

Comprehensive Financial Attraction Toolkit – from Innovation to Finance

Daiva Matonienė

Green Missions for Climate Finance: (GM4Finance)

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Covenant of Mayors (CoM) pathway to 2050





SECAP



Thesustainable energy and climate action plan (SECAP) is an integrated, strategic and operational plan – formally adopted by a municipal council – that outlines commitments and actions to address climate change challenges and the transition to sustainable energy in the various intervention areas of the respective municipality.

Step 1 Step 2 Step 3 Step 4 Initiation Action planning Implementation Status quo assessment and goals definition phase and strategies and monitoring What is the basis Where does the city currently What can the city do? How to follow up? stand and where does it want to go? to be set? Mitigation action **Political** Baseline GHG emissions planning: Monitoring emission commitment reduction energy saving, RES nventory + mitigation and formal iventory (BEI target deployment, emissions action progress engagement Adaptation action Updated risk and Risk and Mobilising all vulnerability planning: Adaptation vulnerabilitv municipal assessment exposure reduction, assessment qoal(s) departments vulnerability reduction, + adaptation action (RVA) adaptive capacity increase progress Energy poverty action Stakeholder engagement + energy poverty and effective communication

Identifying and securing adequate financing

Guiding principles to develop a SECAP





Financial attraction sources Grants

Financing attraction

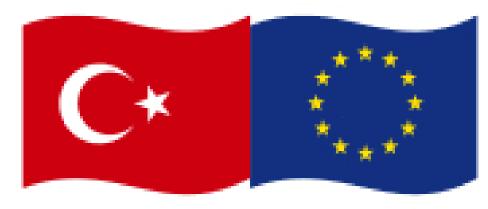
IPA III, 2021-2027 ~€3 bn



Financial instrument in aid of candidate and potential candidate countries in the EU accession process.

IPA III

5 thematic windows: (1) Rule of law, fundamental rights & democracy, (2) Good governance, (3) Green agenda & sustainability, (4) Competitiveness & inclusive growth, (5) Territorial and cross-border cooperation



Bu proje Avrupa Birliği tarafından finanse edilmektedir.



Green & Digital Transition prioritized (aligned with EU Green Deal) **Civil society, municipalities, and universities** expected to be bigger beneficiaries, as direct state funding is more restricted.



HORIZON EUROPE

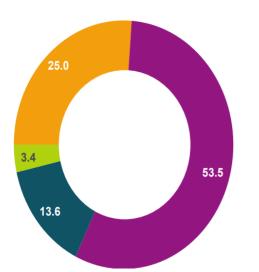
❖EU's funding instrument for the environment and climate action.



Financing attraction

Horizon Europe is EU's ambitious 95,5 billion Eur research and innovation programme (2021-2027)





Political agreement December 2020

€ billion in current prices

- **■** Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA

New elements in Horizon Europe

- European Innovation Council: Support for innovations with potential breakthrough and disruptive
 nature with scale-up potential that may be too risky for private investors. This is 70% of the budget
 earmarked for SMEs.
- Missions: Sets of measures to achieve bold, inspirational and measurable goals within a set timeframe. There are 5 main mission areas as part of Horizon Europe.
- Open science policy: Mandatory open access to publications and open science principles are applied throughout the programme

Factsheet: Open science in Horizon Europe -

New approach to partnerships: Objective-driven and more ambitious partnerships with industry in support of EU policy objectives



Source: https://ec.europa.eu/info/sites/info/files/research and innovation/funding

LIFE



EU's funding instrument for the environment and climate action.



- LIFE has a total financial envelope of €5.43 billion (in current prices) for the period 2021-2027, with €1.94 billion reserved for the field of climate action. The climate action field, which is the relevant financial envelope for hydrogen-related projects, is subdivided into €947 million for the sub-programme 'Climate Change Mitigation and Adaptation', and €997 million for the sub-programme 'Clean Energy Transition



INTERREG IPA

- ❖EU's initiative for cross-border, transnational, and interregional cooperation.
- ❖IPA (Instrument for Pre-accession Assistance) is the EU's funding tool for candidate countries and potential candidates (Western Balkans, Türkiye, etc.), preparing them for eventual EU membership.Together, Interreg IPA CBC (Cross-Border Cooperation) programmes fund projects that strengthen cooperation between EU member states and neighboring IPA countries.



