



#### Manufacturing Partnership Days

8<sup>th</sup> May 2024

#### Rita Bola, EWF



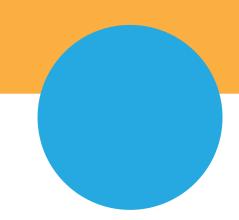
This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101070229 – STAND4EU



- Project overview
- Identification of Obstacles
- Insights from Surveys
- Insights from Interviews
- Development of Remedies
- General Recommendations
- Collaborative Platform
- Future Work







#### Overview





Addressing the barriers to innovation and standardisation between research and industry by:

- Fostering standardisation as a mean of knowledge valorisation
- Identifying more agile approaches for standards setting processes
- Ensure standards facilitate the entry into the market of innovative solutions





EWF Fraunhofer Standards Standards CHALMERS StemENS



# **Identification of Obstacles**

Comprehensive online surveys were conducted across national, European and international levels across four technological domains:

- Additive Manufacturing
- Welding
- Smart Manufacturing & Al
- Circular Economy

Lack of resources and funding

Time-consuming and complex

Lack of expertise

Low development speed

Adoption and training

Poor quality of a standard

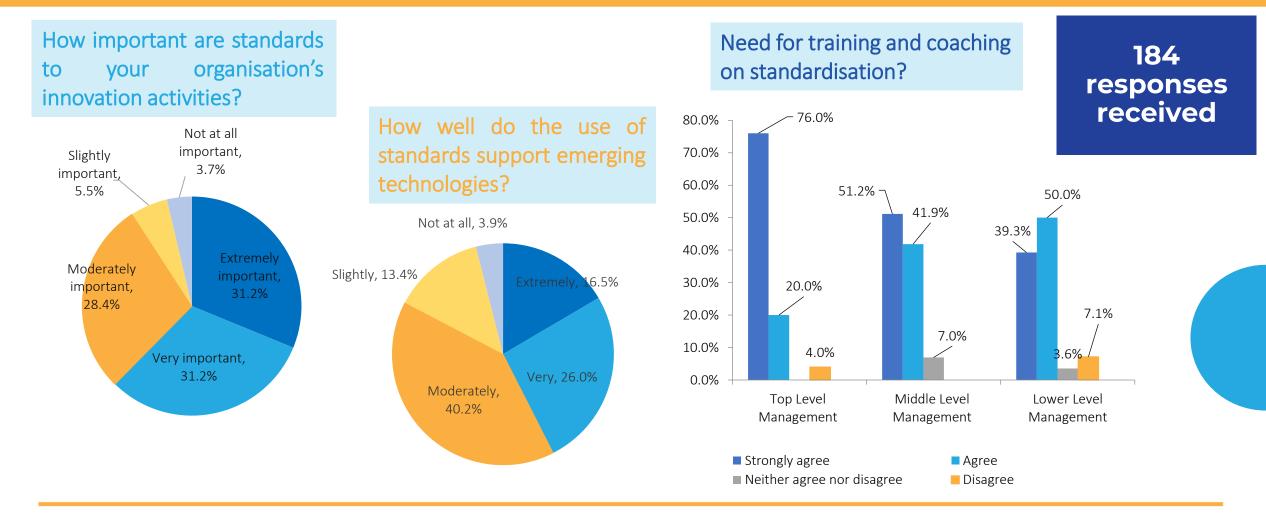
More than 180 responses were gathered and 45 interviews were conducted. The collected data was analysed with descriptive statistical methods.







