CLIMAAX Project

CLIMAAX Methodological Framework CLIMAAX Toolbox

Michaela Bachmann, IIASA Milana Vučković, ECMWF ClimateEurope2 Venice, 11 March 2024





The CLIMAAX Project

Regional and local Climate Risk Assessments→ Financial, analytical and practical support

ATTENTION!

APPLICATION DEADLINE EXTENDED 22 March 2024

> RECEIVE UP TO €300 000 ... FOR YOUR REGION

Framework, Toolbox, Pilots → testing data needs and diversity of requests

CLIMAAX

Climate ready regions

→ Financial support for >50 regions

Part I: CLIMAAX Methodological Framework

Michaela Bachmann, IIASA

Framework based on three pillars forming the conceptual background.













Background fosters operational steps that guide through **iterative** climate risk assessment.







Framework steps introduce **Climate Risk Analysis Tool** (Toolbox).







Scoping



















Part II: CLIMAAX Toolbox

Milana Vučković, ECMWF











Bakery store

A **website** where all

- cookbooks = ٠
- recipes •
- ingredients 🔀 •

are shown and explained

And where Framework lives

Search *+	ĸ	Introducing the CLIMAAX handbook and future climate risk. By providing	 a dedicated guide for regions nav a step-by-step framework and tools 	igating the complexities of curren , the handbook aims to help regio
LIMAAX Handbook		understand what their climate risk is Flexibility'. By blending the two con	and inspire action. The motto of the cepts, we created a wealth of mater	handbook is 'Standardised ial while allowing you to shape it to
out us		your requirements.		
ne CLIMAAX project		Our commitment goes beyond explo	ring new climate values. We aim to r	nove from data to impacts across
inding opportunities		sectors, providing actionable guidan	ce to stakeholders.	
CRA Steps		Snapshot		Jupy
amework description				
oping	_	Y Practical Solutions	🖉 Step-By-Step Guidance	🔲 Accessible Knowledge
k Identification	~	CLIMAAX goes beyond	Navigate your local context	No advanced expertise
sk Analysis	~	theory, offering practical	with ease using our	required. CLIMAAX is
y risks assessment	_	challenges. Our approach	approach featuring guiding	information you need
onitoring and Evaluation		ensures that the insights	questions and tips for a	ensuring accessibility for
Resources		gained through the	thorough risk assessment.	everyone.
k definition resources	_	tangible actions, fostering		
tasets	_	resilience and sustainability		
ding resources		in your region.		
Join the community				
gage with other regions		🞓 Adaptive Learning	🧠 Global-Local	🛠 Versatile Toolkit
ontribute to risk recipes	_	Whether a beginner or	Integration	The Swiss army knife of
	_	expert, CLIMAAX adapts to	CLIMAAX seamlessly blends	climate risk assessments,
	_	your understanding. We're	global expertise and data	the CLIMAAX handbook is a
	_	risk assessment accessible	comprehensive	methods and data for all
	_	to all levels of expertise.	understanding of climate	aspects of climate risk
			risks.	assessment
	_	💭 Equity Emphasis	🕂 Financial Support	🚀 Continuous
	_	Social justice is woven into	Join over 50 regions	Improvement
		our framework, ensuring	benefiting from financial	Beyond a tool, CLIMAAX is a
	- 1	inclusivity and leaving no	support for personalized risk	journey. We're dedicated to
		climate risks.	opportunities for your	growth, ensuring our
		Gilling to to to.		resources evolve with your

ΔThis is the first operational version of the handobok, but it is still a work in progress and will be heavily updated during 2024!
 Δ

0 4 0 0

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Risk cookbooks



Each cookbook contains:

	Various risk assessment recipes
X	A supply closet for data supplied by us
	Files for installation

