



**SUSTAINABLE
PLACES 2024**

23-25 September 2024

Luxembourg

LUXEMBOURG
INSTITUTE OF SCIENCE
AND TECHNOLOGY



R2M
RESEARCH TO MARKET
SOLUTION

ISLANDS

WORKSHOP

September 24th, h.16-17.30

CEN Workshop Agreement for Islands' Energy Transition

New Energy Solutions Optimised for Islands



EUROPEAN ISLANDS FACILITY

uni



www.sustainableplaces.eu





THE ROLE OF STANDARDIZATION IN R&D PROJECTS AND THE CWA PROCESS

Sustainable Places 2024 - Luxembourg

2024-09-24

Viviana Buscemi



UNI INNOVATION AND DEVELOPMENT DPT

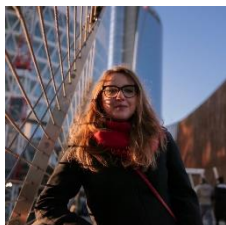
Research Project Managers



Cristina Di Maria

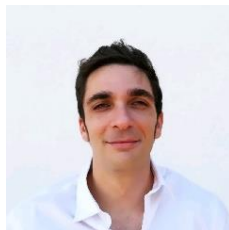


Adriano Ferrara



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Claudio Perissinotti



Marco De Gregorio



Giovanni Micciché



Giacomo Riccio



Viviana Buscemi

‘Environment, Energy, Consumer Goods and Materials’

Marketing Strategist



Valentina Novello

Head of the Unit



Elena Mocchio

AGENDA

1. Introduction to the standardization world

2. Standardization and Research: key points for policy makers, companies and consortia

- EU standardization strategy
- Milestones from R&I to standards

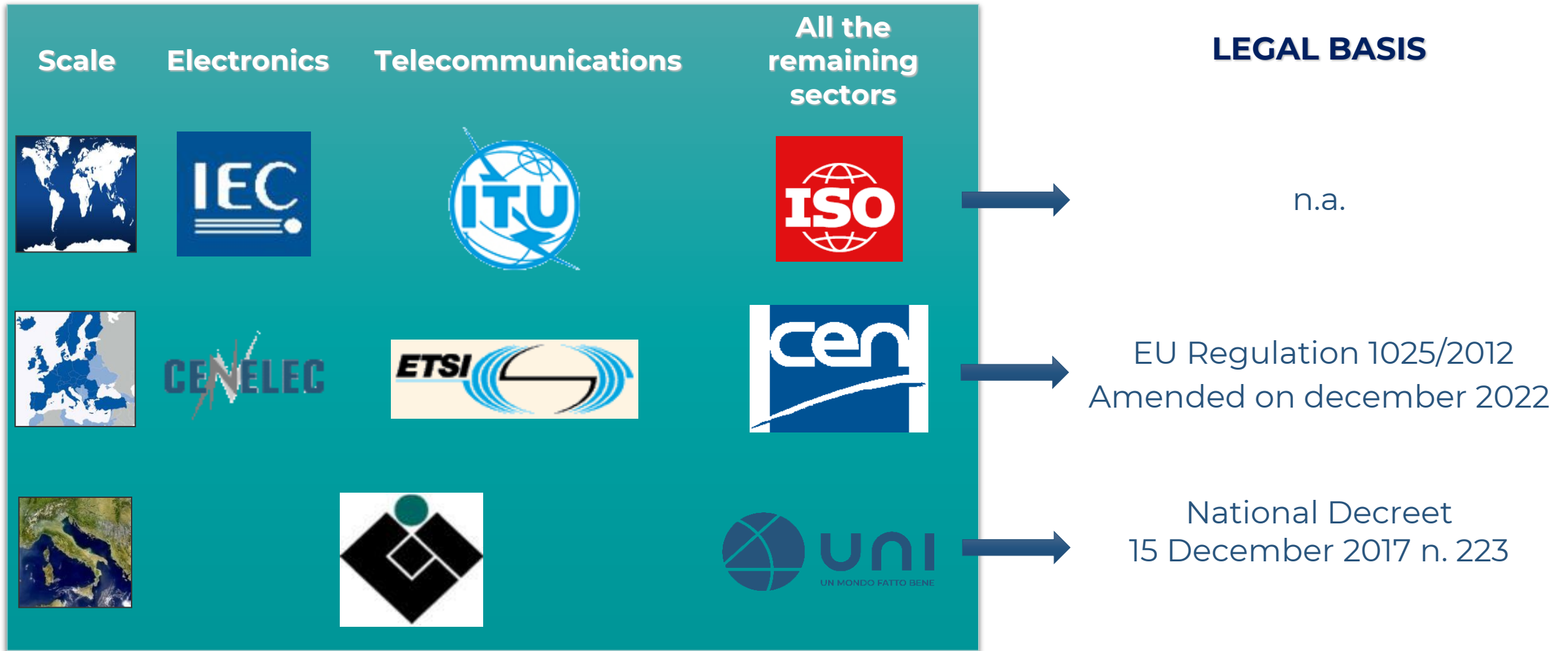
3. How to include standardization in R&I activities

- State of the art analysis
- TCs Liaison and participation
- New pre-standardization documents: CWA roles and procedures

INTRODUCTION TO STANDARDIZATION WORLD



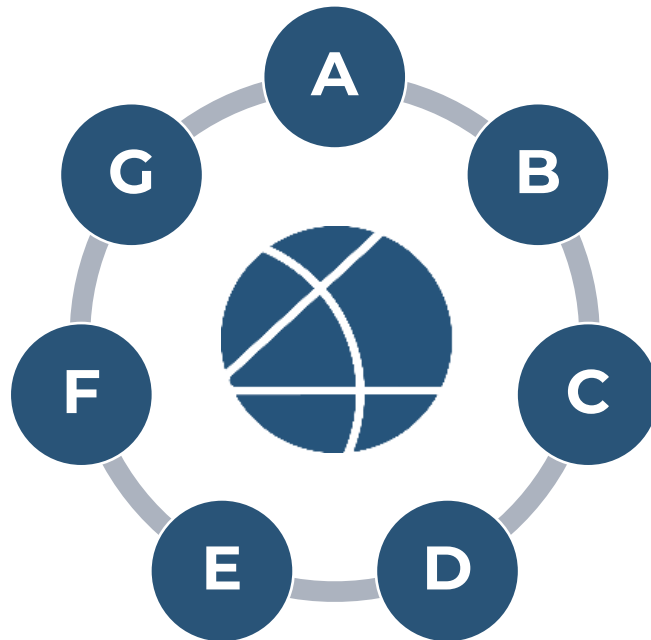
STANDARDIZATION SYSTEM



STANDARDIZATION BODIES



STAKEHOLDERS



- A** - Industry and commerce (laboratories)
- B** - Government (central and local)
- C** - Consumers
- D** - Labour
- E** - Academic and research bodies
- F** - Standards application
- G** - Non-governmental organization (NGO)

DELIVERABLES



Technical Standard

UNI, EN, ISO

Prescriptive document
Consolidated state of the art
Review every 5 years

Technical Specification

UNI/TS, CEN/TS, ISO/TS

Prescriptive document
State of the art in progress (experimental)
Periodic review (3 years)

Technical Report

UNI/TR, CEN/TR, ISO/TR

Informative document
Preparatory to future standardization activities
No deadline

Pre-normative documents

UNI/PdR, **CEN/CWA**, ISO/IWA

Pre-standard with restricted consensus
Preparatory to future standardization activities
Review every 5 years

STANDARDIZATION AND RESEARCH: KEY POINTS FOR POLICY MAKERS, COMPANIES AND CONSORTIA

2030 STANDARDIZATION STRATEGY



Scope: *building a safer, sustainable and competitive Europe through European and International standardisation*