Financing attraction



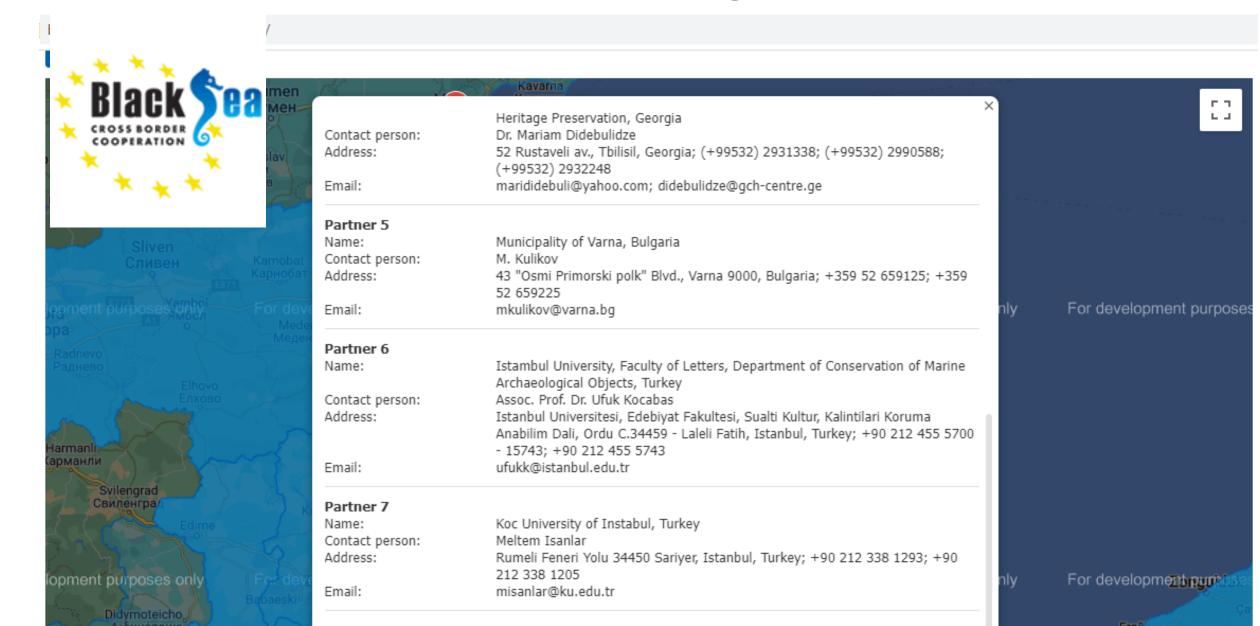
INTERREG Bulgaria – Türkıye IPA CBC programme 2021-2027



PO 2 A greener, lowcarbon Europe:

- Promoting energy efficiency and reducing greenhouse gas emissions
- Promoting the transition to a circular economy
- PO 5 A Europe closer to citizens:
 - Fostering the integrated social, economic and environmental development, cultural heritage
- ISO 2: A safer and more secure Europe:
 - Improving migration management

ENI CBC Black Sea Basin Programme 2021-2027







Programme Thematic Objectives

- Business and SME development
 - Promote business and entrepreneurship in the tourism and cultural sectors
- Business and SME development
 - Increase cross-border trade opportunities and modernisation in the agricultural and connected sectors
- Environmental protection, climate change mitigation and adaptation
 - Improve joint environmental monitoring
- Environmental protection, climate change mitigation and adaptation
 - Promote common awareness-raising and joint actions to reduce river and marine litter in the Black Sea Basin



LTAID

❖Lithuanian Development Cooperation and Humanitarian Aid Department (Ministry of Foreign Affairs).



Financing attraction

Practical Examples

The reality is, the only way to learn something new is to practice



Financing attraction

Practical example: LTAID



2024

Project "Collaborative Türkiye-Lithuania Missions as a Learning and Networking Tool to Address Climate Change Challenges (TLM-3C: Türkiye-Lithuania Missions - Climate Change Challenges)"

Beledivesi





ENERGES MAN



Project progress

1. Local level authorities, municipal level authorities, science institutions and business companies good practice exchange mission's sessions

100%

2. To organize awareness raising campaign

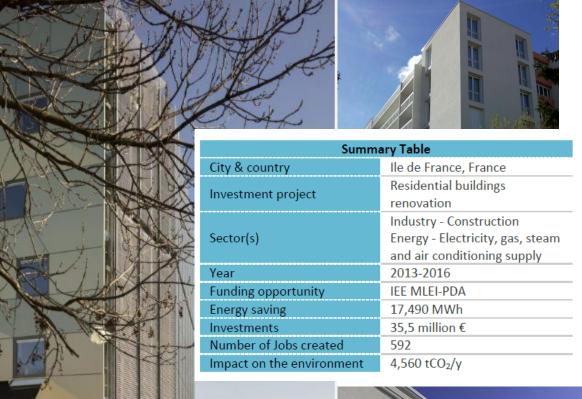
100%

3. To ensure continuity of the project

Practical examples

EIB funds

Private residential buildings renovation, le de France







LIFE AND HORIZON 2020 programmes

Development of sustainable energy and climate action plans and climate adaptation measures in 6 municipalities



Practical example: San Javier, Spain improves public lighting energy efficiency through a soft loan

San Javier, Spain improves public lighting energy efficiency through a soft loan
Tinergie helps finance housing energy renovation through soft loans in Brest Métropole, France

Soft loans



San Javier s	ummary Table
City & country	San Javier, Spain
Investment project	Public lighting renovation
Sector of SECAP	Public lighting
Year	2016
Funding opportunity	Soft Ioan
Energy saving	2.4 GWh/year
Cost saving	402 378 €/year
Green energy produced	N/A
Impact on the environment	26.5 % less than before

Brest summary Table											
City & country	Brest Métropole, France										
Investment project	Energy renovation and REs										
Sector of SECAP	Housing										
Year	2018										
Funding opportunity	Tinergie										

EU Soft loans helped San Javier renew 4000 lighting points

Soft loans help energy renovation for households in Brest Métropole

Practical example: Energy Cooperatives



Municipalities join hands through an energy cooperative

Depending on national legislation, energy cooperatives can also foster cooperation between municipalities, as has

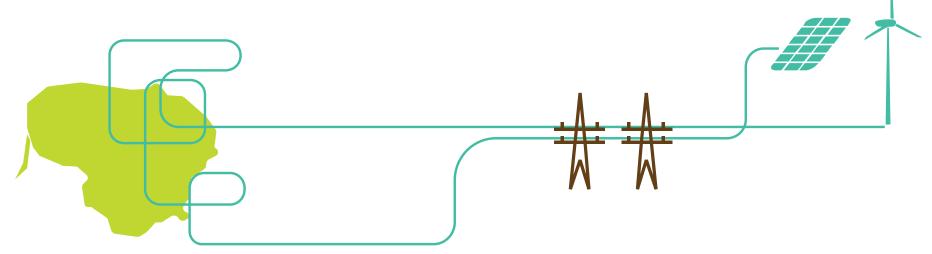
been the case in a southern German region. In the county of "Neustadt an der Waldnaab", 17 municipalities have formed an energy cooperative called "NEW-Neue Energien West eG" in order to jointly implement renewable energy

projects. The 17 member municipalities have purchased shares of at least 5000 euros each. The cooperative's governing board is led by three mayors, with other municipal representatives on the advisory board.