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Time MaurizioMazzoleni Update Hazard_assessmer	nt_FLOOD_COASTAL.ipynb	386a14b - 3 days ago	🕒 84 Commits	Repository for collabo workflows for floods h
] .gitignore	small updates		2 weeks ago	C Readme
] FLOOD_RIVER.ipynb	small updates		2 weeks ago	Apache-2.0 license
Flood_BuildingDamage.ipynb	Add files via upload		2 months ago	 Custom properties
Hazard_assessment_FLOOD_COASTAL.ipynb	Update Hazard_assessment_FLOOD_COASTAL.ipynb		3 days ago	☆ 2 stars
Hazard_assessment_FLOOD_RIVER.ipynb	added description datasets		last week	⊙ 0 watching ♀ 0 forks
] JRC_damage_curves.csv	added transport and road damage curves		6 months ago	Report repository
LICENSE	Initial commit		10 months ago	Releases
LUISA_damage_info_curves.xlsx	Update for more readability		4 months ago	No releases published
README.md	Update README.md		2 months ago	Create a new release
Risk_assessment_FLOOD_COASTAL.ipynb	update		2 weeks ago	Packages
Risk_assessment_FLOOD_RIVER.ipynb	Update Risk_assessment_FLOOD_RIVER.ipynb		3 days ago	No packages published Publish your first package
Risk_workflow_description_FLOOD_COASTA	Update Risk_workflow_description_FLOOD_COASTAL.md		3 days ago	
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environment.yml	updated		2 months ago	🌘 🦚 🚭 🚯
README Apache-2.0 license			∅ :≡	Languages
River flood workflow: @ launch binder Coastal flood workflow: @ launch binder FLOODS	Git	Hub		 Jupyter Notebook 100
Repository for collaboration on workflows for workflow. How to run	floods hazards, including a river	flood workflow and coas	stal flood	







Three levels of customisation:

Solution Section Secti



Do alterations, save work, and upload local data but stay within a closed environment

 	<u> </u>

Download and install on computer for complete flexibility and complexity









From a chef's kitchen to the bakery's favourite



https://handbook.climaax.eu







www.climaax.eu

Thanks







Co-funded by the European Union

Project ARCADIA: Which <u>climate services</u> to support the pathway to <u>resilience through NBS</u> of 8 European Regions?

Arianna Cecchi, ART-ER, Italy. Climateurope2, Venezia Mestre. 11/03/2024



Co

ARCADIA

Transformative climate resilience by Nature-based Solutions in the continental bio-geographical region

HORIZON-MISS-2022-CLIMA-01-06 ID# 101112737 ARCADIA contributes to the EU Mission on Adaptation to Climate Change





Adaptation to Climate Change

Support at least 150 European regions and communities to become climate resilient by 2030 Project 101112737 — ARCADIA





Project 101112737 – ARCADIA Main project goal

- Galvanise transformative adaptation using nature-based solutions across European regions and support them in designing consistent regional blue-green infrastructure networks.
- We will assist the regions & communities in accessing up-to-date, evidence-, knowhow-based, actionable knowledge, guidance, knowledge-intense tools and services.
- We will foster enabling conditions and capabilities for nature based leveraged transformation and green recovery, to perform tailored risk & performance assessment, mobilise sustainable finance & resources and close adaptation financial gap, scale-up solutions for larger impact and design adaptation services for transformative change to resilience.











ARCADIA regions

MODEL REGIONS

- Emilia-Romagna, Italy
- Lower Austria, Austria
- Zagreb; Krapina-Zagorje, Croatia
- Skåne, Sweden
- Funen, Denmark

FELLOW REGIONS

- Plovdiv, Bulgaria
- Centru, Romania
- Podravje, Slovenia



Emilia-Romagna



Map from: https://ft.wikipedia.org/wiki/Emilia-Romagna By TUBS - This vector image includes elements that have been taken or adapted from this file, CC BY-SA 3.0, https://commons.wikimedia.org/windex.php?curid=14512796

Challenge:

Increase the territory resilience - esp. to exceptional rainfall flooding - through Sustainable and Active Forest Management

<u>Areas of work</u> relevant to climate services Develop pilot Forest land use plans addressing:

- Erosion protection and hydrogeological safety
- Valorisation of forests natural capital (including PES)
- Enhancement of water-related ecosystem services



Lower Austria



Map from: https://en.wikipedia.org/wiki/Lower_Austria By TUBS - Austria location map.svg by Lencer, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=14148742

Challenges:

HEAT-related stress in urban areas DROUGHT in agriculture TORRENTIAL RAIN (runoff erosion)

