

New Energy Solutions Optimised for Islands



Capacity Building and Funding Solutions to Replicate Islands' Decarbonization Projects

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

NESOI

178 applications

54 supported projects

63 islands/archipelagos in 11 countries

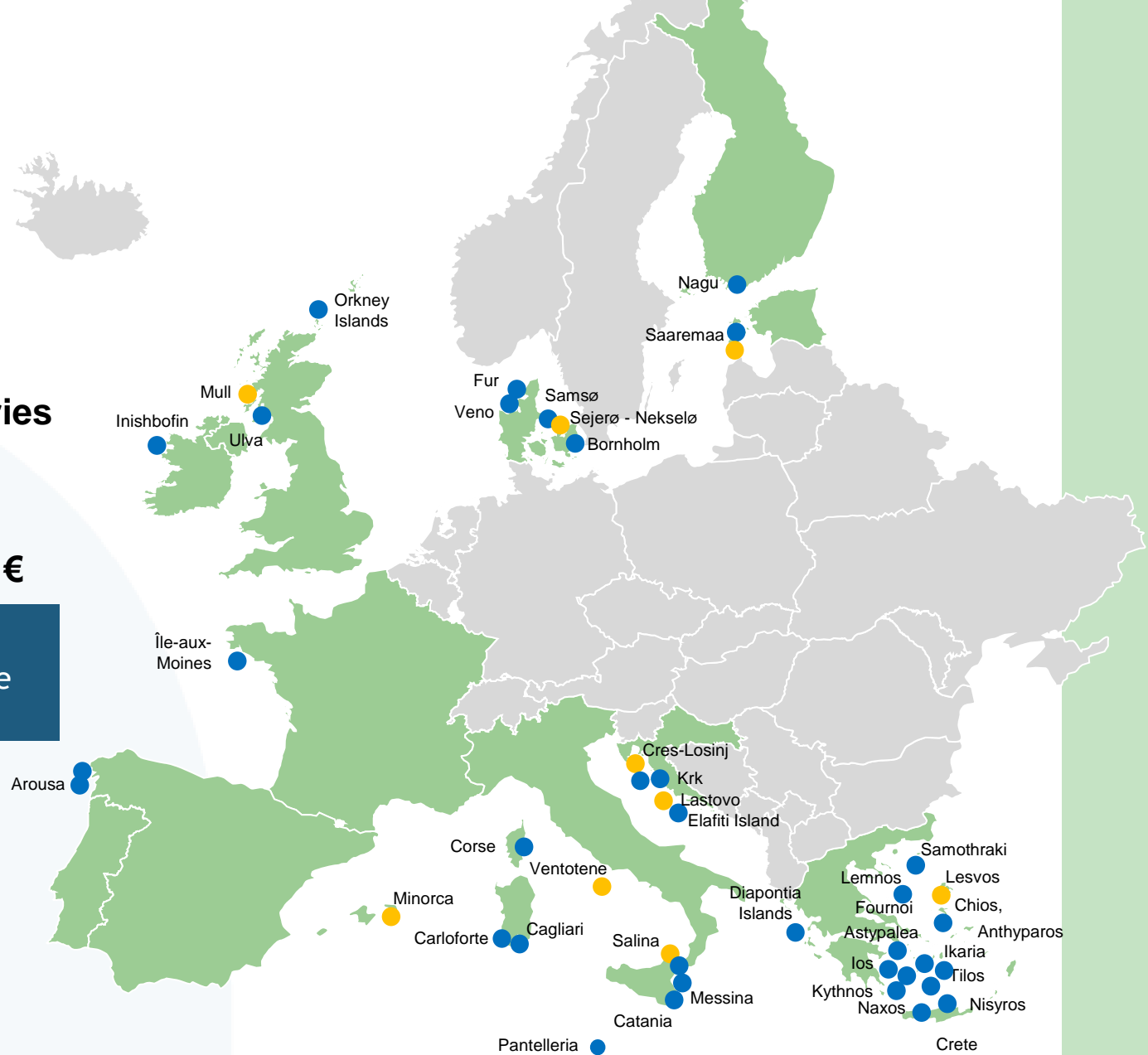
Expected investment 1.6 bn €

Technical assistance budget 6.2 mil €



5 FOCUS GROUPS

energy communities, mobility, renewable energy, planning, hydrogen



What is needed after NESOI technical assistance?

