

Maria Giuffrida, Trust-IT

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







- European project: HSbooster.eu has been launched by the EU Commission as a part of the European standardization strategy
- Purpose: Pilot support services for European projects to increase their impact, gain marked access and support the European green and digital agenda by using standards and contributing to standardisation
- Call: 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).
- CLifetime: April '22 Sept '24
- **CSA** (GA: 101058391)



# Standardisation gives European R&I projects the opportunity to:

- Increase their impact
- Gain marked access
- Tap into a vast knowledge base

## Free Booster Service and tools for SMEs in EU projects to:

- Learn more about standardisation
- Meet standardisation experts
- Dive into relevant standards
- Develop a standardisation strategy





# Today's objectives

Present our current and future service offer
 Hear from experts and projects already engaged with Hsbooster
 Collect feedback and ideas from anyone interested





- 10:30 Welcome and Introduction, Maria Giuffrida, Trust-IT, HSbooster.eu
- 10:40 HSBooster.eu in Action: Overview of HSbooster.eu evolving services, Signe Annette Bøgh, Dansk Standards, HSbooster.eu
- 11:00 Panel discussion and experiences from current projects and experts
  - Muslim Elkotob, Vodafone and Claudio de Majo, Trust-IT (SNS-OPS project)
  - Ákos Milánkovich, SEARCH-LAB Ltd. (AssureMOSS project)
  - Raúl García Castro, Universidad Politécnica de Madrid (COGITO project)
  - Rada Hussein, Ludwig Boltzmann Institute for Digital Health and Prevention (IDERHA project)
  - Gabriel-Mihail Danciu, Siemens (iHELP project)
- 11:30 Improving Standardisation knowledge: Training Academy, Ivana Mijatović, University of Belgrade, HSbooster.eu and Dr. Aikaterini Poustourli, International Hellenic University
- **~**11:50 Q&A
- 12:00 Conclusion

#### HSbooster.eu Horizon Stondardiation Booster Bovent! Share your feedback with us during the event!



Funded by the European Union



## Access our <u>Mural board</u>

If you already received a service (project) or delivered a service (expert) you can fill in additional information via short surveys:

- Project survey
- Expert survey





There will be a second workshop of this type
 Focus on additional topics we won't cover today
 Wednesday 28 February 14:30 – 16:00 CET

Save the date



HSbooster.eu

Signe Annette Bøgh, Danish Standards 18-01-2024

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



# Standardisation Support for Research & Innovation Projects

Apply for standardisation expert services to increase and valorise your project results through standardisation









**European Union** 

# One-to-one mentoring Service delivery timeline

## 3-Month service delivery timeline



## Continuous reporting and monitoring by experts & HSbooster.eu





# Key HSbooster tools - Links





# **Technical Webinars**



Funded by the European Union



## 6 upcoming webinars in 2024.





# Access to standards and Technical Committees

## Access to standards



## Access to TCs via national mirror committees

How to apply: Project representative can write to info@hsbooster.eu to request standards or access to a standardisation committee.



# **CEN Workshop Agreement**



Funded by the European Union

# Pre-normative document for that can be used as a reference document to facilitate interoperability and compatibility,

- enhance market uptake
- create trust in innovative solutions
- Steppingstone towards standardization
- Secretariat by a national standard body is required

After only 6-12 months, an agreement called a 'CWA' can be put in place, which serves as the basis for new standards based on your research. A CWA is published globally and takes 4 simple steps to create:

Proposal for workshop Anyone can propose and join the workshop.



## Voluntary commenti

Drafting phase

Development of a draft document in a collaborative environment **Commenting** Anyone can comment on a draft CWA.





## **Publication**

Standards such as CWAs are available worldwide.



# Deep Dive service – new



Funded by the European Union

Workshops dedicated to a series of projects.

