EUROPEAN BIG DATA VALUE FORUM

Technology, Platforms, and impact

Digital Twins Standardisation Landscape View

RAY WALSHE
Dublin City University

StandICT.eu 2023
ICT STANDARDISATION OBSERVATORY AND SUPPORT FACILITY IN EUROPE

PARTNERS

Trust-IT Services communicating to markets

DCU Ollscoil Chathair Bhaile Átha Cliath Dublin City University

AUSTRALO MARKETING LAB

EUOS EU Observatory for ICT Standardisation

ORGANISED BY:

BDV BIG DATA VALUE ASSOCIATION

IN COLLABORATION WITH:

European Commission

Plan4all

VSB TECHNICAL UNIVERSITY OF OSTRAVA | IT4INNOVATIONS NATIONAL SUPERCOMPUTING CENTER

UNDER THE AUSPICES OF:

EU2022.CZ

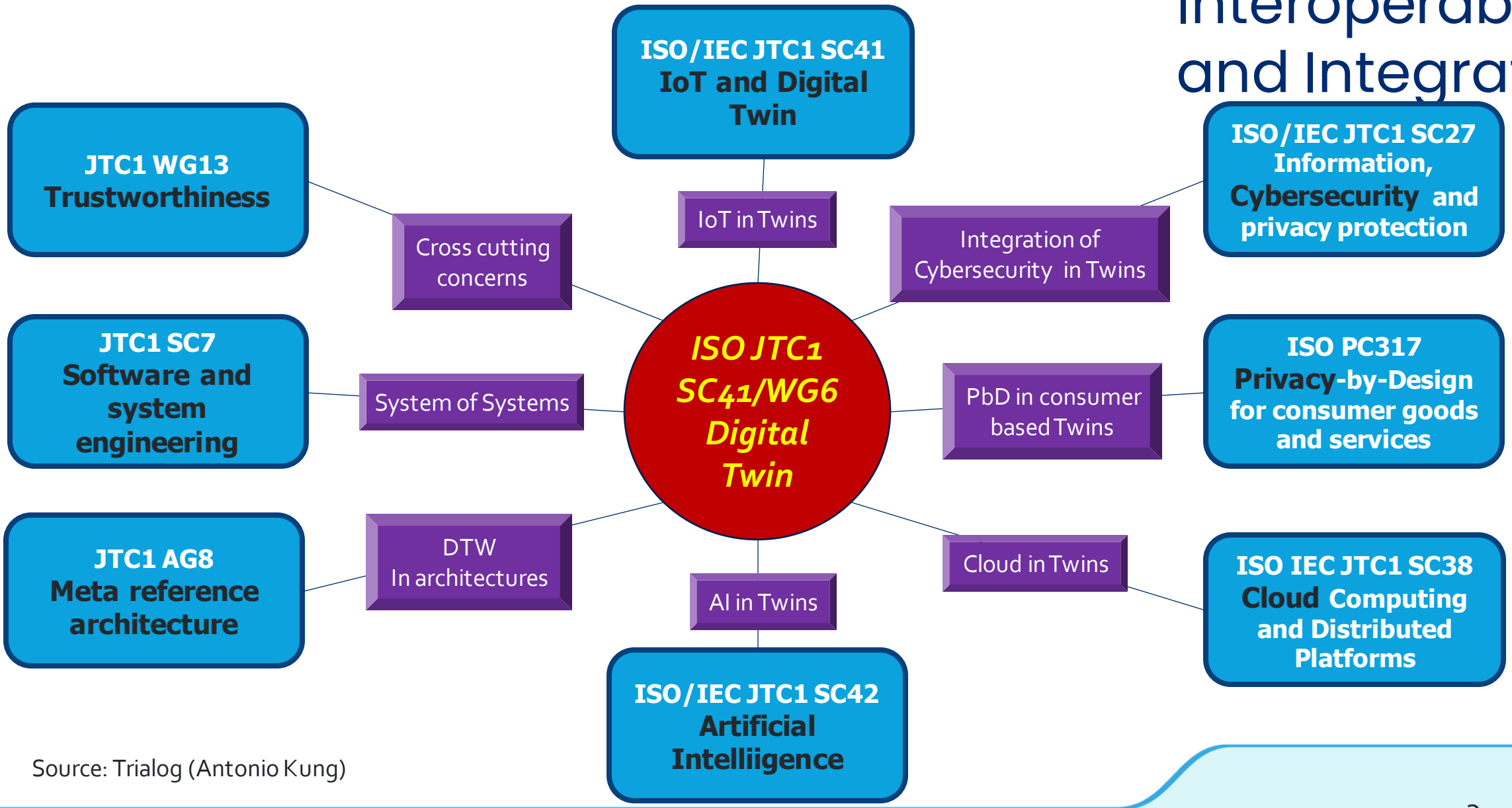
EUROPEAN BIG DATA VALUE FORUM

- Senior Researcher Emerging Technology Standards at **ADAPT Research Centre Dublin City University**
- Director of the **EU Observatory for ICT Standards**
- **EU-US Trade and Technology Council** working group on **ICT Standardisation**
- Chair of **StandICT2023.eu** Expert Advisory Group
- Chair of **HSBooster.eu** Expert Advisory Group
- **OECD ONE AI** Expert
- Ireland **Head of Delegation for IoT and Digital Twin**
- Chair of **EU Standards Expert Group in AI, Data and Robotics** (EUSEG-ADR)
- **ISO/IEC JTC1 SC42 AI Standards Editor 20547-3 Big Data**
- Project Coordinator **StandICT2026** (January 2023)

