HSbooster.eu
Horizon Standardisation Booster

SWForum.eu

WEBINAR
21 February 2023   15:00–16:30 CET

Software Technologies & Standards: Enabling Interoperability & Innovation

SPEAKER

Ray Walshe

Dublin City University
HSbooster.eu

Funded by the European Union

The EU Standardisation Booster

- **Purpose:** Give European R&I projects the opportunity to increase their **impact**, gain **market access** and support the European **green and digital agenda** by **using** standards and **contributing** to standardisation

- **Objectives:**
  - Build a **European community** around standardisation and EU Projects
  - Serve **ongoing** and **completed H2020** and **Horizon Europe projects** through dedicated **support services**
  - Support projects to
    - Use existing standards
    - Revise existing standards
    - Contribute to the creation of new or revision of existing standards
  - Increase **expertise in standardisation** through **training**

- **Name: HSbooster.eu** - Standardisation Booster for H2020 and Horizon Europe Research Results.

- **Funding:** Launched by the EU Commission as a part of the European Standardisation strategy.

- **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).

- CSA (GA: 101058391)

- Duration: April 2022 – March 2024

- Budget €2 million

The Consortium

- COMMpla — Communication Platforms and Online Solutions
  - Project Coordinator
  - COMMpla Platform manager
- Trust-IT Services — communicating to markets
  - Automated services management
- DCU
  - EAG management Open calls and EPE management
- UNIVERSITY OF BELGRADE
  - Training academy management
- DS DANSK STANDARD
  - Proactive services management
- SGS
  - Premium services management

HSbooster.eu
Horizon Standardisation Booster

OPEN CALL Topics

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
- Data protection & cybersecurity

Smart City & Circular Economy
- Circular economy
- Transportation
- Infrastructure
- Green buildings

https://hsbooster.eu/open-call-topics

**Based on EU Standardisation urgencies, EC call topics & focus of ESOs, NSBs, SDOs.
6G-related priorities to be included.**