Integrating

Integrating
standardization
and research

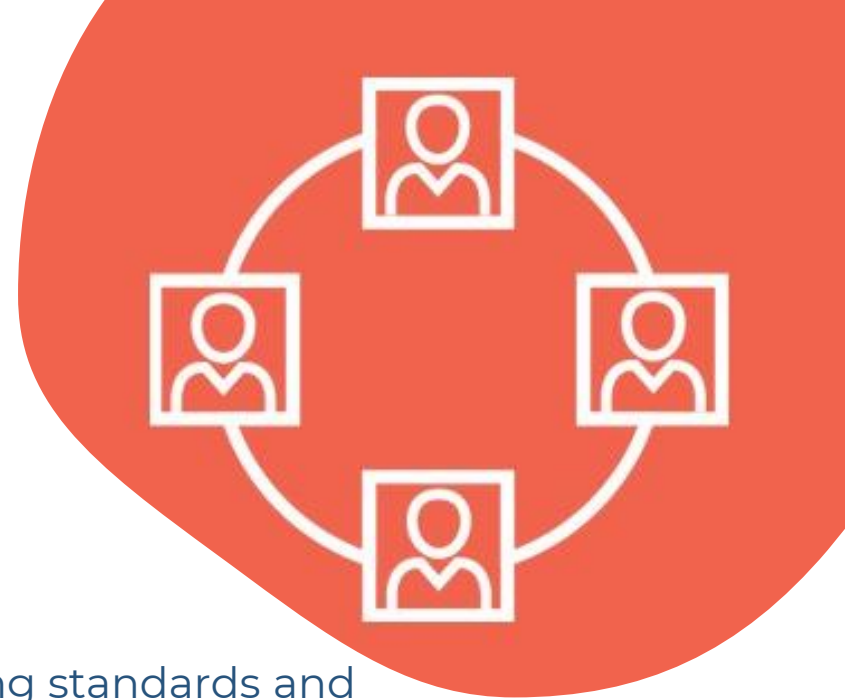
Identifying

Identifying new
topics for
standardization

Raising

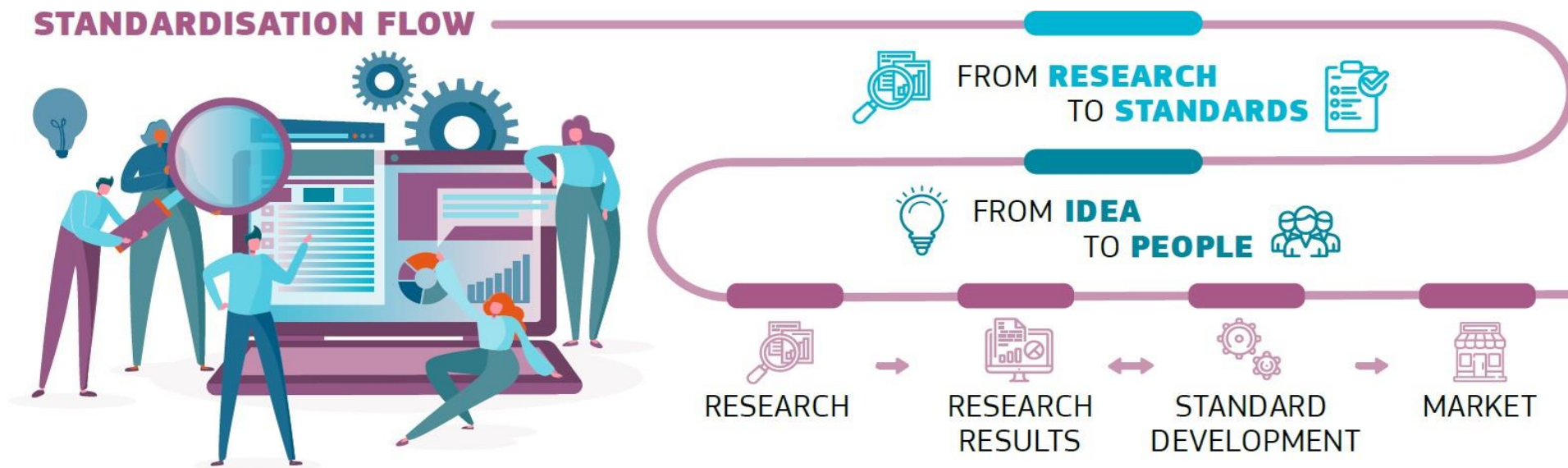
Raising
awareness and
building
system
capacity

WHAT'S IN FOR R&I?



- **Impact and market access:** applying existing standards and generating new ones increases the impact and market access of R&I projects and activities. It generates user trust and makes the project results more accessible to industry and societal actors.
- **Network:** participating in standardization enlarges the R&I network with relevant stakeholders sharing the standardization works
- **Recognition:** standardization helps the R&I community gain recognition for their work by acknowledging the participation in standardization works or including references to relevant scientific publications in standards.

VALORIZING RESEARCH



Standards are a crucial tool to get the most out of research results. They:

- **help researchers to bring their innovation to the market** by making their results transparent and ensuring high quality
- **build consumer trust** in innovative technology because they guarantee safety and quality
- **codify the technologies requirements** and inform both manufacturers and consumers on what to expect
- allow technologies and materials to be **interoperable**

3 MILESTONES



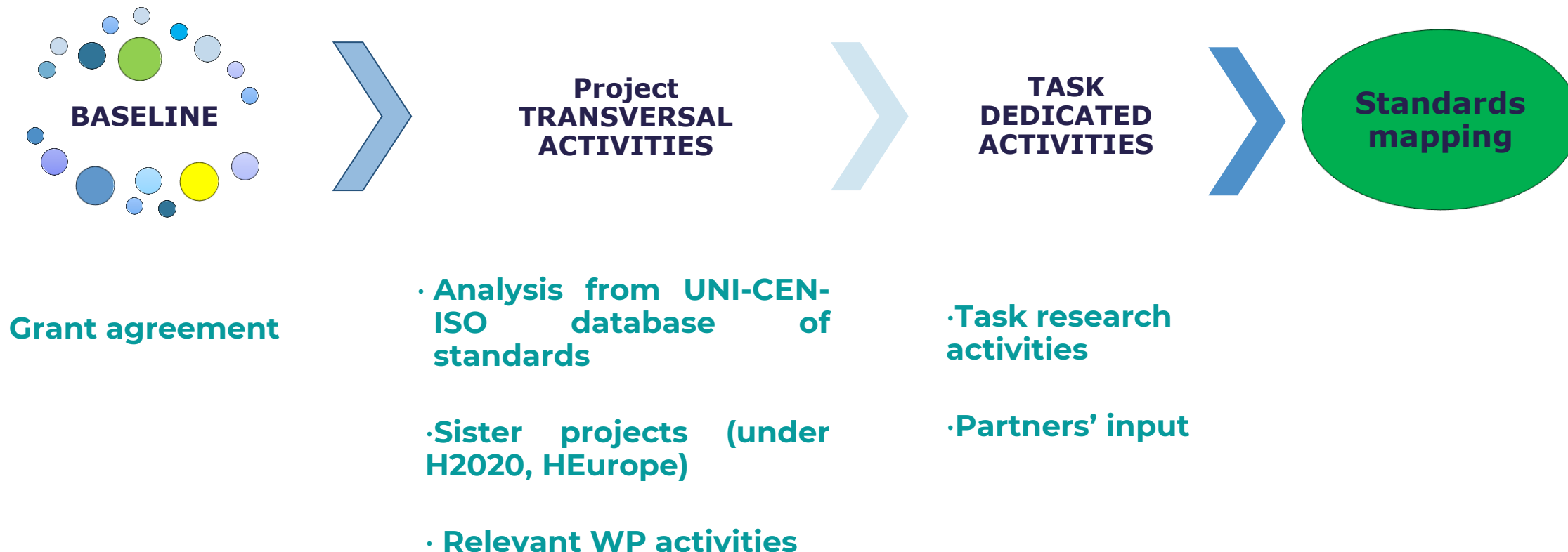
To transfer the project results to the market...through standardization



HOW TO INCLUDE STANDARDIZATION IN R&I ACTIVITIES

STATE OF THE ART ANALYSIS

STATE OF THE ART ANALYSIS: THE METHODOLOGY



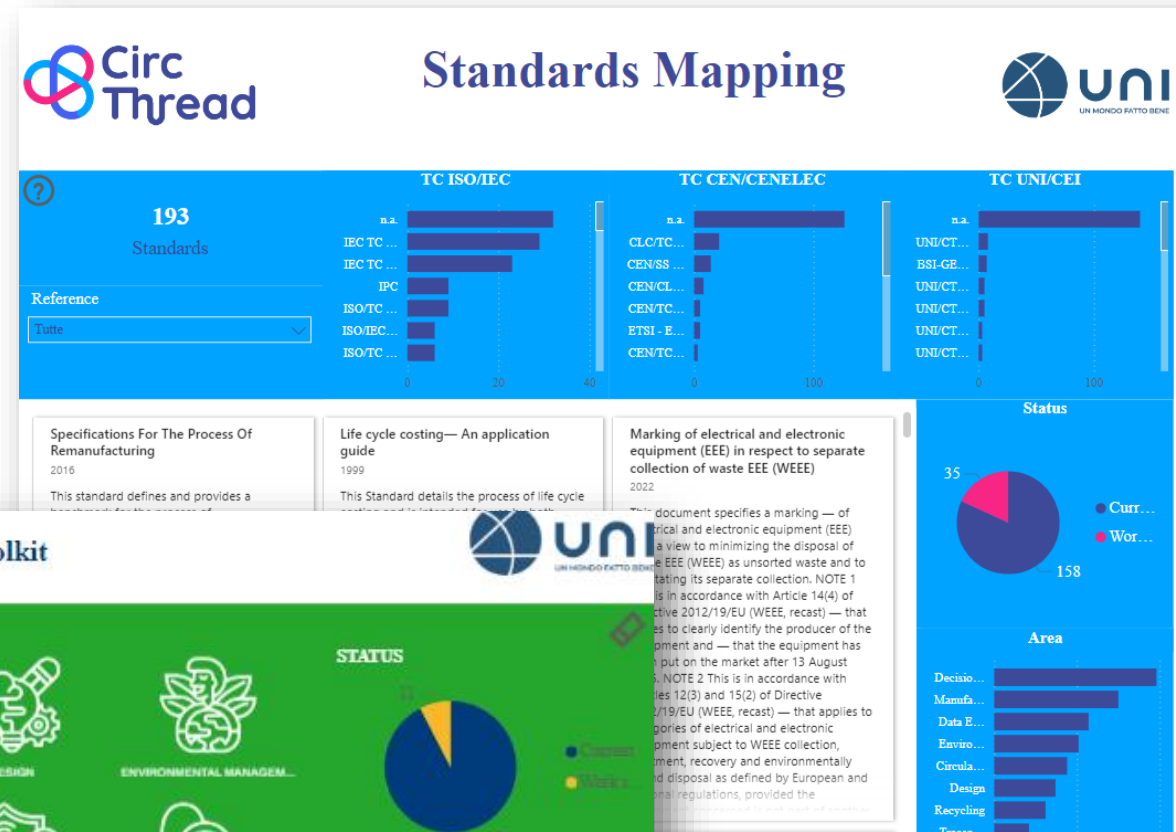
	TITLE	YEAR	SCOPE	AREA	KEYWORDS	International Technical Committee	European Technical Committee
/en/uni-cen-tr-15822-20	Plastics - Biodegradable plastics in or on soil - Recovery, dis	2010	This Technical Report is the o	Bio; Environmental	plastic; rec	n.a.	
/en/uni-11183-2006	Plastic materials biodegradable at room temperature - Req	2006	The standard defines the req	Bio; Environmental	requiremen	n.a.	n.a.
/en/uni-en-iso-22403-20	Plastics - Assessment of the intrinsic biodegradability of ma	2022	This document specifies test	Bio; Environmental	requiremen	ISO/TC 61/SC 14	CEN/TC 249
/uni-en-13592-2017	Plastics sacks for household waste collection - Types, requi	2017	The standard specifies the general characteristic		Plastic; Sacks; Waste collectio		CEN/TC 261
/en/uni-cen-tr-15351-20	Plastics - Guide for vocabulary in the field of degradable an	2007	This guide provides the		Polymers; D	n.a.	CEN/TC 249
/en/uni-en-iso-22766-20	Plastics - Determination of the degree of disintegration of p	2022	This document specifies test methods for the de		Disintegrati	ISO/TC 61 - Plastic	CEN/TC 249
/en/uni-en-iso-22403-20	Plastics - Assessment of the intrinsic biodegradability of ma	2022	This document specifies test methods and criter		Intrinsic bi	ISO/TC 61 - Plastic	CEN/TC 249
/en/uni-en-iso-14855-1-	Determination of the ultimate aerobic biodegradability of p	2013	ISO 14855-1:2012 specifies a		Ultimate ae	ISO/TC 61 - Plastic	CEN/TC 249
/en/uni-en-iso-14855-2-	Determination of the ultimate aerobic biodegradability of p	2018	This document specifies a method for determini		Ultimate ae	ISO/TC 61 - Plastic	CEN/TC 249
/en/uni-en-iso-14851-20	Determination of the ultimate aerobic biodegradability of p	2019	This document specifies a method, by measuring		Ultim:		
/en/uni-en-iso-14852-20	Determination of the ultimate aerobic biodegradability of p	2021	This document specifies a method, by measuring		Ultim:		
/en/uni-en-iso-17556-20	Plastics - Determination of the ultimate aerobic biodegrada	2019	This document specifies a method for determini		Ultim:		
/en/uni-en-14046-2003	Packaging - Evaluation of the ultimate aerobic biodegradab	2003	This European Standard		Packa		
/en/uni-en-14047-2003	Packaging - Determination of the ultimate aerobic biodegra	2003	This standard specifies a method to evaluate the ultim				
/en/uni-en-14048-2003	Packaging - Determination of the ultimate aerobic biodegra	2003	This standard specifies a				
/en/uni-en-iso-9887-199	Water quality. Evaluation of the aerobic biodegradability of	1996	The method specified applies to organic compou	Water			
/en/uni-en-iso-9888-200	Water quality - Evaluation of ultimate aerobic biodegradab	2000	This International Standard specifies a method for the				
/en/uni-en-iso-11733-20	Water quality - Determination of the elimination and biode	2004	ISO 11733:2004 specifies a method for the determinati				
/en/uni-en-iso-9408-200	Water quality - Evaluation of ultimate aerobic biodegradab	2006	This International Standard specifies a method, by dete				
/en/uni-en-iso-14593-20	Water quality - Evaluation of ultimate aerobic biodegradab	2006	This International Standard specifies a method, by anal				
/en/uni-en-iso-10634-20	Water quality - Preparation and treatment of poorly water-	2019	This document specifies techniques for preparing poor				
/en/uni-en-iso-9439-200	Water quality - Evaluation of ultimate aerobic biodegradab	2006	This International Standard specifies a method, by dete				
/uni-en-iso-10707-2000	Water quality - Evaluation in an aqueous medium of the "ul	2000	Specifies a method, by analysis of biochemical oxygen				
/en/uni-en-iso-7827-201	Water quality - Evaluation of the "ready", "ultimate" aerobi	2013	ISO 7827:2010 specifies a method for the evaluation of				
/en/uni-en-iso-11734-20	Water quality - Evaluation of the "ultimate" anaerobic biod	2004	Gives a method for the evaluation of the ultimate biod				
/en/uni-en-iso-14024-20	Environmental labels and declarationsType I environmental	2004	ISO 14024:2018 establishes the principles and procedur				
/en/uni-en-iso-14021-20	Environmental labels and declarations - Self-declared envir	2021	ISO 14021:2016 specifies requirements for self-declare				
/en/uni-en-iso-14025-20	Environmental labels and declarations - Type III environme	2010	This International Standard establishes the principles a				
/en/uni-pdr-102-2021	Ethical claims of responsibility for sustainable developmen	2021	n.a.				
/en/uni-pdr-135-2022	Bio-based products - Organization and product application g	2022	n.a.				
ds.org.au/standards-cata	Life cycle costing— An application guide	1999	This Standard details the proc	Environmental ma	LCC; g		
/en/clc-tr-45550-2020	Definitions related to material efficiency	2020	Standardisation Request M/5	Traceability system	energy-rela	n.a.	CEN/CLC/JTI
/webapp/WorkProgram	Environmental Engineering (EE); Assessment of material eff	n.a.	specific part for server and da	Decision support f	sustainabili	n.a.	ETSI - EE EEP
/webapp/WorkProgram	Environmental Engineering (EE); Assessment of material eff	n.a.	specific part for server and da	Decision support f	sustainabili	n.a.	ETSI - EE EEP
/webapp/WorkProgram	Electronic Signatures and Infrastructures (ESI); Certificate P	2016	The present document provid	Data Exchange For	trust; consu	n.a.	ETSI - ESI
/en/uni-en-iso-4484-1-2	Textiles and textile products - Microplastics from textile so	2023	This document describes a m	Design; Manufactu	microplasti	ISO/TC 38 Textile	CEN/TC 248
ch/publication/31206	Dependability management - Part 3-3: Application guide - L	2017	IEC 60300-3-3:2017 establishe	Environmental ma	LCC; depend	IEC TC 56 - Depen	n.a.
materials-declaration-da	Generic Requirements for Declaration Process Managemen	2012	IPC-1751A provides the basic	Data Exchange For	Bill Of Mate	IPC	n.a.
materials-declaration-da	Materials Declaration Management Standard (Revision A)	2018	IPC 1752A establishes a stand	Traceability system	Manufactur	IPC	n.a.
materials-declaration-da	Materials Declaration Management Standard (Revision B)	2020	From 5 January 2021, all comp	Traceability system	Manufactur	IPC	n.a.
pc-1754/ipc-1754-standa	Materials and Substances Declaration for Aerospace and De	2019	IPC-1754, 2019 Edition, March	Traceability system	Manufactur	IPC	n.a.

