essential business tool, and failure to make full use of standards and participate in standards development can inhibit industry competitiveness at individual firm, sectoral and regional levels.



# Types of Standards

- Product standards cover various features of products and often refer to characteristics related to quality and safety, or to aspects that ensure their interoperability with other related products or security features.
- Process standards refer to the conditions under which products and services are to be produced, packaged or refined
- Management system standards assist organisations to manage their operations. They are often used to help create a framework that then allows the organisation to consistently achieve the requirements that are set out in product and process standards.
- Increasingly, service standards are also emerging as a discrete type of standard. They are typically developed to ensure a consistent 'minimum' standard of quality in the provision of a service, and to clarify the rights and responsibilities of both the provider and the user of the service.

Standards can also be broadly divided into 'formal standards' or 'informal standards', depending on the structure within which the process of developing the standard takes place:

- rational level by one of the recognised official standardisation bodies which include for instance the International Organisation for Standardisation (ISO), the European Committee for Standardisation (CEN) and National Standards Bodies (NSBs). International Standards have become critical to the trading process, ensuring a level playing field for exports, and ensuring imports meet internationally recognised levels of performance and safety.
- Informal standards developed by industry associations, groups, for a and individual businesses.
- The vast majority of standards are **voluntary** in the sense that they are offered for adoption by people or industry but without any legal requirement that they are used. Some standards become mandatory when regulators specify that compliance with a standard is a legal requirement.



### The benefits of Standards

Standards and standardisation support innovation, growth and competitiveness across Europe.

- Standards can support innovation and promote the adoption of new technologies.
- Standards play a particularly useful role in disseminating knowledge in industries where products and processes supplied by various providers must interact with one another. Here, standards facilitate the introduction of innovative products by providing interoperability between the new and the existing products, services and processes.
- Standards have an important role to play in supporting the competitiveness of European businesses in the global market, by helping to improve the products and services they provide, and by enabling access to foreign markets and businesses.





# Thank you

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Horizon Standardisation Booster

The Expert Advisory
Group (EAG)

Ray Walshe,
Dublin City University
31-05-2022

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Smart City & Circular Economy



# Introducing the EAG































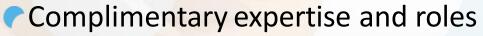












- Vertical sectors
- Technologies
- Standardisation









- Prioritising Open Call Topics / Suggest new topic Areas
- Encouraging EPE Expert Applicants from own networks
- Ambassadors for HSBooster.eu Internationally
- Support engagement activities





- Prioritising Ope
- Encouraging EP
- Ambassadors for
- **←**Support engage





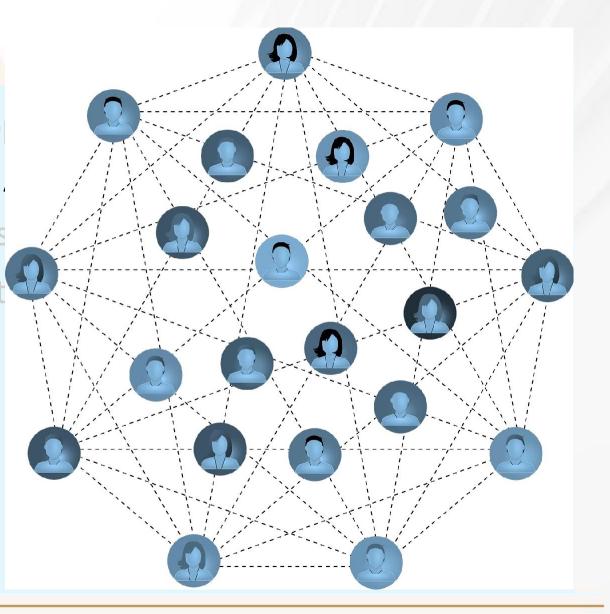


Prioritising Open Call To

Encouraging EPE Expert

Ambassadors for HSBoos

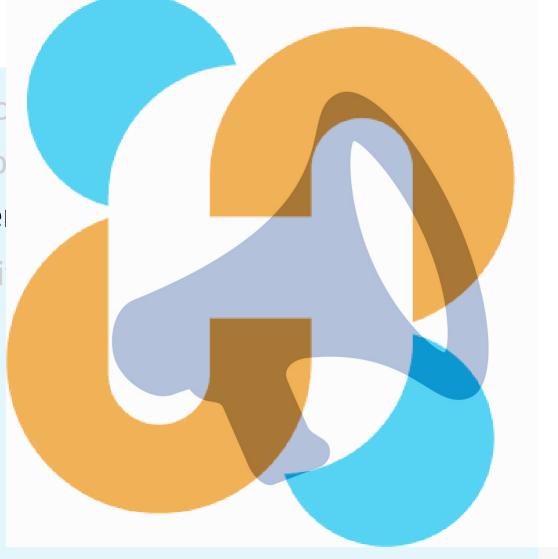
Support engagement act







- Prioritising Open Call Topic
- Encouraging EPE Expert Ap
- Ambassadors for HSBooste
- Support engagement activit







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