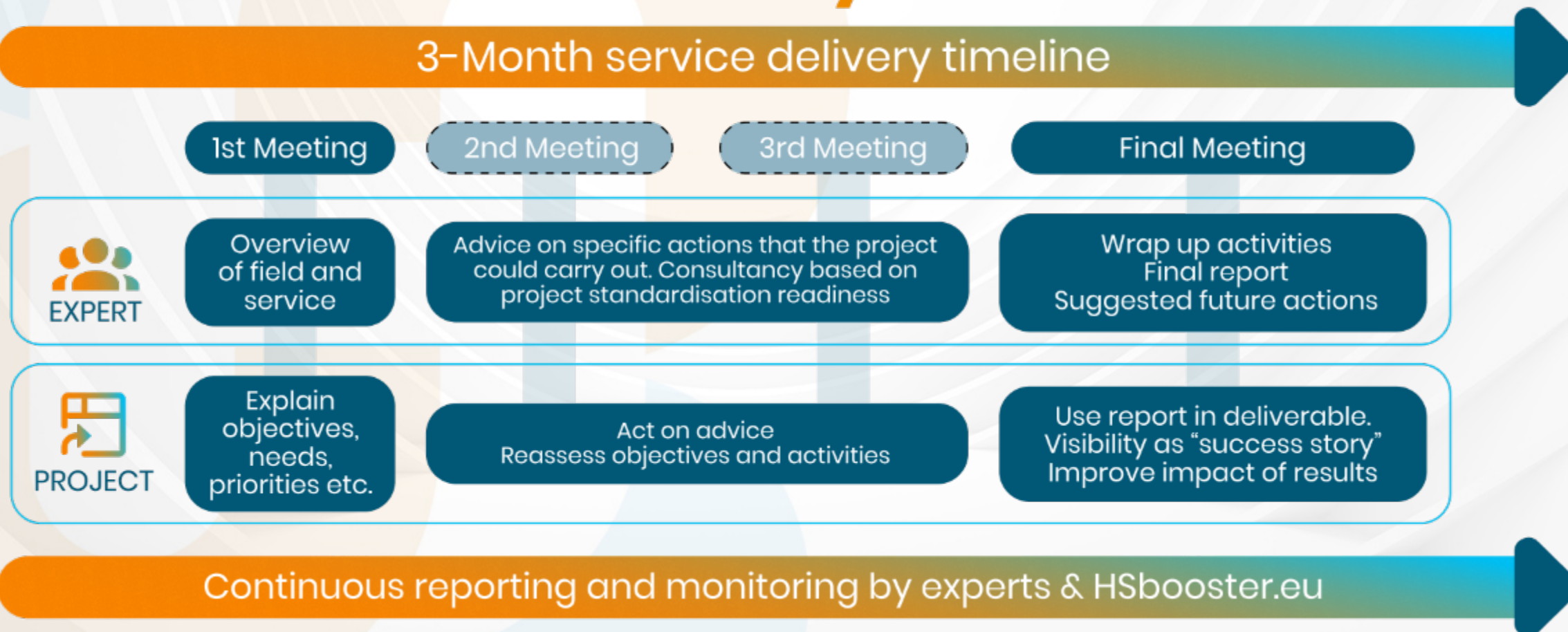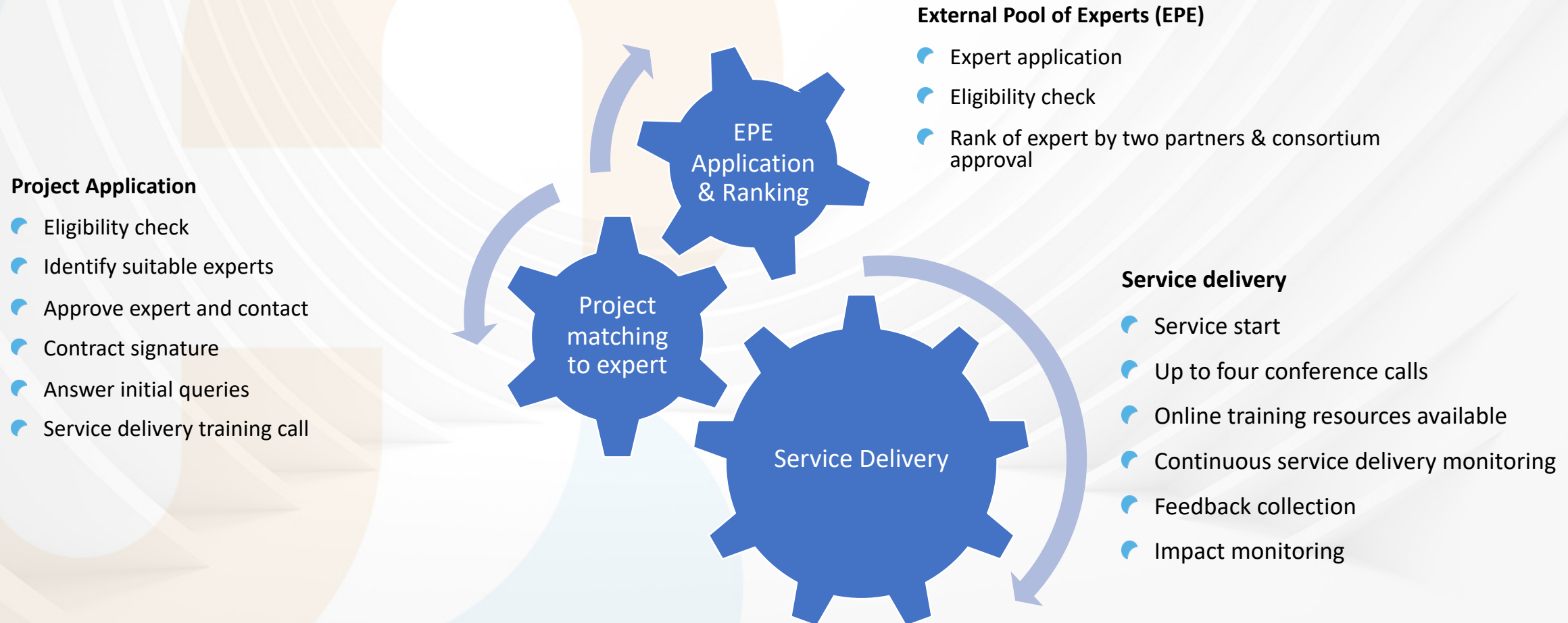# The HSbooster.eu Service Delivery Machine

Funded by the European Union

External Pool of Experts (EPE)

- Expert application
- Eligibility check
- Rank of expert by two partners & consortium approval

Project Application

- Eligibility check
- Identify suitable experts
- Approve expert and contact
- Contract signature
- Answer initial queries
- Service delivery training call