Areas of work relevant to climate services

- Water managemnet in urban areas
- Multifunctional shelterbelt (agriculture) biodiversity / corridors soil water retention
- Urban (community) green spaces
- Mainstream NBS solutions knowledge and practices to all the municipalities of the region



Zagreb & Krapina-Zagorje



Map from: https://commons.wikimedia.org/wiki/File:Location_of_Zagreb_in_Croatia.PNC By MislavK - Own work by the original uploader, Public Domain, https://commons.wikimedia.org/windex.oho?curid=7169793

Map from: https://en.wikipedia.org/wiki/Krapina-Zagorje_County By TUBS - This vector image includes elements that have been taken or adapted from this file; CC BY-SA 30, https://commons.wikimedia.org/windex.php?cuid=1453594

Challenges:

Zagreb: urban heat island & urban flooding KZ: Landslides; Biodiversity-agriculture

<u>Areas of work</u> relevant to climate services

- Spatial planning and implementation mechanism with synergistic approach to mitigation and adatpation
- Integration of climate-, adaptation-, mitigation-related data in a geo-spatial data system
- Modelling NBS solutions and assess their impact on climate risk.
- Portfolio of NBS / identification and prioritisation of key NBS measures with the support of the GIS tool





Map from: https://en.wikipedia.org/wiki/Skåne_County By TUBS - This SVG file was uploaded with Commonist., CC BY-SA 3.0, https://commons.wikimedia.org/windex.php?curid=14337584

Challenges:

- Floodings after intense rainfalls
- Drought across Skåne

Areas of work relevant to climate services

- Integrative Water Cycle Strategy
- Identify spaces for NBS (landscape city trade off)
- Widen the knowledge about heat and climate change risks



Funen



Map from: https://en.wikipedia.org/wiki/Eunen By Los688 - File:Denmark location map.svg, CC BY 3.0, https://commons.wikimedia.org/wiindex.php?curid=8228962

Challenges:

- Cloudburst and heavy precipitation
- Shallow groundwater rising
- Flooding from streams and lakes
- Storm surges and rising sea level

Areas of work relevant to climate services

- Integrated water cycle strategy (improvement aquatic environment)
- Sustainable drainage system (also with citizen science)
- Streams overflow/flooding ptoection
- Blue-green infrastructure network





Climate service case: the Parco del Mare, Rimini (IT) Performance Assessment of NbS and Green Infrastructure Networks

SaferPlaces and Parco del Mare - Scoping

- Green Urban/Sea Promenade Regeneration Plan
- Protecting the municipalities from Coastal Flooding









Study case "Parco del Mare"/2

SaferPlaces and Parco del Mare – Hazard Selection and Data









Study case "Parco del Mare"/3





Year 2050 Coastal Flooding Extension & Associated Damages

Without Parco del Mare (left) and with "Parco del Mare" (right)

Model – Hazard and Damage













Arianna Cecchi, ART-ER

arianna.cecchi@art-er.it





Climateurope2 Festival – 11 March 2024 Philippe Tulkens European Commission Head of unit RTD B3 "Climate and planetary boundaries" & Deputy Mission Manager

#EUmissions #HorizonEU #MissionClimate





A priority in the policy agenda

At EU level



EU Strategy on Adaptation to Climate Change
- Adopted in February 2021
→ A building block of the European Green Deal



Italy's Recovery and Resilience Plan: 194.4 billion € 39% of the available funds expected to go to climate objectives

At National level



New National Plan on adaptation to climate change - Adopted in December 2023

At Regional/local level



CLIMATE ADAPTATION STRATECY

short version

ROMA

New Strategy on adaptation to climate change, Roma Capitale - Adopted in January 2024




Mission objective

To accompany by 2030 at least 150 European regions and communities towards climate resilience

upscaling solutions that trigger transformations 75 and developing enabling conditions and solutions demon BUILD ESILIENCE -strations ACCELERATE designing a vision and innovation pathways 150 TRANSITION communities and developing enabling conditions and solutions A RESILIENT and regions FUTURE better understanding, preparing for and managing climate risks such as heatwaves, Citizens forest fires, droughts, floods, storms and communities diseases and regions







