

# MEETING STANDARDS

2023 Partner Event



## WORKSHOP

## BOTTLENECKS AND REMEDIATION PLAN

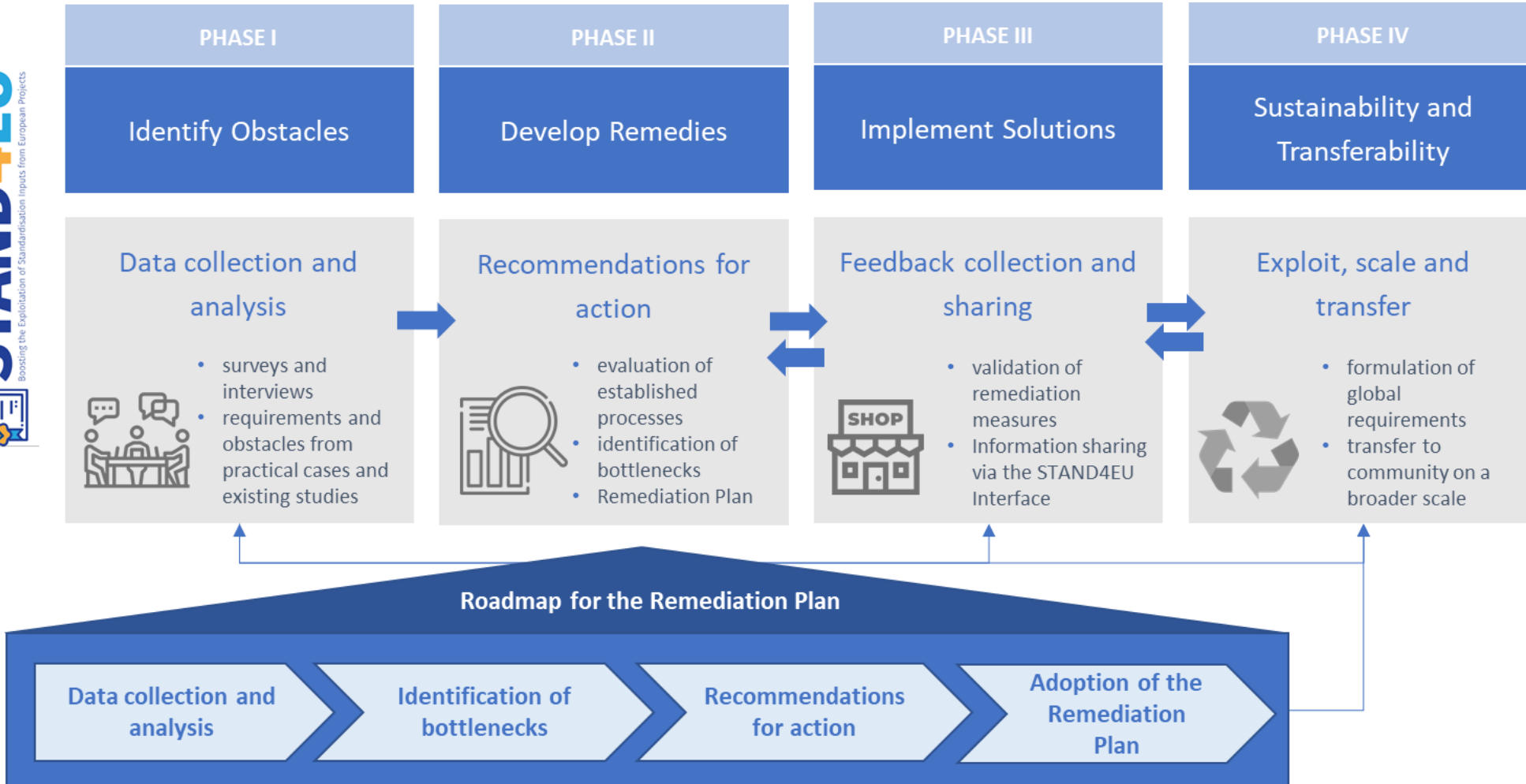
Dr. Ahmad Issa

An initiative of SBS



Co-financed by the European Union and EFTA

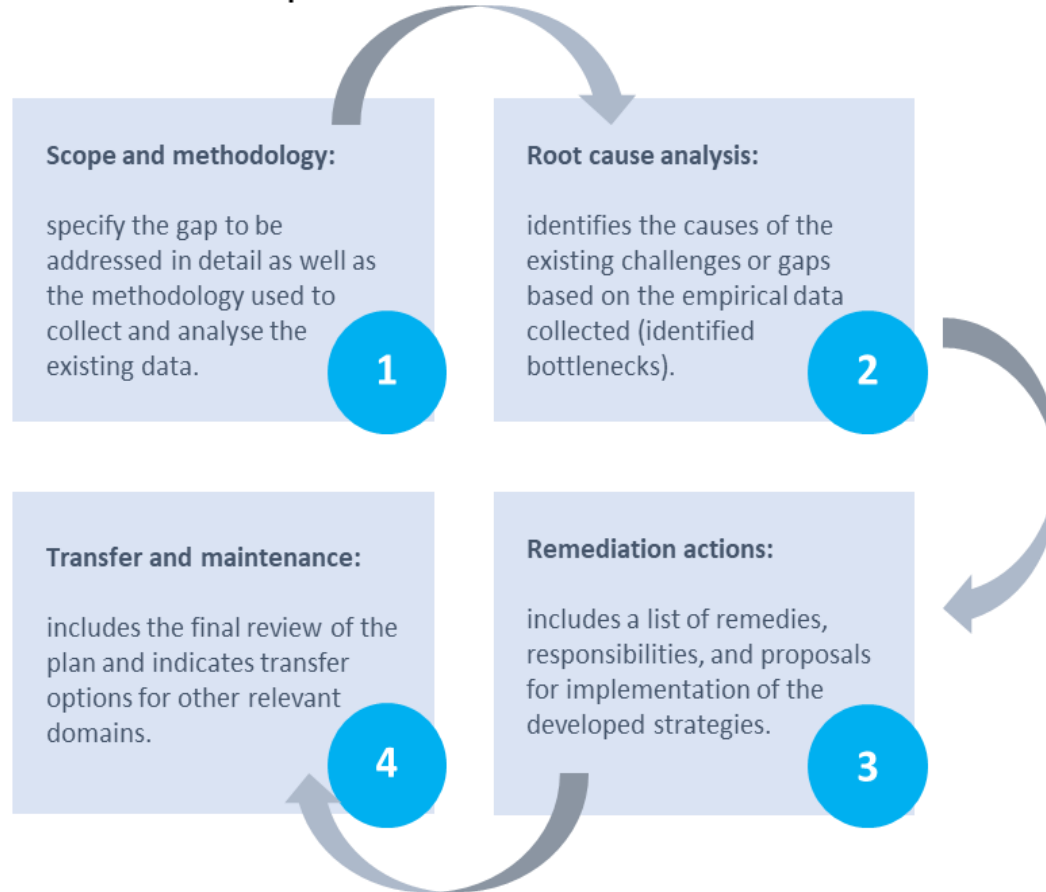
# The Methodology



# Development of Remediation Action Plan

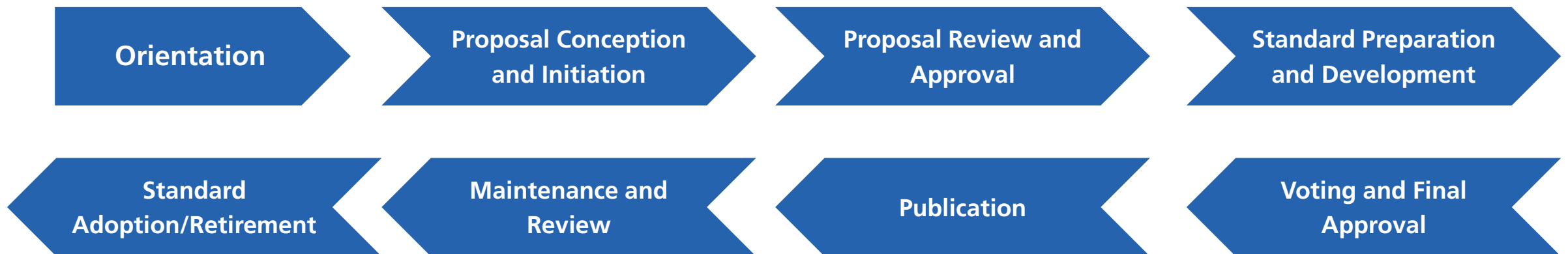


## Remediation plan

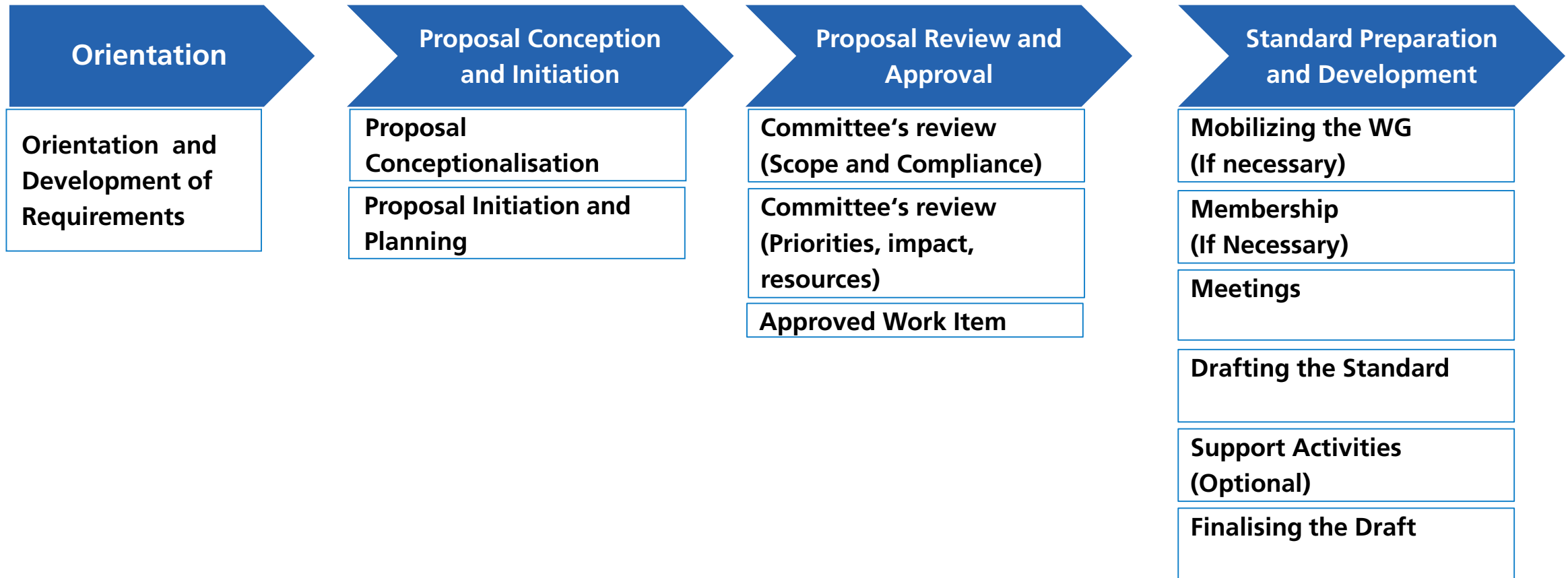