Introduction to Lithuanian "prosumer" model



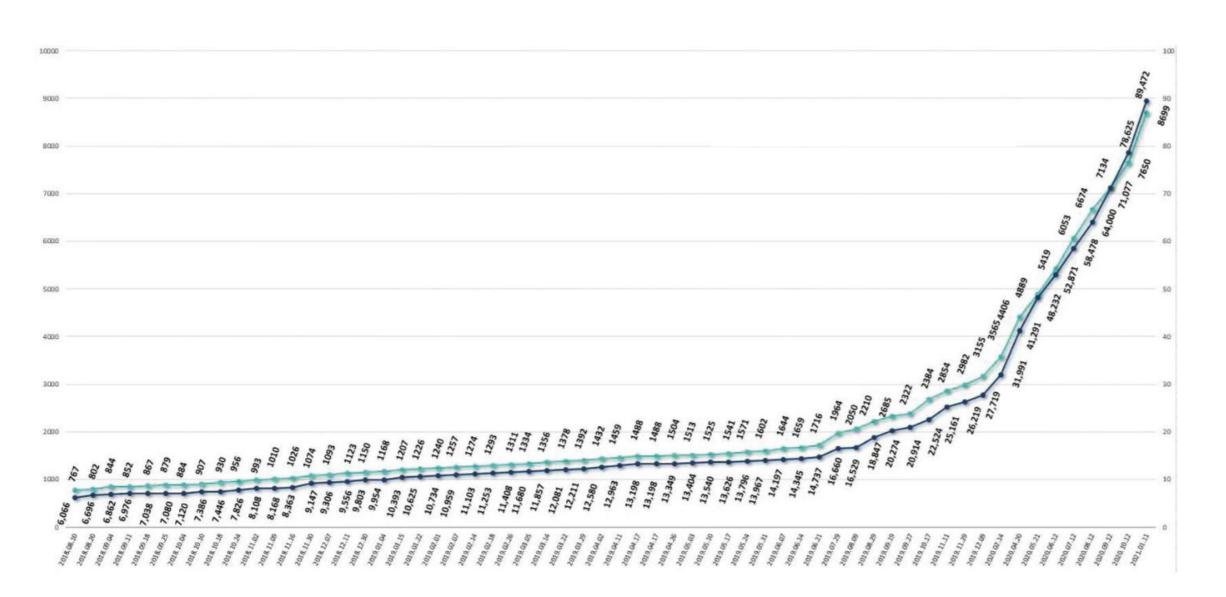


Main features of "prosumer" (energy production for self-consumption)

- national energy infrastructure to act as energy storage facility (especially for electricity produced in summertime) for prosumers
- electricity saved on the grind for a fee (commercially based service price calculated by independent National energy regulatory council)
- accumulation period from the 1st of April until the 31st of March next year (balancing annual production and consumption)
- energy produced by big power plants can be distributed among smaller users
- whole or parts of power plants could be both owned or rented
- platforms connecting powerplants producers and consumers launched