## Example: EIC Engineered Living Materials

- Clinking projects with standardisation
- CE-marking
- Life Cycle Assessment standards





# Thank you

www.hsbooster.eu | @HSboosterEU



**HSbooster.eu** 

Horizon Standardisation Booster

11:30 12:00 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.



# Sbooster.eu HSbooster.eu Training Academy target audience what we learned, evolved and adapt

## Specific but not homogenious 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, Lindex)

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)
Motivation might be a problem. How can that help me? What for?
Used to the academic style of communication.

•Lack of time for advancing in something other than their core research area

•Interested in **expanding their networks** (for future project submissions) Based on an analysis of 32 projects' potential training needs: -Some projects have a particular standardisation strategy -some projects have a vague picture of what they want -Variety of sectors

Analysis of 54 experts' needs for training support: -Some experts have remarkable experience, and some are less experienced -Variety of sectors

**Challenge: Researchers in PC -** wide variety of group dynamics & different types of PC – how to make closer standardisation to all of them



## Methodology: Placing "why" before "how"

the HSBooster.eu Training Academy is connecting three worlds:

## Focus: Experience

To establish a path for learning from the experiences of standardisation experts & HORIZON Projects with experience in standardisation through case studies, success stories, and use cases.

## Focus: Practice

Establish and maintain links with standardisation training providers and training material developed by ESOs (CEN, CENELEC, ETSI), EU-based NSBs and all other organisations willing to make standardisation closer to researchers. (SDOs, standardisation professionals)

## Focus: Basics

Theory (Academia). To systematise relevant theory and academic research papers on standardisation to become training material for researchers.

#### HSBooster.EU Training packages

COURSE ADVANCED 1 Experiences of researchers involved in standardization 1. The state of Art in specific areas standardisation 2. How to make an impact in standardization

context

Specific

General and specific

General context

Levels of generality

#### COURSE INTERMEDIATE 1

 Benefits from participating in standards development
 How to participate in TC of NSB?
 How to address and find the right standard?
 How to participate in developing standards in consortia?
 Standardisation development and setting processes in SDOs

#### **COURSE BIGINER 1**

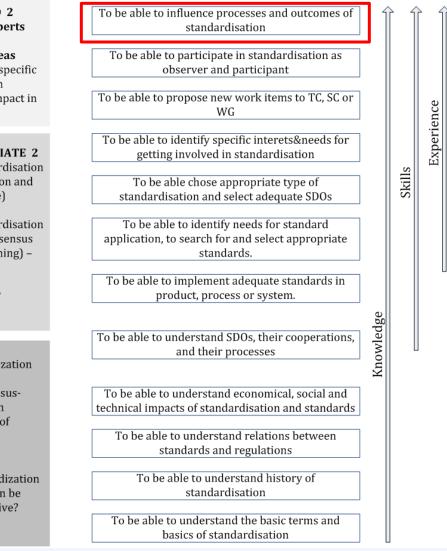
 Why do researchers need standards?
 Standardization, standards, and related documents
 Types of standardization
 Classifications of standards
 Users of standards
 Benefits of using standards
 Benefits of using standards
 and participating in the
 standards development
 Standardization history
 Quality Infrastructure
 Conformity assessment 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. Training in standardisation skills 1 (argumentation and building compromise) simulation game 2. Training in standardisation skills 2 (building consensus and strategic positioning) – simulation game 3. How to establish a certification scheme?

#### **COURSE BIGINER 2**

 Arena of standardization SDOs
 Voluntary consensusbased standardisation
 European system of standardization
 Consortia based
 standardization
 Company standardization
 How standards can be
 referenced in regulative?
 Standardisation,
 Innovations, IPR Learning outcomes based on Blind, K. Drecshler, S. (2017). European Market Needs for Education in Standardisation/Standardisation – related Competence,





This workshop raised the question of serving the needs of EU projects in training standardisation – what expertise is needed and how it can be improved.

