ECOSYSTEMIC TRANSITION HUB ETU

ETU Call 2:
Catalogue of Transferable Solutions

A compilation of Transfer Sheets for the 12 solutions selected for ETU Call 2

Interreg Euro-MED Green Living Areas Mission



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ETU Call 2 – List of Transferable Solutions

Explore the 12 tested solutions available for transfer through ETU Call 2.

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Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

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PROJECT ACRONYM
ArtMED

Full project title
Autonomous Mobility on Demand in the Euro-MED Area

TOP SOLUTION TITLE
.MOBI – Dynamic On-demand Tool for Mobility

Free web tool to assess on-demand and autonomous public transport

THEMATIC AREA
Green Mobility

SOLUTION TYPE
Web-based tool and user guide

CHALLENGE ADDRESSED
Public transport in low-density areas

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed

Low-density Euro-MED areas face poor public transport, car dependency and CO2 emissions, and transport authorities lack accessible tools to assess on-demand services.

Description of the solution

Free web tool to evaluate demand-responsive and autonomous on-demand transport: fleet sizing, scenario comparison, economic evaluation and revenue, plus CO2, service quality and labour market indicators.

Documents and links

.MOBI – ETU solution page

Primary target users

Public transport authorities and operators, transport planners and decision makers.

2 Replicability and Adaptation Potential

Potential applications

Assessing the potential of on-demand public transport, building political support, planning investments and designing more inclusive, sustainable transport. At least 30 Euro-MED transport authorities are potential adopters. The platform is only in English for now.

Suitable territorial contexts

Islands, rural, peri-urban and mountain areas. Regional inputs such as population density and terrain adapt results to each context. Tested in urban, peri-urban and rural areas; usable in diverse territorial contexts.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials

Transfer support through IED's transfer strategy, École Centrale de Lyon's follow-up through data collection, and the Euro-MED Academy and thematic communities.

Structured programme by École Centrale de Lyon: three to four meetings to help transport authorities adopt .MOBI and use it independently:

- Meeting 1: scope of the application, required data and objectives of the analysis.
- Meeting 2: difficulties and questions from the first use of the tool; guidance.
- Meeting 3: analysis of results, alternative scenarios, consistency and relevance of findings.
- Meeting 4 (optional): user feedback and options to improve or adapt the tool to operational needs.

Indicative outcomes and outputs

- M1: users understand how .MOBI works, the input data needed and how to frame their analysis.
- M2: questions solved; users can proceed independently.
- M3: users interpret results, explore scenarios and use .MOBI for decision support.
- M4: full autonomy; feedback collected to improve the tool and its transferability.

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials

Short online meeting by École Centrale de Lyon to introduce the tool and give initial guidance, plus tutorial videos and documentation for the first steps with .MOBI.

Indicative outcomes and outputs

Solid understanding of .MOBI's functions, so users can apply the tool independently, explore scenarios, interpret results and support transport planning decisions.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Ability to use a digital tool	Same as full takers	*Start*
Data and information	Regional inputs (population density, distances…); mobility service data (costs, service quality, vehicles)	Same as full takers	*Start*
Digital resources	Free web tool, user guide and tutorial (English only)	Same as full takers	*Mentoring*
Stakeholder involvement	Committed municipalities and operators	Same as full takers	*Later*
Operational conditions	A mobility service being rolled out or under consideration	Same as full takers	*Start*
Regulatory aspects	Supportive framework for AMOD deployment	Same as full takers	*Mentoring*
Other relevant requirements	User with good insight into the transport authority's strategy	Same as full takers	*Start*

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation

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PROJECT ACRONYM
BAUHAUS4MED

Full project title
Testing New European Bauhaus Solutions for Deep Green Transformation of Cities and Regions in Euro-MED area

TOP SOLUTION TITLE
Crowdvocacy – Digital Platform for Citizen Participation

Participatory methodology and platform for citizens to co-create green areas

THEMATIC AREA
Green Community engagement

SOLUTION TYPE
Participatory methodology and digital platform

CHALLENGE ADDRESSED
Citizen co-creation of green spaces

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed
Citizens need accessible ways to co-create green spaces and other urban solutions, supporting deliberative and participatory democracy.

Description of the solution
Participatory multi-platform for public-private partnerships: citizens submit, discuss and vote on proposals for urban projects such as green spaces. It supports local nodes and open calls (B4M Dashboard).

Documents and links
Crowdvocacy – ETU solution page
B4M platform: b4m.space

Primary target users
Local authorities and sectoral agencies, with partnerships and citizens.

2 Replicability and Adaptation Potential

Potential applications
Participatory co-creation of green areas and other urban projects, and launching and managing open calls with local nodes. As a scalable tool, the dashboard can be adapted to other projects and regions.

Suitable territorial contexts
Municipalities and regions; EU-funded projects. Best fit: a concrete local challenge, a committed public-community ecosystem and a credible path from citizen input to institutional response.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
Transfer as a participatory methodology (community mobilisation, collective campaigning, pathways to policy impact) supported by digital tools. Six-month mentoring:

- Month 1 · Assessment: local participation ecosystem, environmental or urban challenge, stakeholders and policy opportunities.
- Month 2 · Co-design: objectives, engagement, advocacy strategy, inclusive participation, institutional response.
- Month 3 · Preparation: platform feasibility, technical needs, moderation, accessibility, communication.
- Months 4–5 · Testing: mentored small pilot or prototype, mobilisation, facilitation, feedback and iteration.
- Month 6 · Evaluation: engagement, policy impact, lessons, scaling options and responsibilities.