Supporting Italy towards climate resilience

Top 3 beneficiary from Mission calls (EU contribution)

Spain	48.4 m€
The Netherlands	41.9 m€
Italy	31.8 m€

Out of 33 Member States + associated countries Total: 293 million €

Member State with most demonstrators sites located in its territory

country	#
IT	16
ES	15
EL	9
RO	8
PT	8
FR	7
FI	6
HR	5
DK	5
BE	5
AT	5

Benefitting from technical assistance from MIP4Adapt (dedicated to Mission Charter Signatories): Friuli Venezia Giulia Potenza province Veneto



And even more upcoming opportunities via the open calls from projects P2R, CLIMAAX





Funding innovative solutions and supporting regional and local pathways towards climate resilience

objectives Buildo 75 Buildo derror RESILIENCE - strations ACCELERATE TRANSTRON AESSILIENT Suburge Buildo derror Stratsford and regions ACCELERATE Suburge Suburge

2021 call – 9 running projects (LINK)

- (obj I) A climate risk assessment framework (20 M€)
- (obj II) Local climate resilience pathways (30 M€)
- (obj III) Large-scale demonstrator (50 M€)
- 2 Enabling conditions: engagement, asset-level modelling

2022 call – 16 projects (LINK), incl 4 under grant agreement

- 3 enabling conditions: finance, insurance, user-driven tools,
- 1 key system: local economic system
- (obj III) Test and demonstrate NBS (+90 M€)

2023 call – under grant agreement

• (obj III) Test and **demonstrate** transformative solutions -- 5 key systems (138 M€)

2024 call – opens in Q1

Enabling conditions & key systems







Testing and deploying solutions in Italy and in Europe





MountResilience → demonstrators, testing solutions for mountainous regions and communities Total budget: 15.9 mln € Start date: 09/2023 → End date: 02/2028



Demonstrator region in Italy: Piemonte Region Replicator region in Italy: Friuli Venezia Giulia

LAND4CLIMATE → increasing the resilience of landscapes and urban settlements via naturebased solutions (NBS) I Total budget: 12.9 mln \in Start date: 09/2023 → End date: 08/2027

Frontrunning region in Italy: Lower Po Delta Replicator region in Italy: Emilia Romagna



TransformAR →introduce large-scale solutions to address water-related risks Total budget: 12.7 mln € Start date: 10/2021 → End date: 09/2025



Demonstrator: Oristano, Sardinia





- EU Mission on Adaptation to Climate Change Portal (europa.eu)
- Thematic webpage Commission: Mission on Adaptation to climate change (europa.eu)
 - You can follow us by subscribing to the monthly Mission Newsletter

Thank you!

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#MissionClimate

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Piloting Regional Climate Risk Assessment

Cristina Coelho, Setúbal Municipality

11 March 2024





The Pilot's Role on CLIMAAX Project

- CLIMAAX has 5 pilots each pilot contributes to a specific workflow;
- Setúbal's pilot role enriching the CLIMAAX workflow and toolbox development on fast floods;
- Open call until 22 march 2024: <u>https://www.climaax.eu/fstp-open-call/</u>

A robust Climate Risk Assessment:

Climate Scenarios

What will be available to applicants?

- Risk Assessment;
- Real Examples closing the gap between theory and practice;





Flash Floods in Setúbal (Portugal)

The city is enclosed by natural protected area with mountains on the west, the Sado Estuary on the east, and the sea to the south.





The city is built closely to the shore with industrial areas stretching along the coast and the port for international cargo.





Flash Flooding in the past



Setúbal has suffered from the impacts of flash floods many times in the past. Flash floods occurred almost once in 10 years between 1940s and 80s. Especially the flash flooding event in 1983 and a more recent one in 2008 generated strong disruptions and devastating damages in downtown Setúbal.





Flash Flooding in the past

In Setúbal, flash floods have been triggered by intensive rainfall (>100mm) condensed to a few hours, mostly during the autumn and spring seasons.

The flash flood hazard is related to the short concentration time within small catchments, coupled with the typical occurrence of high peak discharge and a very high sediment load.