OBSERVATIONS

Success Stories

Strong local
involvement &
social acceptance

Astypalea

Illa Arousa

Most TA Work Plans

Lack of project
development
skills

Legal

Tech-Eco

Best practices, lessons learnt

Islanders inspire
each others

Appetite for knowledge sharing

INITIATIVES

Webinars
Interviews *e-Learning*

Coaching activities
for replication

Erasmus SST Programme



NESOI PLATFORM

Short Study Tours - Method and budget

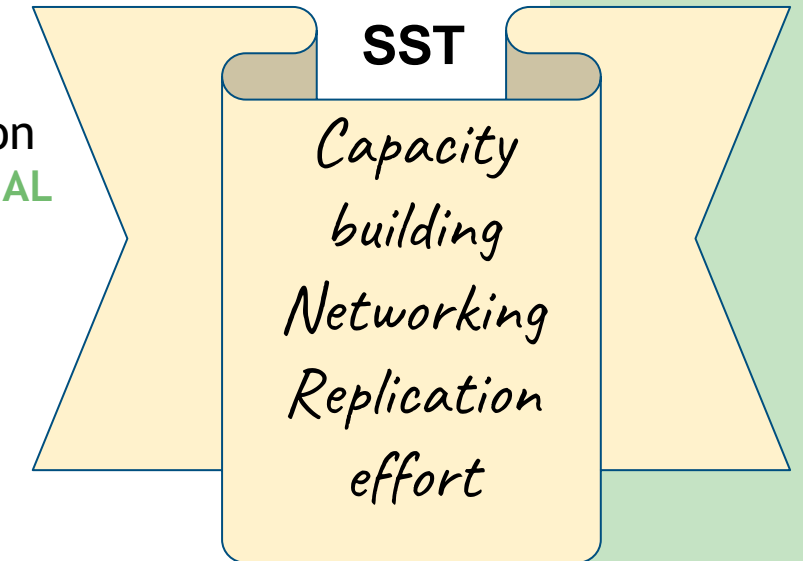


GUESTS

Cascade funding, open call and selection process applied
800 to 1150 euros based on location and destination
Selection criteria driver = HIGH REPLICATION POTENTIAL

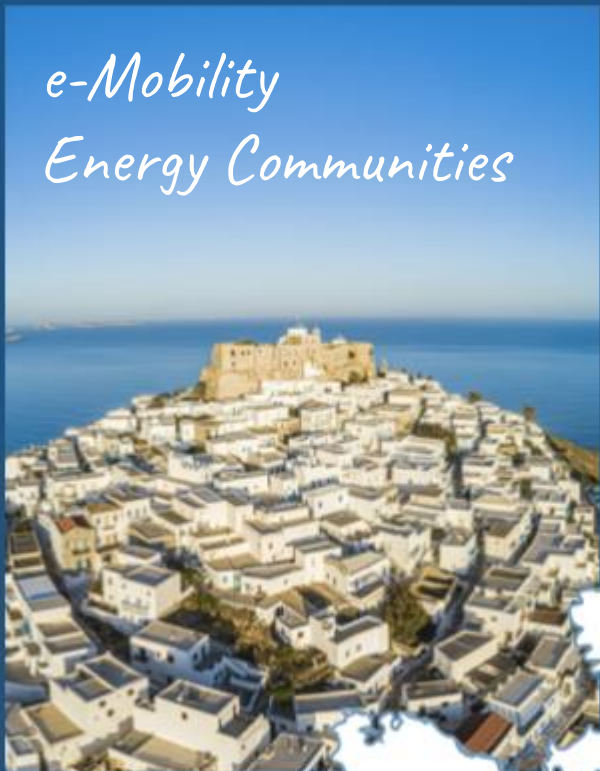
HOSTS

Capacity Building project budget
3000 euros per trip



SHORT STUDY TOUR

*e-Mobility
Energy Communities*



 **ASTYPALEA**

*DAFNI
Astypalea Municipality*

SHORT STUDY TOUR

*Port decarbonization
Clean Boats*



 **SICILY**

*Port Authority of the Strait
CNR - ENEA*

SHORT STUDY TOUR

*Marine Renewable Energies
Green Hydrogen*



 **THE ORKNEY ISLANDS**

European Marine Energy Center -EMEC

NESOI Best Practice Astypalea, Arousa, Cres and Crete joining forces!