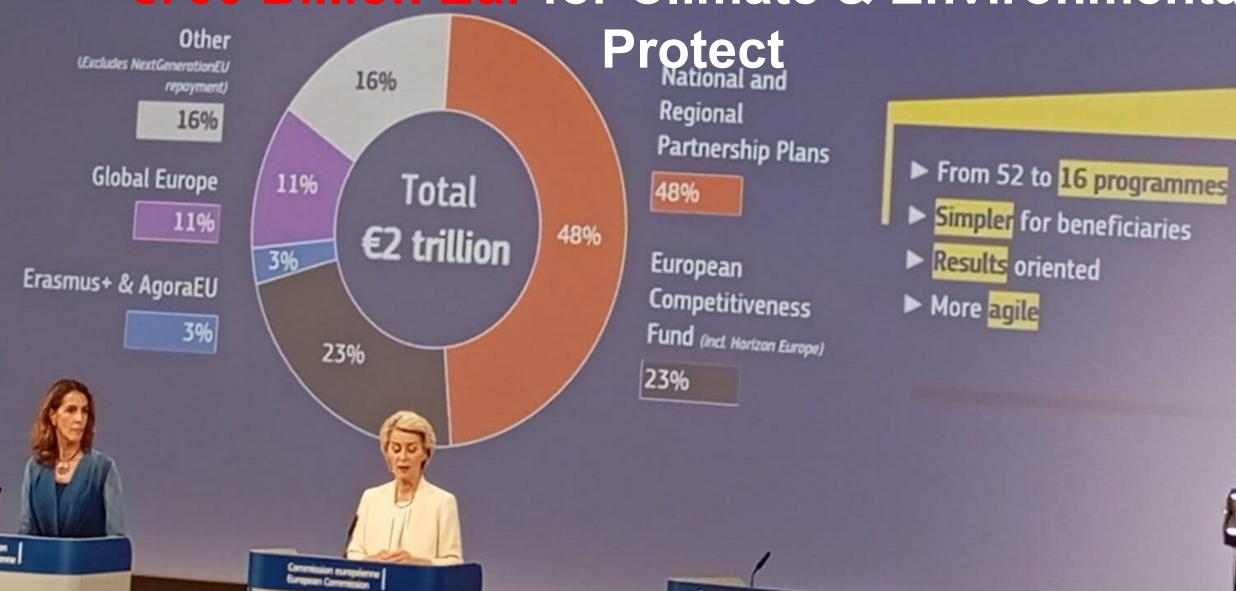


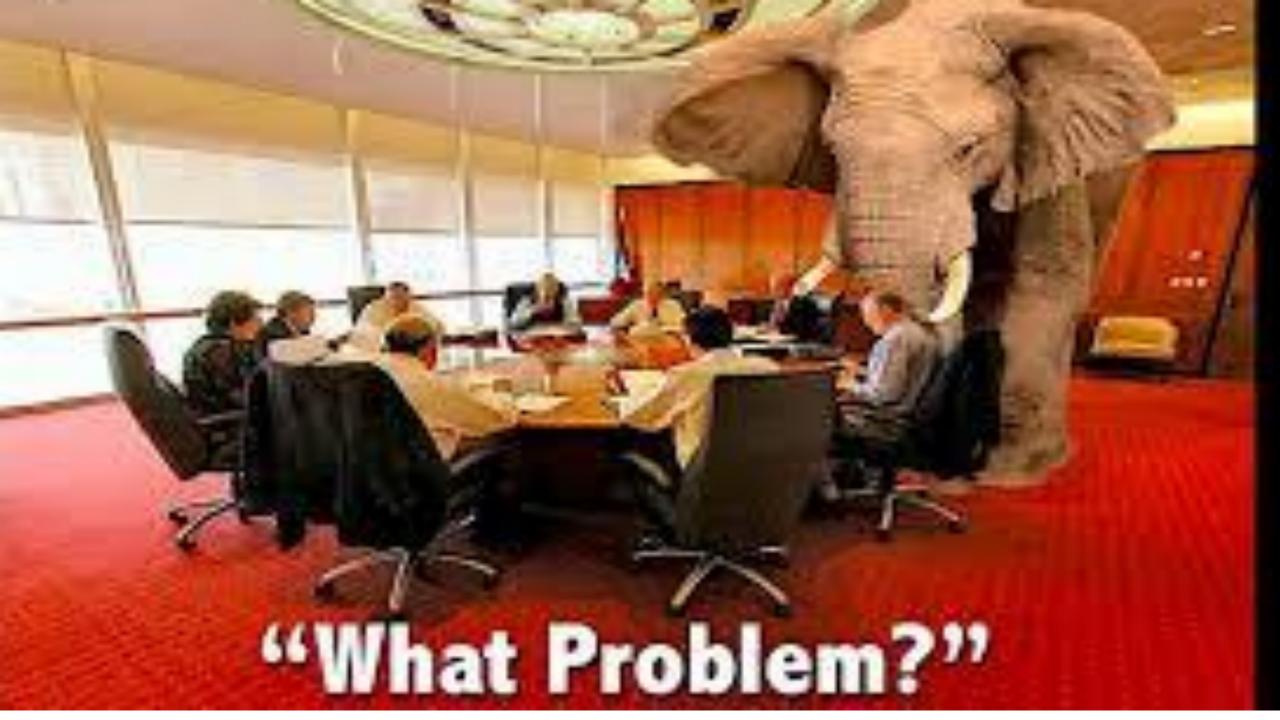
Upcoming calls 2025

Topic	Name	Link	Grant	Opening Date	Closing Date	Budget / Grant No.
	Innovative approaches for the deployment of Positive Energy Districts HORIZON-CL5-2026-02-D4-04	<u>Link</u>	Horizon Europe - Innovation Actions	16.09.25	17.02.26 17.00 Brussels Time	15.000.000 (3 grants)
Low-carbon and climate- resilient buildings (Built4People)	Innovative pathways for low carbon and climate resilient building stock and built environment (Built4People Partnership)	<u>Link</u>	Horizon Europe - Research and Innovation Actions	16.09.25	17.02.26 17.00 Brussels Time	5.000.000 (3 grants)
Low-carbon building materials	Optimal combination of low embodied carbon construction products, technical building systems and circularity principles for climate neutral buildings (Built4People Partnership)	<u>Link</u>	Horizon Europe - Research and Innovation Actions	16.09.25	17.02.26 17.00 Brussels Time	12.000.000 (3 grants)
	Large-scale production of liquid advanced biofuels and renewable fuels of non-biological origin	<u>Link</u>	Horizon Europe - Innovation Actions	16.09.25	17.02.26 17.00 Brussels Time	33.000.000 (3 grants)
	Smarter buildings as part of the energy system for increased efficiency and flexibility – Societal Readiness Pilot	<u>Link</u>	Horizon Europe - Innovation Actions	16.09.25	17.02.26 17.00 Brussels Time	12.000.000 (3 grants)
Underground Thermal Energy Storage (UTES) in urban areas	Underground Thermal Energy Storage in dense urban areas	<u>Link</u>	Horizon Europe - Innovation Actions	16.09.25	17.02.26 17.00 Brussels Time	18.000.000 (2 grants)
	Phase out fossil fuel in energy intensive industries through the efficient integration of renewable energy sources	<u>Link</u>	Horizon Europe - Innovation Actions	16.09.25	17.02.26 17.00 Brussels Time	15.000.000 (2 grants)
Resilient & sustainable transport infrastructure	Innovative construction and maintenance, with the use of new materials and techniques, for resilient and sustainable transport infrastructure	<u>Link</u>	Horizon Europe - Innovation Actions	16.09.25	20.01.26 17.00 Brussels Time	22.000.000 (2 grants)
Art–science collaborations on Mediterranean water pollution	Engaging Mediterranean Communities to prevent, study and tackle water pollution.	<u>Link</u>	PartArt4OW (via Horizon Europe)	01.08.25	02.10.25 17.00 Brussels Time	50 000
Climate-resilient crops & plant-based biomanufacturing	Biotech for Climate Resilient Crops and Plant-Based Biomanufacturing	<u>Link</u>	Horizon Europe - EIC Grants	24.07.25	29.10.25 17.00 Brussels Time	120.000.000 (8 grants)
	Citizen and Stakeholder Engagement in Climate-Smart Forestry (CSF) and Forest Restoration	<u>Link</u>	European Forest Institute (via Horizon Europe)	11.07.25	12.10.25 23.00 Brussels Time	24 750
for climate noutral cities	Boosting the transformation towards climate-neutral cities, the net-zero economy and open strategic autonomy through Pre-Commercial Procurement (PCP)	<u>Link</u>	HORIZON Pre-commercial Procurement	06.05.2025	20.01.2026 17:00:00 Brussels time	37.000.000 (4 grants)
	SoilTribes Open Call: Supporting Multi-Actor Initiatives to Protect and Restore Soil	<u>Link</u>	SOILTRIBES	11.08.2025	10.10.2025	25.000-100.000
Forest restoration & tourism- linked livelihoods	TUI Forests Program	<u>Link</u>	TUI Care Foundation	N/A	01.11.2025	10.000-150,000
Smart & climate-resilient cities	BUILDSPACE Launches Open Call for Replication Potential: join the Future of Smart and Resilient Cities	<u>Link</u>	European Association for Local Democracy	N/A	31.10.2025	