Sbooster.eu

## 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** 

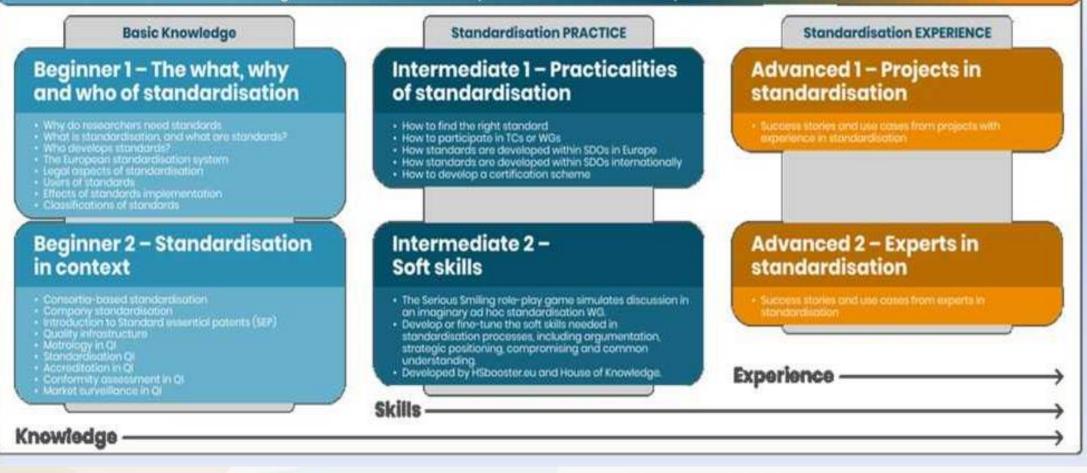
Funded by the European Union

https://www.youtube.com/watch?v=3XE\_dmGY8\_c



# HSbooster.eu training academy progress Y1

#### Online training material and monthly webinars to boost expertise in standardisation



## The HSBooster.eu training academy published the beta version on April 21st, 2023 <sup>20</sup>





Basic knowledge of standardisation

## **1 1 1**

#### For **beginner users**

HSbooster.eu

New to standards?

Check out our **beginner-level resources**! Gain a **foundational understanding of standardisation** with easy-to-follow resources.

Perfect for both seasoned professionals and beginners starting out in their careers. Start learning today!

Start learning today!

#### Level: Beginner 1

 B1 01 WHY DO RESEARCHERS NEED STANDARDS
 B1 02 WHAT IS STANDARDISATION, AND WHAT ARE STANDARDS?
 B1 03 WHO DEVELOPS STANDARDS?
 B1 04 EUROPEAN STANDARDISATION SYSTEM
 B1 05 LEGAL ASPECTS OF STANDARDISATION -RELATIONSHIP OF STANDARDS AND LAW IN THE EU
 B1 06 USERS OF STANDARDS
 B1 07 EFFECTS OF STANDARDS IMPLEMENTATION
 B1 08 CLASSIFICATIONS OF STANDARDS

#### Level: Beginner 2

9. B2 01 CONSORTIA-BASED STANDARDISATION
10.B2 02 COMPANY STANDARDISATION
11. B2 03 INTRODUCTION TO STANDARD ESSENTIAL PATENTS (SEP)
12. B2 04 QUALITY INFRASTRUCTURE
•13. B2 04.1 THE ROLE OF METROLOGY IN QUALITY INFRASTRUCTURE
•14. B2 04.2 THE ROLE OF STANDARDISATION IN QUALITY INFRASTRUCTURE
•15. B2 04.3 THE ROLE OF ACCREDITATION IN QUALITY INFRASTRUCTURE
•16. B2 04.4 THE ROLE OF CONFORMITY ASSESSMENT IN QUALITY INFRASTRUCTURE
•17. B2 04.5 THE ROLE OF MARKET SURVEILLANCE IN QUALITY INFRASTRUCTURE





# HSbooster.eu Training Academy Y1



## STANDARDISATION PRACTICE

## 🔁 😭 😭

#### For intermediate users

Ready to level up your **standardisation knowledge**?