# The analysis of the Standardisation Development Lifecycle - Phases

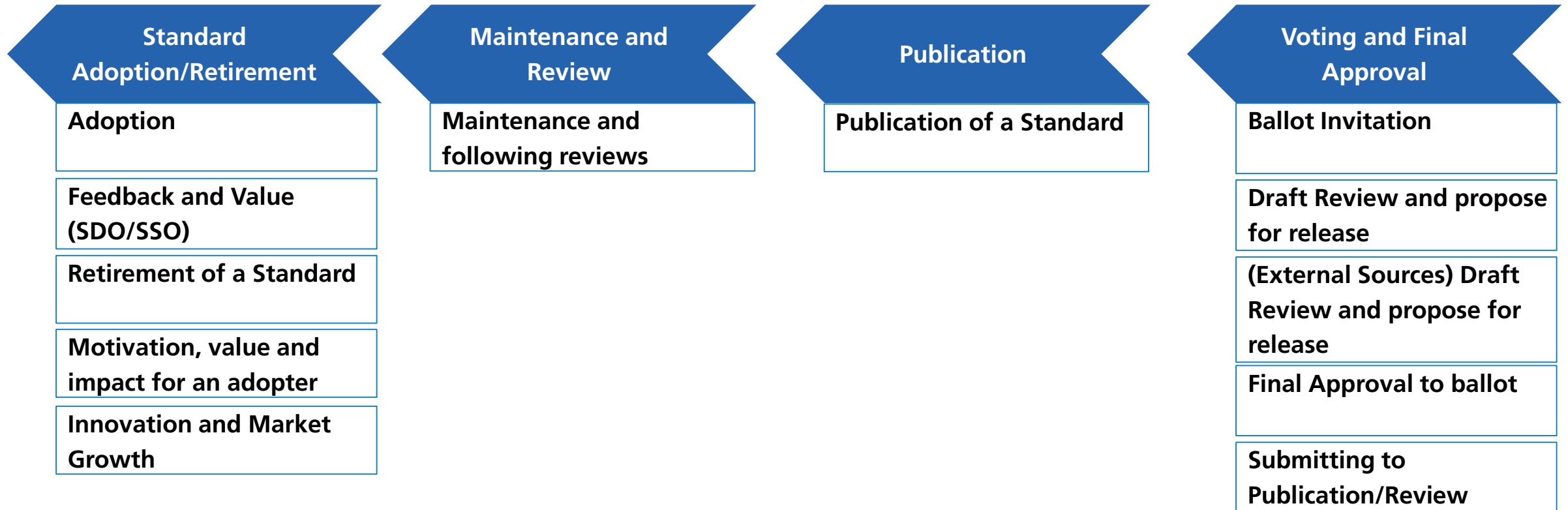
- 21 SDLM were analysed, with 4 Key Requirements:
  - Common SDLMs of national, European and international
  - Common SDLMs from research projects
  - Common SDLMs based on the four technological domains formulated in STAND4EU
  - Non-conventional or standout SDLMs



# The analysis of the Standardisation Development Lifecycle – Detailed Steps



# The analysis of the Standardisation Development Lifecycle – Detailed Steps



# The Identification of Bottlenecks

---

- **Lack of Resources and Funding**
- **Lack of time**
- **Poor Quality of a Standard**
- **Lack of expertise**
  - **Poor involvement of experts**
- **Low coordination and lack of processes**
- **Complexity of a process and bureaucracy**
  - **Low development speed**
- **Complexity of scope and landscape**
- **Low motivation and interest**
- **Poor transferability, low support and missing education propositions**

# Bottlenecks - Examples

---

- **Lack of resources and funding**

- There is an issue in recruiting experts in companies - especially for SMEs - to develop the standard because it is a voluntary work. This puts a burden on the companies, who would like to contribute but lack the resources.
- (Cost of standards) one possible challenge would be the cost of standards from specific standardisation development organisations.