SHORT STUDY TOUR



 ASTYPALEA

Maltezana Public Consultation



Participation in a meeting with residents to stimulate the creation of an energy community



NESOI Replication Guidebook (work in progress)

Guidebook of best practices and lesson learned → Stimulate the replication of NESOI projects



Replicability Readiness Level - replicability potential:

- **Identification of replicability indicators** (societal, economic, legal, technological, environmental, etc..)
- **Replication criteria** - conditions and contexts for replication
- **Barriers** to overcome

5 FOCUS GROUPS
energy communities, mobility,
renewable energy, planning,
hydrogen

12-15 Best Practices selected
from the Focus Group out of
54 NESOI project

Available in **6 languages**
(EN, IT, FR, ES, HR,
GR)

Exploitation of NESOI's best practices in technical assistance & capacity building + funding solutions

New Energy Solutions Optimised for Islands
NESOI
EUROPEAN ISLANDS FACILITY

OPPORTUNITIES E-LEARNING NETWORK NEWS & EVENTS ▾

0 CB Cecile Barrere

Projects & Solutions Crowdfunding Campaigns

Projects Financial solutions Technical solutions Expert advice

Explore investment opportunities in sustainable projects Filter by:

ZEN - ZERO EMISSIONS NISYROS

| | |
|------------------|-----------------------------|
| Starts | Ends |
| Q1 2024 | Q2 2026 |
| Estimated value | 2.600.000 € |
| Country | Greece |
| Island | Nisyros |
| Relevant Sectors | Energy Transition Plans ... |

SOFIA - SETUP OF FIRST CITIZENS' EN...

| | |
|------------------|--------------------|
| Starts | Ends |
| Q2 2021 | Q4 2027 |
| Estimated value | 2.816.500 € |
| Country | Spain |
| Island | Tenerife |
| Relevant Sectors | Energy Communities |

NERIDA - SUSTAINING DRINKING WA...

| | |
|------------------|---------------------------|
| Starts | Ends |
| Q1 2023 | Q? ???? |
| Estimated value | 200.000 € |
| Country | Greece |
| Island | Tilos |
| Relevant Sectors | Mobility Transition Plans |

RENEWME - RENEWABLE MALEVIZI E...

| | |
|------------------|----------------|
| Starts | Ends |
| Q1 2024 | Q? ???? |
| Estimated value | 1.676.118 € |
| Country | Greece |
| Island | Crete |
| Relevant Sectors | Automotive ... |

NESOI
PLATFORM



Connect
Fill profile

Find:

- Projects
- Support
- Funds

New Energy Solutions Optimised for Islands



EUROPEAN ISLANDS FACILITY

Funding Solutions to Replicate Islands' Decarbonization Projects

Luigi Laterza - SINLOC

NESOI and the New Green Deal

NESOI supports the **energy transition** process of European islands, contributing to the achievement of the **2030 goals** and the implementation of the policies of the **Green New Deal**

