

standICT.eu Webinar

Women in ICT Standards

Olga MEYER, Fraunhofer IPA, 2023-07-04

Agenda

- **Overview of standardization activities and involvement areas**
- **Projects' insights**
 - **PERFoRM, QU4LITY, ConnectedFactories** contributing to European standardization
 - **InterOpera** contribution to the digital interoperability for Industrie 4.0
 - **STAND4EU** contributing to the exploitation of standardization inputs
- **Is standardization only men's business?**
 - Fraunhofer model for standardization activities and networking
 - Industrie 4.0 standardization: personal experience

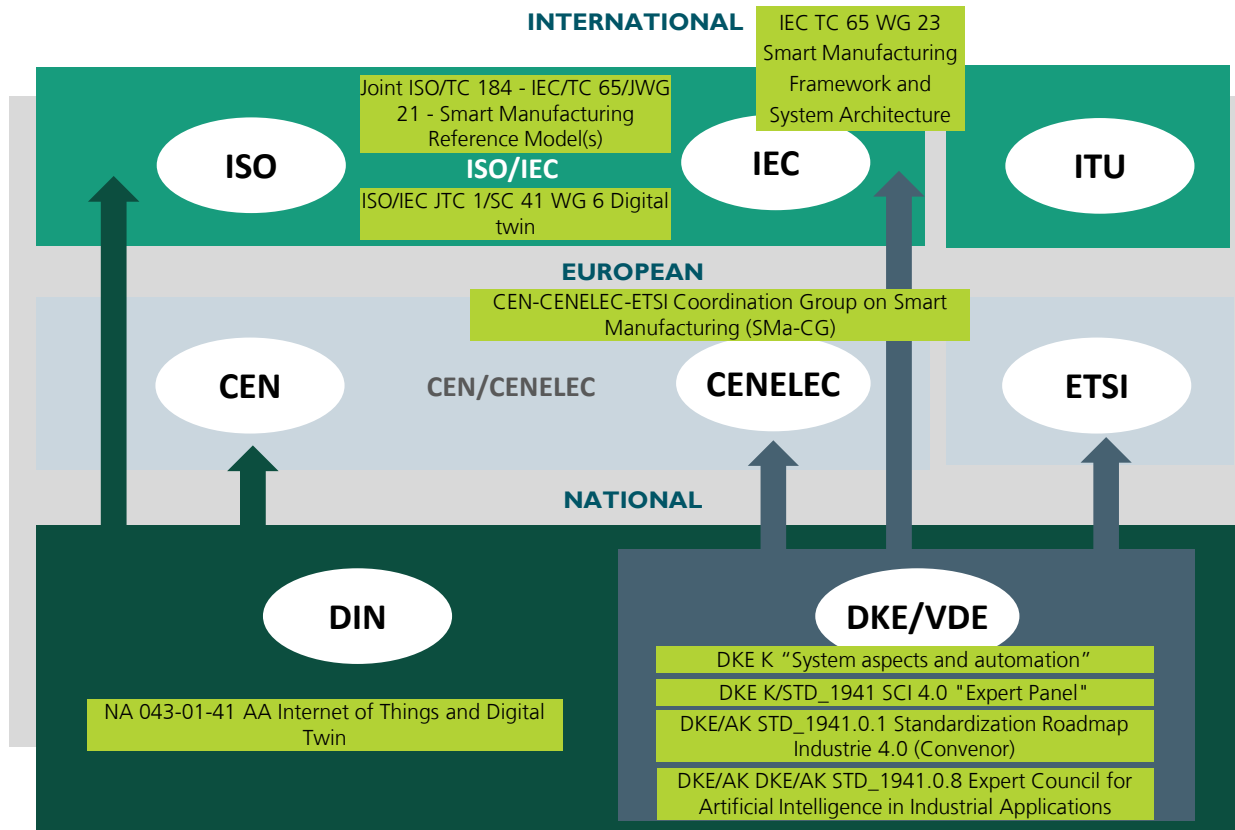


Leader of the Group „Interoperability for Digital Production“
... at Competence Center DiglTools
... at Fraunhofer Institute for Manufacturing Engineering and Automation IPA
... in Stuttgart, Germany