Shareable: guidance, B4M cases, stakeholder and campaign templates, safer-space guidance, platform demos, policy-tracking, and evaluation tools.

Indicative outcomes and outputs
- M1: transfer assessment, stakeholder map and pilot challenge
- M2: pilot design and engagement plan
- M3: technical adaptation roadmap and implementation plan
- M4–5: tested pilot or validated prototype, with documented feedback
- M6: transferability report and implementation roadmap

Software development, dedicated hosting or custom deployment need a separate feasibility and resource assessment.

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
One workshop, study visit or online demonstration of the Crowdvocacy methodology and B4M cases; access to selected guidance, canvases and examples; facilitated discussion of local applicability.

Indicative outcomes and outputs
Short readiness assessment or concept note outlining possible local use.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Local coordinator with community engagement experience; IT support for technical assessment	Contact familiar with local sustainability or participation; no IT skills needed	Start
Data and information	Local challenge, stakeholder map, participation channels, context data, data-protection setup	Basic local context and potential use case	Start
Digital resources	Internet, communication channels, capacity to test a digital process; own platform optional	Internet access for demonstrations and exchanges	Start / Mentoring
Stakeholder involvement	Local authority and community actors, incl. underrepresented groups, co-design a pilot	Interest from a local authority or community organisation	Start / Mentoring
Operational conditions	Coordinator; time for mentoring, one co-design activity, a small pilot and documentation	One exchange activity and brief feedback	Start
Regulatory aspects	GDPR, accessibility and participation rules; data, moderation and communication roles set	Compliance with rules for exchange activities	Mentoring
Other relevant requirements	Concrete challenge; will to respond to outcomes; inclusive engagement; sharing lessons	Willingness to explore applicability and share learning	Start

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Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

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PROJECT ACRONYM

INFIRE

INnovative FInancing solutions for climate planning of REsilient and carbon neutral living areas

TOP SOLUTION TITLE

Cost Comparator and Optimiser of Financing Models and Schemes

Excel tool to choose and optimise financing for green building projects

THEMATIC AREA

Financing the green transition

SOLUTION TYPE

Excel cost comparator and optimiser

CHALLENGE ADDRESSED

Financing building, renewable energy and mobility projects

SPECIFIC OBJECTIVE

2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed

Municipalities and project developers struggle to choose the most suitable financing for decarbonisation and adaptation projects with long-term affordability.

Description of the solution

INFIRE Excel tool to compare the overall cost of loans, grants and bonds. Users adjust interest rates, repayment periods and grant share to explore financing scenarios for building decarbonisation and adaptation projects.

Documents and links

Cost Comparator: Euro-MED Academy

Related tool: INFIRE Financial and Economic Evaluation Tool

Primary target users

Municipalities, public authorities, energy agencies and project developers.

2 Replicability and Adaptation Potential

Potential applications

Selecting and optimising financing for carbon-neutral and climate-adaptive building projects, showing cost–risk–sustainability trade-offs and improving bankability. Tested in a real application across several pilot cases. A user guide and an example case are recommended for non-financial users.

Suitable territorial contexts

Mediterranean territories, including urban, rural, coastal and island contexts. Financial assumptions are adapted to local interest rates, taxation, inflation and discount rates.

3 Mentoring and Technical Support Offered

Schemes pending giver approval

FULL TAKER MENTORING SCHEME ☐ *Offered by the giver (type X)*

Potential mentoring activities and materials

1. Kick-off: agree on one use case, available data and learning objectives.
2. Demonstrate the Excel tool and explain its inputs and assumptions.
3. Guide the taker through data entry and comparison of financing scenarios.
4. Review results, discuss limitations and agree next steps.

Materials: tool workbook and presentation; a worked example or short guidance note, subject to availability.

Confirm staff capacity, number of sessions and schedule within the ETU mentoring period.

Indicative outcomes and outputs

PROPOSED OUTPUTS

One populated workbook for the taker's use case; a comparison of financing scenarios; a short note on assumptions, findings and next steps.

Proposed scope excludes securing finance, preparing a full funding application or certifying investment viability.

SOFT TAKER MENTORING SCHEME ☐ *Offered by the giver (type X)*

Potential mentoring activities and materials

PROPOSAL: One online knowledge-exchange session with a tool demonstration, an illustrative financing comparison and Q&A. Share the presentation and available tool materials. Format and access conditions require confirmation.

Indicative outcomes and outputs

PROPOSAL: Participants understand the tool's purpose and data needs and identify a potential use case. This scheme does not include an individual project assessment.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Basic financial literacy; designated finance/project officer.	Interest in climate-project financing; no specialist expertise proposed.	Start
Data and information	One use case; project costs and indicative financing terms. Refine inputs during mentoring.	No project dataset required for the introductory session.	Start / mentoring
Digital resources	MS Excel and access to online meetings; workbook compatibility to be checked.	Online-meeting access; Excel only for hands-on use.	Start
Stakeholder involvement	Contact with project owner and finance team.	Nominate a participating representative.	Start
Operational conditions	Allocate staff time for sessions and workbook preparation.	Availability for one exchange session.	Start
Regulatory aspects	Use local financing assumptions; check applicable rules before implementation.	No additional condition proposed.	Mentoring / later
Other relevant requirements	No additional requirement proposed.	No additional requirement proposed.	—