2030 European Energy Strategy

- 40% CO2 emissions

+ 32% renewable share

- 32,5% Energy consumption

+ 15 % smart grid

NESOI Contribution

54 supported projects

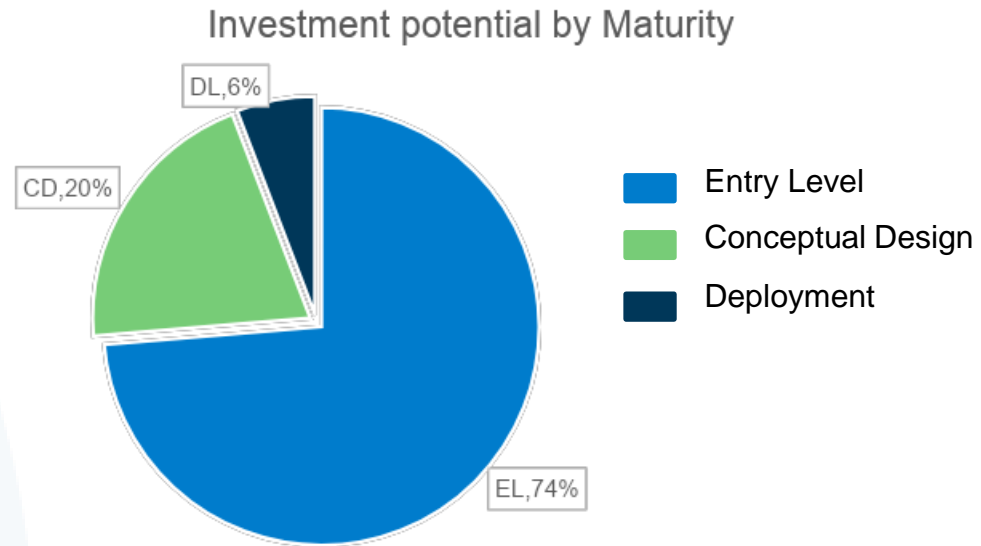
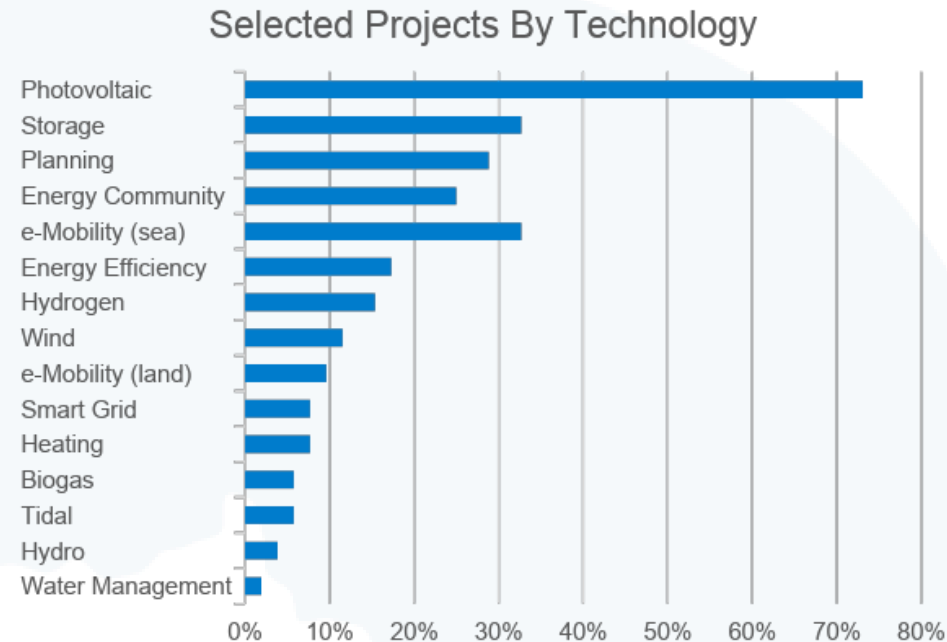
- 440 GWh/year in primary energy savings

€ 100 mln investimenti attivati

160.000 ktCO2/anno di GHG evitate

Supported projects

The response of the island has been remarkable, with a high heterogeneity across different sectors, technologies and maturity...



... demonstrating the need for a support scheme able to assist **different funding necessities**

NESOI Solution

1 Strategic planning

2 Feasibility study and business plan

3 Support in looking for / applying for funding

4 Project design

Ventotene (IT)

Definition of Mobility solution on small islands exploiting hydrogen

Investment potential | 2 M€

Cres-Korčula (HR)

Installation of a communal solar power plant on each of the archipelagos through a crowd-investment model

Exp investment | 10.5 M€

Sejerø-Nexelø (DK)

Support in accessing private funding for the setup of an e-ferry connection through the islands