### **Insights from Surveys**



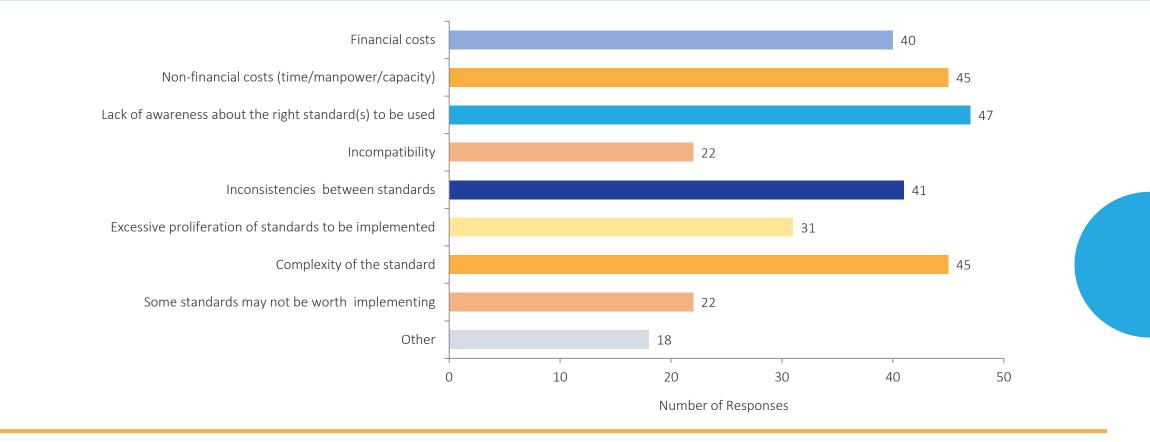


This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101070229 – STAND4EU EWF Raunhofer Standards Withersity CHALMERS STEMENS



### **Insights from Surveys**

#### Obstacles encountered by organisations while implementing or using standards:





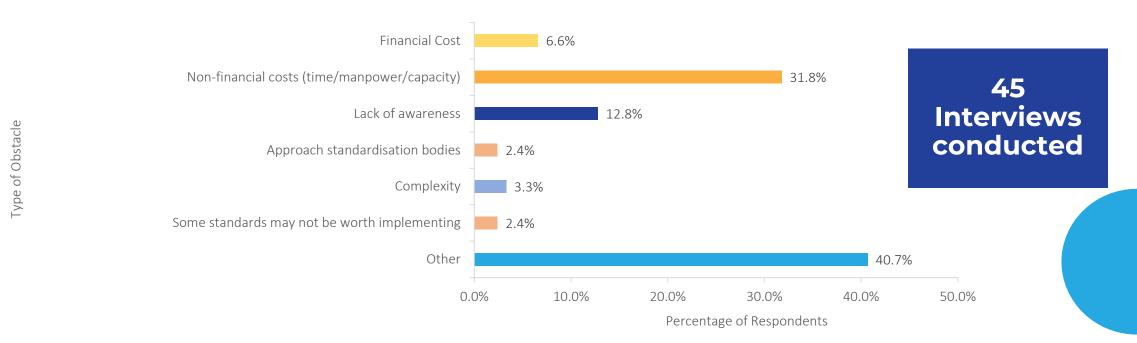
This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101070229 – STAND4EU





### **Insights from Interviews**

#### Obstacles encountered by organisations during the standardisation development life cycle (SDL) phases:



\*Other categories include: the amount of comments on standards drafts, keeping track of what is published, lack of access to all standards, making dialogue with other companies, gaining support from the community, getting a consensus during the voting process, the difficulty of developing a standard in a language they are not native in, finding the correct project leader, and the lack of marketing.

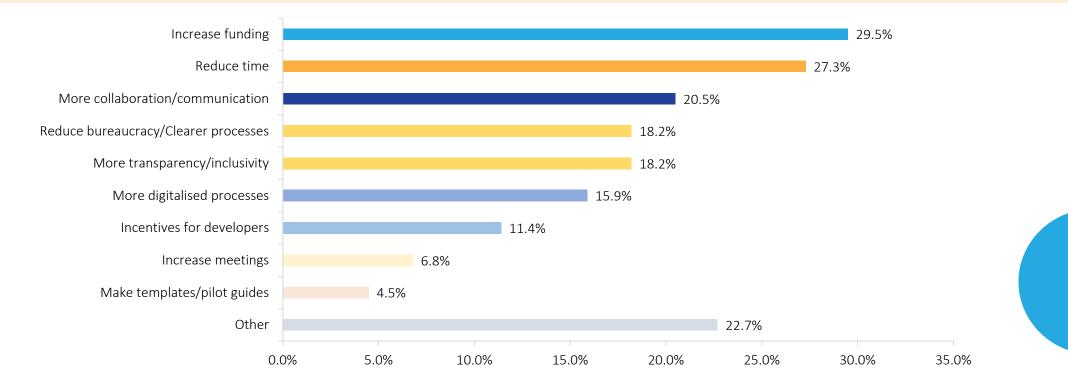






### **Insights from Interviews**

#### Improvements suggested in the standardisation process:



\*Examples of other improvements: Developing standards to motivate consumers to use a product, publishing standards in a minimum viable form and updating them later, making a platform to find standards easier, avoiding duplication of work through information-sharing across projects, aligning standards with values of the civil society, creating a body to write routine reports on standardisation, and creating machine-readable systemic standards.