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Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

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PROJECT ACRONYM

EnerCmed

Full project title

Testing energy-community & climate-resilient integrated paradigm for carbon neutrality and energy poverty shielding in MED city-port hinterlands

TRANSFERABLE SOLUTION TITLE

Feasibility Scan Tool for Renewable Energy Communities and NBS

Self-assessment of the readiness of renewable energy community projects

THEMATIC AREA

Green energy systems · Community engagement

SOLUTION TYPE

Online feasibility scan within a methodological framework

CHALLENGE ADDRESSED

Energy communities against energy poverty in port hinterlands

SPECIFIC OBJECTIVE

2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed

Vulnerable port-hinterland neighbourhoods face energy poverty and heat islands, while complex rules and technical, financial and governance barriers slow energy communities.

Description of the solution

Online self-assessment of a planned REC or self-consumption scheme (SCS): 12 criteria on social engagement, policy and regulation, PV design, monitoring, maintenance, digital management and climate risk (UHI).

Documents and links

Feasibility Scan Tool (online form)
Framework for RECs, ToR D1.3.1 (PDF)
ETU solution page

Primary target users

Local authorities and stakeholders promoting RECs and self-consumption schemes.

2 Replicability and Adaptation Potential

Potential applications

Screening a planned REC or SCS before detailed design: each criterion is rated Adequate, Good or Excellent against a minimum level. The framework's four checklists then guide engagement, technical, legal and NBS work. Piloted in Genoa, Valencia, Patras, Pula and Novigrad.

Suitable territorial contexts

Urban areas and ports, especially vulnerable neighbourhoods in port hinterlands. REC rules depend on national transposition (IT, ES, HR, EL covered).

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME *X Offered by the giver (type X)*

Potential mentoring activities and materials

Materials: the Feasibility Scan and the EnerCmed framework (ToR D1.3.1), including four checklists and examples from the pilot areas. Support during the six-month mentoring period will cover use of the scan, interpretation of results and discussion of local priorities. Activities will be agreed according to takers' needs and available project resources.

Indicative outcomes and outputs

A completed Feasibility Scan and identification of local strengths, gaps and priorities for further development. Support covers guidance and knowledge exchange. Detailed design and implementation are outside its scope. Access to the online version will follow its release.

SOFT TAKER MENTORING SCHEME *X Offered by the giver (type X)*

Potential mentoring activities and materials

Participation in a knowledge-exchange activity presenting the EnerCmed approach, the Feasibility Scan and selected pilot experiences. Relevant project materials will support questions and discussion.

Indicative outcomes and outputs

An understanding of the EnerCmed approach and its potential relevance to the participant's territory.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Capacity for a site-specific REC/SCS technical design (preliminary design at least)	Interest in RECs, self-consumption or NBS. No specific technical expertise required.	Start*
Data and information	Complete, up-to-date socio-demographic and vulnerability data for the target neighbourhood (key indicators at least)	A brief description of the local context and learning interests.	Start*
Digital resources	System to monitor energy production, consumption and sharing (planned at least).	Internet access if the exchange takes place online.	Mentoring
Stakeholder involvement	Active social networks, associations or community groups; clear social benefits for vulnerable groups	Willingness to share local experience and interests.	Mentoring
Operational conditions	Engagement monitoring and feedback tools (some at least); long-term PV operation and maintenance strategy	Availability to participate in a knowledge-exchange activity..	Start*
Regulatory aspects	REC/SCS rules identified; PV permitting constraints clearly defined; at least partial policy alignment	Interest in the topic. No prior regulatory knowledge required.	Mentoring
Other relevant requirements	Climate-risk assessment of the area, including Urban Heat Island effects.	Interest in the EnerCmed approach and its possible local application.	Mentoring

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Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

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PROJECT ACRONYM
GREENMO

Full project title
Promoting Green and Inclusive Mobility hubs for greener MED living areas

TOP SOLUTION TITLE
GREENMO Strategy for MED Green and Inclusive Mobility Hubs

Six-stage roadmap to plan, implement and monitor inclusive mobility hubs

THEMATIC AREA
Green Mobility

SOLUTION TYPE
Methodology / framework and guidelines

CHALLENGE ADDRESSED
Integrated, inclusive mobility hubs

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed

Fragmented mobility networks and unequal access, with different needs in urban, suburban and rural areas, tourist seasonality and no planning framework for hubs.

Description of the solution

Strategy turning the mobility hub concept into 16 activities in six stages (Engage, Understand, Design, Plan, Implement, Monitor), from stakeholder engagement to governance, financing and monitoring.

Documents and links

https://etuinitiative.eu/solutions/greenmo-strategy-for-med-green-and-inclusive-mobility-hubs/

Primary target users

Local authority staff in charge of mobility hubs; policy makers, planners, transport authorities.

2 Replicability and Adaptation Potential

Potential applications

Designing and piloting mobility hubs linked to SUMPs: site selection, implementation roadmap, governance and ownership models, funding, communication campaigns and KPI-based monitoring. Good practices: Madrid (urban), Antwerp (suburban), Den Oever (rural).