UNI maps **hundred of documents (current and under development)** potentially relevant to the projects. For each document, it has been collected in an excel file the title, the reference number, the year of publication, the scope of the document, the status (current and work in progress) and the technical committee developing it. Moreover, every document has been reclassified according to its main relevant field (“*areas*”) and a list of keywords has also been identified to narrow down the search.

OPEN STANDARDS RESEARCH TOOL



- Filter all the standards by area, keywords etc.
- Freely available on the projects websites
- Possible experts feedbacks



LIAISON

PROJECT LIAISON

Establishing a **Project Liaison** is the formal mechanism that allows a research project to collaborate with a **CEN/ISO Technical Committee** (TC) active in the same field.

The project representative can participate in the Technical Committee directly, thus ensuring synergies between the research and standardization work.

[Apply for a Liaison](#)



NEW PRE-STANDARDIZATION DOCUMENTS

A FAST-TRACK STANDARDIZATION DELIVERABLE

- ▶ The **CEN Workshop** is a flexible working platform open to the participation of any company or organisation, inside or outside Europe, for the fast elaboration of a consensus document (i.e. **CEN Workshop Agreement (CWA)**).
- ▶ **Consensus** - General agreement, characterized by the absence of sustained opposition to substantial issues by an important part of the concerned interests, and by a process that involves seeking to take into account the views of all parties concerned and to reconcile any conflicting arguments.

CEN Workshop = Working group



CEN WORKSHOP AGREEMENT

- ▶ The **CEN Workshop Agreement (CWA)** is a technical agreement, developed by a Workshop, which reflects the agreement of registered workshop participants responsible for its content.
- ▶ Document designed to meet an immediate need.
- ▶ Developed in accordance with CEN rules and practices ([CEN-CENELEC GUIDE 29](#)).
- ▶ Used for:
 - Emerging or rapidly-changing contexts
 - To share best-practices
 - **Output of Research Projects**
 - As try-out before the development of ENs



WHY A CWA?

ARTICLE 28 — EXPLOITATION OF RESULTS

H2020

28.1 Obligation to exploit the results

Each beneficiary must — up to four years after the period set out in Article 3 — take measures aiming to ensure ‘**exploitation**’ of its results (either directly or indirectly, in particular through transfer or licensing; see Article 30) by:

- (a) using them in further research activities (outside the action);
- (b) developing, creating or marketing a product or process;
- (c) creating and providing a service, or
- (d) using them in standardisation activities.

This does not change the security obligations in Article 37, which still apply.

28.2 Results that could contribute to European or international standards — Information on EU funding

If results are incorporated in a standard, the beneficiary concerned must — unless the Agency requests or agrees otherwise or unless it is impossible — ask the standardisation body to include the following statement in (information related to) the standard:

“Results incorporated in this standard received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101003587”.

28.3 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced in accordance with Article 43.

Such a breach may also lead to any of the other measures described in Chapter 6.

- ▶ Exploitation outcome of a EU project? it lasts beyond the project lifetime
- ▶ Technical document which can be transformed in a proper EN standard
- ▶ Meeting the requirements of the EU 2030 Strategy on Standardization

Exploitation of results

HEUROPE

Beneficiaries which have received funding under the grant must — up to four years after the end of the action (see Data Sheet, Point 1) — use their best efforts to exploit their results directly or to have them exploited indirectly by another entity, in particular through transfer or licensing.

If, despite a beneficiary’s best efforts, the results are not exploited within one year after the end of the action, the beneficiaries must (unless otherwise agreed in writing with the granting authority) use the Horizon Results Platform to find interested parties to exploit the results.

If results are incorporated in a standard, the beneficiaries must (unless otherwise agreed with the granting authority or unless it is impossible) ask the standardisation body to include the funding statement (see Article 17) in (information related to) the standard.

Additional information obligation relating to standards

Where the call conditions impose additional information obligations relating to possible standardisation, the beneficiaries must — up to four years after the end of the action (see Data Sheet, Point 1) — inform the granting authority, if the results could reasonably be expected to contribute to European or international standards.



CEN WORKSHOP AGREEMENT RULES

- **Initiators:** any interested party ... **but very useful for R&I projects**
- **Workshop announcement**
- **Public review of the Project Plan (at least 30 days)**
 - Flexible (open to participation at any stage)
 - Expert/Company-oriented, not national oriented
- **CEN IPRs policy and Exploitation rights are applicable**

No safety or security matters!