Contributing to the core standardization activities for ICT standards

... at national, European and international level

Contributing to digital twin standards



IDTA

PLATTFORM **INDUSTRIE 4.0**

active member

Industrial Digital Twin Association (IDTA)

STANDARDIZATION COUNCIL **INDUSTRIE 4.0**

convenor

German Standardization Roadmap Industrie 4.0

Download (DE/EN version): <https://www.sci40.com/german/normungroadmap/>



InterOpera

Development of digital twin standards for Industry 4.0

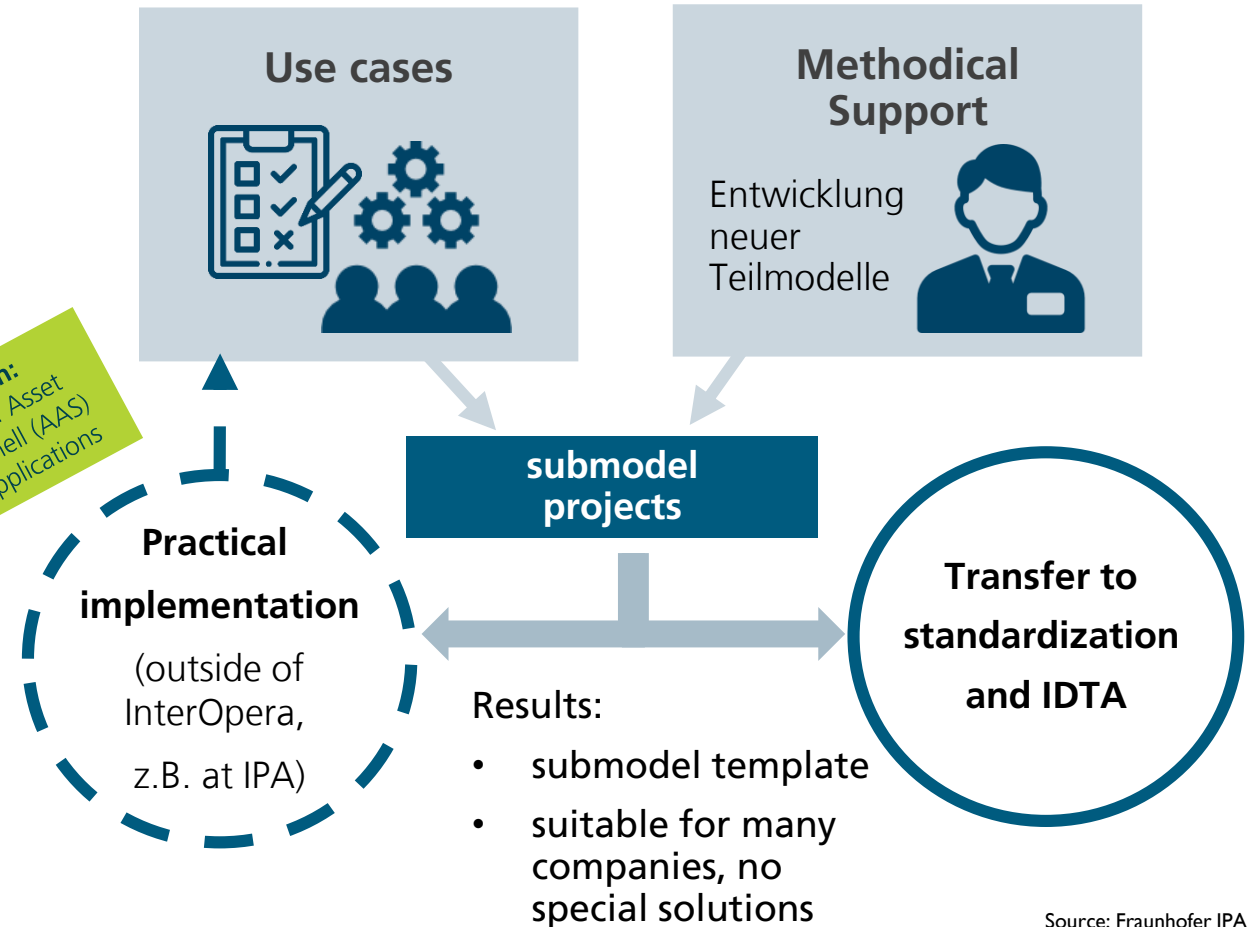


Standardized information models for digital twins

- InterOpera addresses digital interoperability in collaborative value networks of Industry 4.0
- develops ca. 30 standardized AAS submodels / specifications together with industry, research and standardization