Suitable territorial contexts

Urban, suburban and rural areas, each with its own hub type and governance model, including tourist destinations with seasonal peaks, e.g. islands.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME ☐ *Offered by the giver (type X)*

Potential mentoring activities and materials

Indicative outcomes and outputs

SOFT TAKER MENTORING SCHEME ☒ *Offered by the giver (type X)*

Potential mentoring activities and materials

- Webinars introducing the mobility hub concept, characteristics per type and governance structures, supported by training material.
- Presentation of the six-stage Cycle of GREENMO Strategy for planning, developing and monitoring green and inclusive mobility hubs.
- Onsite or online practical exchange session, where relevant, to explore real-life applications and recommendations for decision makers.
- Preparation of a tailor-made Soft Action Plan identifying immediate next steps for the taker.

Shareable: the strategy and roadmap, training material on mobility hubs, the governance insight report and recommendations for decision makers.

Indicative outcomes and outputs

- Better understanding of mobility hubs.
- Access to evidence-based material.
- A short Soft Action Plan outlining priority actions, key stakeholders to involve, initial data needs and recommended next steps.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	-	Local authority or organisation active in local mobility planning and sustainable transport.	Start
Data and information	-	Willingness to share info on local mobility conditions, transport services and relevant plans.	Mentoring
Digital resources	-	-	-
Stakeholder involvement	-	Willingness to identify and facilitate potential involvement: operators, NGOs, vulnerable groups, private sector	Mentoring
Operational conditions	-	A contact person to coordinate participation in the knowledge-exchange activities.	Start
Regulatory aspects	-	-	-
Other relevant requirements	-	Commitment to participate in all proposed online sessions and knowledge-exchange activity / study visit, where relevant.	Start

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation · * indicative, to be confirmed by the giver

Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

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PROJECT ACRONYM
MED COLOURS

Full project title
MEDiterranean COllaborative LOgistics for the URban Space

TRANSFERABLE SOLUTION TITLE
Guidelines for Resilient Urban Logistics Planning

Framework to strengthen the resilience of urban logistics plans and turn them into resilient governance tools

THEMATIC AREA
Promoting Green Living Areas

SOLUTION TYPE
Guidelines

CHALLENGE ADDRESSED
Sustainable, resilient urban logistics for decarbonised urban areas

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed
Urban freight faces growing challenges, arising from changing delivery demands and patterns, as well as increasingly and severe extreme weather events. In Mediterranean cities even isolated events can trigger cascading disruptions across urban logistics systems.

Description of the solution
A collaboratively developed resilient Sustainable Urban Logistics Plan (SULP) framework encompassing a Two-Pillar Diagnostic framework (innovation readiness, SUMP/SULP performance) and enhancements to the existing 12-step SULP cycle for adaptive governance, aiming at more sustainable, resilient urban logistics systems.

Documents and links
MED COLOURS Guidelines for Resilient Urban Logistics Planning (D1.2.1);
MED COLOURS Training Course: Resilient Urban Logistics Planning: Guidelines and Solutions from MED Cities | OPEN ENLoCC Learning Platform

Primary target users
City planners and practitioners; Euro-MED partner cities.

2 Replicability and Adaptation Potential

Potential applications
Support the integration of sustainability and resilience objectives into a continuous planning and policy cycle, enabling the implementation of sustainable urban logistics measures, monitoring their performance under both normal and disruptive conditions, and institutionalising learning and continuous improvement over time.
Tested at different levels in Cesena, Koper, Lisbon, Livorno, Lyon, and Thessaloniki, and in a developed Transfer Phase with Ferrara, Granada and Maribor. Addresses constraints and obstacles at the institutional and governance levels.

Suitable territorial contexts
Mediterranean cities and peri-urban areas at different levels of planning maturity.
Assessed as fully transferable and scalable.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
- Online capacity-building webinar (one session)
- Online training course
- Two-pillar diagnosis tool
- Shareable materials
- Mentoring meeting (one meeting)
- In-person workshop in Lisbon 21st May 2027 (limited number of participants)

Indicative outcomes and outputs
- Ppt capacity-building slides
- Two-pillar diagnosis tool
- SULP planning cycle diagram
- Full takers may start to plan developing a SULP by working on Phase 1 of the SULP planning cycle

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
- Online capacity-building webinar (one session)
- Online training course
- Two-pillar diagnosis tool
- Shareable materials

Indicative outcomes and outputs
- Ppt capacity-building slides
- Two-pillar diagnosis tool
- SULP planning cycle diagram
- Soft takers may start discussing Phase 1 of the SULP planning cycle

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Personnel competent on mobility and logistics	Interest in acquiring urban logistics and mobility competences	Mentoring
Data and information	Relevant data sources mapped at municipal / FUA level	Understanding of relevant data sources at municipal / FUA level	Mentoring
Digital resources	Single data entry point at municipal / FUA level	Single data entry point at municipal / FUA level	Later
Stakeholder involvement	Mapping of relevant stakeholder to be involved in the SULP development process	Mapping of relevant stakeholder to be involved in the SULP development process	Mentoring
Operational conditions	N/A	N/A	n/a
Regulatory aspects	N/A	N/A	n/a
Other relevant requirements	Political will to develop a SULP	Interest in developing a SULP	Start

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation

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PROJECT ACRONYM
LOGREENER

Full project title
Composing Local Green Energy Transition

TRANSFERABLE SOLUTION TITLE
LOGREENER Toolkit to Guide Local Green Energy Transition

Toolkit to plan, implement and monitor the local energy transition

THEMATIC AREA
Green energy systems

SOLUTION TYPE
Online toolkit (Toolbox)

CHALLENGE ADDRESSED
Local energy transition planning

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed
Local authorities often lack capacity and tools to plan the energy transition: integrating renewables, fiscal incentives, scenario modelling and monitoring.