Exp investment | 29 M€

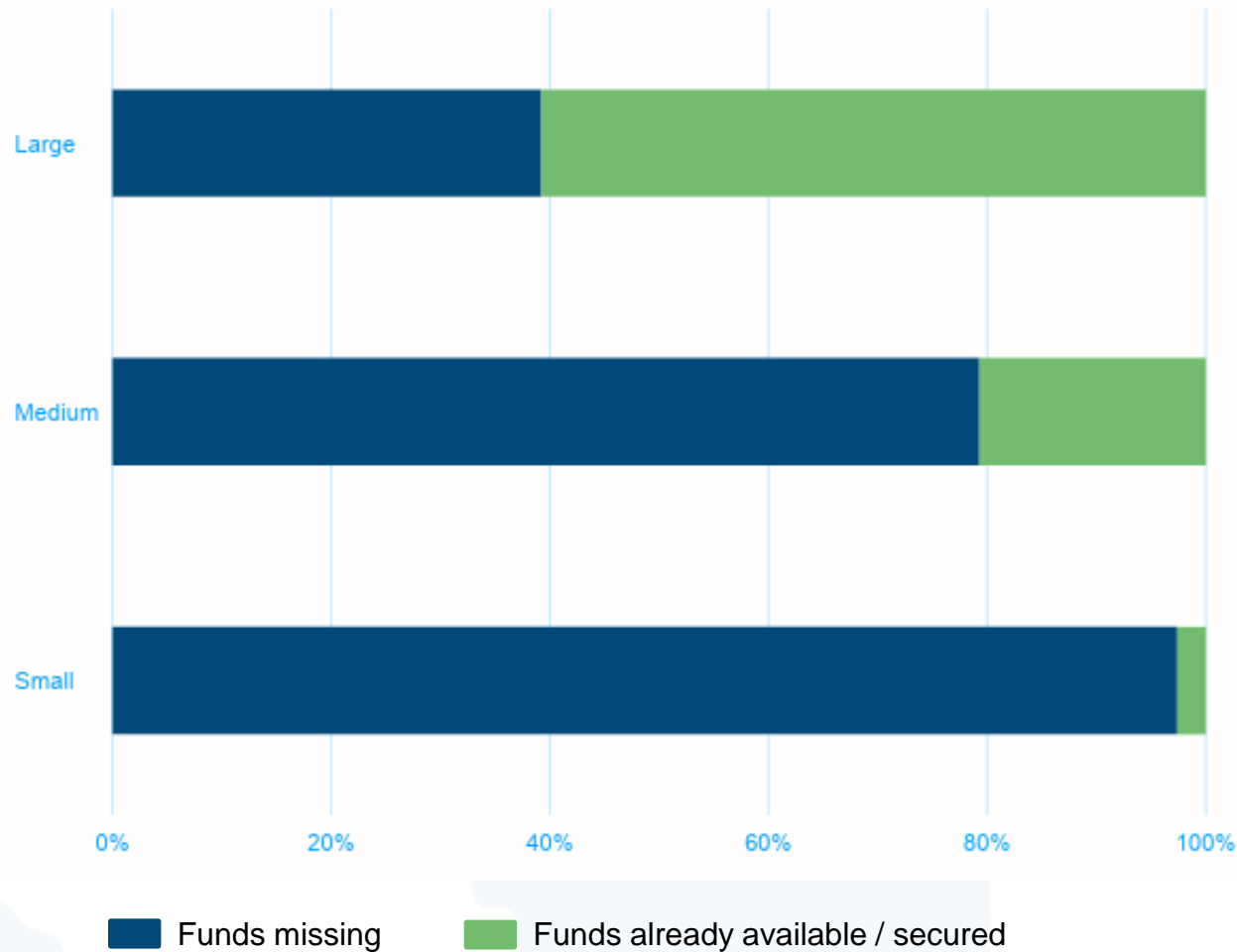
Crete (EL)

Energy efficiency interventions on the Arkalochori sport complex

Investment | 7.8 M€

Funding is... almost there

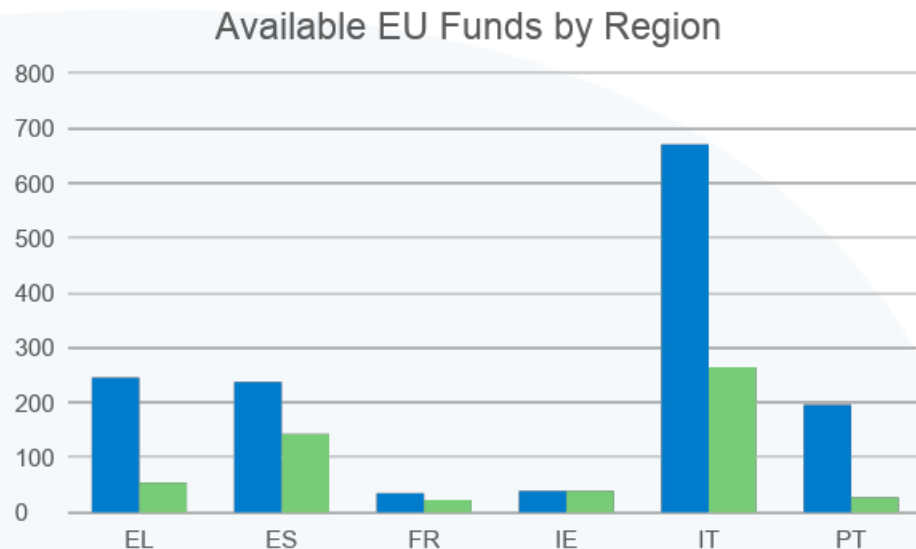
Investments by island size



The analysis of financial needs has made it possible to identify important mismatches between projects and finance, especially in **small islands**