The insights gathered from the surveys, interviews and validation workshops allowed STAND4EU to formulate the following policy recommendations for different groups of stakeholders.

... for SMEs

- SMEs should assign internal responsibilities to cover and address standardisation:
  - For personnel development
  - To improve the work within the projects and the impact of their results on the standardisation groups, considering the demonstrated growing impact on the surveyed company activities.
- SMEs should attend available trainings to build up their own standardisation and sustainability experts.







The insights gathered from the surveys, interviews and validation workshops allowed STAND4EU to formulate the following policy recommendations for different groups of stakeholders.

... for Policy Makers and the European Commission

- Development of a Lean Standard Development Process for EU standards for the engagement of different stakeholders in standardisation.
- Creation of a dedicated service to support and encourage SMEs to adopt standards, within the European Digital Innovation Hubs (E-DIHs):
  - Either as a training service or as standardisation test cases







The insights gathered from the surveys, interviews and validation workshops allowed STAND4EU to formulate the following policy recommendations for different groups of stakeholders.

... for Policy Makers and the European Commission

- Clear description and guidance of what is expected from European Research Projects concerning contributions to standardisation.
- New funding opportunities to promote and value the involvement of organisations in standardisation.
- Strategies to inform and create awareness to standards to young professionals and the new generation of researchers.







The insights gathered from the surveys, interviews and validation workshops allowed STAND4EU to formulate the following policy recommendations for different groups of stakeholders.

- ... for Standardisation Development Organisations (SDO)
- Support to industry and standardisation experts to participate in standardisation events
- Promote an easier contact between SME's and SDOs to ensure an easier contribution to standards for experts and SMEs not involved in the standardisation committees:
  Advantage of digital tools should be taken, providing an online open comment section or an easier and quicker on-boarding process







The insights gathered from the surveys, interviews and validation workshops allowed STAND4EU to formulate the following policy recommendations for different groups of stakeholders.

... for Standardisation Development Organisations (SDO)

- Enable independent access to consulting services for SMEs to get an overview on ongoing activities and support on dealing with existing standardisation needs.
- Reduce the complexity of some standards by creating a guide for implementation that reduces or deconstruct the standards, clarifying all the dependencies for SMEs, making the standards adoption more agile.







The insights gathered from the surveys, interviews and validation workshops allowed STAND4EU to formulate the following policy recommendations for different groups of stakeholders.

#### ... for Research Projects

- Project consortia to adequately plan standardisation activities while preparing proposals:
  - O It may include the establishment of the project into the STAND4EU portal
- Engagement of Universities and Research Centres into standardisation activities
- Ongoing engagement with standardisation activities:
  O Consider include partners such as industrial associations, that maintain continuous involvement with standardisation bodies.







#### **General Recommendations**

Updating existing systems to enhance reliability

Implementing a collaborative approach between stakeholders

Identifying more funding and resources

Using positive language for the implementation of standards via soft guidelines

Giving structure to the standardisation process via clear steps

Making standardisation part of academic curriculums and merit

Including younger people in the standardisation process

Creating a centralised database to effectively manage standardisation efforts

Increasing awareness, visibility and accessibility of standards

Providing timely updates and release

Transforming standardisation projects into paid positions, not only volunteer roles

Sharing insights from standardisation projects beyond project members







### **Collaborative Platform**

#### Boosting the Exploitation of Standardisation Inputs from European Projects

Standards help to bridge the gap between **research** and **market** and **increase** the probabilities of market up-take of technological innovations.

ABOUT THE PROJECT

Join us at portal.stand4eu.eu



You can register by sending an email to <u>info@stand4eu.eu</u>



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101070229 – STAND4EU





#### **Current and Future Work**

The STAND4EU project is currently working on:

- Preparing a training guide aimed for researchers with details on the standardisation committees of the project domains
- The full integration of the interaction Q&A service and other functionalities for the STAND4EU portal
- Validating and clustering the recommendations developed for the future of standardisation







# **Coaching for your Project**

- External Coaching Programmes on standardisation are available for recent EU research projects.
- Each programme is delivered in a workshop format (online, in-person or combination of both)

**OBJECTIVE:** Projects to be aware from the beginning on how to best connect standardisation & research, enabling research generators to implement new methodologies, tools, techniques and approaches to strengthen their standardisation activities and engagement.

Contact us if you are interested in our free coaching service! Please reach us at info@stand4eu.eu











#### **Thank you!**

Rita Bola <u>rgbola@ewf.be</u>



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101070229 – STAND4EU