Description of the solution
Online toolkit integrating three Interreg MED projects: COMPOSE (step-by-step planning and monitoring), PRISMI (renewable energy scenario modelling) and LOCAL4GREEN (local green fiscal policies).

Documents and links
LOGREENER – ETU solution page
LOGREENER toolkit (ReSEL Toolbox)

Primary target users
Policy makers and planners, local authority technical staff, energy and development agencies.

2 Replicability and Adaptation Potential

Potential applications
Drafting or updating local energy transition plans and SECAPs, assessing renewable integration through scenarios, and designing local tax incentives for renewables. Includes best practices, case studies, guides, videos and webinars. Developed by ReSEL, Technical University of Crete.

Suitable territorial contexts
Urban, rural and insular areas; municipalities and multiplier bodies such as municipal associations, energy agencies and energy communities.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
Up to 3 bilateral online meetings per taker with the partners in charge of each toolkit section, giving specific guidance on how to apply the tools:

- University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture: renewable energy scenario modelling.
- MUSOL Foundation: local fiscal policies driving the sustainable energy transition.
- Technical University of Crete (ReSEL): Sustainable Energy Planning model, i.e. how to design and implement projects step by step and navigate the toolkit (1 of the 3 meetings).

Shareable: toolkit, training materials, webinars and guides (CC BY-NC-ND 4.0).

Indicative outcomes and outputs
Output: up to 3 bilateral online meetings per taker with the partner responsible for the selected toolkit section, with the presentation materials shared. For 1–2 takers.

Outcome: a table of contents for the document applying the chosen toolkit section, plus up to 2 pages of instructions on how to develop its contents.

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
Online group meetings (max. 2) with the specialised partners in charge of each toolkit section (see full scheme): detailed presentation of the toolkit and answers to takers' specific questions.

Indicative outcomes and outputs
Output: recordings and slides of the group meetings, as a reference for applying the toolkit independently.

Outcome: takers' staff understand the toolkit well enough to start applying it on their own.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Policy makers, planners and technical staff; energy agency support	Same as full takers	Start
Data and information	Local energy data for scenario modelling, best resolution available (ideally hourly for electricity and heat, yearly for fuels by sector); other data agreed at the first meeting	Not applicable	Start
Digital resources	Free online toolkit	Free online toolkit	Start
Stakeholder involvement	Participatory, bottom-up approach	Participatory, bottom-up approach	Later
Operational conditions	Not applicable	Not applicable	n/a
Regulatory aspects	Link to a SECAP or local energy plan; list of taxes and fees managed by the taker municipality	Not applicable	Start
Other relevant requirements	Not applicable	Not applicable	n/a

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Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

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PROJECT ACRONYM
NUDGES
Behavioural and Cultural Nudges for Climate Engagement

TOP SOLUTION TITLE
From Behavioural Nudges to Cultural Boosts for Climate Action
Behavioural-cultural methodology to turn climate awareness into action

THEMATIC AREA
Green Community engagement

SOLUTION TYPE
Methodology and transferability plan

CHALLENGE ADDRESSED
Gap between climate awareness and action

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed
Climate awareness rarely turns into lasting behaviour; information-based messages have limited effect and interventions do not travel easily between cultures.

Description of the solution
Behavioural-cultural methodology: Blueprint (D1.3.1) to design, run and evaluate nudges; pilot Blueprints (D2.1); Transferability Plan (D3.1.1), from nudges to 'cultural boosts'; Action Research Agenda (O3.1).

Documents and links
NUDGES – Behavioural and Cultural Nudges for Climate Engagement

Primary target users
Local and regional authorities, cultural bodies, NGOs, schools, research bodies.

2 Replicability and Adaptation Potential

Potential applications
Four pathways: replication, adaptation, scaling-up, mainstreaming. Six pilots tested one sense each, with control groups and 6-month follow-up: Gabrovo (BG), Madridejos (ES), Slovenska Bistrica (SI), Pescara (IT), Thessaloniki (EL), Prijedor (BA). Key lesson: one-off nudges fade without reinforcement.

Suitable territorial contexts
Territory-agnostic: cities, peri-urban and rural areas, islands, coastal and mountain areas. Transfer needs the full NUDGES package, not a single deliverable.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
Mentoring, capacity building and technical support to transfer and adapt the NUDGES methodology:
- Guidance on the Blueprint (D1.3.1), pilot Blueprints (D2.1), Transferability Plan (D3.1.1) and Action Research Agenda.
- Capacity building on behavioural and cultural approaches; stakeholder mapping, citizen engagement and co-creation methods.
- Support to adapt interventions to local needs; monitoring and evaluation tools and templates.
- Regular mentoring meetings with technical feedback; peer learning and knowledge exchange.
- Project resources, communication materials and lessons from the pilots; study visits to pilot territories where relevant.

Indicative outcomes and outputs
- Local transfer and implementation roadmap
- Adapted NUDGES intervention concept or pilot design
- Stakeholder engagement and co-creation plan
- Monitoring and evaluation framework
- Recommendations to integrate the approach into local climate, sustainability or policy strategies

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
- Introduction to the NUDGES methodology, pilot experiences and key outputs.
- Access to the Blueprint, pilot Blueprints, Transferability Plan and Action Research Agenda.
- Exchange with partners and practitioners on lessons learned and good practices.