EPE Application & Ranking

Project matching to expert

Service Delivery

Service delivery

- Service start
- Up to four conference calls
- Online training resources available
- Continuous service delivery monitoring
- Feedback collection
- Impact monitoring
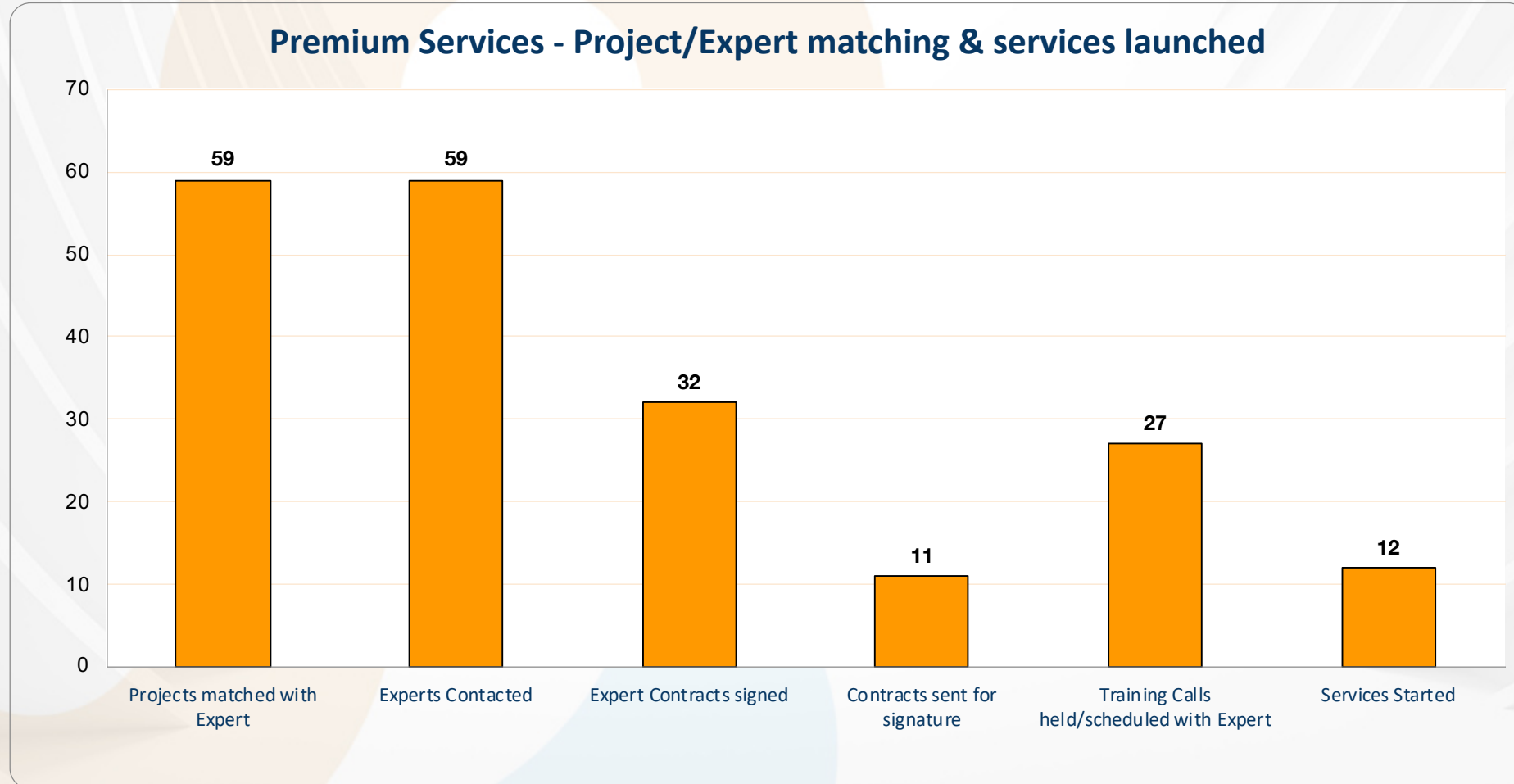
HSbooster.eu platform covers all aspects of service delivery and data collection.
Large effort at start of project for platform and service design and delivery.
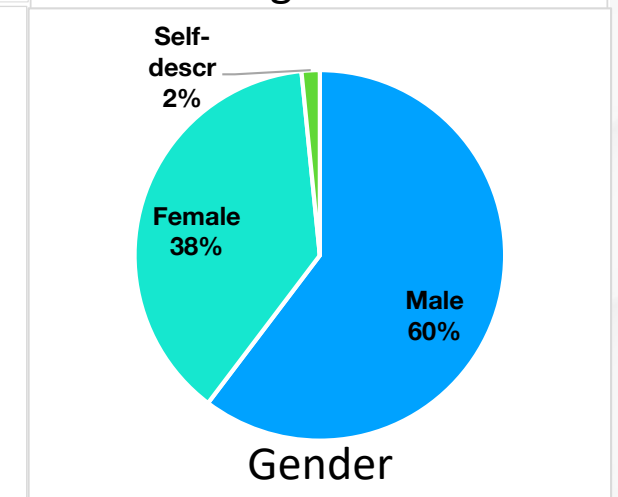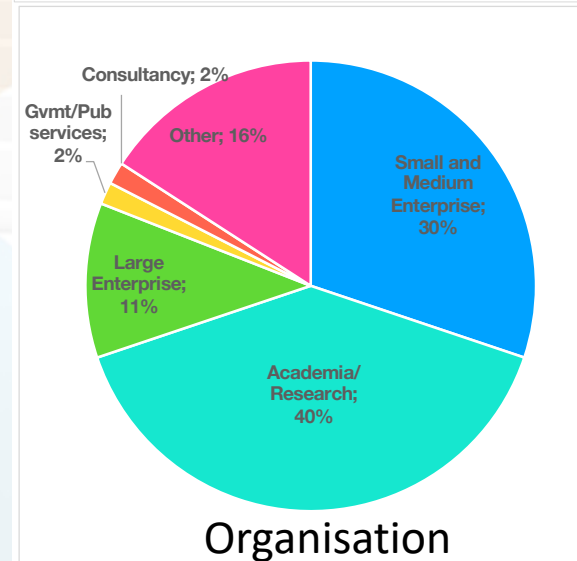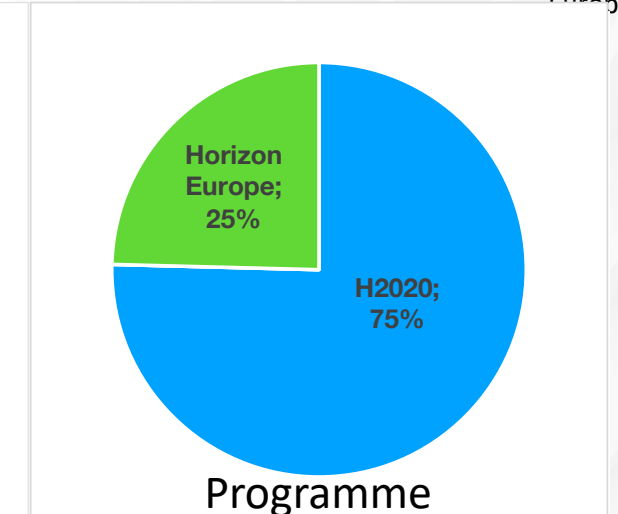
Premium service delivery status