ANAMBITIOUS BUDGET FOR A STRONGER EUROPE 2028-2034 The stronger for Climate & Environmental and Europe Climate & Europe Cl







Various Financial attraction sources

Financing attraction

Various financing sources



Contractual typology	Source of financing Public			м	ixed						
Non-repayable	Grants										
	Carbon pricing (ETS, taxes)										
	Soft loans	Soft loans	Leasing	Vendor fin	ancing		Revolvingfunds	Traditional bonds			
		Crowdfunding					Project financing	Mini-bonds			
Debt		Forfaiting	On-bill fina	ncing	Third-p	arty financing models	Green bonds	Social bonds			
		Sustainability bonds	Green loans								
		Vendor financing									
Equity		Crowdfunding	Energy	cooperatives							
							Public-private par	tnerships (PPPs)			
Hybrid							Blended finance				
	Tax increment financing (TIF)	Energy service	es companies	(ESCOs)		Carbon finance	Pay-for-perfor	mance (P4P)			
Other*	Tax incentives	Tax incentives Energy performance contracts (EPCs)									
	ESCO intracting model						Land value c	apture (LVC)			
		İ					Pooled pro	curement			

^{*}This category can be used for instruments that don't fit strictly into the repayment or ownership structure.

Source: https://publications.jrc.ec.europa.eu/repository/handle/JRC142148

Level of innovation

Traditional

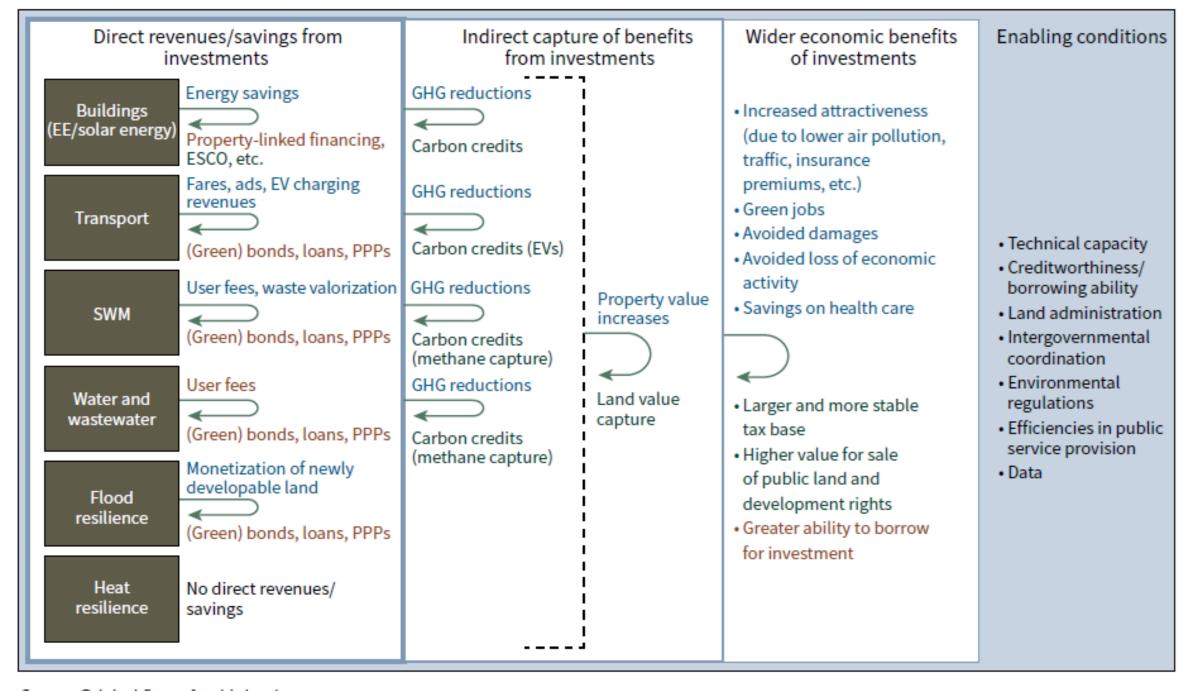
Alternative

Innovative

Financing sources matrix



Matrix legend:	Issuers										Beneficiaries													Sectors of use														llar	s
"•" direct and priority "o" indirect and priority "•" direct and less common	Gov	ern- nts	Ba	nks	Busi	ness	Pub	lic an utili	d pri ities	vate	Cities	1	•	c an ate		Busi	ness	Indivi- duals		mu- ies	aı	blic nd arch	Er	nerg	y	Build	ings		imate ptati	1	rans	port	Natu		Wa	ste			
"o" indirect and less common "o" intermediaries "o" investors Financial mechanisms: "x" alternative "x" innovative "x" traditional	National/Regional	Local	Multilateral (World Bank, EIB, EBRD)	Private (commercial banks, grenn banks)	Large corporations	Small and medium enterprises (SMEs)	Energy providers	Water companies	Waste management companies	Transport companies	Municipalities	Energy providers	Water companies	Waste management companies	Transport companies	Large corporations	Small and medium enterprises (SMEs)	Homeowners	Energy cooperatives	Community projects	Schools, hospitals	Universities and research centers	Renewable energy	Energy efficiency	Decarbonization	Energy retrofitting	Green buildings	Flood defences	Urban cooling systems	Resilience projects	Sustainable mobility	Electric public transportation	Water resource management	Biodiversity protection	Waste management	Grcular economy	Mitigation	Adaptpation	Energy poverty