Indicative outcomes and outputs
- Better understanding of behavioural-cultural approaches to climate engagement
- Potential applications identified in the taker's territory
- First ideas for replication or policy uptake

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Staff involved in climate action, sustainability, environmental management, citizen engagement, culture, education, urban planning or related fields.	Staff or stakeholders interested in climate action, citizen engagement, behavioural change or cultural approaches.	*Start*
Data and information	Basic understanding of local climate challenges, target groups and relevant stakeholder landscape Pre/post surveys and follow-up capacity	Same as full takers	*Mentoring*
Digital resources	Good-practice database (D1.2.1) and all NUDGES deliverables	Same as full takers	*Mentoring*
Stakeholder involvement	Early involvement of schools, families and cultural actors	Interest in engaging local stakeholders and identifying opportunities for the future application of NUDGES-inspired in their territory.	*Mentoring*
Operational conditions	Partner venue; recurrent reinforcement	Commitment to actively engage in discussions and exchange experiences with peer	*Mentoring*
Regulatory aspects	Informed consent and data protection	compliance with applicable local regulations, where relevant.	*Later*
Other relevant requirements	Political and administrative openness; alignment with SECAPs	Willingness to explore future opportunities for replication or policy uptake in their territory.	*Later*

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation

Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

Green living areas | Interreg Euro-MED | Co-funded by the European Union | ECOSYSTEMIC TRANSITION HUB ETU

PROJECT ACRONYM
ReMED

Full project title
Towards Climate Resilient Mediterranean Cities

TOP SOLUTION TITLE
ReMED Platform – Climate Risk Assessment and Adaptation Measures

Digital platform to assess climate risk and plan adaptation measures at building and urban scale

THEMATIC AREA
Green Resilient Planning

SOLUTION TYPE
Digital platform, climate risk assessment system and decision support framework

CHALLENGE ADDRESSED
Climate risk in Mediterranean neighbourhoods and buildings

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed

Mediterranean cities face hazards such as extreme heat, floods, drought, sea-level rise and wildfires, and need methods and tools to assess the climate risk at different spatial scales and turn it into adaptation solutions.

Description of the solution

Web platform for climate risk assessment at building (RBTool) and neighbourhood (RNTool) scale together with a Decision Support Framework. The Platform can be used to assess, design, implement and monitor optimal adaptation measures.

Documents and links

https://etuinitiative.eu/solutions/towards-climate-resilient-mediterranean-cities/

Primary target users

Public authorities, especially Mediterranean municipalities, supported by research institutes.

2 Replicability and Adaptation Potential

Potential applications

Integrating adaptation measures into local: spatial plans and strategic environmental assessment, neighbourhood and building scale adaptation plans, resilient building certification. The Platform can be contextualized to address the needs of the place for implementation. The Platform was tested in five pilot areas/partner cities include Málaga, Genoa, Crikvenica, Gozo and Fyli.

Suitable territorial contexts

Mediterranean cities, urban and coastal areas amongst others. Since the tool framework is generic, the Platform can be adaptable to other local contexts through new local versions of the tools.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME ☐ *Offered by the giver University of Malta*

Potential mentoring activities and materials

Capacity-building resources and training for transfer, with an e-learning platform and a common transfer protocol; ReMED transfers the platform to new territories through local tool versions and local working groups.

There will be two training sessions offered. One in-person/hybrid training session in March 2027 during the Albanian Partner meeting and another follow-up online session in June 2027. Between March and end of June, takers will have the opportunity to contact ReMED partner with queries regarding the implementation of the Platform and guidance online meetings will be given to facilitate the implementation.

Indicative outcomes and outputs

Local version of RBTool and RNTool implemented on the ReMED Platform. Risk assessment results for one neighbourhood and one building and relative concept level adaptation package. Increased capacity in mainstreaming climate adaptation in spatial planning.

SOFT TAKER MENTORING SCHEME ☐ *Offered by the giver University of Malta*

Potential mentoring activities and materials

Soft takers can join online to the two training sessions . They will also have access to the training e-learning Platform and can enroll, for free, for any of the three courses available on the Platform. Access to the ReMED Platform is also available to soft takers, upon registration.

Indicative outcomes and outputs

Soft takers will have the opportunity to gain insight and access to the ReMED Platform, assessment system and decision-support framework. Increased capacity to address climate adaptation in spatial planning.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	A designated team with basic knowledge of climate adaptation and spatial planning.	Staff interested in climate adaptation, sustainable buildings or spatial planning.	Start
Data and information	Access to local climate hazard, exposure and vulnerability data for the selected building and neighbourhood.	No local dataset required. Training can use demonstration cases and datasets provided by the giver.	Mentoring
Digital resources	Internet access, registration on the ReMED Platform, and access to the RBTool and RNTool.	Internet access, registration on the ReMED Platform, and access to the RBTool and RNTool.	Start
Stakeholder involvement	Organisation of a local working group (Local Project Committee) involving relevant stakeholders.	A designated contact to coordinate participation in transfer.	Start/ Mentoring
Operational conditions	Commitment to apply ReMED to defined local case, with allocated staff time and a feasible implementation timetable.	Availability to participate in training and review the supporting materials.	Start
Regulatory aspects	Identification of a relevant planning or policy process in which ReMED results can be used.	No specific regulatory prerequisites. Training will explore how ReMED can support relevant planning and policy processes.	Mentoring
Other relevant requirements	Organisational support for implementation, willingness to provide feedback.	Willingness to provide training feedback and share relevant learning within the organisation.	Start; follow-up during mentoring