- and transfers these to standardization and IDTA



Work based on:
IEC 63278 series: Asset
administration shell (AAS)
for industrial applications



Source: Fraunhofer IPA

PRIORITIES FOR EUROPEAN STANDARDIZATION

STANDARDS

Robust future solutions and sustainable development

ECOSYSTEMS

Quick adoption and collaboration

LARGE SCALE PILOTS

Labs and test beds

PLATFORMS

Interoperability frameworks and reference architectures

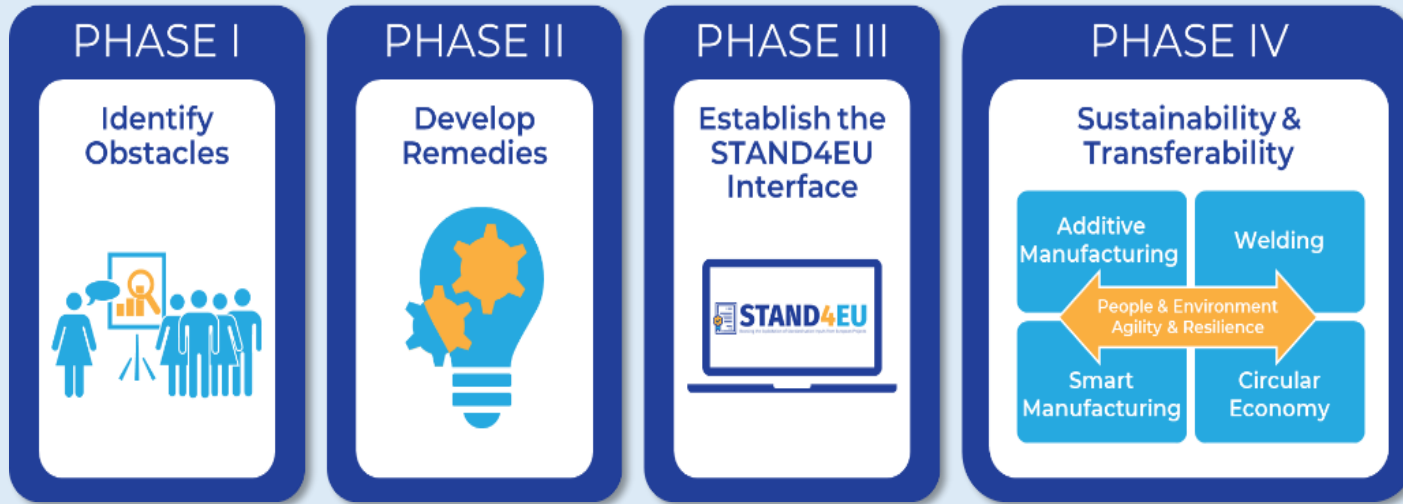


STAND4EU

Boosting the Exploitation of Standardisation Inputs from European Projects

HORIZON-CL4-2021-HUMAN-01-18:Fostering standardisation to boost European industry's competitiveness | Start on 01/09/2022 for 24 months