Premium Services - Project/Expert matching & services launched

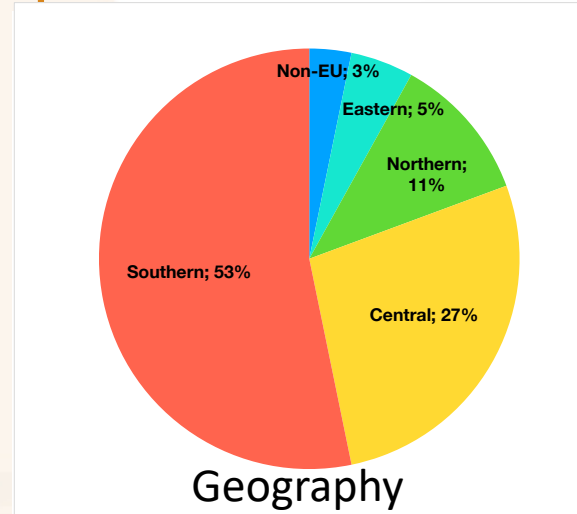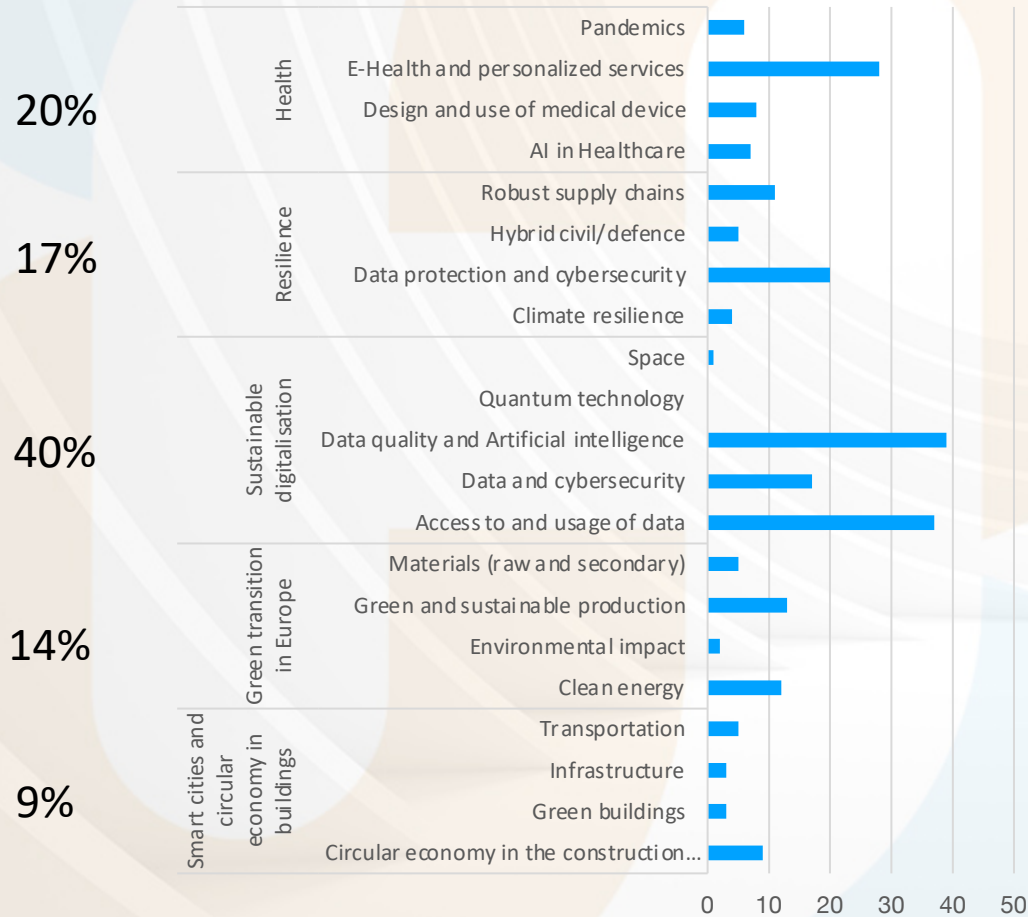| Category	Value
Projects matched with Expert	59
Experts Contacted	59
Expert Contracts signed	32
Contracts sent for signature	11
Training Calls held/scheduled with Expert	27
Services Started	12