Grant programmes ×	•	•	•	0			0	0	0	0	•	0	0	0	0	•	•	•	0	0	•	•	•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	0	•
Public grants ×	•	•	•								•	0	0	0	0	0	0	•	0	0	•	•	•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	0	•
Tax incentives ×	•	•	0								0	0	0	0	0	•	•	•	0	0	•	•	•	•	•	•	•	0	0	0	•	•	0	0	0	0	•	0	•
Tax increment financing ×	0	•									•	0	0	0	0			0	0	0	•	•	0	0	•	•	•	0	0	0	•	•	0	0	0	0	•	0	0
Soft loans ×	•	•	•								•	0	0	0	0	•	•	0	0	0	•	•	•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	0	•
Green loans ×	•	•	•	•/□			0	0	0	0	•	0	0	0	0	•	•	•	0	0	•	•	•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	0	•
Revolving funds ×	•	•	•	0/□			0/□	0/□	0/0	o/ □	•	0	0	0	0	•	•	0	0	0	•	•	•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	0	0
Traditional bonds ×	•	•	•		•		•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	•	•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	0	0
Green bonds ×	•	•	•	0/□	•		•			•	•	0	0	0	0	0	0	0	0	0	•	•	•	•	•	•	•	0	0	0	0	0	0	0	0	0	•	0	0
Blue bonds ×	•	•	•	0/□	•			•			•	0	0	0	0	0	0	0	0	0	•	•	0					0	\neg	0	0		•	•	0	0	0	•	0
Climate bonds ×	•	•	•	0/□	•		•				•	0	0	0	0	0	0	0	0	0	•	•	•	•	•	•	•	0	0	0	0	0			0	0	•	0	0
Climate resilience bonds ×	•	•	•	0/□	•			•			•	0	0	0	0	0	0	0		0	•	•	П				0	•	•	•	0		•	•	0		0	•	0
Social bonds ×	•	•	•	0/□	•						•	0	0	0	0	0	0	•	•	•	•		П			0			\neg	0			0			\Box	\neg	0	•
Sustainability bonds ×	•	•	•	0/□	•		•	•		•	•	0	0	0	0	0	0	0	•	•	•	•	0	0	\neg	0		П	\neg	十	0		0		0	\Box	0	0	•
Mini-bonds ×	•	•	•	_	•	•	•	•	•	•	•	0	0	0	0	•	•	0	0	0	•		0	0	\neg	•	•	П	\dashv	•	0		0		•	0	0	0	0
Carbon pricing (ETS, taxes) ×	•	•									•	0	0	0	0	0	0	0	0	0	•	•	•	•	•	•	0	0	0	•	•	•	0	0	0	0	•	0	0
Carbon finance ×	•	•	0	o/ □			0	0	0	0	•	0	0	0	0	•	•	0	0	0	•	•	•	•	•	•	•	\Box	\dashv	\top	0	0			0	0	•	\neg	0
Energy efficient mortgages ×	0	0	0	•/□							0	0	0	0	0	0	0	•					0	0	0	•	•	П	\dashv	\top					П	0	•	\neg	\neg



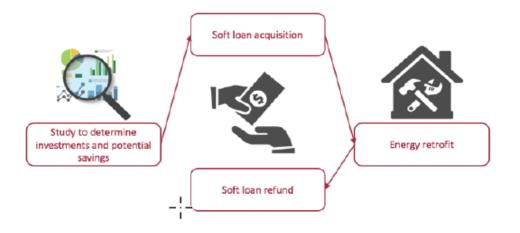
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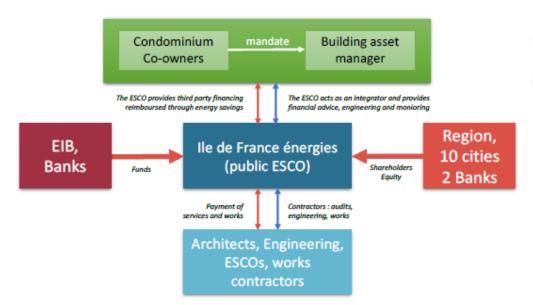
Source: Original figure for this book.