Our **intermediate-level resources** provide **practical insights and strategies** to deepen your understanding and take your skills to new heights.

Whether you're a pro or a newcomer, start exploring our resources today and unlock your potential in standardisation!

Explore now!

#### **Intermediate 1**

18. I1 01 HOW TO FIND THE RIGHT STANDARD
19.I1 02 HOW TO PARTICIPATE IN TCS OR WGS
20.I1 03 HOW STANDARDS ARE DEVELOPED WITHIN
SDOS IN EUROPE
21. I1 04 HOW STANDARDS ARE DEVELOPED WITHIN
SDOS INTERNATIONALLY
22. HOW TO DEVELOP A CERTIFICATION SCHEME?

Future Action Orientaton material of SDOs? NSAL for HSbooster.eu DS

#### **Intermediate 2**

#### Serious game: Serious smiling game

Ivana (me <sup>©</sup>) wrote the game, and House of Knowledge (Magnus and Howard) provides the game's support and digitalisation (as a cardboard game and digital version). **Serious smiling game**. This game aims to develop soft skills needed in standardisation processes, focusing on **argumentation skills, strategic positioning, building compromise\_and\_common\_understanding**.







## STANDARDISATION EXPERIENCE

## 😂 😂 😂

#### For advanced users

HSbooster.er

Ready to learn from **real-world experiences in standardisation**? Our **advanced-level resources** feature in-depth case studies and practical examples from industry experts. Gain **valuable insights and apply lessons to your own work**. Explore now and take your skills to the next level!

Level up your skills now!

Would you like to learn more about standardisation in action? Here you can find case studies, use cases and success stories of project participants and standardisation experts on various topics.

Advanced 1: Success stories from research project wit experince in standardsaton

**22. Title of Topic:** Unlocking new value from urban biowaste – VALUEWASTE & CWA 17866:2022

Advanced 2>

**24. Title of Topic:** Impact of standards on market creation: Case of medical/healthcare robot HAL by Cyberdyne





Start your training course now: B2 01 CONSORTIA-BASED STANDARDISATION.pdf (1.14 MB)

#### Contribute in improving our Training Academy

- © Would you like to contribute to this training topic?
- © Would you like suggest other training topics for the Academy?
- 🛿 Would you like to author or co-author new material?
- C Do you have a standards use case you would like to share?

#### Please contact us at info@hsbooster.eu

B I 🐵 🙊 🗄 🏣 🤧

Join us!

Save your comment



# **HSbooster.eu** Training Series

HSbooster.eu Training Series:

- Introduction to standardisation
- Standardisation in Practice
- Thrive on standardisation



# Introduction to standardisation



Watch it now!



Funded by the European L

Funded by the European Un



# **Standardisation in Practice**



## Training session 6 Joint training session HSbooster.eu & StandICT 2026

"Standardisation in practice: When is the right time for standardisation in research processes?" Date and Time: 1st February 2023 | 10:00-11:30 CEST

**Knut Blind**, Fraunhofer Institute for Systems and Innovation Research ISI Business Unit Innovation and Regulation & Technische Universität Berlin Faculty of Economics and Management, Germany **Christian Goroncy**, senior project manager DIN, the German Institute for Standardization, Germany



# **Thrive on standardisation**

Training sessions Joint training sessions

Fast track standardisation (CWA)
How to develop a standardisation strategy?

Building Alliances (of research projects & PP) for standardisation
Consortia-based standardisation
Company standardisation
Metrology standards
Terminology standards Join us!



- Positive response

- Next steps

the game

- Needs good facilitation

1. Opening and promote

3. ToT – if there is interest

2. Trainer instructions

- Role playing & simulation game
- On site and online (?)
- aims to develop soft skills needed in standardisation processes:
   argumentation skills, strategic positioning, building compromise and common understanding.
- The EURAS 2023 25 players









## **HSbooster.eu** Training Academy



## A critical factor for success is the joint effort of **academic** researchers, standardisation professionals and experts from the industry.