- **Lack of Expertise**

- Companies have shortage of experts and they need their experts to develop their products and it's very difficult to get resources of experts for standardisation projects



# Bottlenecks - Examples

---

- **Low Development Speed**

- The process of maintaining a standard is often too slow. Possible reasons:
  - It is usually a challenge to get feedback from users to improve the document.
  - The tendency to delay the publication and collect more revisions to reduce the number of versions.
  - on the other hand, too many revisions/versions put pressure on the adopters/users from the time and resources point of view.

- **Time-consuming and Complex**

- Getting in touch with standardization bodies needs to be improved

# Bottlenecks - Examples

---

- **Adoption and Training**
  - Some standards are very complex since they are referring to other standards, which in turn refer to other standards and so on. This makes it harder for companies to adopt standards.
- **Poor quality of a standard**
  - The quality of the standards needs to be better checked before publication
  - Standards adoption is influenced by the trust of regulated industry in the new technology. E.g. if standards are revised too often and change too much, the industry will not have the confidence that it is stable enough and good enough for implementation.

# Recommendations - Examples

- The number of development stages must be reduced, and the overall process should become more agile
- Bureaucratic activities and/or procedures must be eliminated: E.g. getting in touch with standard bodies must become more compatible to the “real-life” of SMEs
- It is recommended to make it easier for SME to contact SDOs and/or contribute to standards
  - It is recommended to take advantage of digital tools to get in touch with an SDO
  - Provide an online open comment section or an easier/quicker onboarding process to get contribution by experts/SMEs "outside" the committee.
- It is recommended to provide independent access to consulting services (e.g. inside the SDO) for SMEs to get an overview on ongoing activities

# Recommendations - Examples

---

- It is recommended to provide more trainings and support on how to create and develop standards
  - E.g., ASTM has a centre of excellence that aims to create and develop standards in a faster and more direct way. CEN has seminars to discuss issues in specific areas.
- It is recommended to implement a "Step-by-step" approach towards adopting a standard in a new type of technology. This may save resources at an early stage of adoption
- It is recommended either to simplify complex standards or to create a guide for implementation
  - This guide should clarify all the dependencies in order to make it easier for SMES to adopt the standards
- It is recommended to provide best practices: e.g. A one stop shop (such as Stand4EU Platform) with links to existing best practices, especially for SME.

# Discussion

## Bottlenecks and Remedies

---

- Please rank these bottlenecks in terms of **Importance for SMEs** in general
  - **Lack of resources and funding**
  - **Lack of Expertise**
  - **Low Development Speed**
  - **Time-consuming and Complex**
  - **Adoption and Training**
  - **Poor quality of a standard**

# Discussion

## Bottlenecks and Remedies

---

- Please choose the top two bottlenecks in terms of **relevance** to your company/organisation
  - **Lack of resources and funding**
  - **Lack of Expertise**
  - **Low Development Speed**
  - **Time-consuming and Complex**
  - **Adoption and Training**
  - **Poor quality of a standard**

# Contact

---

**Dr. Ahmad Issa**

**Fraunhofer Institute of Manufacturing Engineering and Automation (IPA)**

**Tel. +49 711 970-1779**

**[Ahmad.Issa@ipa.fraunhofer.de](mailto:Ahmad.Issa@ipa.fraunhofer.de)**

Fraunhofer IPA  
Nobelstraße 12  
70569 Stuttgart  
Germany  
[www.ipa.fraunhofer.de](http://www.ipa.fraunhofer.de)



Fraunhofer Institute for Manufacturing  
Engineering and Automation IPA

# Discussion

## Recommendations and Remedies

---

### Conceptboard:

- Add new Bottlenecks (from your experience) (Using the **Red** post-it notes)
  - Or vote for the most important ones (Using the **Yellow** post-it notes)
- Add Recommendations as you see fit (Using **Green** post-it notes)
  - You can comment using the **Blue** post-it notes
  - Or vote for the most important ones (Using the **Yellow** post-it notes)