Funding is... almost there

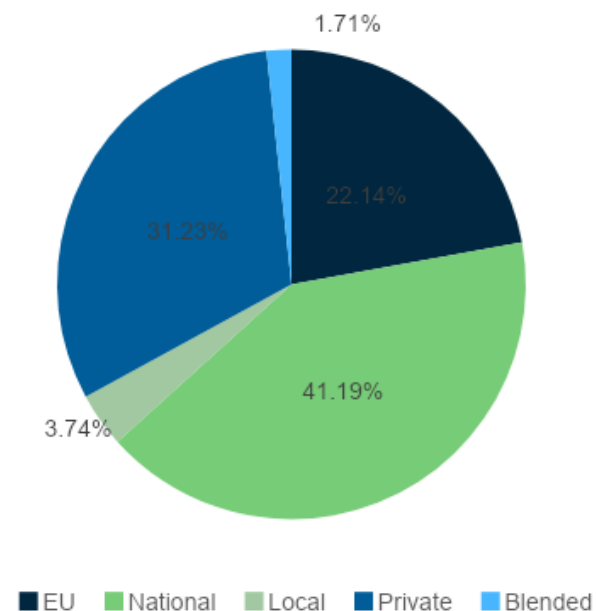
Despite the availability of resources of the new European programming framework...



EL: North Aegean, South Aegean, Crete
ES: Canary Islands
FR: Corse
IE: North-Western Regional Assembly
IT: Sicily, Sardinia
PT: Azores

■ Funds mapped
■ Funds «eligible»

Funds ensured by typology



... only a small percentage of the allocated funds meets the scope and the needs of islands

Interactions with financial institutions - lessons learned

- **Critical mass** to mitigate the limits of the hyper-fragmentation of interventions and improve sustainability and impact profiles
- **Responsiveness** as the implementation timetables of the 21-27 Financial Framework are relentless
Continuous dialogue with institutions, to interpret the rapid evolution of the regulatory framework
- Relevance of the **Technical Assistance** as a tool for project readiness and bankability

Technical Assistance as a tool to:

Support planning and aggregation processes

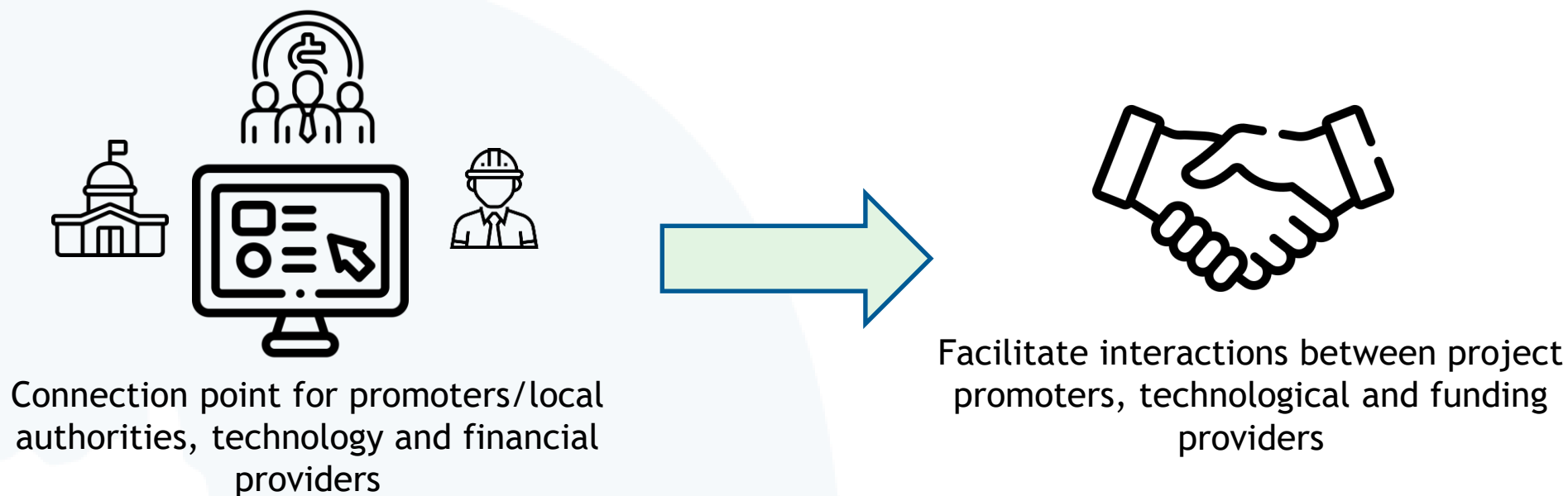
Assessment of sustainability and impact profiles