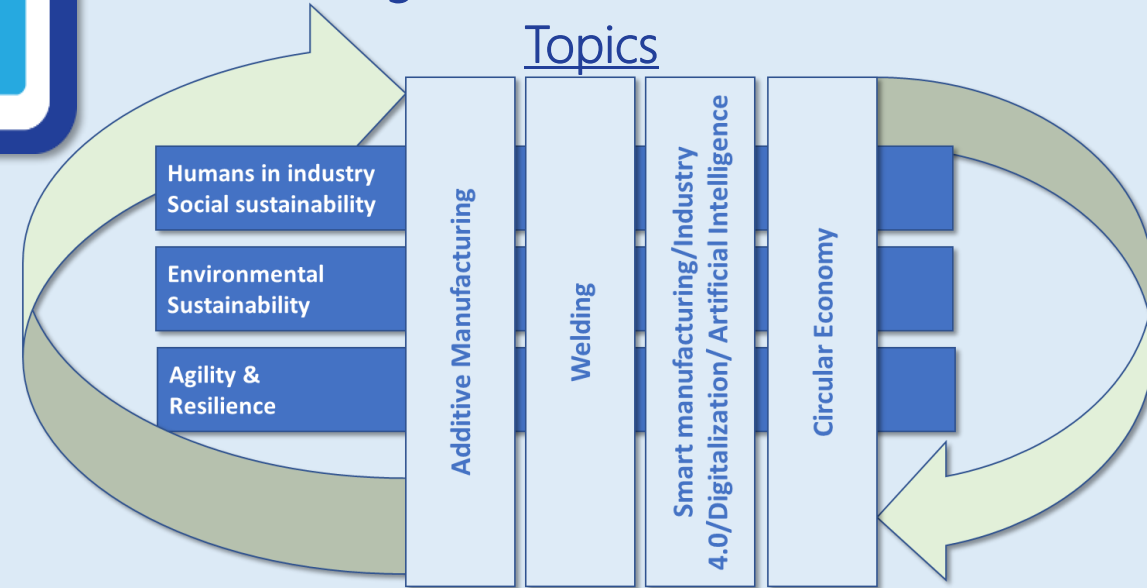
Phases



Expected Results

- ✓ Standardisation Obstacles Report
- ✓ Remediation Plan with at least 10 recommendations
- ✓ Coaching Programme delivered to R&I projects
- ✓ Training Guide addressing standardisation committees
- ✓ STAND4EU Interface

Technological Domains & Transversal



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



Currently analyzing bottlenecks in the standards development processes

Bottlenecks categories in discussion



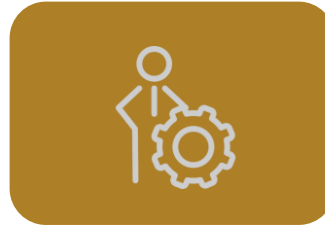
Lack of resources and funding



Lack of time



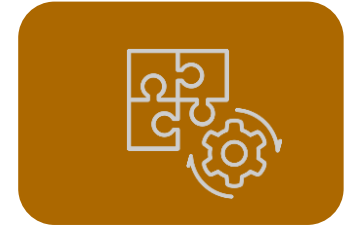
Poor quality of a standard



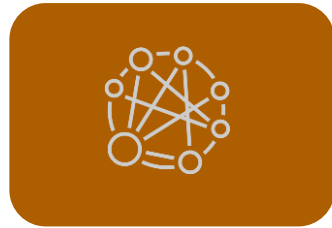
Lack of expertise



Low coordination and lack of processes



Complexity of a process and bureaucracy



Complexity of scope and landscape



Poor involvement of experts



Low motivation and interest



Poor transferability, low support and missing education propositions



Low development speed



Lack of consensus and conflict of interests

Contact

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Sustainable. Personalized. Smart.