## Join us as trainers in HSbooster.eu training webinars, and share your knowledge and experience with other researchers.

Jumpstart your experience with our training packs!

#### 333

#### For **beginner users**

Check out our beginner-level resources! Gain a foundational understanding of standardisation with easy-to-follow

Perfect for both seasoned professionals and learning today!

#### 2 2 2

#### For intermediate users

Ready to level up your standardisation knowledge?

Our intermediate-level resources provide practical insights and strategies to deepen your understanding and take your skills to new heights.

Whether you're a pro or a newcomer, start exploring our resources today and unlock your potential in standardisation!

#### Explore now!

#### 📩 🔂 🖆

#### For advanced users

Ready to learn from **real-world experiences** in standardisation? Our advanced-level resources feature in-depth case studies and practical examples from industry experts. Gain valuable insights and apply lessons to your own work. Explore now and take your skills to the next level!

Level up your skills now!

Activate Windows

Start learning today!



# **Consult Norma**

The HSbooster.eu services are growing!

The new chatbot Norma is ready to provide quick and easily digestible information.

Keep an eye on our website

Remember, you can consult Norma anonymously and you will be the one to provide more information if you wish.

Give her time and she will become more accurate and able to answer new questions.



## Norma chatbot among the available HSbooster.eu services





# Thank you

Ivana Mijatovic University of Belgrade, Faculty of organizational sciences ivana.mijatovic@fon.bg.ac.rs

www.hsbooster.eu | @HSboosterEU



## Improving Standardisation knowledge: Training Academy

Dr. Aikaterini Poustourli Independent Standardisation Expert International Hellenic University



#### WEBINAR

Boosting standardisation in R&I projects - Achievements, experiences and the road ahead

**18<sup>th</sup> Jan 2024** 10:30 - 12:00 (CET) **SAVE THE DATE** 



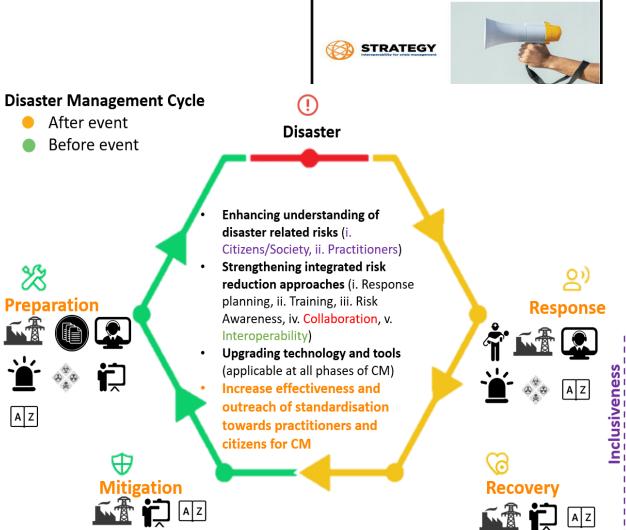
Improving Standardisation knowledge: Training Academy,

Ivana Mijatović, University of Belgrade, HSbooster.eu and

Dr. Aikaterini Poustourli, International Hellenic University

Funded by the European





Start date 1/9/2020, End date 31/8/2023 (6/10/2023) Grant Agreement Number: 883520. Funded Under: H2020-EU.3.7.5. - Increase Europe's resilience to crises and disasters. Topic: SU-DRS03-2018-2019-2020 - Prenormative research and demonstration for disaster-resilient societies

Stream 1: Search and rescue **Stream 2: Critical Infrastructures protection** Stream 3: Response planning Stream 4: Command and control Stream 5: Early warning and Rapid damage assessment 🔊 Stream 6: CBRN Stream 7: Training A Z Stream 8: Terminology/Symbology **Implementation Roadmap** Standards definition & consensus Standardisation Landscape (Standardisation groups & Associations, **Operational Standards, EU Projects)** Definition and drafting of bora standardisation papers (towards new CWAs, inclusion in ongoing ones or inclusion in ongoing standardisation groups) đ TTXs and Development/Integration of tools and methods/guidelines FSXs, Validation and CWA/Standard implementation

Interoperability

STRATEGY EU, "Facilitating EU pre-Standardisation process Through streamlining and vAlidating inTeroperability in systems and procEdures involved in the crisis management cYcle"; Sept 2020 ~ Oct 2023.