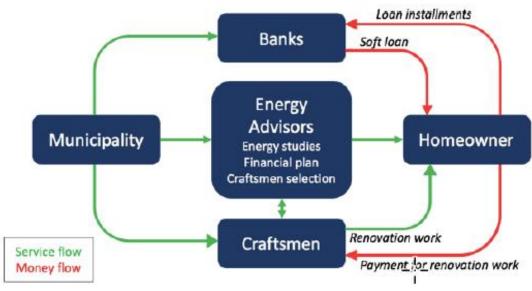






Financial model: EIB funds











Hakkımızda

Duvurular

GP Üyeleri

Faaliyetleri Yardım Mas

Financial instruments for mitigation, adaptation and energy poverty actions

Covenant of Mayors Guidebook | Complementary document 5

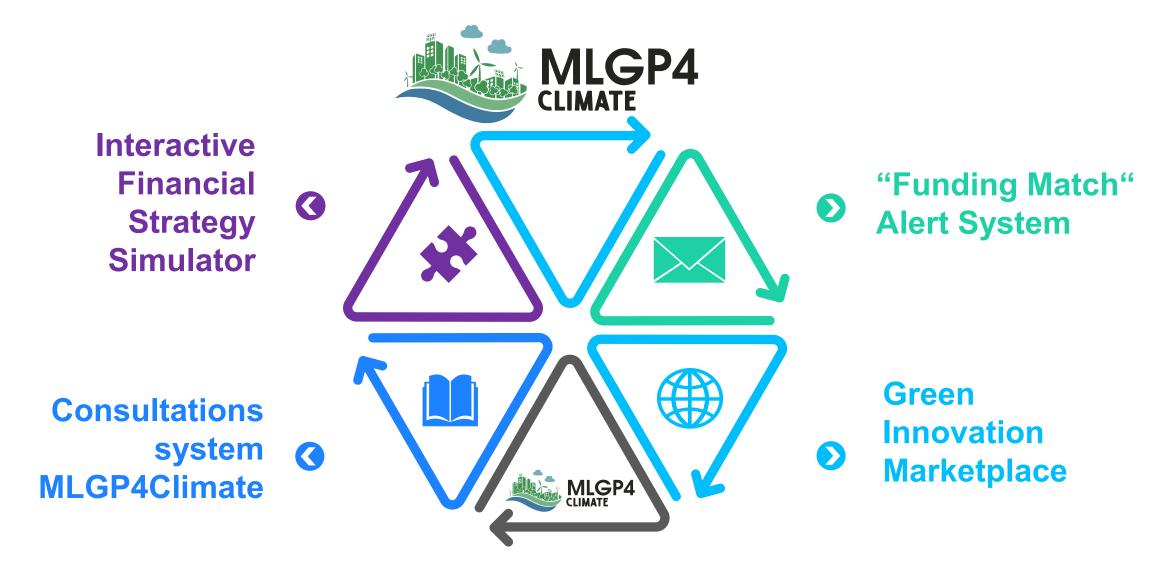


Ana Sayfa / MLGP Kütüphanesi





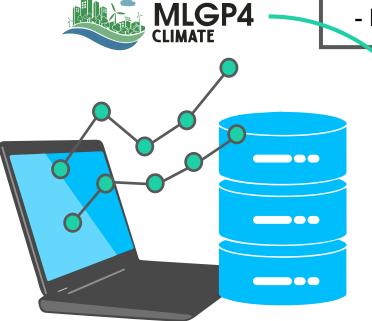
Financial Attraction Toolkit



Interactive Financial Strategy Simulator

Interactive Financial Strategy Stimulator make it easy to **explore** who is working on what, and where. The tool will:

- Highlight regional strengths and gaps for climate initiatives;
- Foster collaborations across geographies and disciplines;
- Provide interested organizations with insights into trends and opportunities.



Key Feature 1

Geographic Layer:

visualize organizations worldwide, filterable by country

Key Feature 2

Organization Types:

Municipalities, universities, NGOs, startups, companies, etc.

Key Feature 3

#

Fields of Interest: SECAP, eenergy, biodiversity, disaster resilience, carbon monitoring, and other climate-related domains.

Interactive Financial Strategy Simulator

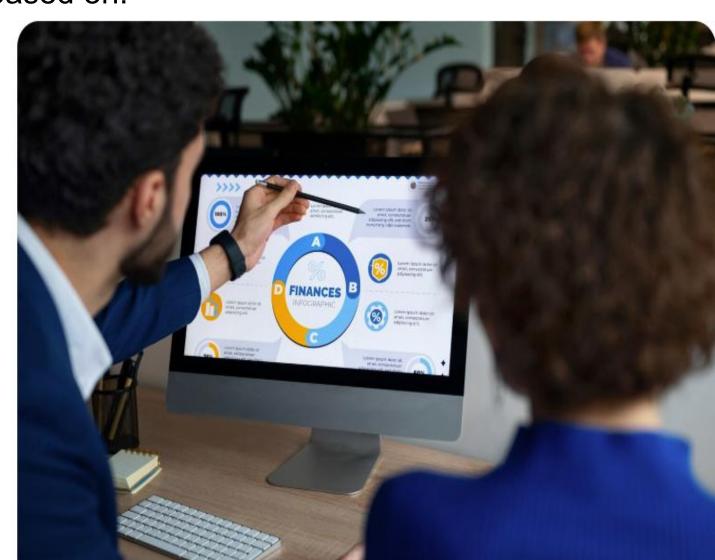


By visually mapping organizations based on:

- organization type;
- country;
- field of interest.