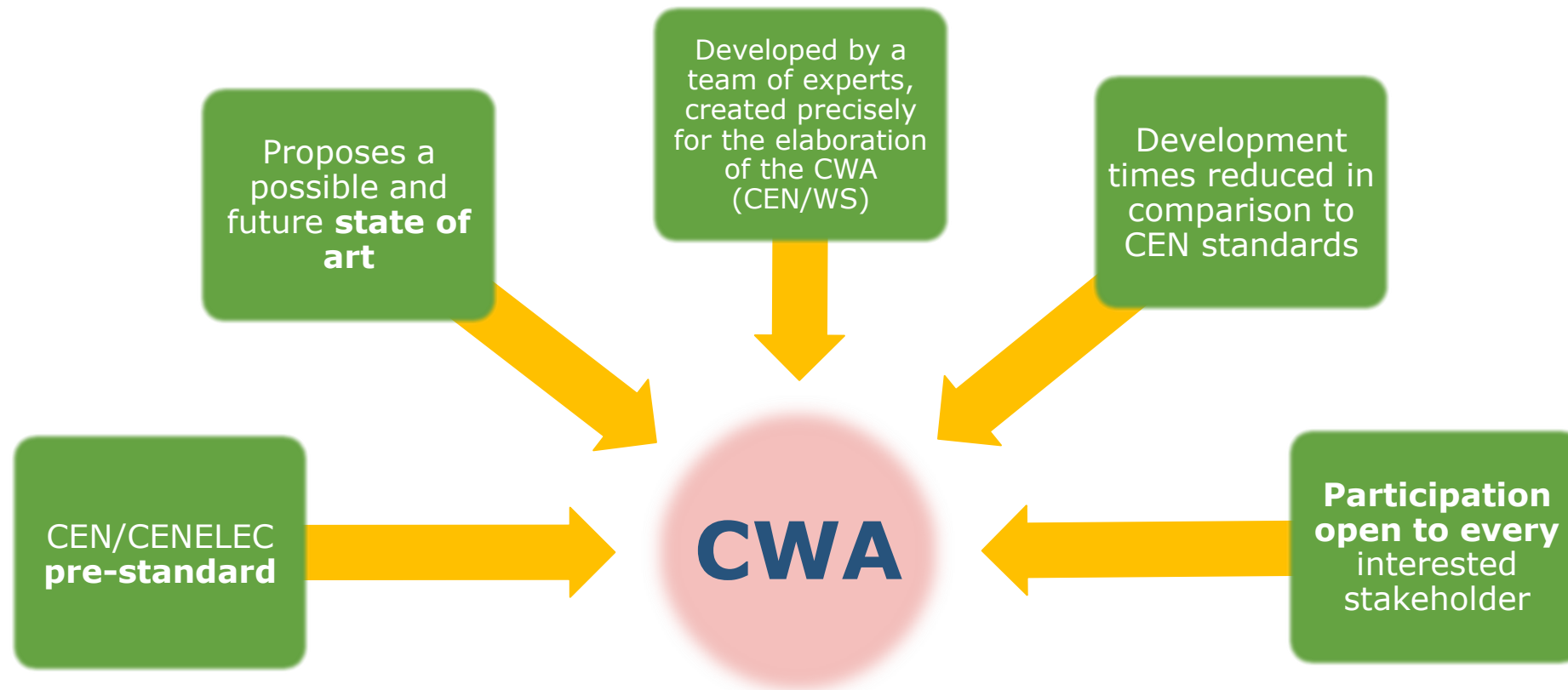


CEN WORKSHOP AGREEMENT

- ▶ CEN/CENELEC Workshop Agreement (CWA) is a **pre-standardization** deliverable designed to meet an immediate need, that can be used as a fast-track to future standardization activities
- ▶ It is **fast and flexible** to develop (~ 6-12 months) in a Workshop open to the direct participation of anyone and reflects the consensus of identified stakeholders
- ▶ Once published, a CWA is valid for **3 years**, after which it can be confirmed for a maximum of 3 years, revised or withdrawn



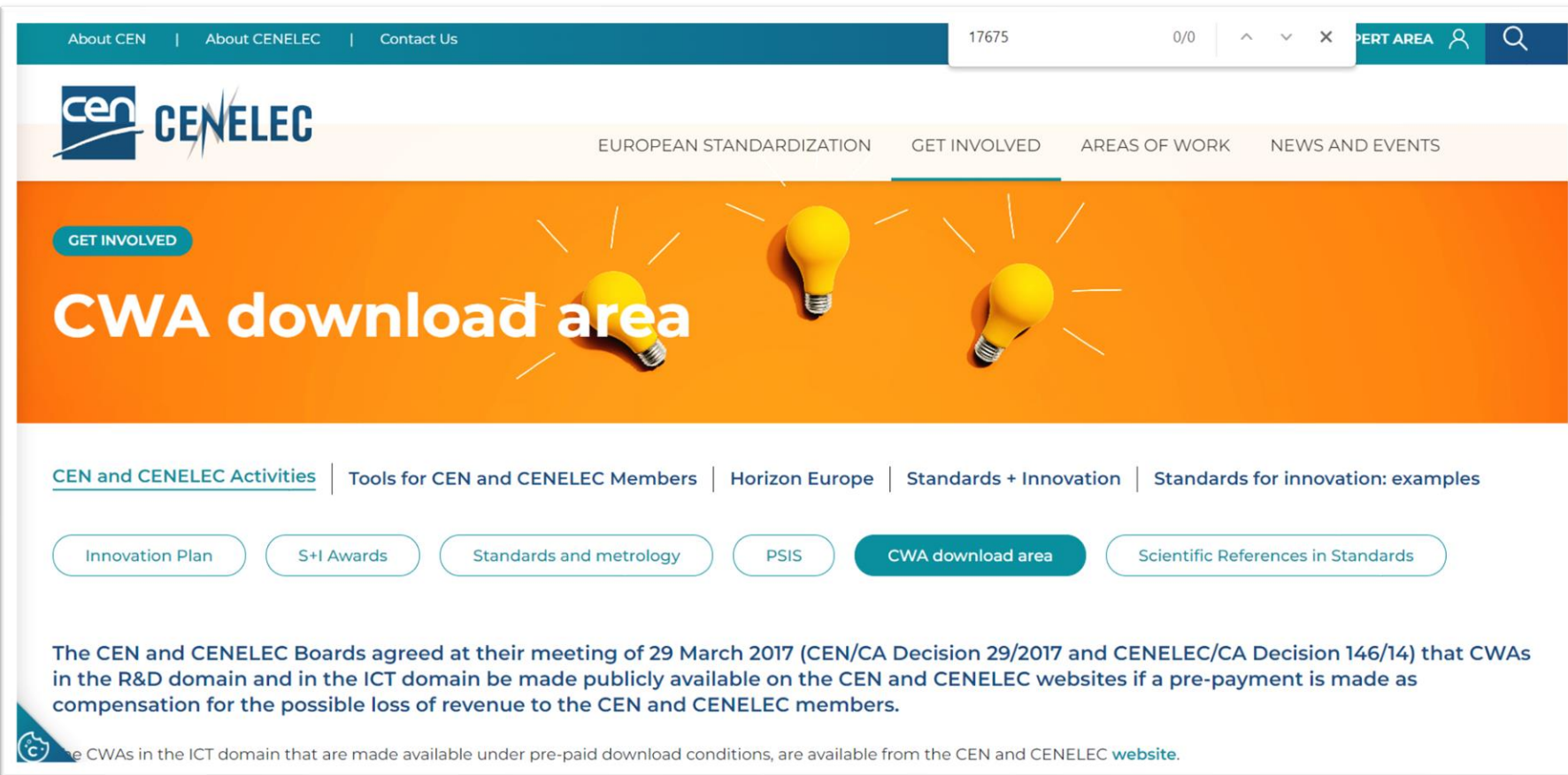
CEN WORKSHOP AGREEMENT



CEN/CENELEC GUIDE 29



CEN WORKSHOP AGREEMENT



The screenshot shows the CEN CENELEC website. The top navigation bar includes links for 'About CEN', 'About CENELEC', and 'Contact Us'. A search bar contains the number '17675'. The main header features the CEN CENELEC logo and a navigation menu with 'EUROPEAN STANDARDIZATION', 'GET INVOLVED' (highlighted), 'AREAS OF WORK', and 'NEWS AND EVENTS'. Below the header is a large orange banner with the text 'CWA download area' and three lightbulb icons. Under the banner, there are several navigation buttons: 'Innovation Plan', 'S+I Awards', 'Standards and metrology', 'PSIS', 'CWA download area' (highlighted), and 'Scientific References in Standards'. A text block below the buttons states: 'The CEN and CENELEC Boards agreed at their meeting of 29 March 2017 (CEN/CA Decision 29/2017 and CENELEC/CA Decision 146/14) that CWAs in the R&D domain and in the ICT domain be made publicly available on the CEN and CENELEC websites if a pre-payment is made as compensation for the possible loss of revenue to the CEN and CENELEC members.' At the bottom left, a small icon and text indicate that CWAs in the ICT domain are available under pre-paid download conditions from the CEN and CENELEC website.

CWA 18038:2023

CEN

WORKSHOP

AGREEMENT

CWA 18038

September 2023

ICS 03.100.40; 13.030.50; 25.040.01

English version

Methodology for managing maintenance strategy and remanufacturing projects of large industrial equipment

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties, the constitution of which is indicated in the foreword of this Workshop Agreement.

The formal process followed by the Workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN-CENELEC Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

This CEN Workshop Agreement can in no way be held as being an official standard developed by CEN and its Members.

This CEN Workshop Agreement is publicly available as a reference document from the CEN Members National Standard Bodies.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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Ref No.: CWA 18038:2023 E

<https://www.cencenelec.eu/get-involved/research-and-innovation/horizon-europe-projects/cwa-download-area/>

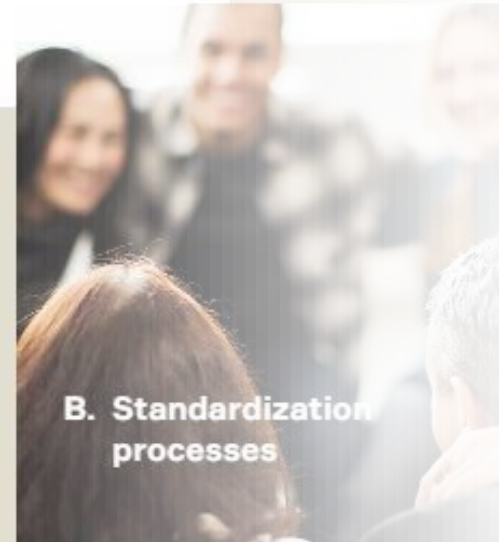


A WELL MADE WORLD

Standards and Research & Innovation

Click on any topic below or use the menu above to jump to any chapter

USEFUL LINKS















**Discover more on
Horizon 2020 and
Horizon Europe projects!**



- [CEN-CENELEC GUIDE 29 - Workshop Agreements – A rapid way to standardization](#)
- [Standard+innovation](#)
- <https://www.cencenelec.eu/european-standardization/strategy-2030/>
- <https://ec.europa.eu/docsroom/documents/48598>