Eleven (11) CWAs and 2 TSs

STRATEGY's Pre-standardisation Deliverables in support to EC's Policies for Civil Protection, Crisis Management, Interoperability, Standardisation : <u>A LEGACY FOR THE EU, ESOs, R&I</u>!

- 1. "CEN/WS CMEx "Implementation Guidelines for evaluation and assessment reporting of exercises for strategy crisis management""
- 2. "CEN/WS SITAC "Management of forest fire incidents SITAC-based symbology"
- 3. "CEN/WS CER "Collaborative Emergency Response Communication and sharing of operational information among multiple public safety agencies"
- 4. "CEN/WS IICDM "International and interinstitutional crisis and disaster management Guidelines for the mapping of terminology and icons"
- 5. "CEN/WS RDA "Emergency Management Rapid damage assessment of buildings and alerting protocol"
- 6. CEN/WS ERP "Structuring an emergency response plan for crisis management stakeholders"
- 7. "Requirements for acquiring digital information from victims during Search and Rescue operations"
- 8. "Guidelines for effective social media messages in crisis and disaster management"
- 9. "Specifications for Digital Scenarios for Search and Rescue Exercises"
- 10. "Improvement of information processing in crisis management of critical infrastructures for computer assisted data gathering, display and reporting".
- CEN/TS Societal and citizen security Digital Chain of Custody for CBRNE Evidences Part 1: Overview and Concepts
- CEN/TS Societal and citizen security Digital Chain of Custody for CBRNE Evidence Part 2: Data Management and Audit.



HSbooster.eu





CWA download area CEN-CENELEC (cencenelec.eu)

22/1/2024



Based on my experience with the STRATEGY R&I Project, my advice to research projects in terms of how to learn on standardization: First of all I would like to share the aspects/factors that I consider as BEST PRACTICEs / choices and which implemented by the STRATEGY Project (1):

- A Trusted, powerful, efficient consortium scheme and partners group should be established from the very beginning of the Project
- ✓ A very well Project Management structure should be from the very beginning; Satways Ltd was an outstandingly experienced Project Coordinator and its Team of Project Managers who assigned very concrete tasks and areas of responsibility, was a best practice that ensured results and communication of clear messages. Continuity and accountability were parts of the communication practice.
- A very concrete identification of standards gaps and needs was implemented from the very beginning of the Project and was followed-up by the liaison officer till the end of the project
   5 NSBs joined and undertook specific roles per thematic Stream and as Workshop's Secretariats during the realisation of each CWA.



- Based on my experience with the STRATEGY R&I Project, my advice to research projects in terms of how to learn on standardization:
- First of all I would like to share the aspects/factors that I consider as BEST PRACTICEs / choices and which implemented by the STRATEGY Project (2):
- Table Top Exercises and Full Scale Exercises validated the content, the progress and the results of each CWA and their interoperability too.
- Vivid Liaison activities established with relevant ISO and CEN TCs (In February 2022, ISO approved STRATEGY 's candidacy for a Liaison Category C in the ISO/TC 292: Security and Resilience and Working Group (WG) 3: Emergency Management, while the liaison with CEN/TC 391 approved in November 2021). Start date 1/9/2020, End date 31/8/2023 (6/10/2023). If we had joined earlier, we might started SOONER the relevant activities and interaction.