Booster service delivery machine and procedures are now up and running and services delivered

142 External Experts Recruited

Funded by the European Union

63 Project Applications

20%

17%

40%

14%

9%

Health
- Pandemics
- E-Health and personalized services
- Design and use of medical device
- AI in Healthcare

Resilience
- Robust supply chains
- Hybrid civil/defence
- Data protection and cybersecurity
- Climate resilience

Sustainable digitalisation
- Space
- Quantum technology
- Data quality and Artificial intelligence
- Data and cybersecurity
- Access to and usage of data

Green transition in Europe
- Materials (raw and secondary)
- Green and sustainable production
- Environmental impact
- Clean energy

Smart cities and circular economy in buildings
- Transportation
- Infrastructure
- Green buildings
- Circular economy in the construction...

0   10   20   30   40   50

Geography
- Non-EU; 3%
- Eastern; 5%
- Northern; 11%
- Central; 27%
- Southern; 53%

Programme
- Horizon Europe; 25%
- H2020; 75%

Organisation
- Small and Medium Enterprise; 30%
- Academia/Research; 40%
- Large Enterprise; 11%
- Gvmt/Pub services; 2%
- Consultancy; 2%
- Other; 16%

Gender
- Self-descr 2%
- Female 38%
- Male 60%

General alignment on topics between experts and project applications
38% Female | 43% Private sector | 53% Southern EU

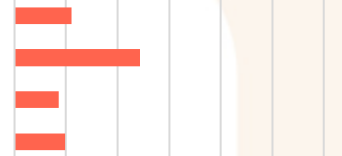**HSbooster.eu** — Horizon Standardisation Booster

Funded by the European Union
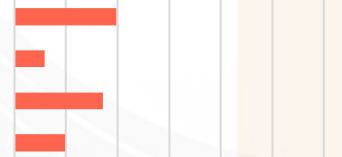
Expert expertise

17% — Health
- Pandemics
- E-Health and personalized services
- Design and use of medical device
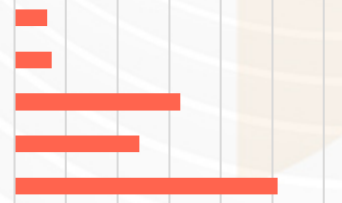- AI in Healthcare

17% — Resilience
- Robust supply chains
- Hybrid civil/defence
- Data protection and cybersecurity
- Climate resilience