Imagem do Parque das Escolas, após o ciclone de 1941.





Flash flood susceptibility projection for Setúbal until 2100

Flash floods are expected to occur more often in Setúbal in the future. This map shows the expected change in intensive rainfall susceptibility of areas by 2100 (compared to current susceptibilities) considering the emission scenarios RCP 4.5 and 8.5.







Hazard – Flash flood prone areas

Across the region of Setúbal, around 8.5 km2 of the area are susceptible to flash flooding. The densely built-up urban area of Setúbal shows the highest likelihood to be affected. Areas with low susceptibility are located along streams around the whole region.







Assessment of (present-day) exposure



Dasymetric distribution of population





Exposure – Exposed infrastructure

Flash flooding in the centre of Setúbal can affect up to 12% of residential buildings. While half of the administrative buildings of the city are located in the center and expected to be flooded as well as many health facilities and education buildings.

One major concern is the potential disruption of the emergency management of the city due to flooded roads and buildings. It was calculated that only about 6% of the roads can be flooded but the exposed roads are of high importance for emergency management and the only connection to the industrial area in the south-east of the city.









Vulnerability – Vulnerable Population



The buildings in the medieval center of the city are very old and are partly lacking sufficient maintenance. A socioeconomic assessment was performed looking at the demography, social support, economic status, education level, housing conditions, family structures employment rate, and health conditions. The assessment highlighted the fact that this old center of Setúbal is more vulnerable than others.



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www.climaax.eu

Thank you cristina.coelho@mun-setubal.pt







Uniting science, services, and standards for a climate-resilient future Climate Services and Innovation Festival, Venezia, 11-13 Marzo 2024

Climate change and nature-based solution: L'Aquila case study

Ph.D. Dina Del Tosto Environment and Civil Protection Sector Municipality of L'Aquila - Italy





Uniting science, services, and standards for a climate-resilient future Climate Services and Innovation Festival, Venezia, 11-13 Marzo 2024

Cities at risk: dealing with the pressures of climate change

When we talk about climate change, we need to understand the role of the city... We are already seeing the impacts of climate change which will subject populations to untold risk and suffering, push already struggling services to the brink and undermine city government's efforts to protect their citizens.

The cities have a crucial role to play in order to manage the unavoidable and avoid the unmanageable.

It is in urban areas that the challenge to climate change will be won or lost.









Uniting science, services, and standards for a climate-resilient future Climate Services and Innovation Festival, Venezia, 11-13 Marzo 2024

Cities at risk: dealing with the pressures of climate change

L'Aquila stands 721 metres above sea level, in the earth of the Abruzzo Region of which it is the administrative centre. It is a city located among the Apennines and which is affected by the effects of climate change on mountainous areas







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Current temperature trend in L'Aquila (1974-2021)

Average annual temperature



Average daily excursion



Greater number of clear days
Fewer cold waves
Fewer heat waves





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Current temperature trend in L'Aquila (1974-2021)

From the analysis of the trend of thermal indicators it can be deduced that at an adaptation level actions are appropriate to moderate the effects of summer heat during the day, for example with greater shading, more reflective materials and cool islands in places of pedestrian passage or parking and cycle lane.

It can also be deduced that there will be increasingly greater energy savings for heating buildings in the winter period, which however will be partly offset by greater summer spending on cooling.





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Current precipitation trend in L'Aquila (1974-2021)

Annual precipitation



The combined effect of increasing temperatures, therefore with greater potential evapotranspiration, combined with the slight decrease in precipitation, suggest that actions are appropriate to safeguard the water resource for all uses.

Number of rainy days per year

Station: L'Aguila - ADA0097 - (1974 - 2021) [42.3342°N, 13.4286°E] Index: r1mm. Number of days when precipitation >= 1 120 110 00 days 6 8 20 -23 giorni/secolo 00 2010 2015 2020 Sen's slope = -0.232 lower bound = -0.609, upper bound = 0.071, p-value = 0.122 Climpact v 3 1 3

Increase in dry periods
Non-significant variation in extreme precipitation events

Greater drought also due to greater
evaporation (increased temperatures)
Increase water resource storage





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What actions?