EU Observatory for ICT Standardisation

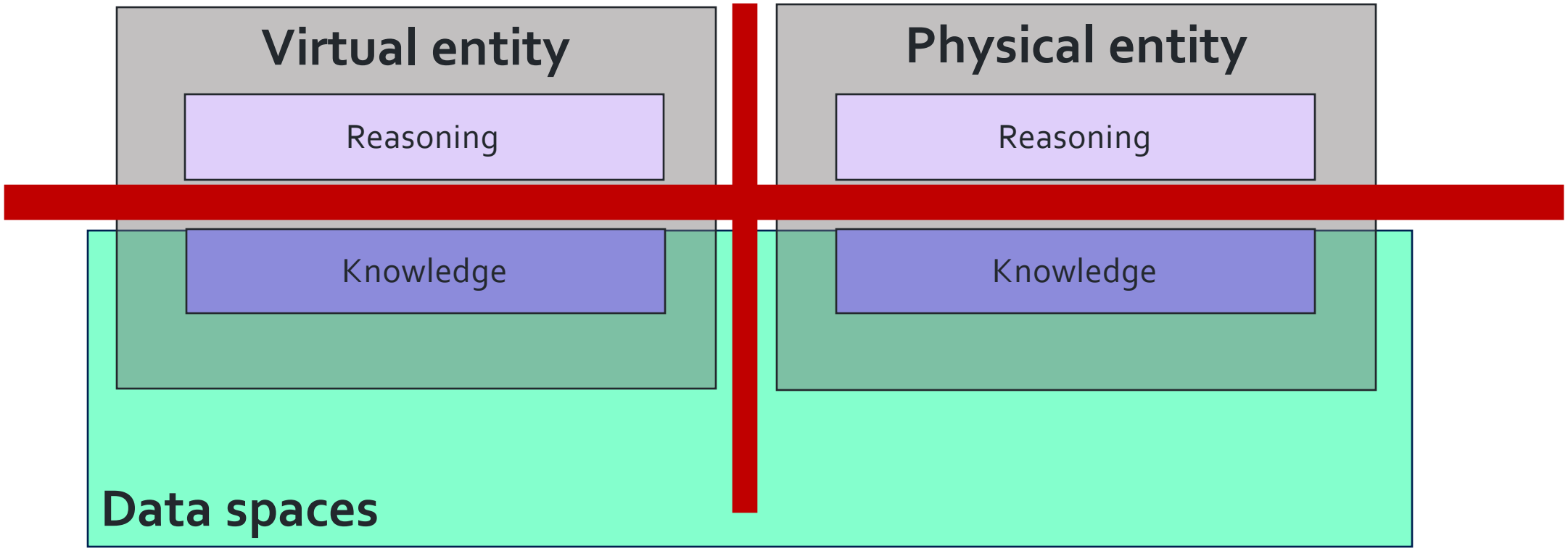
RAY WALSHE

IoT/Digital Twin