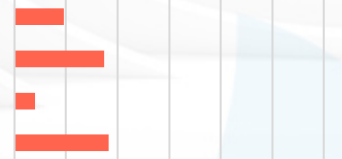**38%** — Sustainable digitalisation
- Space
- Quantum technology
- Data quality and Artificial intelligence
- Data and cybersecurity
- Access to and usage of data
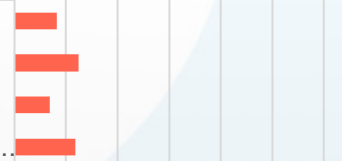
16% — Green transition in Europe
- Materials (raw and secondary)
- Green and sustainable production
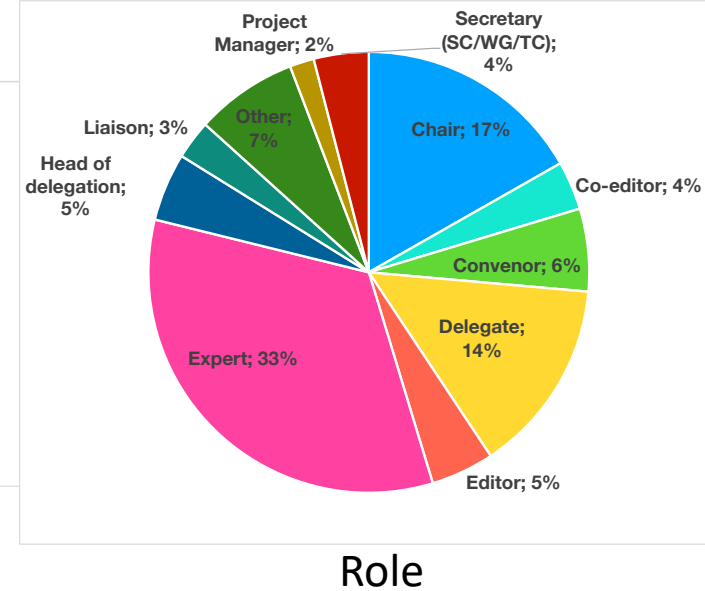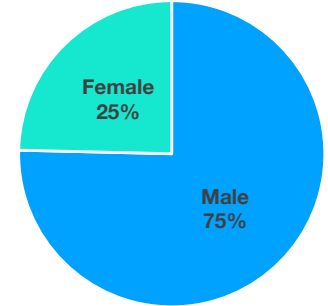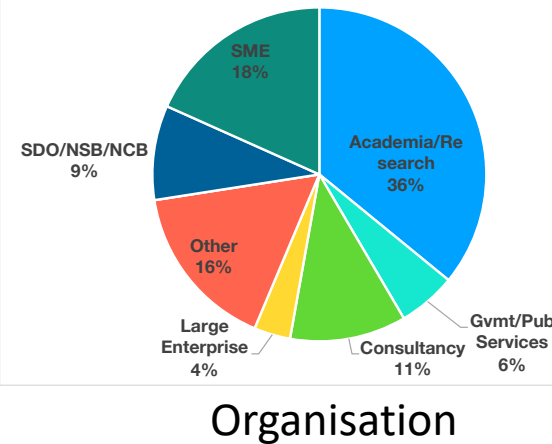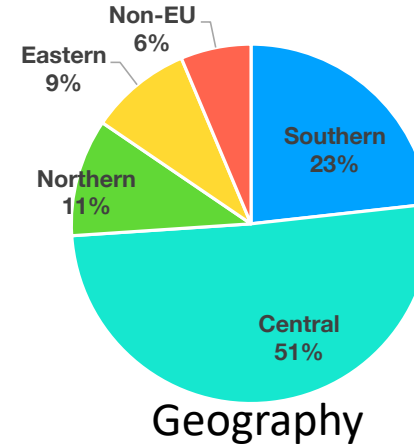- Environmental impact
- Clean energy

12% — Smart cities and circular economy in buildings
- Transportation
- Infrastructure
- Green buildings
- Circular economy in the construction…

(x-axis: 0 50 100 150 200 250 300)

Geography
- Non-EU 6%
- Eastern 9%
- Northern 11%
- Southern 23%
- Central 51%

Gender
- Female 25%
- Male 75%

Organisation
- SME 18%
- SDO/NSB/NCB 9%
- Academia/Research 36%
- Other 16%
- Large Enterprise 4%
- Consultancy 11%
- Gvmt/Pub Services 6%

Role
- Project Manager; 2%
- Secretary (SC/WG/TC); 4%
- Chair; 17%
- Co-editor; 4%
- Convenor; 6%
- Liaison; 3%
- Other; 7%
- Head of delegation; 5%
- Delegate; 14%
- Expert; 33%
- Editor; 5%

Experts selected for 59 services to date | ETSI, NSB, ISO prevalent SDOs
25% Female | 33% "Experts"| 51% Central EU

Types of support to projects

- Propose new standardisation items to a Technical Committee
- Influence processes and outcomes of standardisation
- Identify needs for new / revised standards
- Support to engage in standardisation as an observer or participant
- Select relevant standardisation organisations to engage with
- Guidance in developing a standardisation strategy for the project
- Synchronise objectives to consensus- and time- driven standards process
- Analyse standardisation potential and project "readiness level"
- Search and select appropriate standards for adoption
- Information on the standardisation landscape in a certain technical field
- Choose appropriate types of standardisation for an R&I project
- Understand relations between standards and regulations
- Understand the basics on standardisation including basic terms

Some examples to date

- One-to-one/small group meetings
- Engagement with entire consortium
  - Presentation of standardization within a specific topic for entire consortium
  - Workshop with entire consortium
  - Workshop with MSCA project to 15 Phd students
- Document/Deliverable input
  - Standards landscape
  - Standards strategy/plan
- Practical expertise
  - meeting structure, how to give input to standards, how decisions are made in committees, how to propose new work etc
  - Timing: Project vs WG timeline
- Knowledge on standards and regulation (e.g. mandates and harmonized standards)