Building resilience will be key for urban policymakers, and will provide many co-benefits, making cities wealthier and healthier places to live and work.

L'Aquila is actively working on the use of <u>Nature-Based-Solutions</u> (NBS) to fight climate change through urban forestation and the creation of rain gardens, which are also important for Health and human well-being.

The nature-based solutions, especially urban forestation, can reduce the heat island effect and combating extreme climatic events and cut down carbon dioxide emissions. NBS represent a multi-purpose and multi-service approach, which includes a series of solutions inspired by nature to improve environmental quality and provide improvement in the psycho-physical health of the population in cities.





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Experimental program for adaptation to climate change in urban

areas



MINISTERO DELL'AMBIENTE E DELLA SICUREZZA ENERGETICA

Planned projects and financed by the Ministry of the Environment <u>Urban forestry</u>, functional to mitigating the effects of climate change and act as a carbon sink: it is planned to plant around 600 native trees

2 <u>Rain gardens</u> to filter, manage and accumulate rainwater, integrated within two green areas

1 <u>Water Square</u>: it can be a valid tool for accumulating water for different uses (for example for the irrigation of green areas), but also for intercepting runoff water that can overload the city's water systems..





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Application example: adaptability of tree species

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Currently, together with the University of L'Aquila, a study is underway to identify the best native tree species that can adapt to the increase in temperature in the coming years.

Species	Total	
Quercus-ilex		4
Pinus-nigra		5
Quercus-pubescens		5
Castanea-sativa		6
Fraxinus-ornus		6
Quercus-cerris		7
Quercus-suber		8
Corylus-avellana		9
Fagus-sylvatica		9





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Application example: River Contract of Aterno

The Aterno River Contract is an important tool for mitigation and adaptation to climate change; it is a voluntary instrument of strategic and negotiated planning which pursues the protection, correct management of water resources and the valorisation of river territories, as well as safeguarding them from hydraulic risk, contributing to local development.

The Action Plan of the Aterno River Contract was also developed which provides nature-based solutions for river redevelopment (Ecosystems and nature-based solutions) and hydrogeological risk management. (Climate proofing of critical public infrastructure)





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European Missions and L'Aquila



#EUmissions #HorizonEU #MissionClimateAdaptation



CLIMATE-NEUTRAL & SMART CITIES

L'Aquila gemellata con **Drammen**





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Köszönjük

Thank

感謝您 Obrigado

Σας Ευχαριστούμ

תודה Dankie **Gracias**

Dakujeme Vielen Dank Paldies Kiitos Täname teid 油油

Bedankt Děkujeme vám

Tack

ありがとうございます

Takk

Dėkojame

Teşekkür Ederiz

감사합니다

Tak

Terima kasih

Спасибо Merc

Grazie Dziękujemy



Special thanks:

- Mayor of L'Aquila Pierluigi Biondi
- Environment Councilor Fabrizio Taranta
- Environmental Sector Manager Roberto Evangelisti
- CETEMPS University of L'Aquila

E-mail: dina.deltosto@comune.laquila.it

AGORA A Gathering place to cO-design and co-cReate Adaptation.

Nicola Loglisci, CIMA

Climateurope2 Festival Venice, 11 March 2014





AGORA in a nutshell



AGORA is a HORIZON Europe initiative started in January 2023 and coordinated by the CMCC Foundation.

AGORA aligns with the **overall goals of the EU Mission on Climate Change Adaptation**, promoting **social transformation processes** in diverse contexts through transdisciplinary tools and approaches.

The project encourages effective engagement of citizens and communities in actions against climate change, accelerating and expanding local adaptation processes to build a Europe resilient to climate change.

Objectives



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Digital tools for education, learning and engagement

- The digital AGORA
- The Academies (on Climate data and on disinformation)
- The mobile app to tackle disinformation
- The digital handbook



Activities in the pilot areas



Join the AGORA community

Followers: regions as well as associations, organizations and institutions that are involved in the process of adaptation to climate change can join the project as followers.

This opportunity enlarges the AGORA community beyond the 4 pilot areas, involving a greater number of people and supporting the whole adaptation process in Europe.






Thanks