Identify funding and procedural options

Unlocking investments

NESOI PLATFORM

A reference point for the European islands Community



Smart Matching

3 fundamental smart matching use cases

- Project & Financial Solution
- Project & Technological Solution
- Project & Expert Advice

Matching according to 7 parameters

- Country
- Estimated Value
- Estimated Project Period (Start-End)
- Relevant Technologies
- Relevant Sectors
- Type of financial solution
- Taxonomy



SOFIA - SETUP OF FIRST CITIZENS' ENERGY COMMUN...

| | |
|------------------|-------------|
| Starts | Ends |
| Q1 2022 | Q? ???? |
| Estimated value | 120.000 € |
| Country | Bulgaria |
| Island | Test Island |
| Relevant Sectors | Automotive |

Funding
Similarity

44%

Technical
Similarity

32%

Advice
Similarity

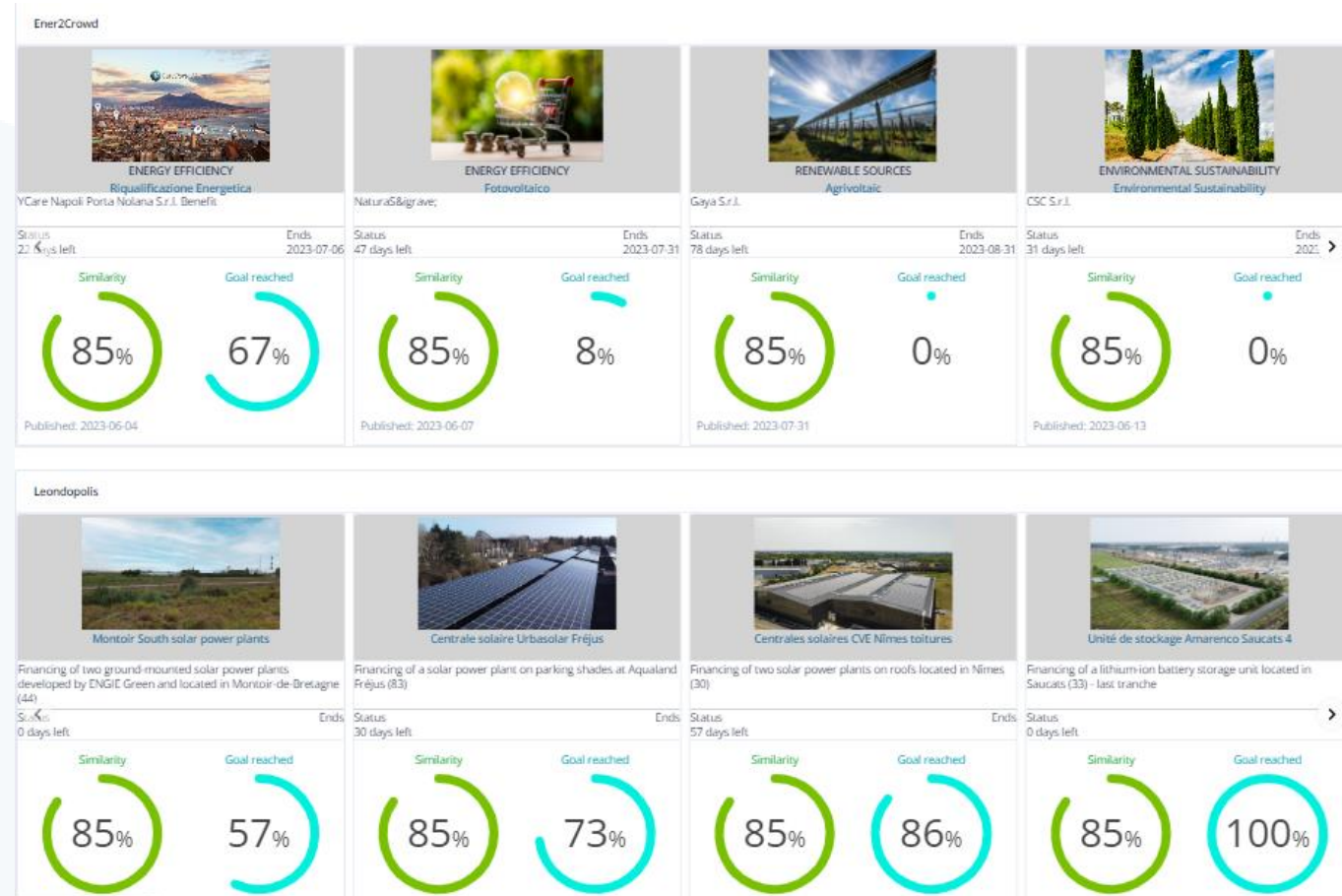
25%

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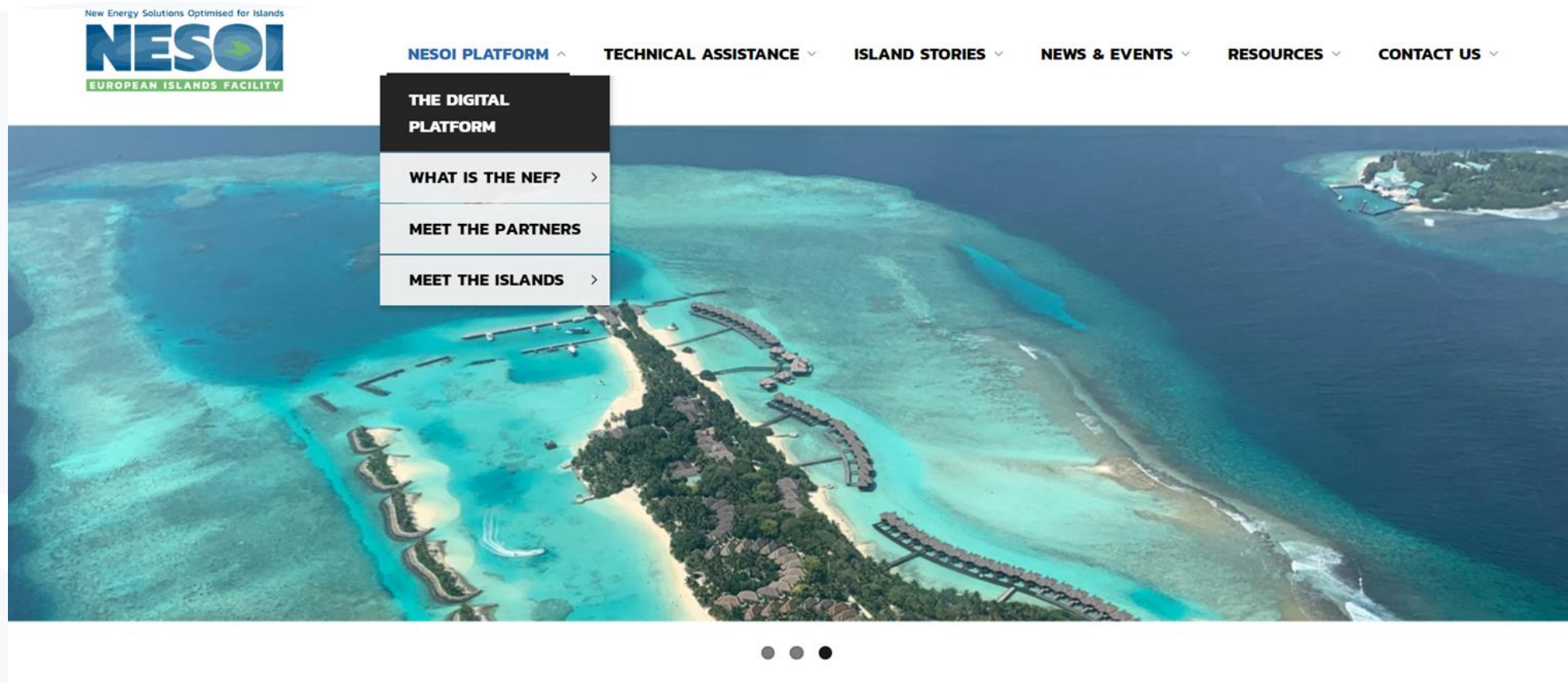
Crowdfunding Component

In the specific section dedicated to crowdfunding, it is possible to reach **investment opportunities** activated through external platforms



Visit and log into the Platform!

www.nesoi.eu



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Thank you!

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