- SECONDLY, in general, based on my experience with the STRATEGY R&I Project, my advice to research projects in terms of how to learn on standardization (3):
- To proactively be informed and follow up on the Standardisation policies, initiatives, and bodies related to the topic(s) of their project (all websites are accessible, transparent processes)
- To proactively attend, and participate in relevant events (remotely and physically)
- To be in contact and establish strategical interactions with key-actors and stakeholders
- To attend HSBooster Training Academy's courses and be active members of its community by taking advantage of the HSBooster tools, platform, material, network
- To be trained, to be aware of the Code of Practice on Standardisation.

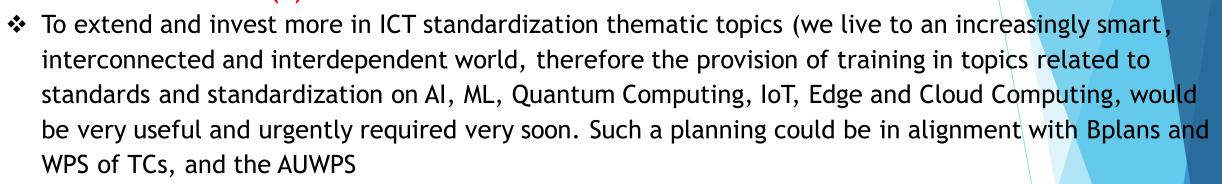


- SECONDLY, in general, based on my experience with the STRATEGY R&I Project, my advice to research projects in terms of how to learn on standardization (4) :
- To establish from the very beginning internal brainstorming meetings on the standardization topics
- To involve NSBs as consortium partners and TCs Conveners / Chairpersons as ABMs and/or partners
- To be registered and actively participate and contribute in CEN CENELEC ETSI TCs. When we engage in CEN-CENELEC standardization activities, this can be done through direct participation in national mirror committees or by linking our specific projects to European standardization activities. Take a look in the <u>CEN CENLEC</u> <u>Guide 23</u> ("Research Consortium Bridge Addressing Research and Innovation in European Standardization activities and deliverables", Edition 3, October 2020).



- My Advice for the HSBooster.eu Training academy on how to better serve the target audience/researchers (1):
- To constantly provide its successful training courses as does
- To organize more field-focused and customized training courses addressed to consortia, projects, reserachers, key-stakeholders including standardisers (Many times, Tight deadlines do not offer the luxury of empathy; each part has its own priorities and agendas and thus it is essential to learn to Put ourselves in Other People's Shoes). Such training courses could be provided in the form of serious games, TTxs, and or living labs (similar to the Living Labs as Regulatory Learning Tools), for a more interactive and engaging way of learning).
- Thus, To extend and invest in training courses addressed to TCs leadership, chairpersons, conveners, and members (the aim here is to gain the leadership (facilitation, communication) capacities of eliciting/harnessing/ the best possible of the researches and the R&I projects' outcomes).

## Boosting standardisation in R&I projects -Achievements, experiences and the road ahead My Advice for the HSBooster.eu Training academy on how to better serve the target audience/researchers (2) :



- Similarly, the HSBooster Academy could extend its services, on supporting consortia in co-drafting the standardization sections of their proposals and following up on the progress till the end of the projects, i.e. in
  - the Horizon Europe Calls 2024: Digital Platforms for the Cloud-Edge-IoT, Innovation through Ope Source and Software / Coordination and support action (CSA), March 2024, AND
  - the Support on standardisation challenges for potential applicants to <u>the SNS-Smart Ne</u> <u>Services Joint Undertaking (SNS JU) Call for Proposals/ 6G systems</u>)
- Last but not least, HSBooster, StandICT, EURAS could be a constant partner and supporter of the CEN CENELEC ETSI, since they listen first to the needs of the researchers, the end users, and other stakeholders.
  Dr. Aikaterini POUSTOURLI, Slides for the HSBooster Webinar entitled "Boosting standardisation in R&I projects Achievements, experiences and the road ahead"

TRAINING ACADEM