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation

Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

Green living areas | Interreg Euro-MED | Co-funded by the European Union | ECOSYSTEMIC TRANSITION HUB ETU

PROJECT ACRONYM
RENEWPORT

Harnessing RENEWable energy potential for clean energy transition of MED PORTs

TOP SOLUTION TITLE
RES Toolkit for MED Ports

Free online toolkit to calculate the renewable energy potential of ports

THEMATIC AREA
Green energy systems

SOLUTION TYPE
Online toolkit (open-source based)

CHALLENGE ADDRESSED
Clean energy transition of ports

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed
Ports emit pollutants and greenhouse gases but have untapped potential to become clean energy hubs using renewable energy sources (RES).

Description of the solution
Free online toolkit built on open-source applications. It calculates a port's RES potential and guides the choice of the most suitable renewable source for each location, based on current and future energy needs.

Documents and links
RENEWPORT – The Renewable Energy Toolkit for Med Ports

Primary target users
MED port managing authorities.

2 Replicability and Adaptation Potential

Potential applications
Simulating locations and technologies (photovoltaic, wind) in a port to prioritise plants and locations for step-by-step investment. Testing against real plant data found it quite accurate. Reviewers rate it very easy to use and recommend a user manual.

Suitable territorial contexts
Euro-MED ports and beyond, including ports on the southern shore of the Mediterranean.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
Two online calls: an introductory session presenting the RENEWPORT toolkit and its main functions, then a short follow-up discussion on its relevance to the participating port. No further support unless separately agreed.

Indicative outcomes and outputs
Better understanding of the toolkit and a first identification of its relevance to the participating port. No technical deliverables.

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
One online knowledge-exchange call introducing the RENEWPORT toolkit, its main functions and its potential applications in port areas.

Indicative outcomes and outputs
Basic understanding of the toolkit and awareness of its potential applications in the participating port.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Basic familiarity with port activities and an interest in renewable energy.	Interest in renewable energy and port sustainability.	Mentoring
Data and information	Basic information about the port, where available. No complete dataset required at this stage.	No specific data requirements.	Mentoring
Digital resources	Access to a computer and internet connection for the online call.	Access to an internet connection to participate in the online call.	Mentoring
Stakeholder involvement	One contact person representing the port or relevant organisation.	Participation of one representative of the port or relevant organisation.	Mentoring
Operational conditions	Availability to participate in two online calls, subject to mutual agreement on scheduling	Availability to attend one online knowledge-exchange call, subject to mutual agreement.	Mentoring
Regulatory aspects	No specific requirements at this stage	No specific requirements.	Mentoring
Other relevant requirements	Interest in exploring the potential applicability of the toolkit.	Interest in learning about the RENEWPORT toolkit	Mentoring

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation

Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

Green living areas | Interreg Euro-MED | Co-funded by the European Union | ECOSYSTEMIC TRANSITION HUB ETU

PROJECT ACRONYM
URWAN

Urban Regenerative Water Avant-garde(N)

TOP SOLUTION TITLE
The URWAN Enabler Pack – Toolkit for Urban NbS and Green-Blue Infrastructure

Integrated toolkit to plan, co-design and implement water-sensitive urban NbS

THEMATIC AREA
Green Resilient Planning · Community engagement

SOLUTION TYPE
Toolkit: training, catalogue, guidelines, checklist

CHALLENGE ADDRESSED
Water security and climate resilience through NbS

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed

Mediterranean cities face water scarcity, drought and floods, and many municipalities lack the capacity and guidance to integrate NbS into planning and investment.

Description of the solution

Four resources: a training programme (3 kits), a catalogue of water-sensitive NbS, the Start Park co-design guidelines with a serious game, and a checklist aligned with the IUCN Global Standard for NbS.

Documents and links

https://etuinitiative.eu/solutions/urwan-start-park-co-design-toolkit-for-urban-regeneration/

Primary target users

Local authority managers and technical staff, planners, NGOs, local associations, citizens.

2 Replicability and Adaptation Potential

Potential applications

Turning adaptation goals into concrete NbS: training municipal staff, selecting context-appropriate NbS, co-designing green spaces with citizens and checking interventions against IUCN criteria. Start Park tested in the URWAN pilot cities of Ferla and Rome (IT), Ptuj (SI), Cuba (PT) and Sarajevo (BA).

Suitable territorial contexts

Any urban area, of any size, facing drought, floods or urban heat island.
Knowledge of grey infrastructure desirable; existing NbS should be documented.
Limits: no engineering design or funding of works.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials

Shareable materials: training kits (EN, IT, PT, BS, SL) with videos (EN); NbS catalogue (EN, FR, ES, IT, PT, AR, BU, AL, BS, SI, GR); Start Park guidelines and serious game (EN, IT, PT, BS, SI, GR); Checklist (EN, FR, BS, ES, IT, PT, GR, AR).

URWAN School: 3-day in-person training in Rome (week of 22–26 February 2027), with Start Park practice and a pilot-site visit.

Online mentoring (indicatively 4–6 sessions over about 6 months) to support:

- applying the Checklist to planned or implemented NbS;
- a preliminary assessment of one suitable Start Park site;
- drafting the lighter Roadmap.