First Open call report (D2.2) and Standards Impact report (D4.2) for submission in March 2023

How to build expertise in standardisation

Focus**: Experience** (standardisation experts, researchers) – interviews, case studies, workshops

Focus: **Practice** (SDOs, standardisation professionals)

STANDARDISATION TRAINING ACADEMY

HSbooster.eu

Focus: **Basics** theory background (**academia + SDOs**)

HSBooster.EU Training packages

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

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

COURSE ADVANCED 2
Standardization experts involved in Critical standardisation areas
1. The state of the art in specific areas of standardisation
2. How to make an impact in standardization

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 proper standard?
4. How to participate in developing standards in consortia?
5. Standardisation development and setting processes in SDOs

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 BEGINNER 1
1. Why do researchers need standards?
2. Standardization, standards, and related documents
3. Types of standardization
4. Classifications of standards
5. Users of standards
6. Benefits of using standards and participating in the standards development
7. Standardization history
8. Quality Infrastructure
9. Conformity assessment

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

Specific context
General and specific
General context
Levels of generality

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

Experience
Skills
Knowledge

Call for Standardisation trainers to join our pool of experts| Academy launch in March 2023
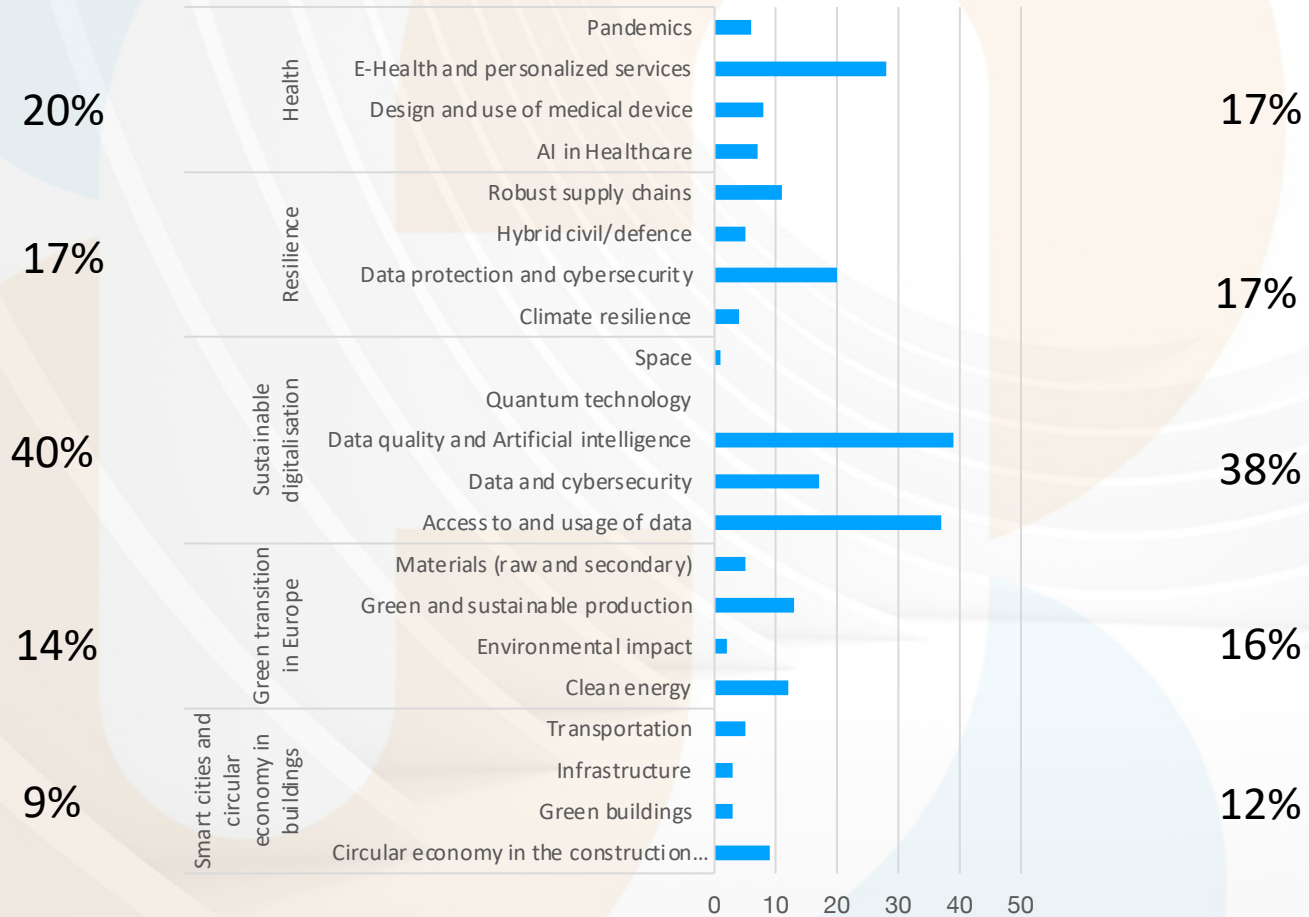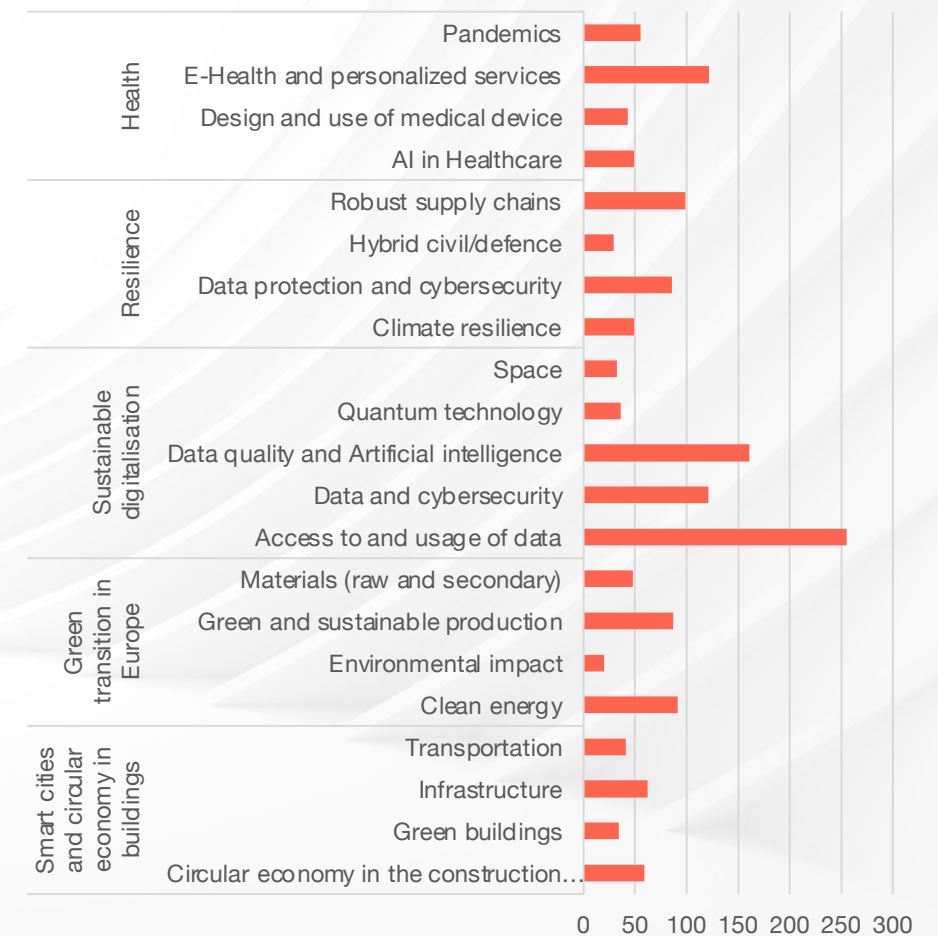
Thank-you