UNI HORIZON PROJECTS' PORTFOLIO

 <p>BIORADAR: Monitoring system of the environmental and social sustainability and circularity of industrial bio-based systems</p> <p>#Bio-basedMaterials, #Bio-basedPlastics, #Bio-basedProducts</p> <p>DISCOVER PROJECT →</p>	 <p>EUB SuperHub – European Building Sustainability performance and energy certification Hub</p> <p>#Construction, #Sustainability</p> <p>DISCOVER PROJECT →</p>	 <p>TREASURE: leading the TRansition of the European Automotive SUPply chain towards a circular futurE</p> <p>#AI, #Automotive</p> <p>DISCOVER PROJECT →</p>	 <p>Project Ô: demonstration of planning and technology tools for a circular, integrated and symbiotic use of water</p> <p>#CircularEconomy, #PublicUtilities, #WaterManagement</p> <p>DISCOVER PROJECT →</p>	 <p>RECLAIM: RE-manufaCturing and Refurbishment LArge Industrial equipment</p> <p>#CircularEconomy, #Industry 4.0, #Remanufacturing</p> <p>DISCOVER PROJECT →</p>	 <p>BIORECER: Biological Resources Certifications Schemes</p> <p>#Bio-basedMaterials, #Bio-basedPlastics, #Bio-basedProducts, #BioFuels, #Certification, #Standards, #TechnicalCompliance, #Validation, #Verification</p> <p>DISCOVER PROJECT →</p>
 <p>CircThread – Building the Digital Thread for Circular Economy Product, Resource & Service Management</p> <p>#CircularEconomy, #Data Access</p> <p>DISCOVER PROJECT →</p>	 <p>E-SHYPS: Ecosystemic knowledge in Standards for Hydrogen Implementation on Passenger Ships</p> <p>#Hydrogen, #MaritimeTransport, #PassengerShips</p> <p>DISCOVER PROJECT →</p>	 <p>ASINA: Anticipating Safety Issues at the Design Stage of NANO Product Development</p> <p>#Nanotechnologies, #SafetyByDesign</p> <p>DISCOVER PROJECT →</p>	 <p>RobétArmé: Human-robot collaborative construction system for shotcrete digitization and automation through advanced perception, cognition, mobility and additive manufacturing skills</p> <p>#CognitiveRobotPlatform, #Shotcrete</p> <p>DISCOVER PROJECT →</p>	 <p>STAR4BBS: Sustainability Transition Assessment Rules for Bio-Based Systems</p> <p>#Bio-basedMaterials, #Bio-basedPlastics, #Bio-basedProducts, #Certification, #Standards, #TechnicalCompliance, #Validation, #Verification</p> <p>DISCOVER PROJECT →</p>	 <p>MOZART Morphing Computerized mats with Embodied Sensing and Artificial Intelligence</p> <p>#AI, #IntelligentSystems, #MultiAgentSystems, #RoboticAutomaticControl</p> <p>DISCOVER PROJECT →</p>

...and three more will start in the next months...

<https://www.uni.com/en/standardisation/innovation/#projects>



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A WELL MADE WORLD



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New Energy Solutions Optimised for Islands



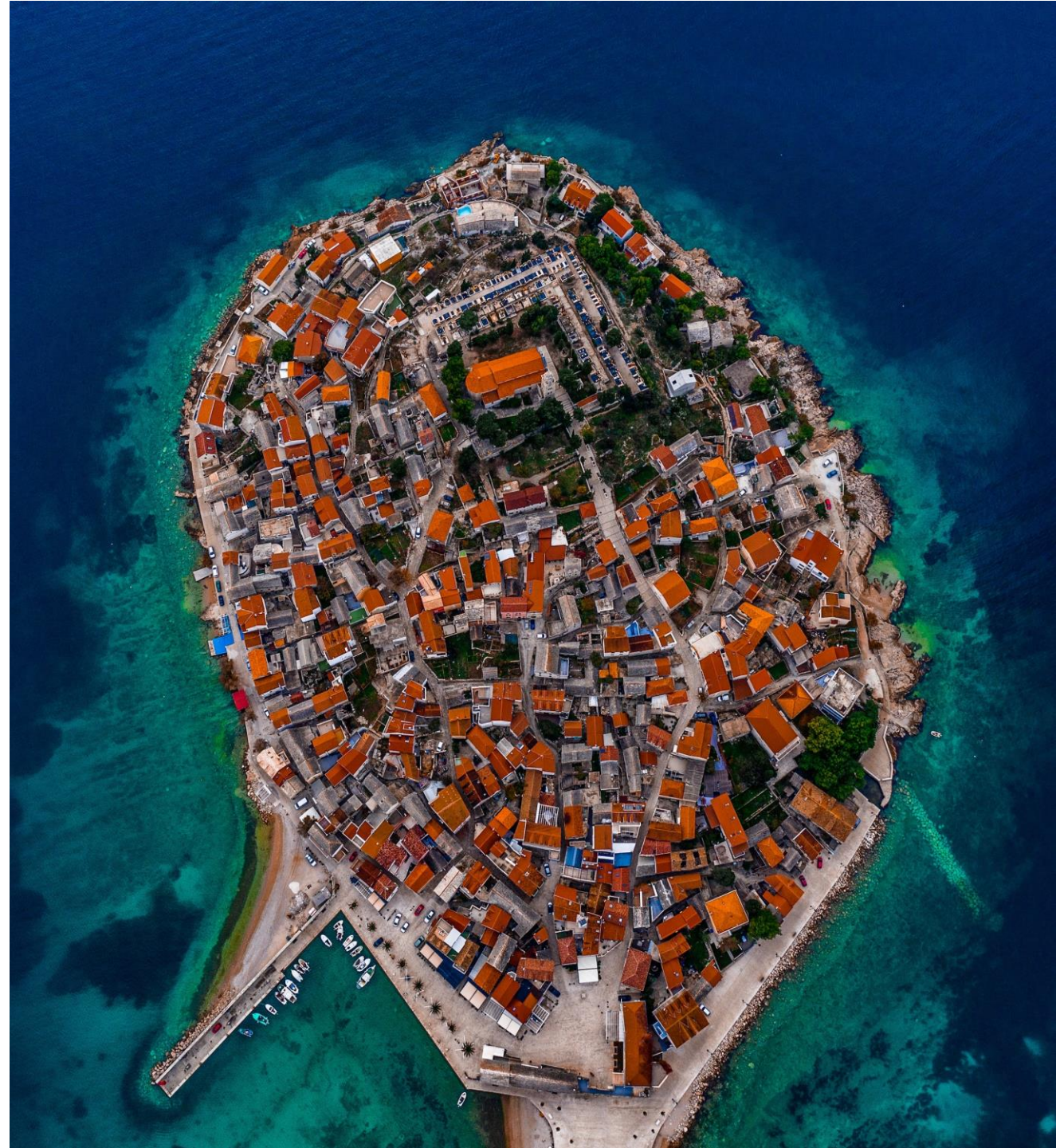
EUROPEAN ISLANDS FACILITY

CEN Workshop Agreement for Islands' Energy Transition

Andrea Martinez
SINLOC



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 864266



EU Island Facility NESOI

Tangible support
to project
readiness and
financiabiliy



H2020 project, kicked off in **October 2019**, will operate at local and European level until 2024



NESOI provide customized **comprehensive Technical Assistance** activities to support project structuring, financing and implementation



Selected islands **benefit from services** provided directly by NESOI's professionals (€ 3,1 mln) and financed local contractors (+€ 3,1 mln grant)



Digital platform to provide **capacity building** events, training workshops and toolkits

Our consortium



THE TECHNICAL ASSISTANCE PLATFORM

FOSTERING ENERGY TRANSITION ON EUROPEAN ISLANDS



Key numbers

2 open calls
166 applications

54 selected
projects

424 ktCO₂/yr
GHG emission savings

70 islands in 12
EU countries

6.2 M€
Technical assistance

455 M€
Mobilized investments

>1,900 followers and
>500 registered users

3 Short Study Tours,
234 E-learning contents
29 webinars
49 Newsletters & mailing

Exploitation
strategy

NESOI Platform

New Energy Solutions Optimised for Islands



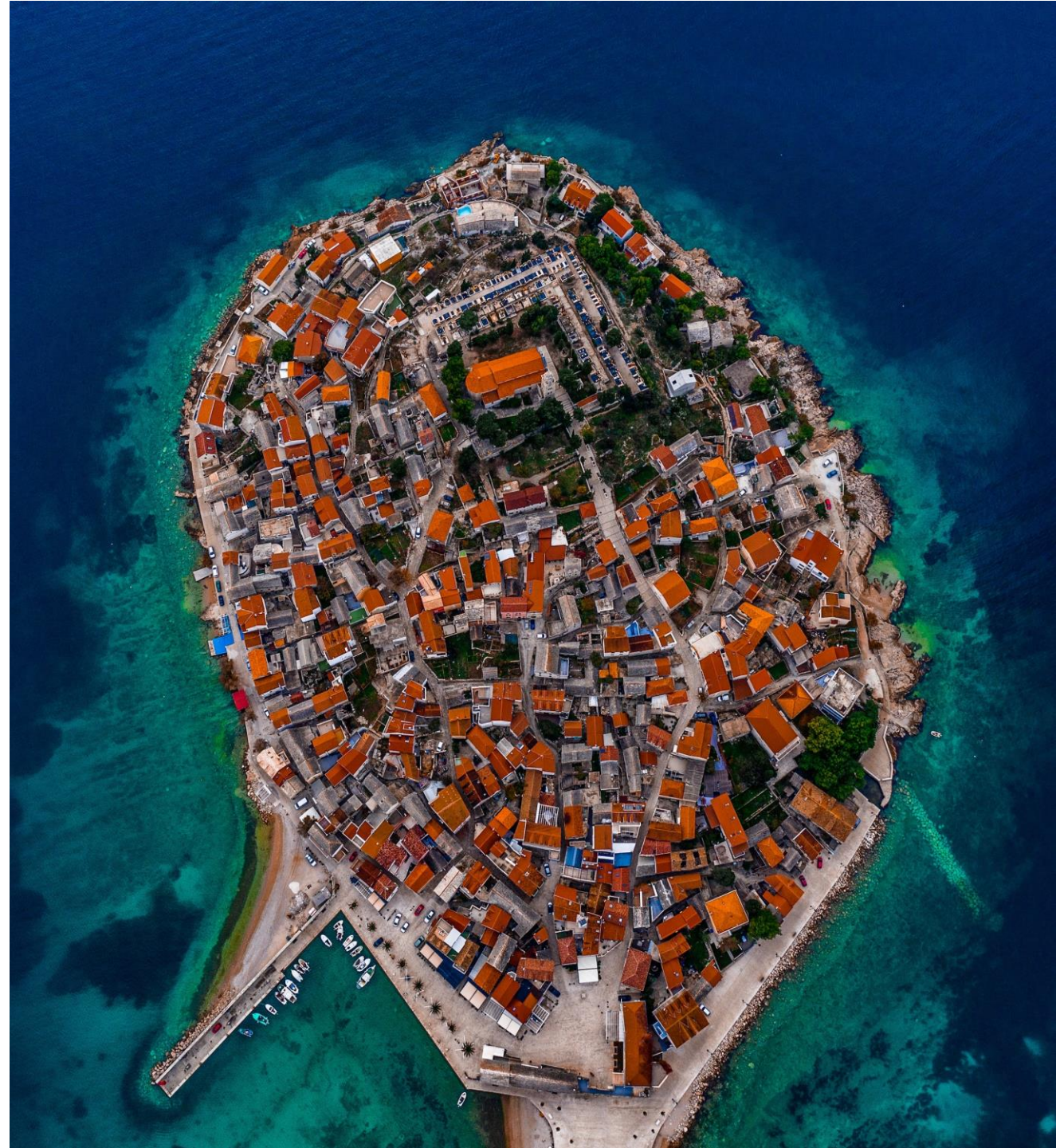
EUROPEAN ISLANDS FACILITY

CEN Workshop Agreement for Islands' Energy Transition

Giorgio Bonvicini
RINA



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 864266



Scope of the CWA

The planned CEN Workshop Agreement defines procedures for the management of technical/ financial/legal support to energy transition projects implemented through a cascade funding approach. This includes procedures for the selection of projects to be supported, standardization of technical/ financial/legal assistance menus for energy transition projects and procedures for the management of cascade funding initiatives.

STANDARDIZED PROCEDURES

1. Open Calls Management
2. Technical Assistance Management
3. Cascade Funding Management
4. Projects Replication Assessment

The NESOI Approach

Technical Assistance Facility, managing EU **cascade mechanism** to provide islands with customized on-site **technical, procedural, financial support**, combining NESOI's team «**centralised**» europe-wide know-how and expertise with «**local**» competencies and insights

166

applications
submitted

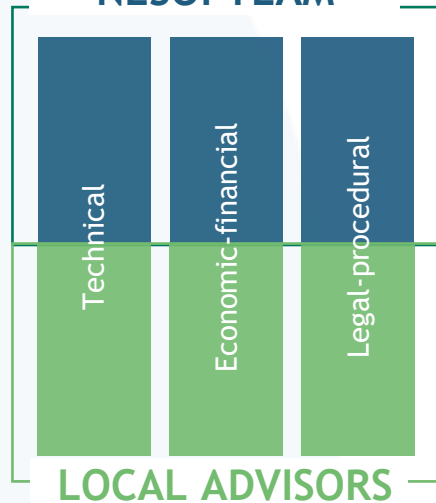
6.2M€

technical
assistance

2 open
calls,
2020 and
2022



NESOI TEAM



7 standard
menus

54

applications
selected

70

islands

12

countries

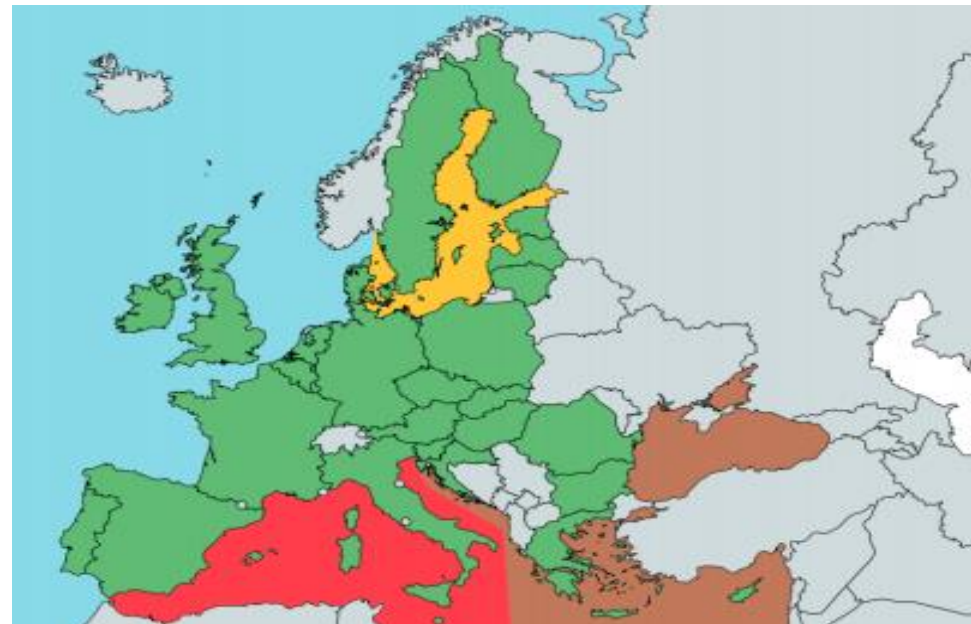
Management of the Open calls

Eligibility Criteria

- Location
 - on an island belonging to one of the Member States of the European Union, including their outermost regions but excluding Overseas Countries and Territories which belong to a Member State but do not form part of the EU territory
- Beneficiaries
 - public entities such as local, regional and national authorities;
 - public companies, i.e. those controlled or participated by public entities
 - private companies in any legal form, with support letter from public authority
- Type of Projects
- Timing of Projects
- Impact
 - Production of energy from renewable sources;
 - Energy efficiency interventions on public assets
 - Energy storage systems
 - Improvement of the existing electricity grid
 - Realization/improvement of District Heating and Cooling networks
 - Energy-related waste and water management actions
 - Implementation of sustainable mobility systems
 - Improvement of energy monitoring and management at island level
 - Energy auditing and analysis, energy planning at island level
- Compliance with EU Norms
- Legitimacy/Honourability
 - Reduction of Primary Energy Consumption
 - Reduction of GHG Emissions
 - Improvement of Local Environmental Conditions
 - Mitigation of Energy Poverty
- Language

Management of the Open calls

Selection Criteria



Additional bonuses for:

- Replicability
- Innovation
- Archipelago
- Quality of supporting documents

Ranking organized by:

- Geographical Area (see map)
- Maturity Area (entry-level, conceptual design, deployment level)

Ranking by decreasing score+bonuses by area

Management of the Open calls Technical Assistance Menus

8 technical/financial/legal assistance

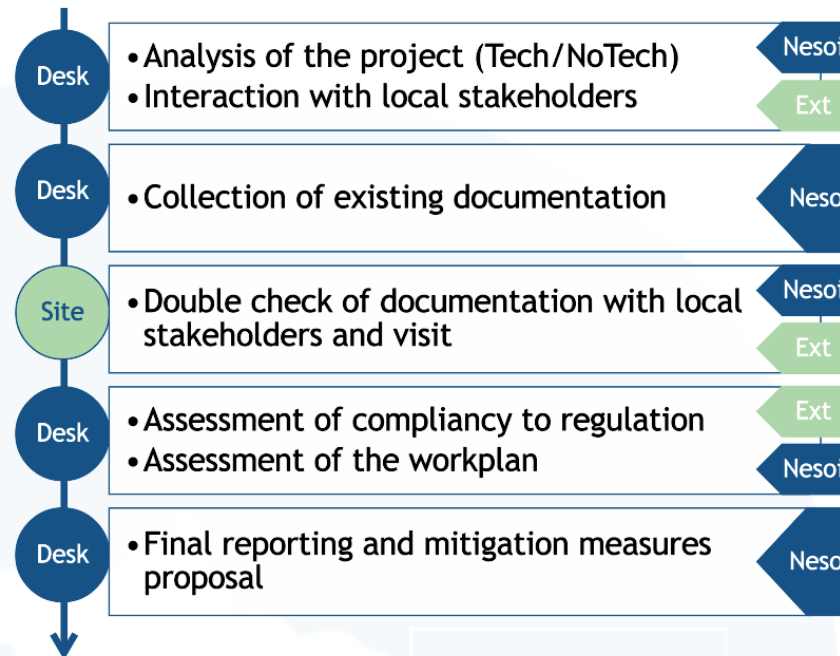
standard menu prepared:

- Planning documents (SECAP & SUMP)
- Feasibility study
- Due Diligence
- Business plan / Info memo
- Application to financial programs/funds
- Tender documents (n.3)

For each menu:

- Standard deliverable
- Standard workplan
- Range of budget allocated

Due Diligence for a RES plant installation



Potential location

- Mallorca
- Isle of Wight
- Pantelleria

PROJECT ID-CARD

Competences PM T E&F L&P	Status EL - CD - D(PP) - D(TP)
Effort NESOI 4-6 PMs + EXT 1,5 PMs	
Days on site at least 4	Visits at least 1

REQUISITES

Well defined intervention (technical and non technical aspects)	Not well defined local requirements (technical, logistics, legal, permitting)
Whole value chain project actors' commitment	Inefficient communication and data collection
Proper documentation existence and tracking	Incorrect and imprecise documentation

POTENTIAL BOTTLENECKS

Management of the Technical Assistance

1. Project clustering

2. Identification of NESOI team/roles

3. Set up of common management tools

4. Provision of the Technical Assistance

Management of the Technical Assistance

1. Project clustering

2. Identification of NESOI team/roles

3. Set up of common management tools

4. Provision of the Technical Assistance

Clusters of homogeneous projects have been identified, according to:

- Technical assistance menu and activities requested
- Geographical area
- Maturity level
- Grant requested
- Expected investment
- Sector of intervention and technologies involved

Management of the Technical Assistance

1. Project clustering

2. Identification of NESOI team/roles

3. Set up of common management tools

4. Provision of the Technical Assistance

Allocation criteria:

- Language
- Geographical macro area
- 2 or 3 partners per project
- Technical expertise
- Planned effort

Management of the Technical Assistance

1. Project clustering

2. Identification of NESOI team/roles

3. Set up of common management tools

4. Provision of the Technical Assistance

PROJECT LEVEL

- ✓ Project detailed workplan
- ✓ Project periodic meetings
- ✓ Interim and Final reports
- ✓ Projects output - KPI list
- ✓ Action plan

CONSORTIUM LEVEL

- ✓ Project overall dashboard
- ✓ PM periodic meetings
- ✓ Project output and adoption letter
- ✓ Cascade funding
- ✓ Resources / Effort and costsc

Management of the Technical Assistance

1. Project clustering

2. Identification of NESOI team/roles

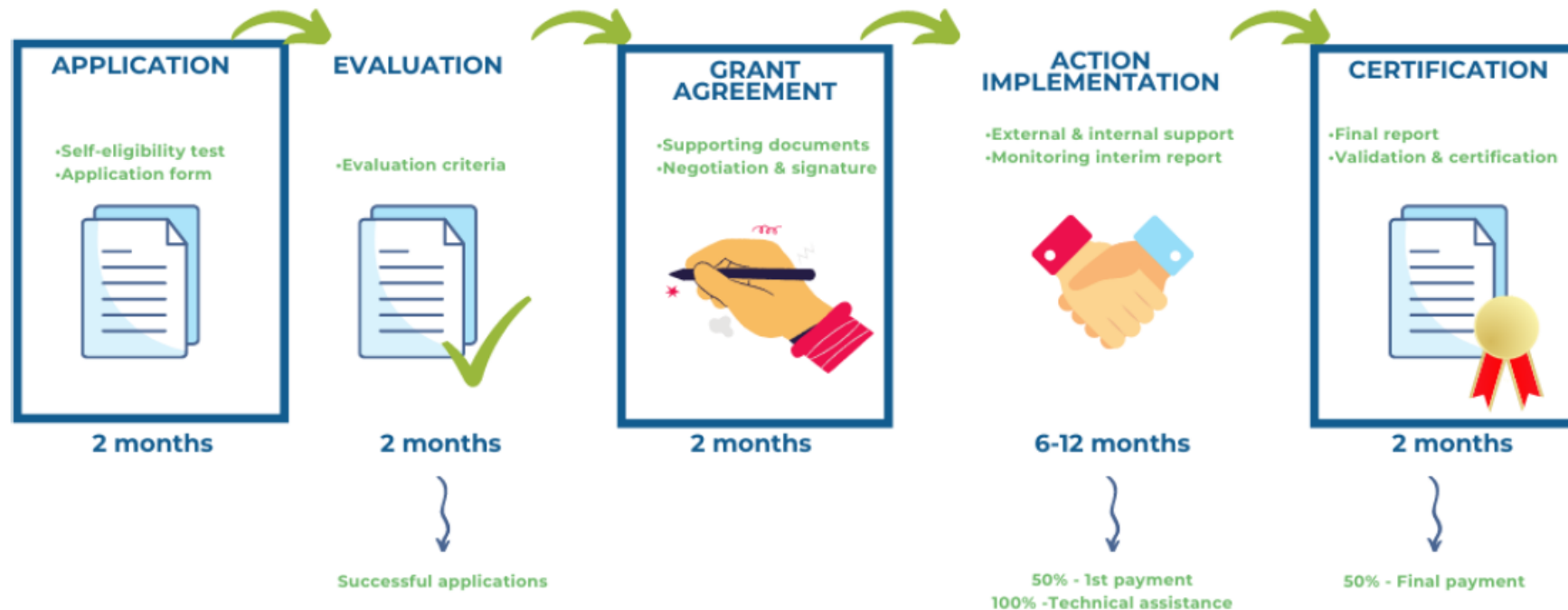
3. Set up of common management tools

4. Provision of the Technical Assistance

- A set of **STANDARD DELIVERABLES** have been drafted according to the requested support, then customized during the technical assistance
- 5 **FOCUS GROUPS** created to capitalize and cross-fertilize the experience gained in each project
- A **GUIDEBOOK FOR REPLICATION** published, containing 15 best practices

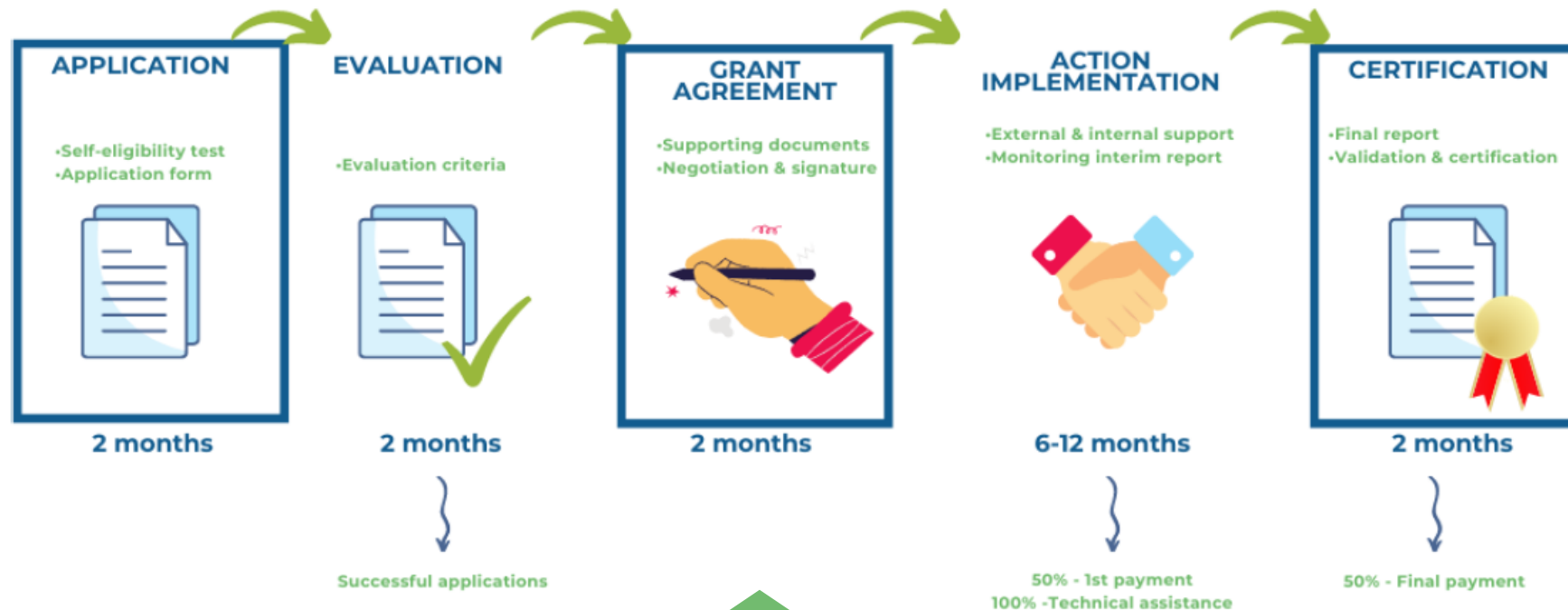
Management of the cascade funding

PROCEDURE TO RECEIVE FUNDING



Management of the cascade funding

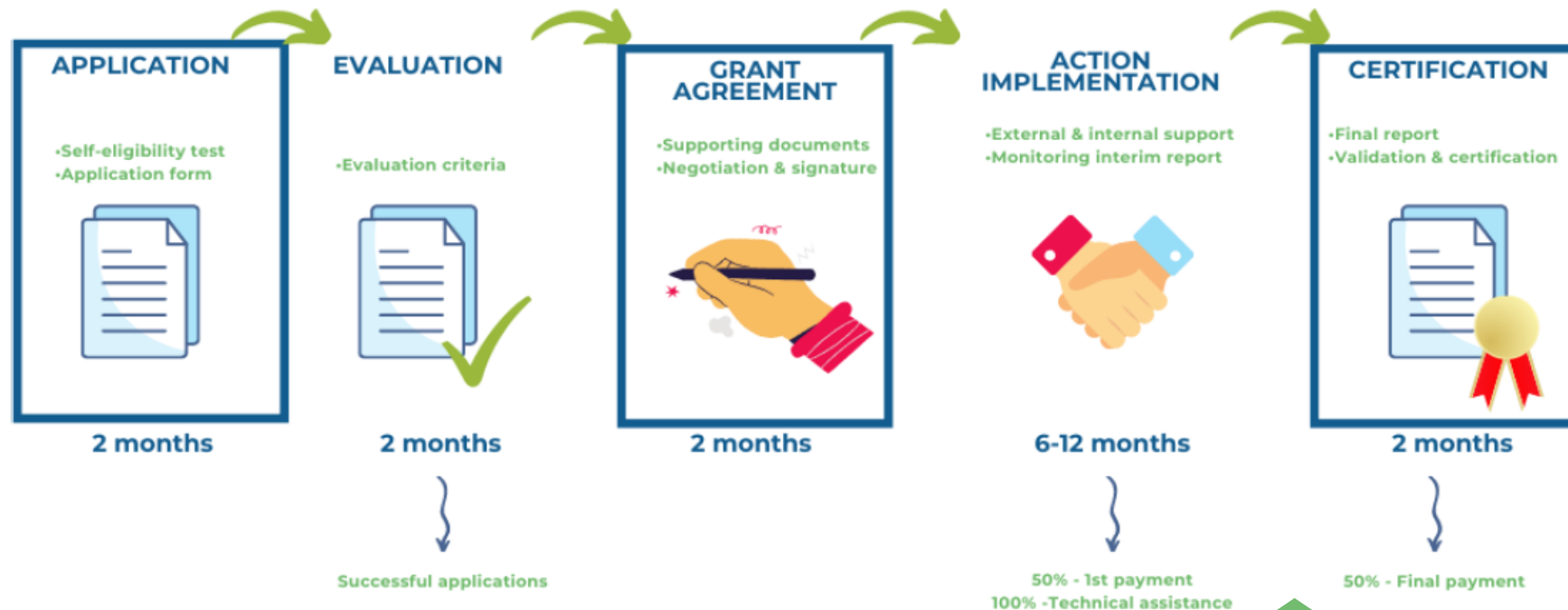
PROCEDURE TO RECEIVE FUNDING



Standard template to allocate funds to selected beneficiaries

Management of the cascade funding

PROCEDURE TO RECEIVE FUNDING



Standard template to report on project progress, mandatory to access the payment(s).

The final report is evaluated by the Quality Management Board created internally by the consortium

Replication of islands' energy transition projects

Why?

The need to define a solid, reliable and realistic method to assess and **measure the replication potential** of the supported projects.

To **stimulate the replication** of supported projects towards other islands, in Europe and beyond. Common and distinctive features of all supported islands were identified, compared, assessed and measured in order to elaborate a Guidebook for Replication.

Focus on the replication strategy for the selected projects. The goal is to assess the replicability of their results under different/similar conditions, sectors, contexts, etc. It includes Identification of **replicability criteria** and potential barriers to overcome for replication that are defined under the NESOI Technical Assistance Menu

Replication of islands' energy transition projects

How?