Key Impacts:

- Collaboration: connect municipalities, innovators, and funders.
- Efficiency: reduce duplicated efforts; accelerate innovations.
- Strategic Planning: provide insights into global trends for funders and decision-makers.
- Scalable Climate Action: strengthen the ecosystem for machine learning—driven climate solutions.

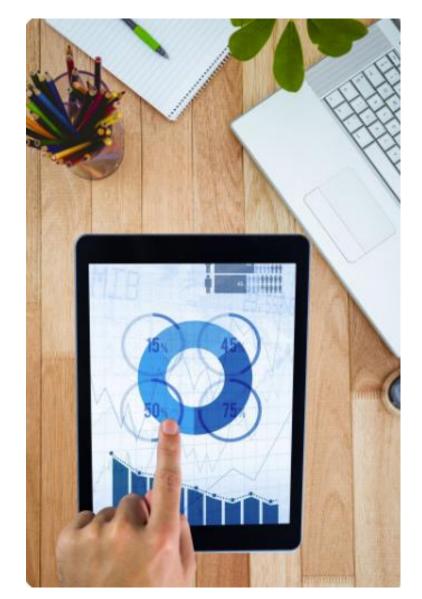




Interactive Financial Strategy Simulator

Next steps:

- 1. Collect and validate data on organizations worldwide.
- 2. Develop the interactive mapping tool and filtering interface.
- 3. Launch a beta version for community feedback.
- 4. Expand coverage and add analytics features.



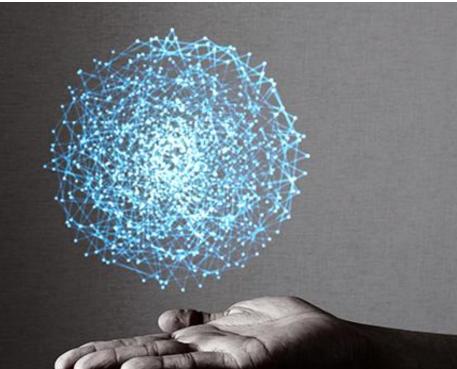
"Funding Match" Alert System and Green Innovation Marketplace



The **Funding Match Alert System** will act as a smart connector between funders and climate innovators. Using filters such as **organization type, region, focus area, and project stage**, the system will notify organizations of **relevant funding calls**, grants, or investment opportunities in real time.

The **Green Innovation Marketplace** will be a dynamic platform for **showcasing**, **exchanging**, **and scaling innovations** in machine learning for climate. It will allow innovators to present their solutions, organizations to find technologies to adopt, and investors to discover promising ideas.

INNOVATION MARKETPLACE





Green Innovation Marketplace

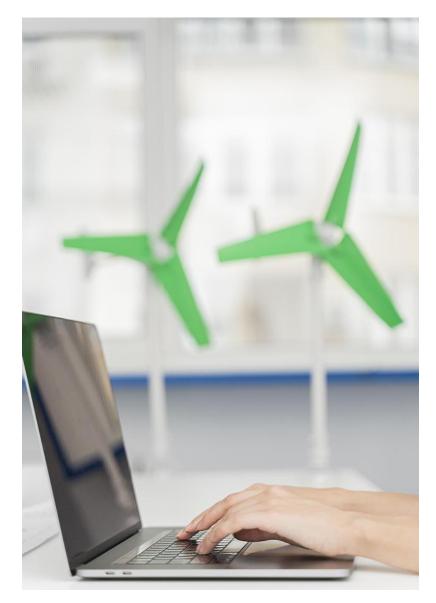


Innovation desk Startups, prototypes, research outputs, and scalable projects ideas

Adoption Pathways. Connect innovators with industry players and policymakers. **Collaboration Hub.** Encourage co-development between organizations

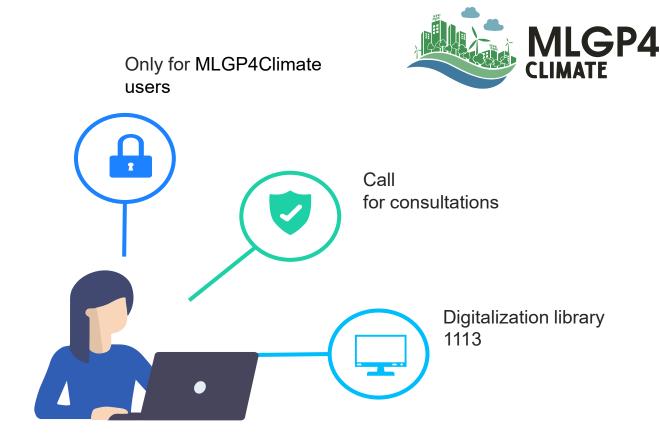
Impact

- Amplify visibility of climate innovations
- Support scaling from local pilots to global solutions.
- Enable cross-sector collaboration and technology transfer.
- Drive climate action through real-world deployment.



Consultations MLGP4Climate members system

The Consultations System will provide MLGP4Climate users with direct access to expert support and peer guidance. Through structured consultations, users will be able to request advice, book sessions, and connect with experts across academia, industry, and policy.



Financial Attraction Toolkit – from Innovation to Finance



Connects people, funding, innovations, and expertise through smart digital tools to accelerate machine learning solutions for climate action.

01

Interactive Financial Strategy Simulator makes it clear who is working on what, and where.

03 >

Green Innovation
Marketplace
showcases
breakthrough
solutions ready
to scale

02

"Funding Match"
Alert System
ensures innovators never
miss the right grant or
investment.

04

Consultations system for MLGP users connects users directly with world-class experts





None of us is as smart as all of us/ Ken Blanchard

If you can laugh together, you can work together/Robert Orben

Individually, we are one drop. Together, we are an ocean/Ryunosuke Satoro