Ray Walshe

Ray.Walshe@dcu.ie

www.hsbooster.eu | @HSboosterEU

Project vs Experts - Open call topics

General alignment on topics between experts and project applications
Where suitable experts not found, direct contact to relevant SDO will take place

13

What is expected

Meetings and timeline

- The service consists of minimum 2 and up to 4 meetings with your assigned project, to be carried out over a period of maximum 3 months. The expert is in charge of scheduling the meetings with the project

- The two compulsory meetings are:
  - First Meeting at the start of the service to discuss needs and expectations
  - Final Meeting at the end of the service to comment on the activities carried out and suggest a future strategy

- The optional meetings are:
  - Meetings between those two that you may need to formulate better your advice, gather additional information or investigate particular aspects that may be helpful for your reporting
  - At the end of the first meeting you will be asked to confirm if you need one or more additional meetings before providing your advice on the activities to perform
  - Dependent on project request

Activities and Outputs

- Prepare before the meeting with your project (information will be available on the platform)

- Use your first meeting to understand the project's standardisation needs

- Identify standards in the research field of the project

- Suggest relevant committees for the project to contact and/or facilitate contact, if possible

- Provide advice on specific suggested actions (the online report lists some options)

- Guide the project towards the next steps and suggest a strategy to move forward after the service (typically during the last call).

- Fill in an online activity report in all its sections by the end of the service. This is mandatory for the service to be considered completed and paid to you.

- Fill in an evaluation survey at the end of your service but provide us early feedback on your experience so we can support you at our best