Interoperability and Integration



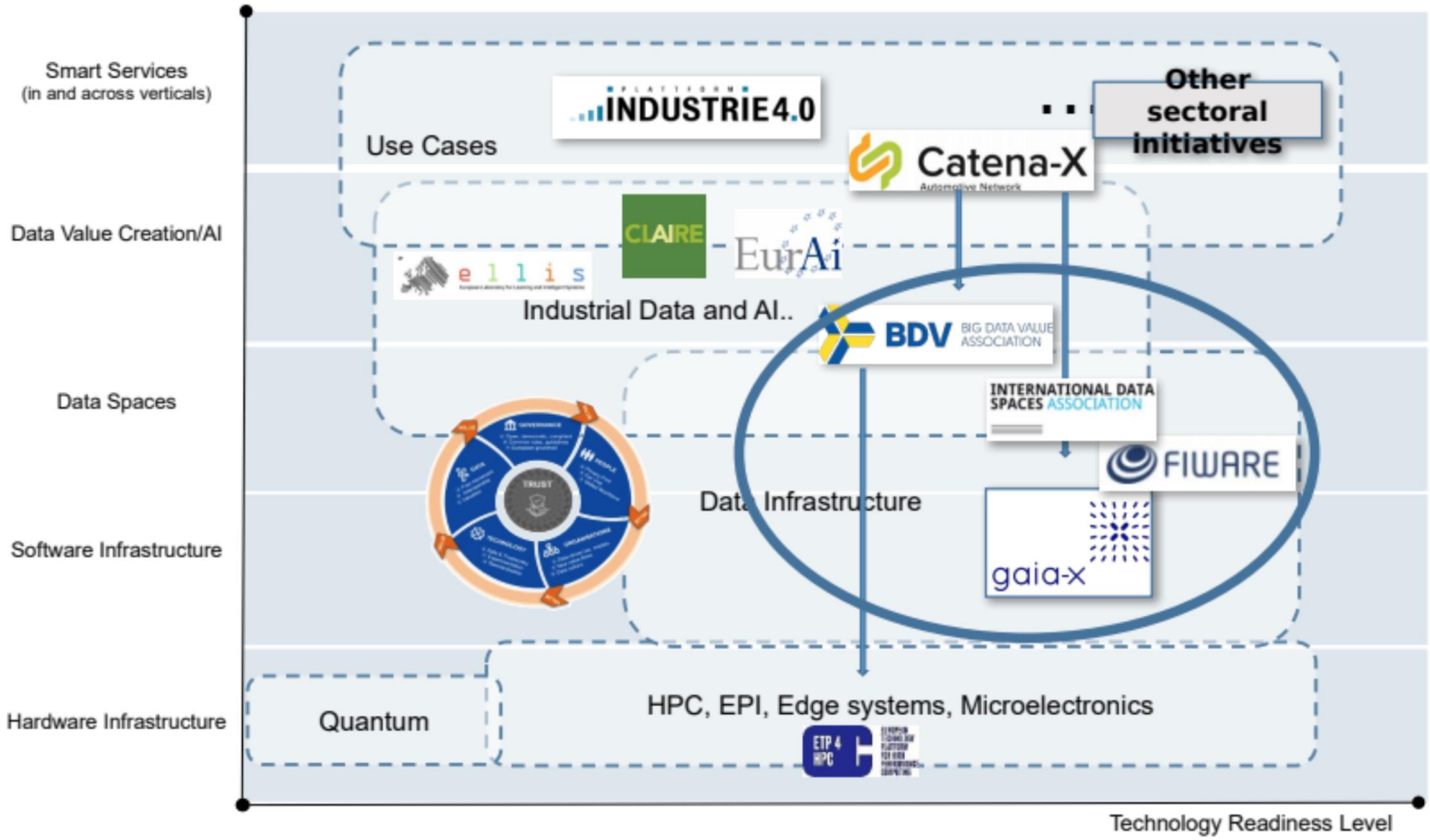
Source: Trialog (Antonio Kung)

Twin Integration with data spaces



DATA Spaces

- Data spaces initiative
  - IDSA | Gaia-X |European commission
- References
  - IDSA reference architecture
  - Gaia-X technical architecture
  - BDVA position papers – v1 and v2
    - Towards a European-Governed Data Sharing Space. Enabling data exchange and unlocking AI potential. April 2019
    - Towards a European-Governed Data Sharing Space. Enabling data exchange and unlocking AI potential. November 2020.
  - AIOTI strategic foresight
  - H2020 OpenDei support action: design principles for data spaces



European Commission Supporting ICT Standards

7 Open Calls launched around topics of Strategic Plan in the Horizon Europe framework Programme **8th Call closing November 7**

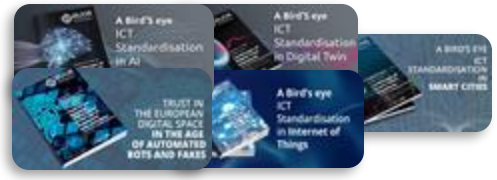
547 eligible applications received and independently evaluated (58 EPE members) ***2,238,174 EURO***

1 Grants Platform incorporating all online process from call publication to application, evaluation, reporting, and monitoring

8 Topical Webinars AI, Cybersecurity, Trusted Information EU ICT Policies, Education in Standards, Blockchain, **Women in Standards**

33 third-party events + 9 SDO meetings attended **16 MOUs signed with key players** & Synergies with **56** Stakeholders

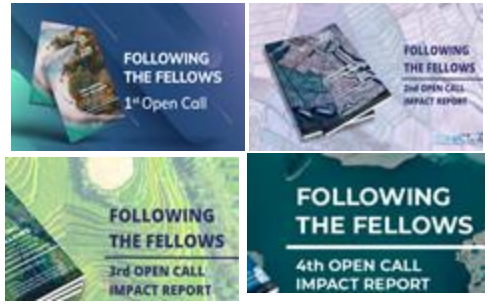
EUOS
EU Observatory for ICT Standardisation



EUOS launched in March 2021
12 TWGs working on key ICT domains to produce dedicated Landscape & Gap Analysis

5 Landscape Reports released on
AI + Smart City + Trusted Information + Digital Twin + IoT

Further Landscape & Gap Analysis
Reports in pipeline for 2022/2023 (Edge Computing, Cloud for Data-driven Policy management, Digital Product Passport, Robotics, Blockchain, Ontologies)



COMMUNITY

1561 registered users
3351 LinkedIn Followers
900+ Twitter Followers

20 Expert Advisory Group (EAG) members from European Commission, SDOs & Industry contributing to topics for OCs & TWGs

5 Impact Reports released to disseminate the concrete outputs of fellows funded under OCs #1, #2, #3 and #4 with
#5 in pipeline

StandICT2023 in Numbers

Adra-e
AI, Data and Robotics ecosystem

European Commission Supporting AI, Data and Robotics Standards

The Adra-e Outputs

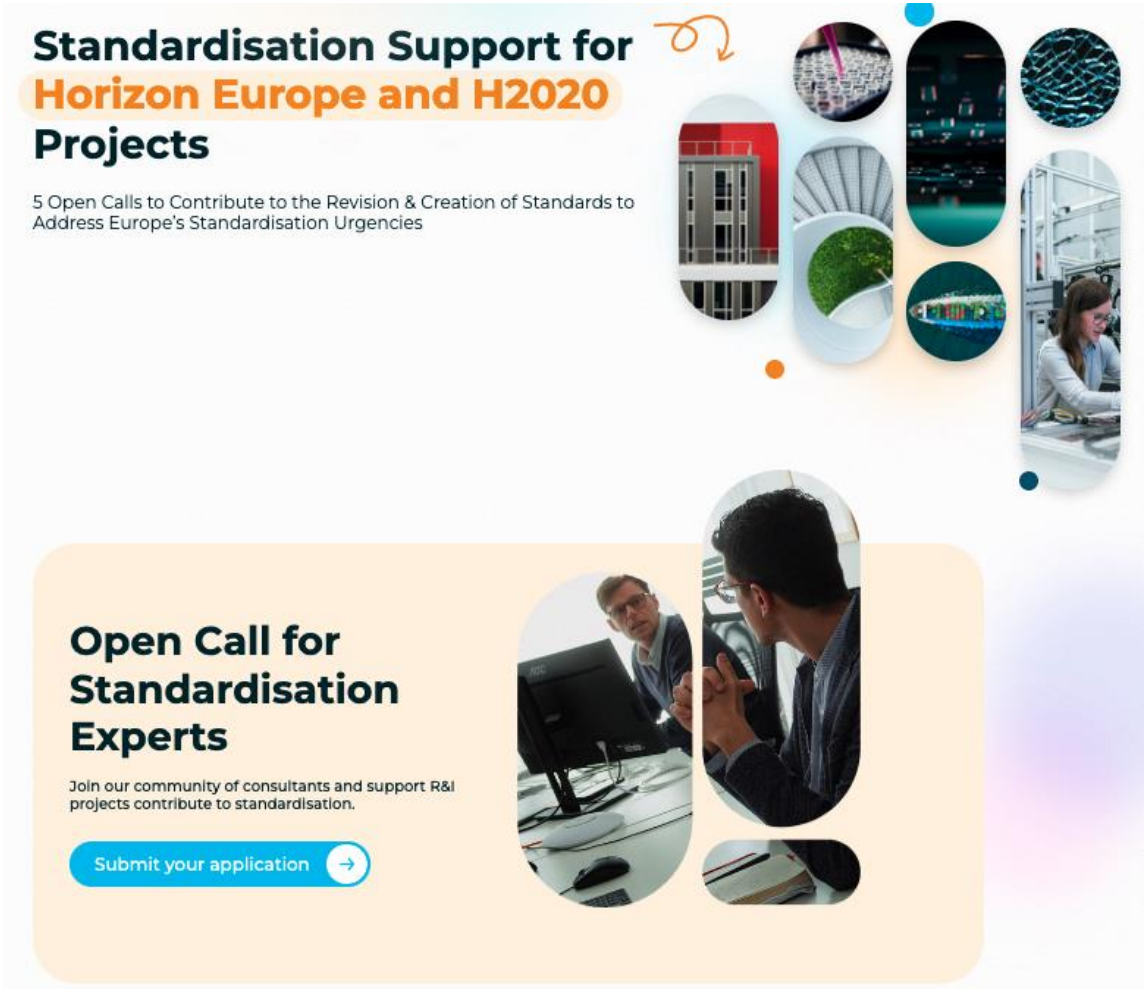
Services

- **ADR Observatory of standards:** online observatory of standards and standardisation activities, developed with a group of experts in the field.
- **ADR Cartography:** open repository of major European and national initiatives in the field of AI, Data and Robotics.
- **ADR Awareness Centre for Education and Outreach:** online repository for useful materials (cartographies, standards, and educational resources).
- **AI Trust Label:** tools to support the understanding of the potentialities, quality, performance and trustworthiness of AI technologies and applications.

HSbooster.eu
Horizon Standardisation Booster

European Commission Supporting Standards in EU Funded RTDI Projects

- **HSbooster.eu - Standardisation Booster for H2020 and Horizon Europe Research Results**
- Coordination & Support Action (101058391)
- April 2022 – March 2024
- Budget €2m
- 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).
- *"A new service for EU research projects that want to ensure that their results create real impact by contributing to standards development.* - Peter Droell, Director at the European Commission's Research and Innovation Unit
- Strong consortium with expertise and experience in standardisation, training and delivering EC Booster services



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

Thanks from

StandICT.eu 2023

ICT STANDARDISATION OBSERVATORY AND SUPPORT FACILITY IN EUROPE

Ray.Walshe@DCU.ie

To find out more visit:
standict.eu

Stay in touch on Twitter
@Stand_ICT

Join us on Linkedin
linkedin.com/in/standict