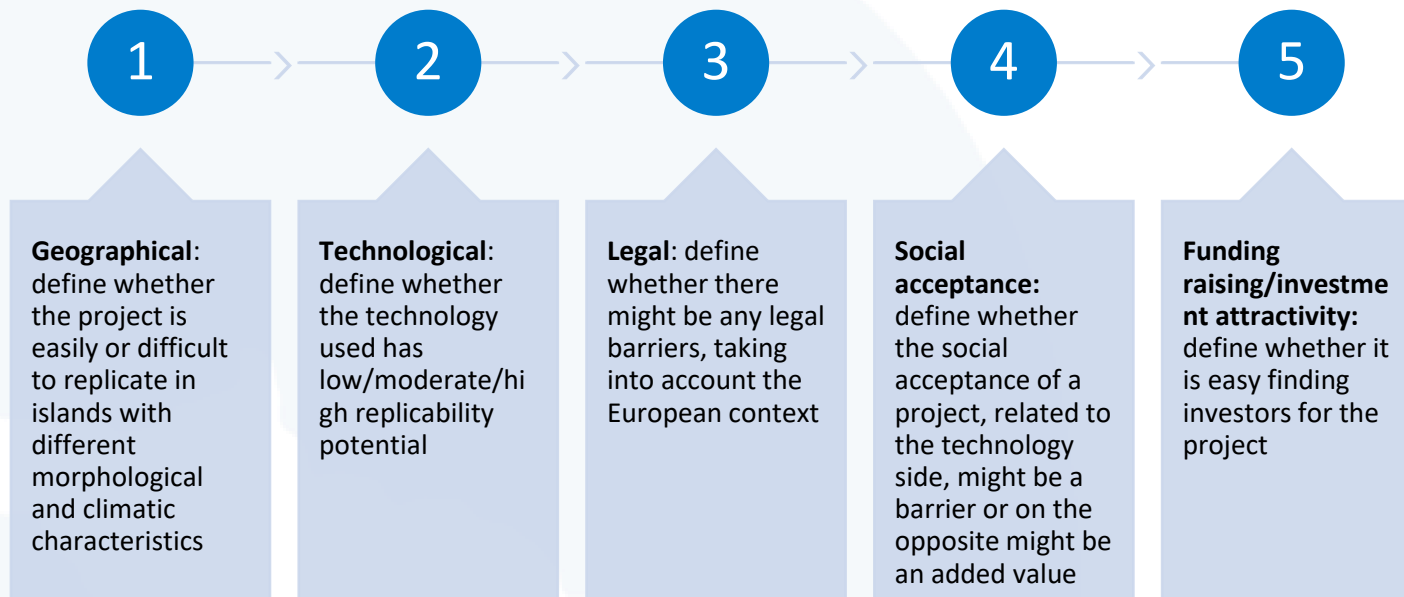
The methodology include the following steps:

- A collection of project key data with **outline of the NESOI assistance**, impacts, results and KPI.
- Timeline in relation to the **project phase during which NESOI support intervenes** (NESOI Support according to project maturity levels)
- Assessment of the Replication Potential by **measuring the Replicability Readiness Level (RRL)**.
 - The indicators consider different domains (societal, economic, legal, technological, environmental, etc.)
 - Criteria to replicate under similar/different conditions and contexts
 - Barriers to overcome for replication
- Definition of a Replication strategy for each

Replication of islands' energy transition projects

How?

Replicability readiness level (RRL) with the purpose to easily identify the replicability potential.

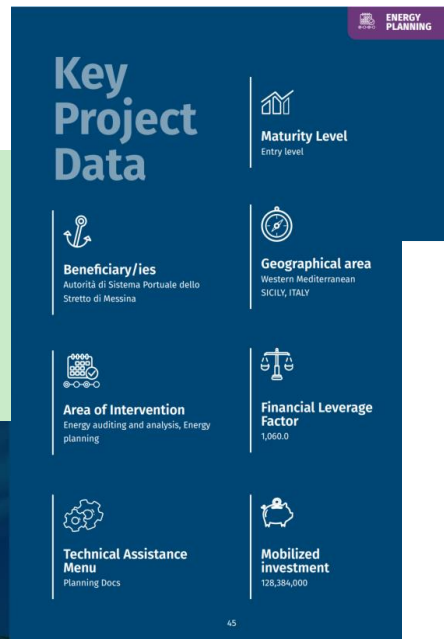


RRL			Total 2.4
Points (0=min, 3=max)			
	Geographical There is no replication constraint for the project since every island has a port	3	
	Technological Most of the technologies included in the energy plan have a high replicability in different contexts	3	
	Legal In Italy port energy plans are now mandatory, but this is not the same across the entire EU, thus the replicability is slightly lower. In any case, if it is mandatory, as in Italy, it will be a driver for the project. Where there are no legal barriers, it would be a voluntary process.	2	
	Social acceptance The project can have a high social acceptance since it benefits the community, there may be different levels of social acceptance, depending on the specific technologies selected to achieve decarbonisation	2	
	Funding raising/ investment attractiveness Port authorities are generally able to call on significant investments through public and private fund streams, but if in different contexts the situation is different and there is no obligation to develop port-level energy plans, the replicability potential could be lower.	2	

Replication of islands' energy transition projects

What?

Creation of a Guidebook for Replication that include the 15 NESOI Best Practices

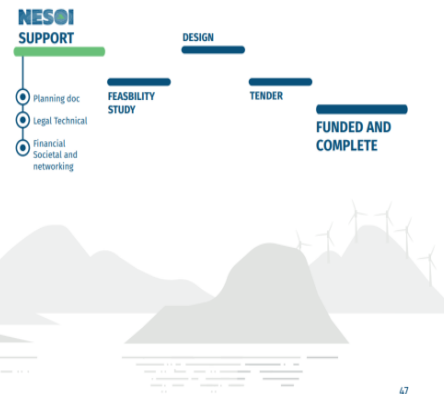


WHY IS NESOI SUPPORTING THIS PROJECT?



The project was implemented as a collaboration between local consultants and NESOI's programme partners who offered technical and financial expertise. The Port Authority has entered into further Grant Agreements with local consultants (University of Reggio Calabria, ENEA and CNR-ITAE).

The support was conducted by analysing the baseline situation of the ports in terms of socio-economic and environmental context, infrastructure, assets, traffic, and from analysing and mapping regional, national and European planning tools in order to ensure consistency across planning actions within the current framework.



NESOI Assistance: tailored solutions provided

AT LEGAL-REGULATORY LEVEL

Analysing local, regional, national, and European regulatory context

Conducting the analysis in line with the guidelines of the Italian Ministry for Ecological Transition

AT TECHNICAL LEVEL

Assessing energy balance and carbon footprint of the ports

Conducting high-level climate change risk assessment

Identifying and studying potential energy transition measures (energy efficiency of buildings and public lighting, electric vehicles, LNG storage and supply to vessels, renewable energy generation - PV and tidal power, etc.)

AT FINANCIAL LEVEL

Conducting high-level cost-benefit analysis

Identifying potential funding options

AT SOCIETAL & NETWORKING LEVEL

The activities of the D.O.C.K.S. project was presented by the CEO of the Port Authority's CEO at the "Green Salina Energy Days" event on 9 September 2021, Port&Shippingtech2021 on 7 October 2021 in Genoa, and at several seminars as well as many press releases.

RRL

Points (0=min, 3=max)

Total
2.4



Geographical

There is no replication constraint for the project since every island has a port

3



Technological

Most of the technologies included in the energy plan have a high replicability in different contexts

3



Legal

In Italy port energy plans are now mandatory, but this is not the same across the entire EU, thus the replicability is slightly lower. In any case, if it is mandatory, as in Italy, it will be a driver for the project. Where there are no legal barriers, it would be a voluntary process.

2



Social acceptance

The project can have a high social acceptance since it benefits the community, there may be different levels of social acceptance, depending on the specific technologies selected to achieve decarbonisation

2



Funding raising / investment attractiveness

Port authorities are generally able to call on significant investments through public and private fund streams, but if in different contexts the situation is different and there is no obligation to develop port-level energy plans, the replicability potential could be lower.

2

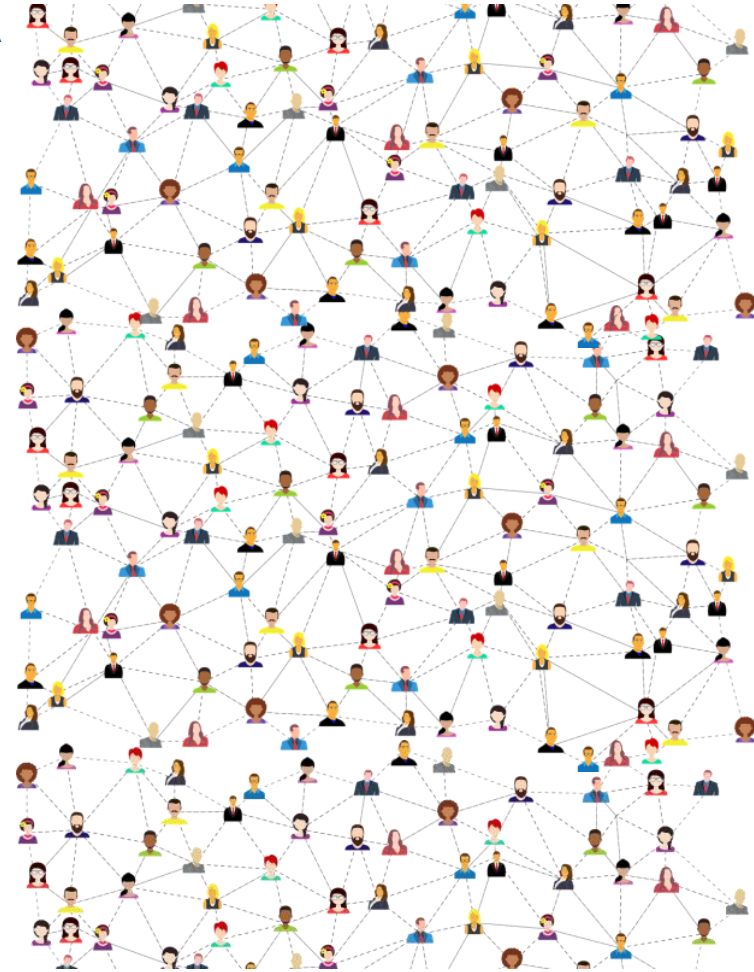
Target stakeholders

Open commenting period on draft project plan and CWA

- Relevant standards committees, working groups etc.
- Governments and authorities
- Sector forum
- Focus groups on relevant activities
- Coordination groups on relevant activities
- NESOI sister projects

In addition to the CEN-CENELEC Management Centre website, the final CWA will be advertised on:

- Sector specific newsletter
- Social media (Facebook, Instagram, LinkedIn, X)
- Research Gate
- EC Newsroom



New Energy Solutions Optimised for Islands

NESOI

EUROPEAN ISLANDS FACILITY

Thank you!



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 864266