Indicative outcomes and outputs

- Capacity built on the 4 Enabler Pack elements
- Checklist report with recommendations
- Preliminary assessment of one Start Park site
- Lighter Roadmap, co-produced with C4LA

No funding of works, technical design or on-site facilitation. Free of charge.

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials

Shareable materials (as above).

URWAN School: 3-day in-person training in Rome (week of 22–26 February 2027). No mentoring foreseen.

Indicative outcomes and outputs

- Capacity built on the 4 Enabler Pack elements
- Autonomous use of the Checklist for self-assessment

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Municipal technical staff (planning, environment, public works); grey infrastructure knowledge desirable; working English	1–2 technical staff; working English	Start
Data and information	Water-related risks (drought, floods, heat); local plans; existing or planned NbS	None	Mentoring
Digital resources	Internet and videoconferencing tools	Internet access	Start
Stakeholder involvement	Planning, environment and public works departments	None	Mentoring
Operational conditions	Staff available to apply the Checklist, assess a Start Park site and draft the Roadmap	Staff available to attend the School	Start
Regulatory aspects	Willingness to integrate NbS into local plans	None	Mentoring
Other relevant requirements	None; funding needed only for later implementation	None	Later

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation

Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

Green living areas | Interreg Euro-MED | Co-funded by the European Union | ECOSYSTEMIC TRANSITION HUB ETU

PROJECT ACRONYM
CO2 PACMAN

Full project title
COoperation and CO-designing PArtnership for CliMAte Neutrality

TOP SOLUTION TITLE
Climate-Neutrality Scenario Development Toolkit

Modular toolkit to co-develop territorial climate-neutrality scenarios

THEMATIC AREA
Urban governance & planning tools

SOLUTION TYPE
Methodology, guidelines and scenario tool

CHALLENGE ADDRESSED
Territorial climate-neutrality pathways

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed
Territories need evidence-based, participatory pathways towards climate neutrality, often starting from fragmented or inconsistent data.

Description of the solution
Modular toolkit combining IPCC-aligned GHG inventories, landscape analysis, citizen and youth engagement, open innovation, the interactive CO2 PACMAN Tool for exploring decarbonisation scenarios, with a harmonised data framework across sectors and virtual reality (VR).

Documents and links
CO2 PACMAN – ETU solution page

Primary target users
Provincial or regional authorities with an office or department able to cooperate with the University of Siena.

2 Replicability and Adaptation Potential

Potential applications
Developed and tested on the islands of Brač, Crete and Elba. Components can be applied individually or combined, according to local needs. The CO2 PACMAN Tool adapts to new territories using their GHG inventory and local data to customise and simulate decarbonisation policies.

Suitable territorial contexts
Territories preferably at provincial or regional level that already have a GHG inventory developed with IPCC or GPC methodology, covering at least one year between 2019 and 2025.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
. The University of Siena will support full takers in adapting the CO2 PACMAN Tool to their territory. Based on the GHG inventory the taker provides (developed in accordance with IPCC or GPC standards), UNISI will create a dedicated territorial profile in the Tool. The decarbonisation policies already integrated into the Tool will then be customised using territory-specific data provided in cooperation with the relevant local or regional offices.
The mentoring process will include two training sessions:
- An introduction to the CO2 PACMAN Tool, its structure, functionalities and potential applications.
- A demonstration of the territory-specific version of the Tool, including the customised decarbonisation policies and their simulation.

Upon request, UNISI may also provide technical support for a public co-designing session of the Tool organised by the taker.

Indicative outcomes and outputs
A territory-specific version of the CO2 PACMAN Tool, configured using the taker's GHG inventory and additional territorial data, with customised decarbonisation policies and the possibility to simulate their potential impacts. Full takers will also acquire the knowledge and practical skills needed to use the Tool, explore different decarbonisation scenarios, and support evidence-based co-designed decision-making in their territory.

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
Online knowledge-exchange session by UNISI on the CO2 PACMAN Toolkit presenting its methodology, main components, and lessons learned from its application during the study phase.
During the online session, UNISI will focus on transferring the Toolkit to other territorial contexts, including key elements, data requirements, and the conditions needed for successful adaptation and replication. The session will also share relevant project materials and technical documentation to support the Toolkit's potential transfer.

Indicative outcomes and outputs
Better understanding of the CO2 PACMAN Toolkit and the conditions for its replication; soft takers can assess its relevance, identify the most suitable components and explore future adoption.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Office or department available to cooperate with the University of Siena and facilitate access to relevant territorial data.	Person interested in exploring the Toolkit's potential application.	Start
Data and information	GHG inventory (IPCC or GPC), at least one year 2019–2025. Additional territory-specific data may be required during mentoring to customize decarbonization policies; such as mobility, geospatial and land-use data	None	Start
Digital resources	Access to the CO2 PACMAN Tool, provided by the University of Siena.	None	Mentoring
Stakeholder involvement	Cooperation with local technical staff to provide data and support the customisation of decarbonisation policies.	Participation of representatives in the knowledge-exchange session.	Mentoring
Operational conditions	Data harmonisation and configuration of the CO2 PACMAN Tool using the territory's GHG inventory and additional data needed to customise decarbonisation policies.	None	Mentoring
Regulatory aspects	Authorisations to share the GHG inventory and territorial data with UNISI, in compliance with applicable data protection rules.	None	Start
Other relevant requirements	No additional requirements beyond those specified above.	None	Start

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation.