



“LIFE innovates Climate Action”



Day 1: LIFE innovates climate action on the regional level

09:00	Opening	Rolf Johnsen, Head of the Department of Regional Development, Central Denmark Region
09:05	Policy updates on Adaptation policies and introduction to the EU Mission on Adaptation	Johannes Klumpers, Head of Secretariat for the Climate Adaptation Mission, DG Clima, EU Commission
09:20	Keynote: <i>A regenerative response to solving global challenges</i>	Laura Storm, awarded Worldchanger, nominated “Young Global Leader”, Founder of Regenerators
09:50	Session 1: Regional systemic innovation for adaptation: new alliances towards resilience	Rolf Johnsen, Head of Department of Regional Development, Central Denmark Region
09:55	LIFE IP C2C CC - Coast to coast climate challenge	Dorthe Selmer, Project Coordinator
10:05	LIFE-IP NAdapta-CC - Towards an integrated, coherent and inclusive implementation of Climate Change Adaptation policy in a region: Navarre	Joël Dozzi, Technical Project Coordinator
10:15	LIFE IP AdaptInGR - Boosting the implementation of adaptation policy across Greece	Eleni Karali, Adaptation Expert
10:25	Panel discussion	
10:55	Break & group picture	
11:25	Session 2: Regional systemic innovation for mitigation: taking climate action to the next level	Bernd Decker, Head of Sector LIFE Climate Action, CINEA
11:35	LIFE IP ZENAPA - Zero Emission Nature Protection Areas	Jacob Bussmann, Project Manager EU Fundraising
11:45	LIFE IP BE REEL! - Belgium Renovates for Energy Efficient Living	Eddy Deruwe, Project Coordinator, Flemish Energy and Climate Agency (VEKA)
11:55	Zero Emission LIFE IP - Zero Emissions Services for a Decarbonised Alpine Economy	Daniel Boni, Project and Fleetmanagement
12:05	Panel Discussion	
12:45	Concluding remarks	Bernd Decker, Head of Sector LIFE Climate Action, CINEA





“LIFE innovates Climate Action”



Please turn OFF your microphone



Please turn OFF your camera



If you want to **ask a question during the panel discussions**, you will be invited to **turn ON your microphone and camera**.

NO questions on chat.





LIFE Platform Meeting

“LIFE innovates Climate Action”

November 8 – 9 2022





EUROPEAN UNION



EU MISSIONS

ADAPTATION TO CLIMATE CHANGE

Support at least 150 European regions and communities to become climate resilient by 2030

Johannes Klumpers

#EUmissions #HorizonEU #MissionClimate



‘European Climate Law’ – Duty to adapt

Article 5 – Adaptation to climate change

- *The relevant Union institutions and the Member States shall ensure **continuous progress in enhancing adaptive capacity, strengthening resilience and reducing vulnerability to climate change** in accordance with the Paris Agreement*
- *The Commission shall adopt a **Union strategy on adaptation to climate change** in line with the Paris Agreement and shall regularly review it*
- *Member States shall adopt and implement **national adaptation strategies and plans**, taking into consideration the Union strategy on adaptation to climate change and based **on robust climate change and vulnerability analyses**, progress assessments and indicators, and guided by the best available and most recent scientific evidence*

Regulation (EU) 2021/1119

‘European Climate Law’

Article 6 – Assessment of Union progress and measures

- *By 30 September 2023, and every five years thereafter, the Commission shall assess, together with the assessment provided for under Article 29(5) of Regulation (EU) 2018/1999 the **collective progress made by all Member States on adaptation***
- *By 30 September 2023, and every five years thereafter, the Commission shall review the **consistency of Union measures with ensuring progress on adaptation***

Regulation (EU) 2021/1119

‘European Climate Law’

Article 7 – Assessment of national measures

- *By 30 September 2023, and every five years thereafter, the Commission shall **assess the consistency of relevant national measures with ensuring progress on adaptation**, taking into account the national adaptation strategies*
- *Where the Commission finds, after due consideration of the collective progress assessed in accordance with Article 6(1), that a Member State’s measures are inconsistent with ensuring progress on adaptation, it may issue **recommendations to that Member State**. The Commission shall make such recommendations publicly available*

EU Adaptation Strategy

- Vision: *by 2050 the EU will be a climate-resilient society, fully adapted to the unavoidable impacts of climate change*
- Objectives:
 - **Smarter adaptation:** improving knowledge and managing uncertainty
 - **More systemic adaptation:** support policy development at all levels and sectors
 - **Faster adaptation:** speeding up adaptation across the board
 - **Stepping up international action** for climate resilience



© picture: Peter Löffler

Faster adaptation

Speeding up adaptation across the board, by:

- Accelerating **the rollout** of adaptation solutions
- Reducing **climate-related risk**
- Closing the **climate protection gap**
- Ensuring the **availability** and **sustainability** of **freshwater**



© picture: Peter Löffler



EUROPEAN UNION

EU
MISSIONS

Green Deal Missions:

Adaptation to
Climate Change



Climate-neutral
and Smart Cities



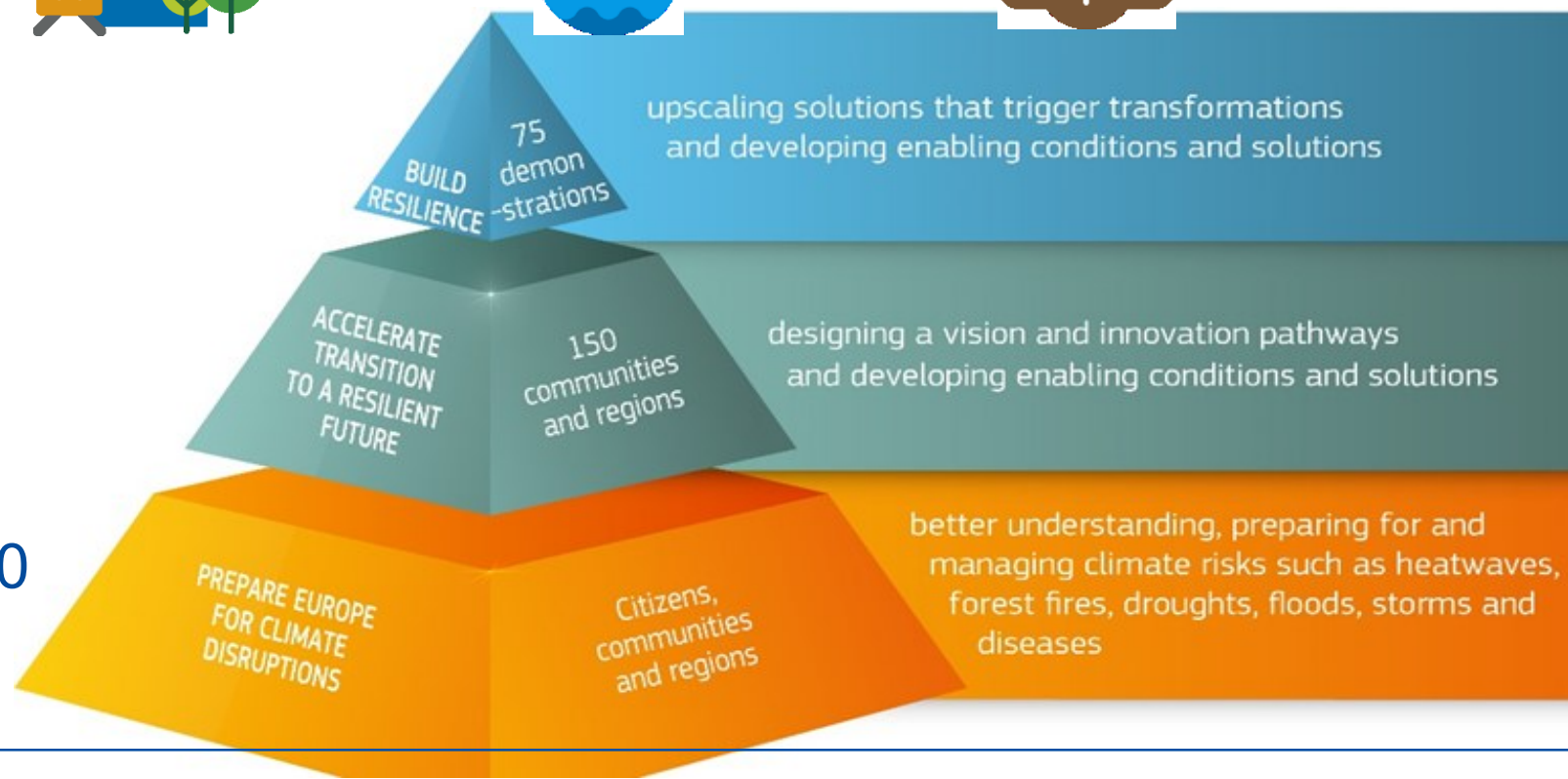
Restore our
Ocean and Waters



Soil Deal
for Europe



Objective:
Help at least 150
European regions and
communities towards
climate resilience by 2030





First Mission Charter Signatories

FIRST CHARTER SIGNATORIES

- 118 EU regions and local authorities, from 18 EU Member States
- of which, 6 regions and local authorities from countries associated to Horizon Europe, the EU's research and innovation programme (2021-2027)



Large regions



Cities



Provinces



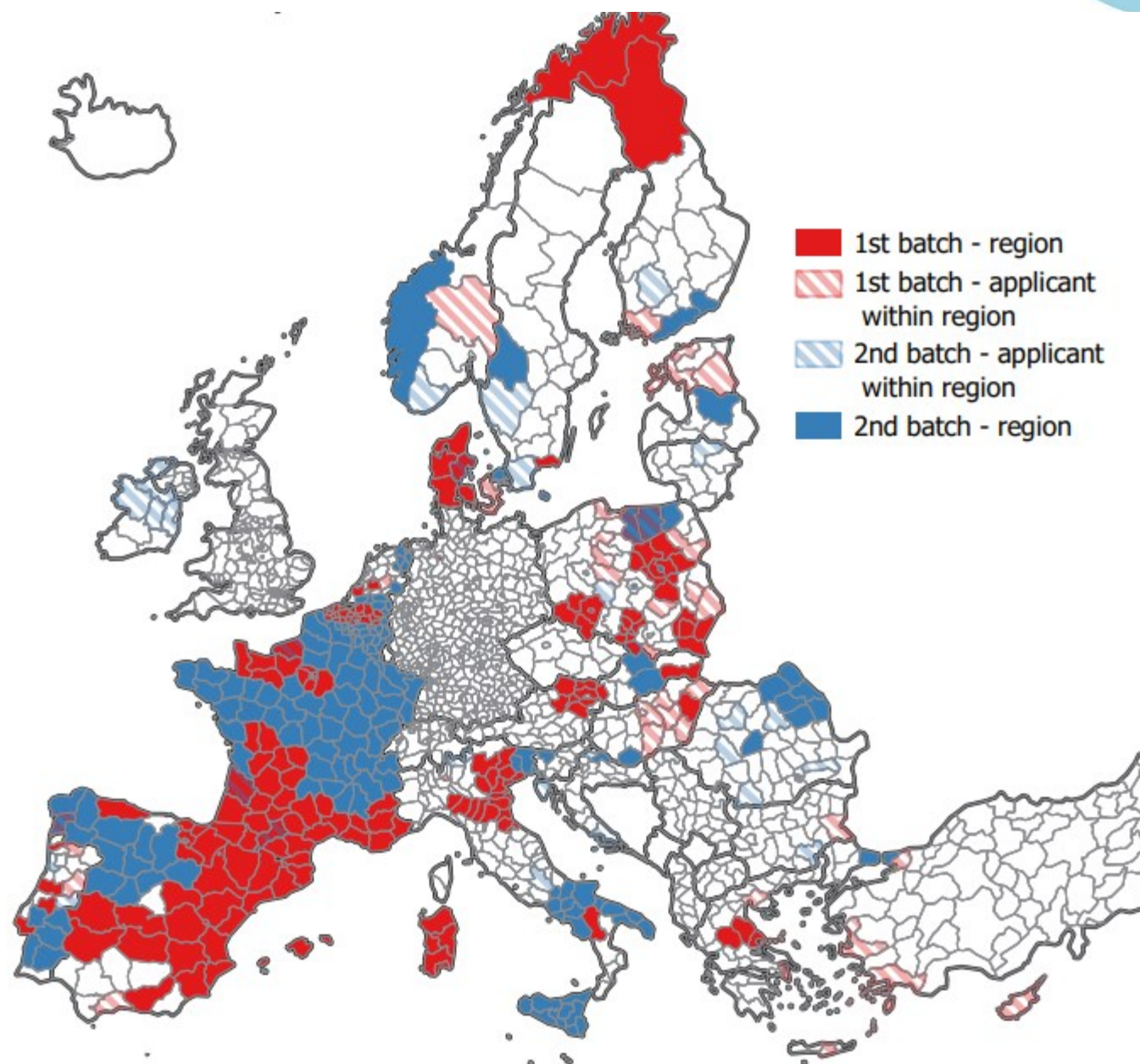
Municipalities



Capitals

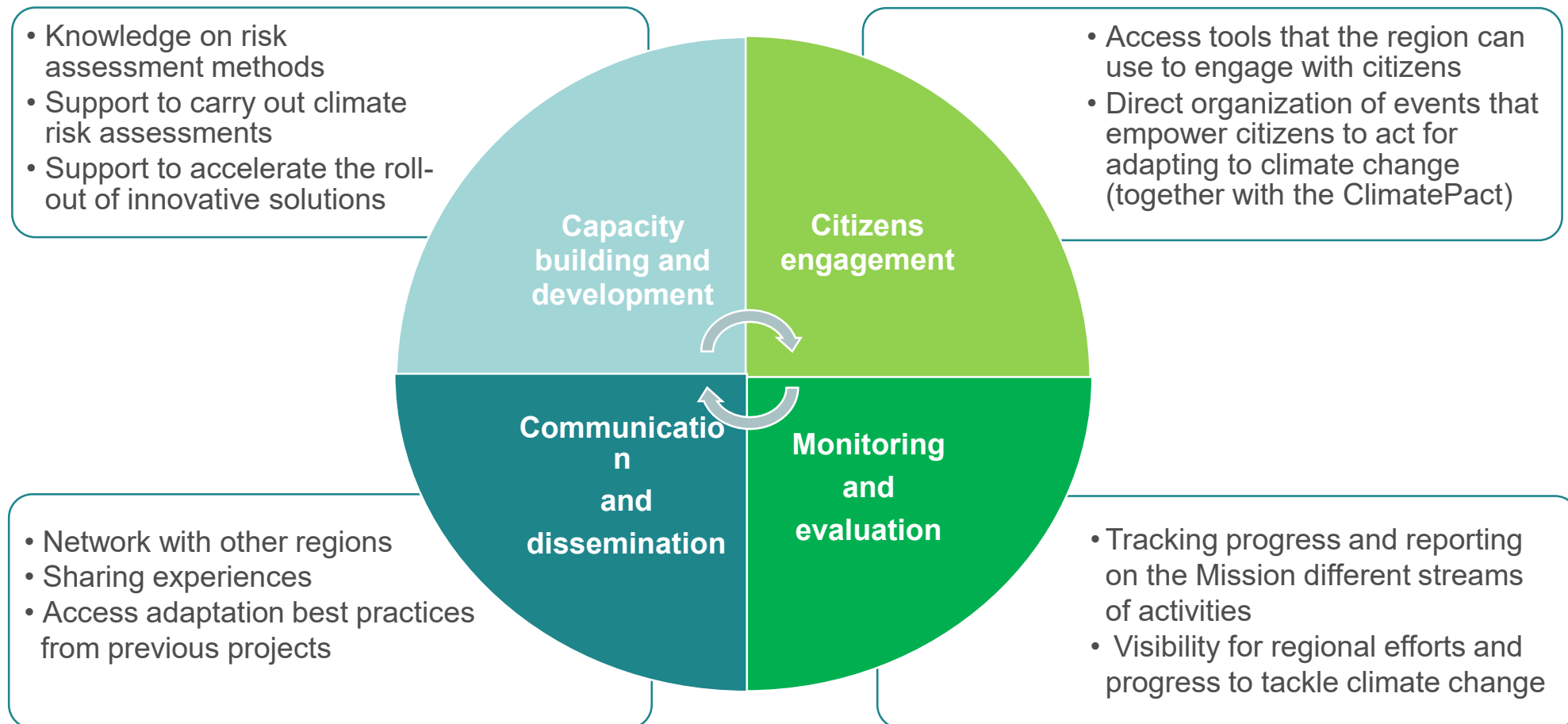
FRIENDS OF THE MISSION

- 17 private companies, service centres, research networks, and local action groups to endorse the Charter and become friends of the Mission





Support through the Mission Implementation Platform (early 2023)





Important Milestones

- Grants signed from first Mission call: Autumn 2022
- New Mission Board appointed, first meeting 29 Sept
- Watch out for Mission Implementation Platform at the beginning of 2023
- Watch out for invitations to regions by the new Horizon Europe consortium to assist with pathway development: beginning 2023
- Watch out: mission section on Climate-ADAPT soon to come
- Next Mission Forum: June 2023 (exact date to be confirmed)



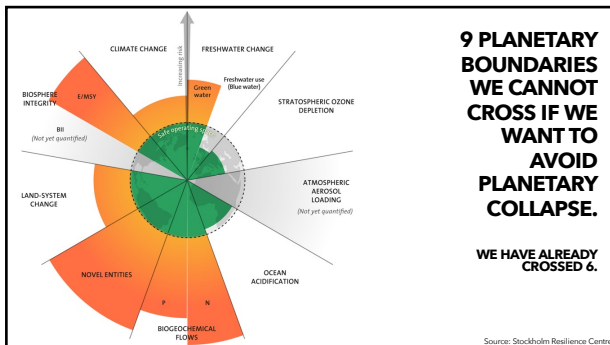
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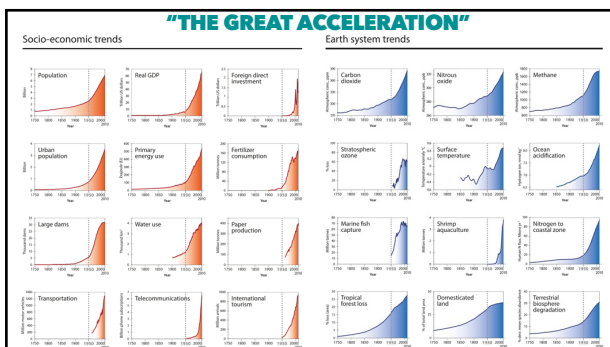
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STRESS + MENTAL ILLNESS HAVE ALSO ACCELERATED BUT IS OFTEN MISSING FROM THE CONVERSATION

KEY STATS:

US and Canada has highest levels of daily stress globally at 57%

GLOBALLY: Self-reported stress-levels increased by 30% the past decade

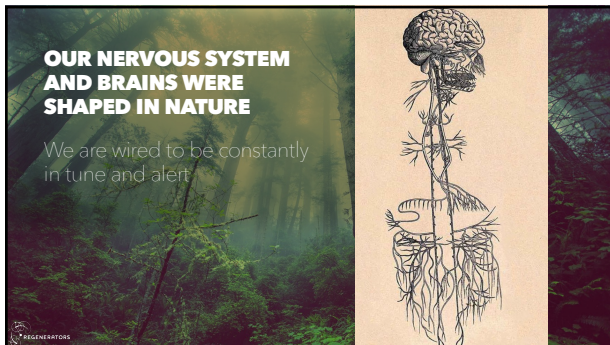
US: 60-90% of all doctor appointments stress-related

US: 2-300% increase in expenses caused by stress

EUROPE: Sale of anti-depressant increased by 20% every year since 1995

REGENERATORS

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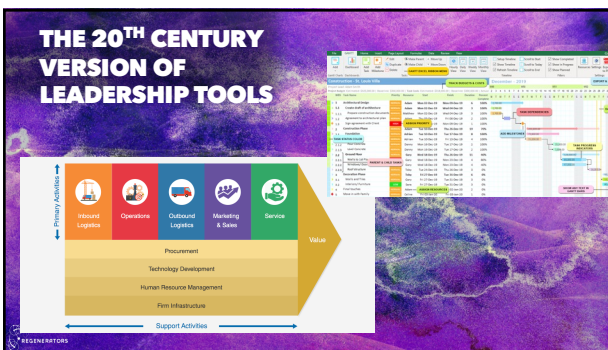
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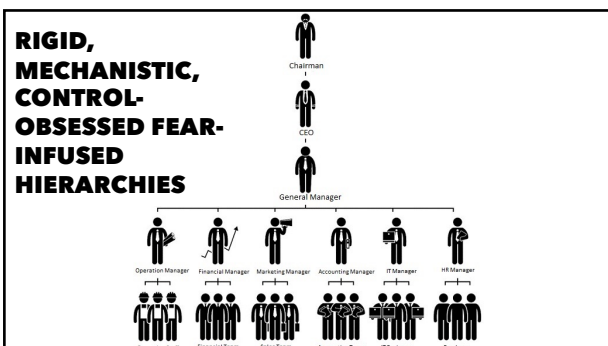
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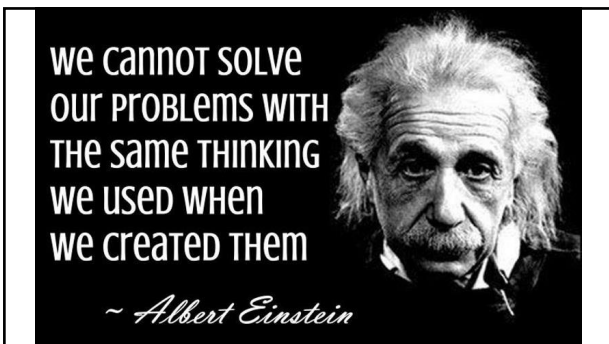
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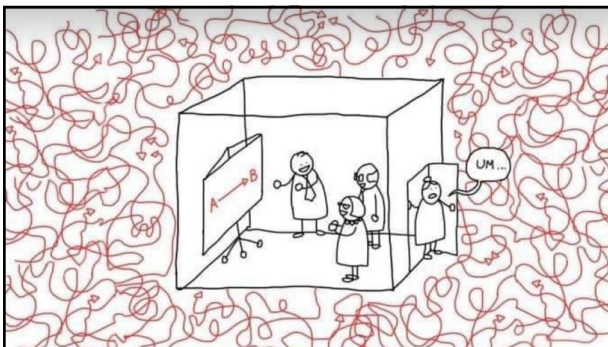
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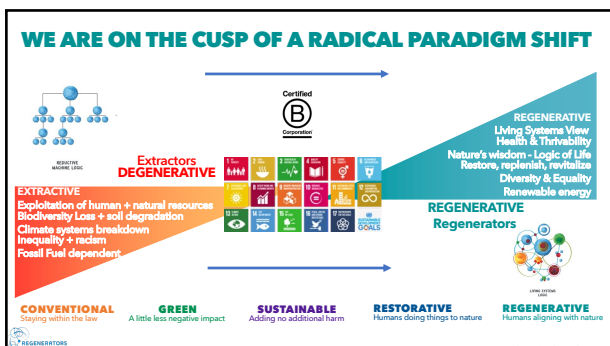
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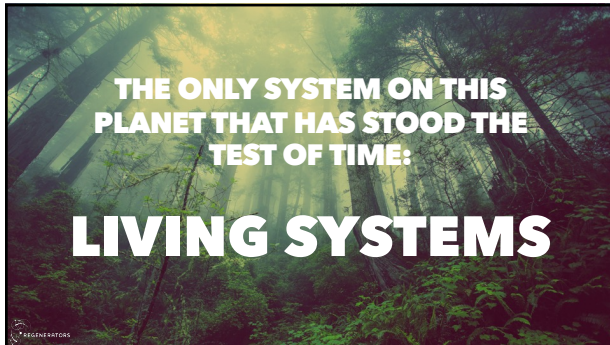
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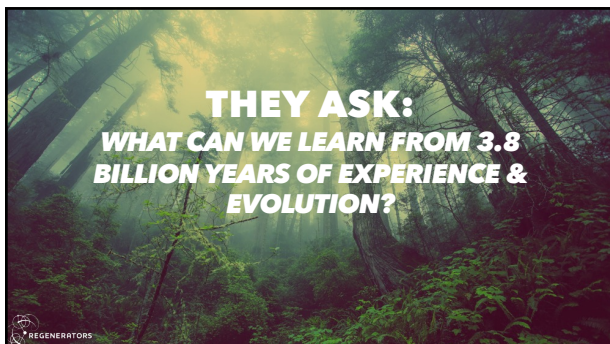
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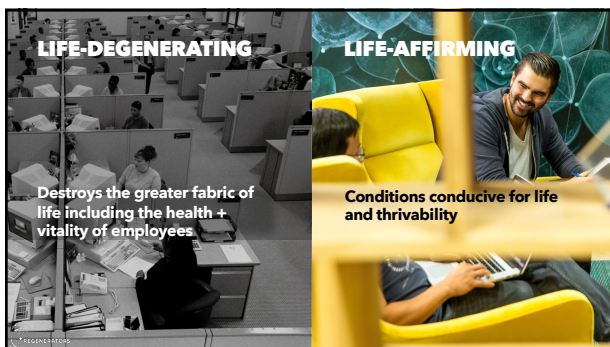
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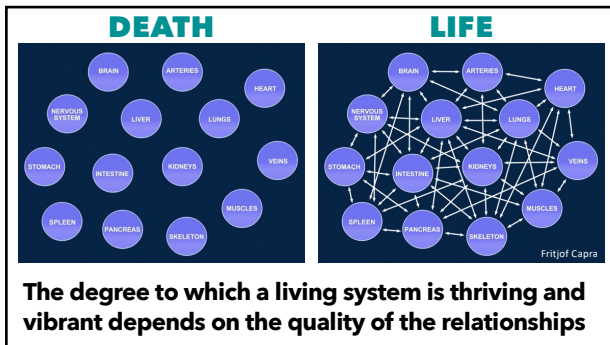
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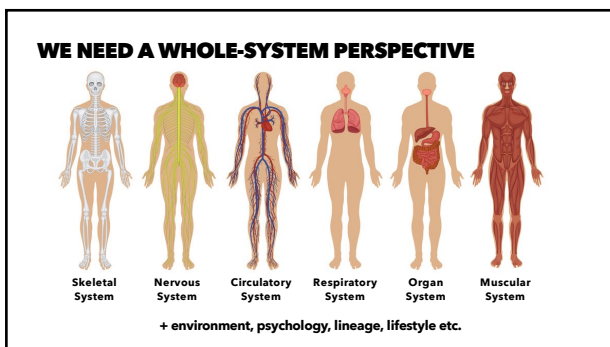
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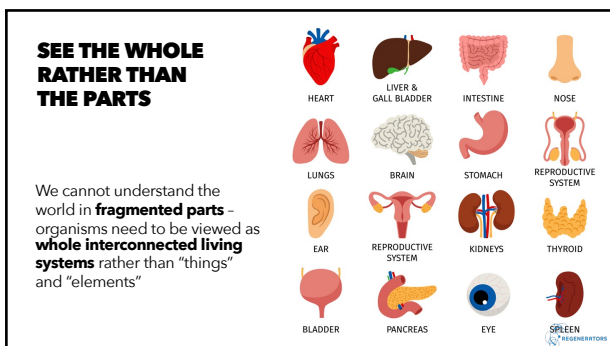
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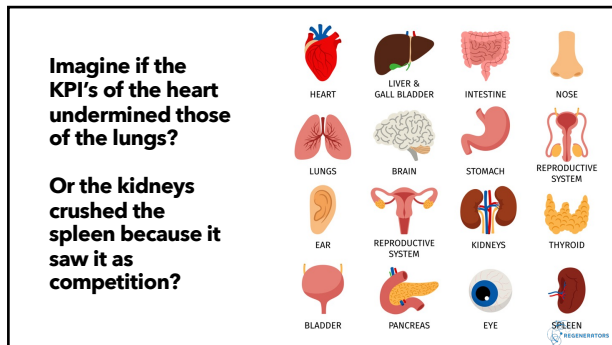
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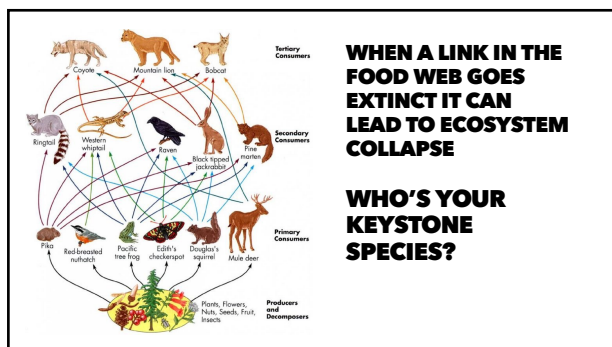
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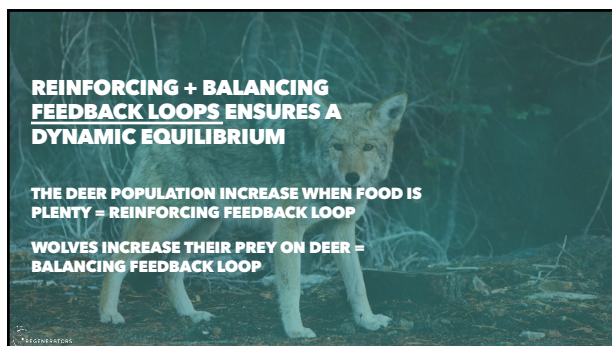
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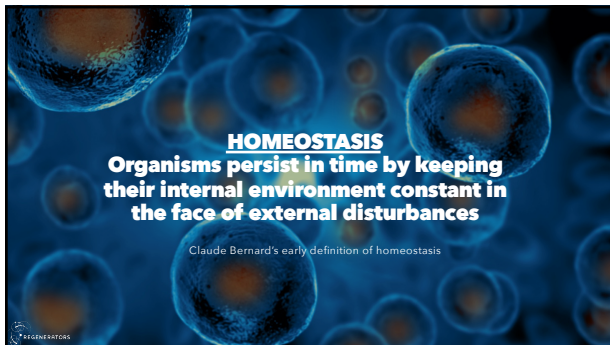
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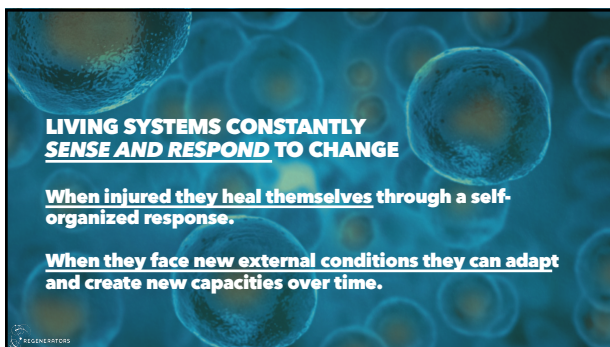
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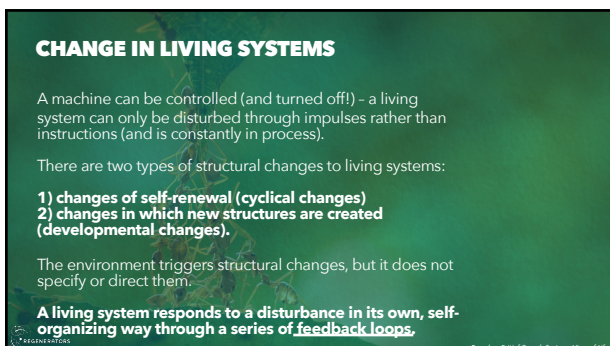
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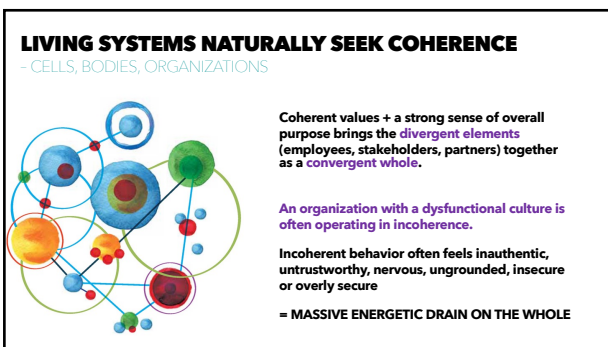
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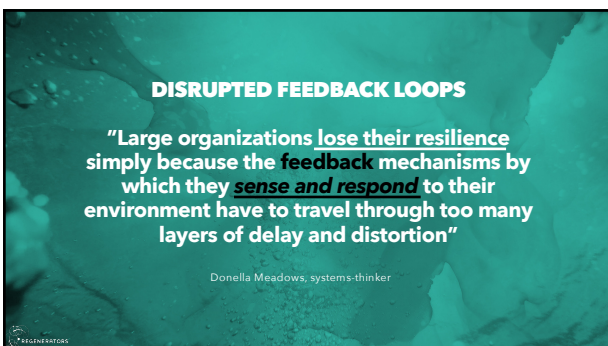
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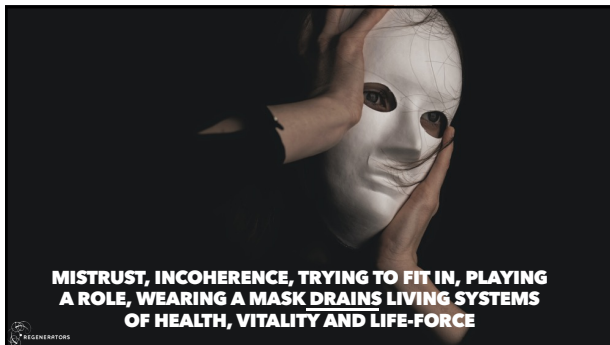
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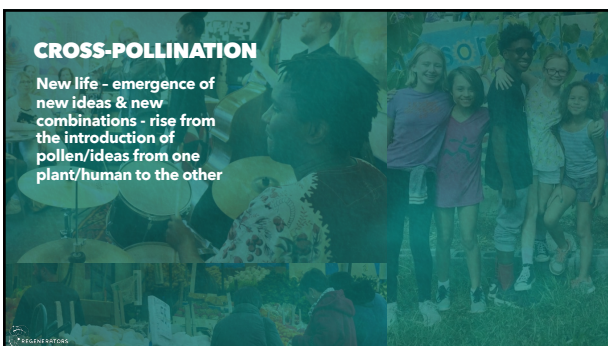
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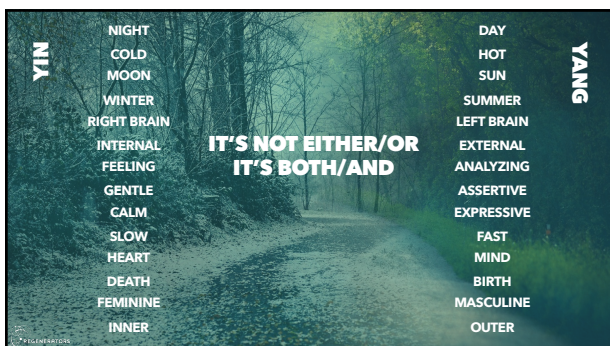
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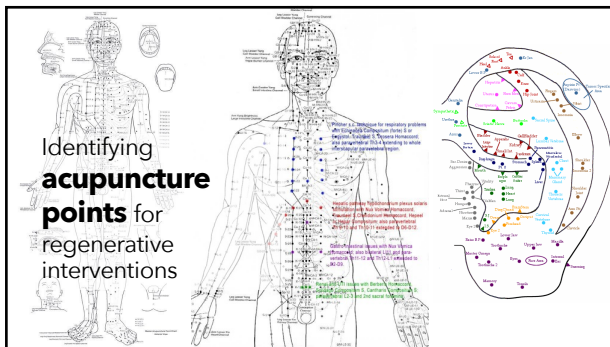
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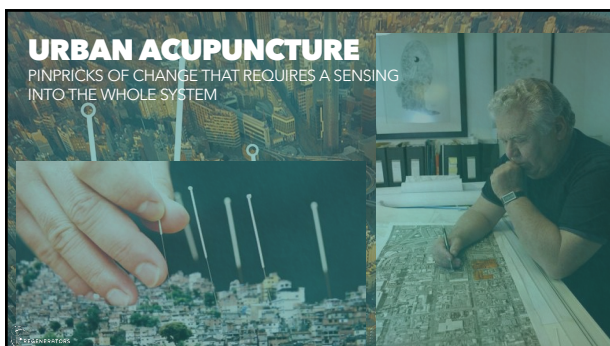
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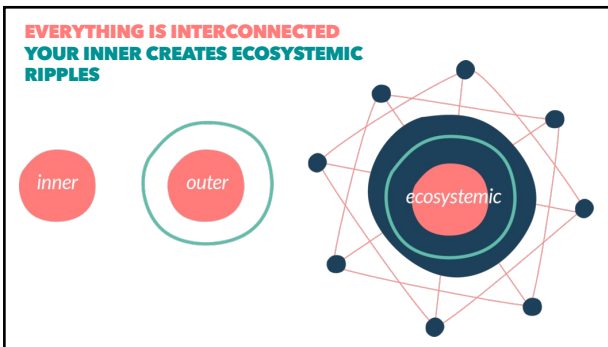
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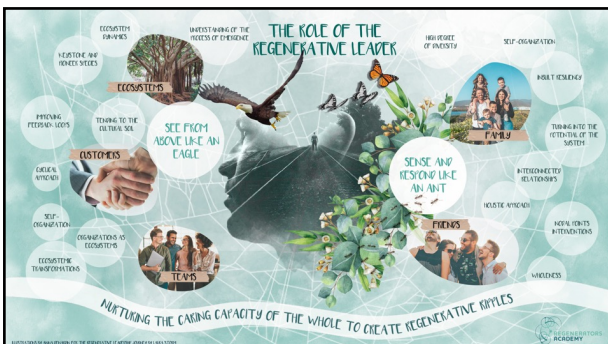
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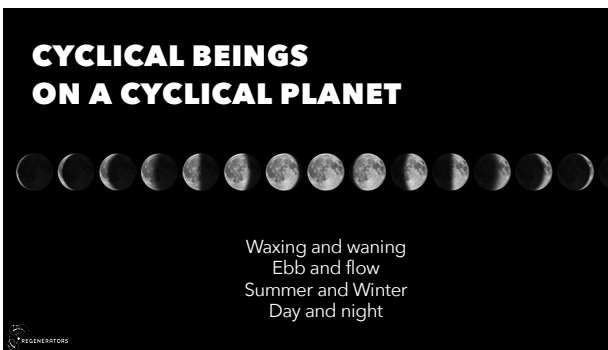
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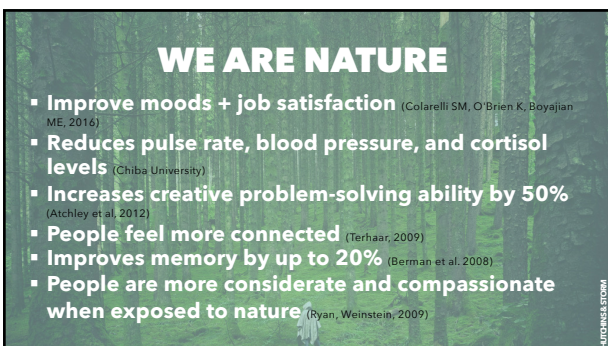
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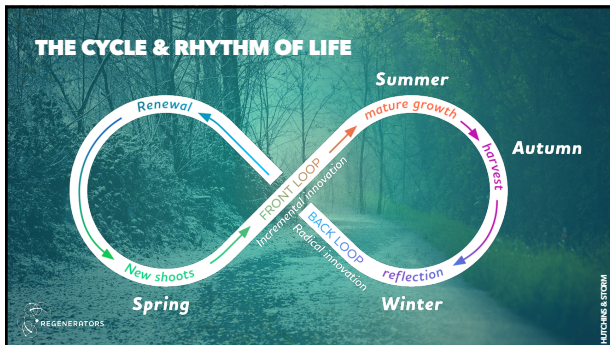
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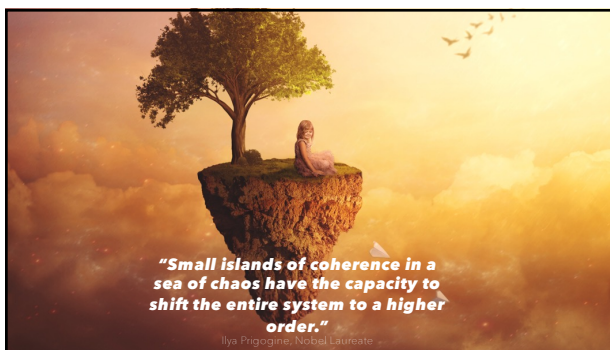
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C2C Coast to Coast Climate Challenge

Innovation in Climate Adaptation

Dorthe Selmer

Deputy Head of Office

Project Manager of LIFE IP Coast to Coast Climate Challenge

Central Denmark Region

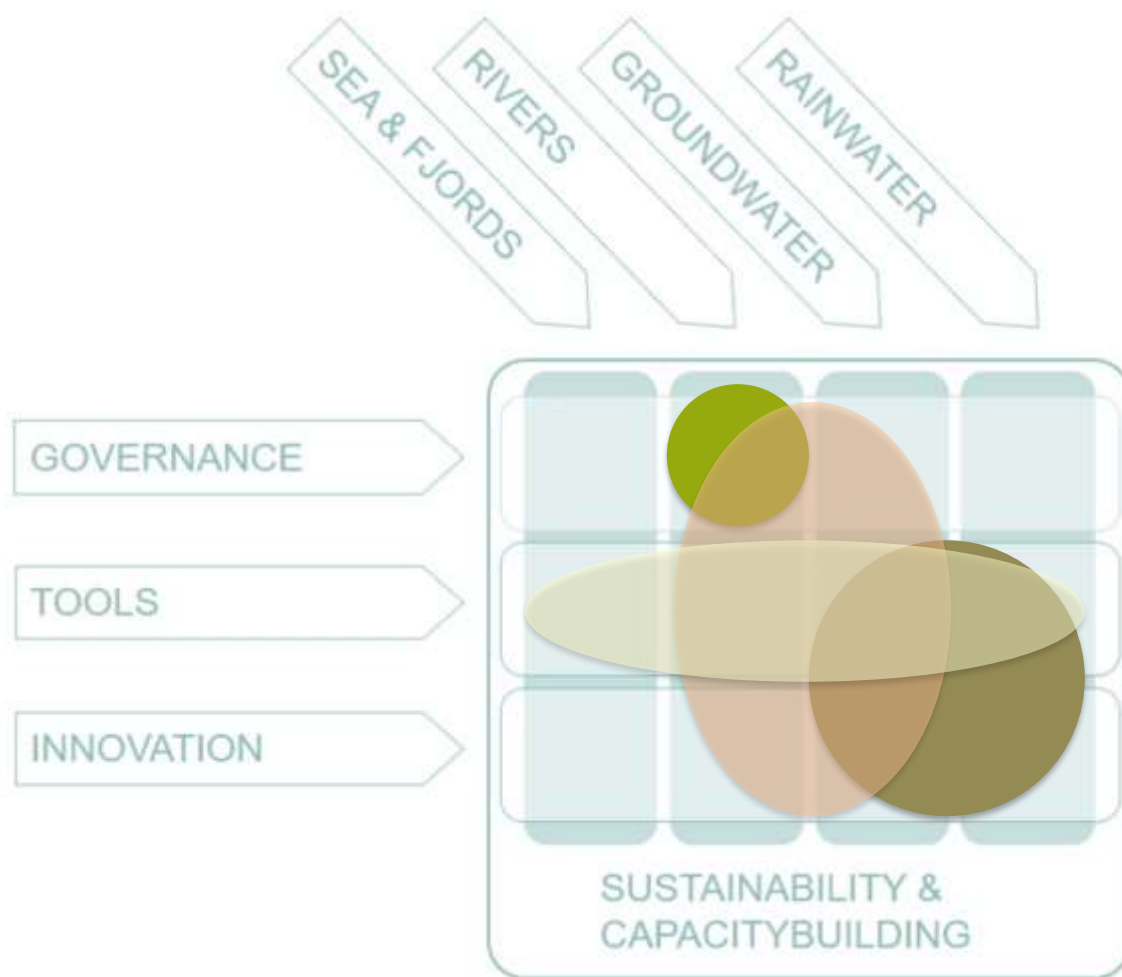
Denmark



C2C CC Platform Meeting - November 8th, 2022



The Integrated Project



Facts

LIFE15 IPC/DK/000006-C2C CC

31 partners

24 actions

Duration: 01 11 2017 – 31 12 2022

Budget: 12 mio. €

LIFE contribution: 7 mio. €



The Challenges When We Started

C2C
Coast to Coast
Climate Challenge



The Gudenå runs over its banks

- No national strategy about climate adaptation
- No Danish laws have the purpose to ensure sustainable/holistic adaptation
- The EU directives are not aligned
- No Danish authority has the responsibility to secure coherence between adaptive interventions
- Shelf goods are often used to tackle/solve the challenges
- etc.



"The Magic Road"

- New governance models/approaches
- New tools
- New solutions supporting:
 - holistic solutions, combining mitigation and adaptation
 - nature-based solutions
 - strategic use of ecosystem services
 - co-creation
- The need for:
 - raising awareness among politicians, citizens and professionals
 - capacity building among citizens, companies, civil servants etc.
 - action!

In order to push and pull for action



Among others:

1. Pointing out inconsistencies between different EU directives
2. Demonstrating that broad partnerships and co-creation is preferable instead of traditional hierarchical systems in order to create sustainable, coherent and holistic solutions
3. Consultation response given in connection with new legislation and new rules being implemented in Denmark
4. Follow-up research on the management of the C2C CC partnership
5. A series of actions that deliver fundamentally innovative solutions and use innovative methods
6. The main deliverable is a set of general principles for guiding future work with climate adaptation



The general principles from C2C CC for guiding future work with climate adaptation



Gobierno
de Navarra



Nafarroako
Gobernua



N LIFE
NADAPTA



NADAPTA THE CLIMA PROJECT

LIFE IPC ES000001 - LIFE Nadapta-CC Project

Towards an integrated, coherent and inclusive implementation of Climate Change Adaptation policy in a region: Navarra

LIFE Innovates Climate Action

LIFE PLATFORM MEETING

8th and 9th November 2022



GAN-NIK



NILSA



INTIA



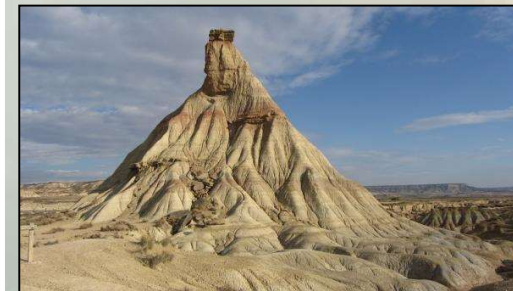
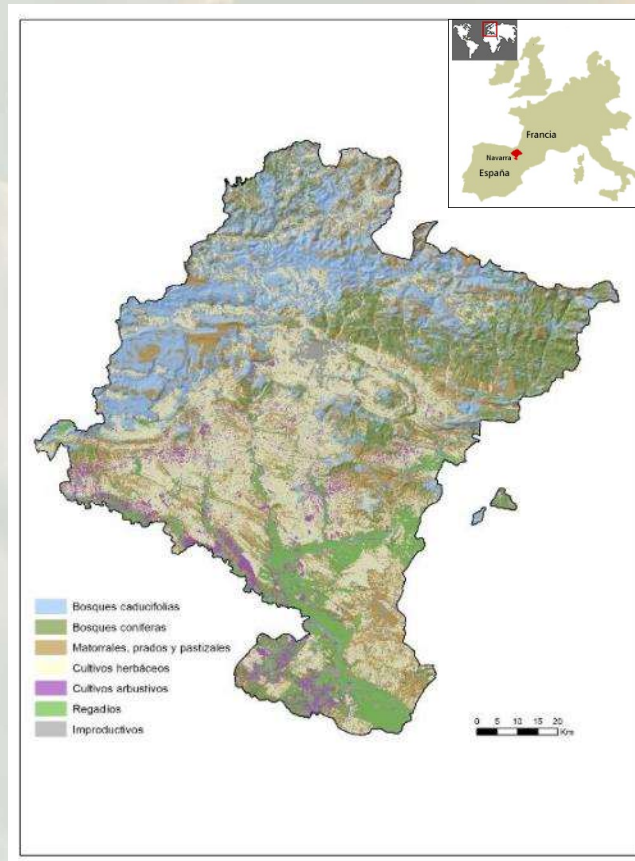


MAIN OBJECTIVE

Increase the resilience of the region of Navarra against Climate Change

OUR REGION

- Several climate conditions: oceanic, mountain and continental-mediterranean
- Confluence of 3 biogeographical areas
- Great biological diversity and landscape mosaic



NADAPTA THE CLIMA PROJECT

Gobierno
de Navarra



Nafarroako
Gobernua



LIFE
NADAPTA




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Actions

6

Focus areas

 CC MONITORING

 WATER

 FORESTRY

 AGRICULTURE & LIVESTOCK

 HEALTH

 INFRASTRUCTURES AND TERRITORIAL PLANNING



Duration 8 years:

2/10/2017 - 31/12/2025



COMPLEMENTARY ACTIONS → Climate Change Roadmap of Navarra to 2050 [KLINA]

HORIZONTAL ACTIONS: capacity building, dissemination, knowledge transfer, replication.

PROJECT MANAGEMENT

15,6 M€



9,3M€ EU





6,3M€ Gov. Navarra

6 BENEFICIARIES



Coordinated by the Government of Navarra:

-  Rural Development and Environment Department
-  Health Department (Institute of Public and Occupational Health)

4 Public companies:

GAN-NIK : water and forestry

NILSA: water and soil

INTIA: agriculture and livestock

NASUVINSA: monitoring, local action, infrastructures and territorial planning




UPNA: soil

CONTRIBUTION TO LOCAL AND REGIONAL SOLUTIONS

- c.1** - CC monitoring > CC Indicadores at territorial level, and local scale [municipalities]
- Local Action > Covenant of Mayors [197] and 18 SECAP [covering 154 municipalities]
- c.2** - Waste Water Treatment Plants [WWTP] > Early warning systems for river floods
- River floods emergency systems > 17 Local self protection plans for municipalities
- c.3** - Mapping of most vulnerable forest areas [forest fires].
- Including adaptive management measures in forestry management plans.

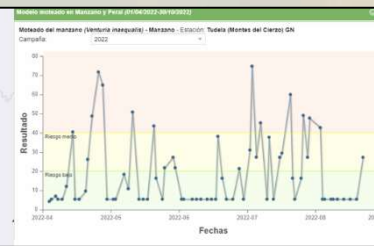
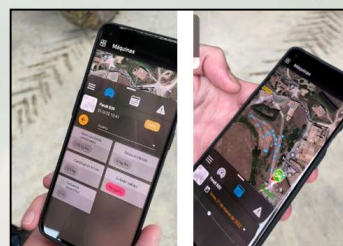


CONTRIBUTION TO LOCAL AND REGIONAL SOLUTIONS

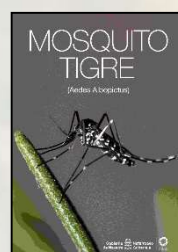
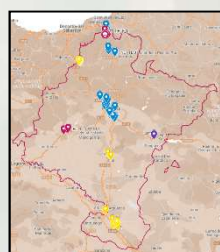
-  c.4
 - Vulnerable soil management, water irrigation systems, resiliente vegetative material, plagues alerts > mapping information (local level) and digital tools for farmers
 - Silvopastoralism > combination of extensive livestock and forest fires prevention (local level)
-  c.5
 - Heatwaves, polen warning systems > local authorities, municipalities, population
 - CC impact on workers health > direct support for private companies
-  c.6
 - Landscape climate variability study (regional level + maps)
 - Guide to urban planning, architecture and climate change (local agents & professionals)
 - Management platform for adapting public buildings to CC (regional & local)
 - Pilot projects for energy regeneration and adaptation in urban and rural areas
 - Local Energy Communities (1 in rural area, 1 in industrial area)

CONTRIBUTION TO LOCAL AND REGIONAL SOLUTIONS

C.4



C.5



C.6



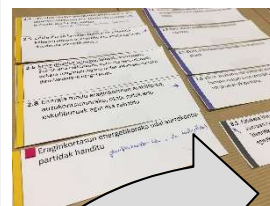
GOVERNANCE SYSTEM WITH REGIONAL AND LOCAL AGENTS

SINERGIES

HOW ?

Staff and € resources for direct support

- Meetings with local agents
- Information and trainings
- Networking: share experience > transfer > replicate

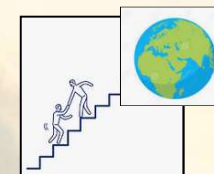
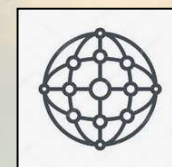
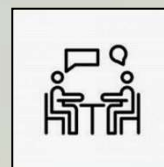
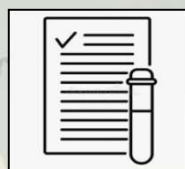


PROGRAMA	
Justicia social y Plan de Emergencia ante el riesgo de inundación del Ayuntamiento de Comillas	Casa de Cultura de COMILLAS
Fecha, hora y lugar	5 de noviembre de 2023 19:00h-20:30h
19:00h: Bienvenida y presentación de Comillas	Porcentaje: 100% (Presencia de Comillas)
19:10h: Bienvenida de los asistentes	Porcentaje: 100% (Presencia de Comillas)
19:15h: Presentación de NADAPTA, el proyecto de emergencia	Porcentaje: 100% (Presencia de Comillas)
19:20h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
19:30h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
19:40h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
19:50h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
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23:00h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
23:10h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
23:20h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
23:30h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
23:40h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
23:50h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)
24:00h: Presentación de los planes de emergencia de Comillas	Porcentaje: 100% (Presencia de Comillas)



LIFE NADAPTA

¿ INNOVATIVE ?



GLOBAL LEVEL / STRATEGIC LEVEL

- Bring together the different departments and agencies of the Government > integrated vision of climate change
- Increase the inclusion of climate change in sectoral policies.

LOCAL LEVEL / STAKEHOLDERS

- Always taking into account that we don't work alone. We need to work with local stakeholders.
- Achieve a good level of dissemination of results and news about the project and climate change.
- Promote networking at local, regional, national and international levels.
- The challenge is to develop a culture of climate change among professionals, local agents and citizens.

Thank you!

www.lifenadapta.eu

#LIFE_IP_NAdapta_CC

lifenadapta@navarra.es


[@LIFE_NAdapta_CC](https://twitter.com/LIFE_NAdapta_CC)

You Tube
Medio Ambiente Navarra
/ Ingurumena Nafarroa


[LIFENAdaptaCC](https://www.facebook.com/LIFENAdaptaCC)

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αλλάζουμε κλίμα

LIFE-IP AdaptInGR – Boosting
the implementation of adaptation
policy across Greece
LIFE17 IPC/GR/000006

LIFE-IP AdaptInGR – Boosting the implementation of adaptation policy across Greece

Eleni Karali, Environmental Scientist (PhD)
External collaborator of the Hellenic Ministry of Environment and Energy for the
LIFE-IP AdaptInGR project



Το έργο συγχρηματοδοτείται
από το Πρόγραμμα LIFE της
Ευρωπαϊκής Ένωσης



Το έργο
συγχρηματοδοτείται
από το Πράσινο Ταμείο



**C2C CC platform meeting
LIFE innovates Climate Action
8-9 November 2022**

Acronym

LIFE-IP AdaptInGR

Title

Boosting the implementation of adaptation policy across Greece

Project Number

LIFE17 IPC/GR/000006

Duration

2019-2026 (8 years)

Budget

€14,189,548.00

Funding sources

€8.3 mil. EU/ LIFE Programme

€2.5 mil. Green Fund

€3.1 mil. Own resources

€0.3 mil. Other funding sources

The project's consortium – key stakeholders from the three governance levels, the scientific community and the NGOs

National level

- Ministry of Environment and Energy
- Green Fund
- Natural Environment and Climate Change Agency

Regional level

- Union of Greek Regions
- Region of Central Greece
- Region of Western Greece
- Region of Ionian Islands

Local level

- The Central Union of Municipalities of Greece
- Municipality of Katerini
- Municipal Water Supply and Sewerage Company of Komotini
- Municipality of Larissa
- Municipality of Agioi Anargiri - Kamatero
- Municipality of Rhodes

Scientific community

- National Technical University of Athens
- Bank of Greece
- Academy of Athens
- National Observatory of Athens

NGOs

- ELLINIKI ETAIRIA – Society for the Environment and Cultural Heritage (ELLET)
- Mariolopoulos – Kanaginis Foundation



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The First Greek National Adaptation Strategy

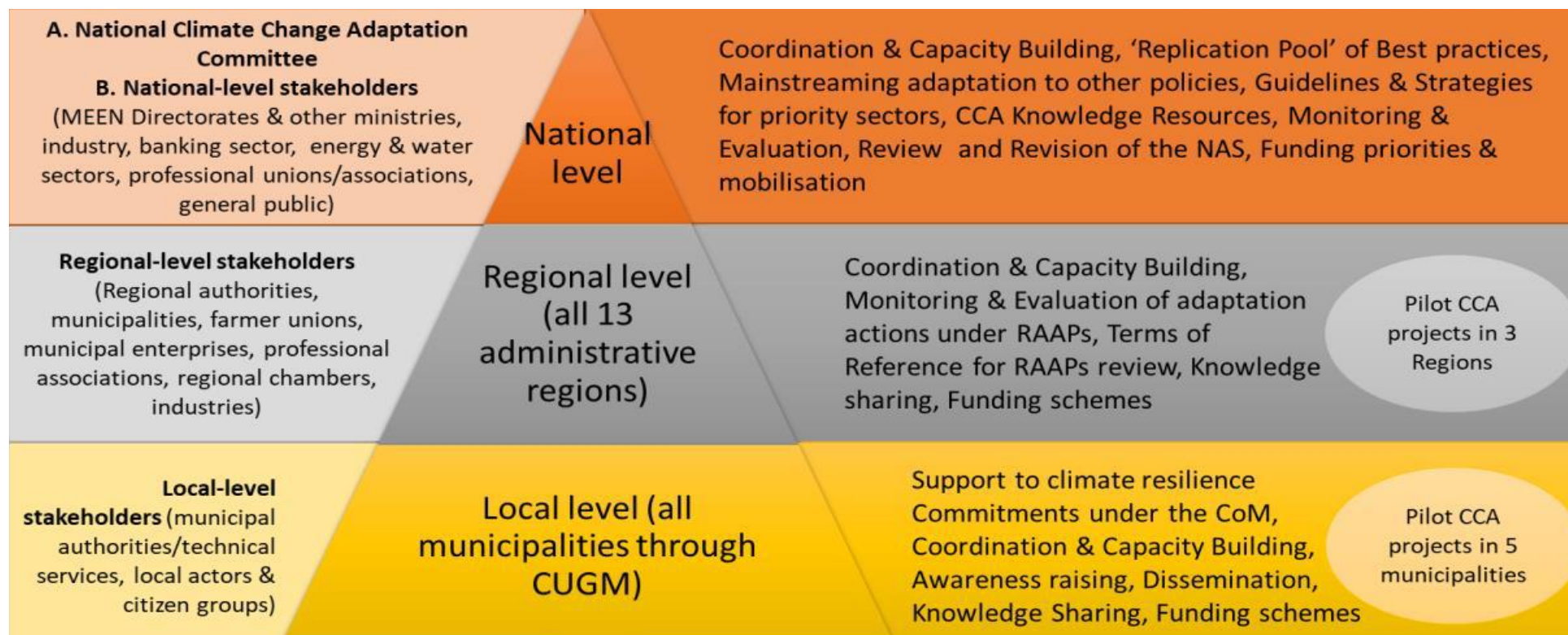
- It was adopted in 2016
- It covers 15 priority sectors
- It provides a list of provisional measures and actions for each priority sector
- It is implemented through 13 Regional Adaptation Action Plans (RAAPs)
 - Continuous dialogue between national and regional level
 - The RAAPs have been developed by the different Regions, involving key stakeholders via working groups as well as a public consultation process
 - The implementation of the RAAPs foresees the engagement of all key stakeholders

Five (5) main objectives

1. **To systematize and improve short- and long-term decision making for climate change adaptation.**
2. **To link climate change adaptation with a sustainable development model through Regional and Local Action Plans.**
3. **To promote actions and adaptation policies in all sectors and particularly the most vulnerable ones.**
4. To establish a monitoring mechanism for the evaluation and review of adaptation policies and actions.
5. **To strengthen the adaptive capacity of the Greek society through awareness and dissemination actions.**



Overview of the LIFE-IP AdaptInGR – Actions and target groups



OBJECTIVE 1

To systematize and improve short- and long-term decision making for climate change adaptation.

Capacity building, multilevel cooperation, identification of gaps and needs in support of adaptation action at different administration levels and across different sectors

- 13 regional 3-day capacity building workshops targeted, inter alia, on decision-makers and public servants
- Technical workshops - including a workshop for regional and local level authorities - for the presentation of the climate projection tool developed in the LIFE-IP AdaptInGR project and good practices for the use of the climate projections
- Peer-to-peer activities among the Municipalities and Regions of Greece to support knowledge exchange and the transfer and replication of the outputs of the LIFE-IP AdaptInGR project
- Analysis of the baseline situation regarding adaptation for the 15 sectors covered in the NAS, along with participatory e-workshops to identify key sectoral priorities for adaptation.



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OBJECTIVE 2

To link climate change adaptation with a sustainable development model through Regional and Local Action Plans

Promotion of adaptation action and synergies across different administration levels

Regional level

- Analysis of the 13 RAAPs in order to identify the main knowledge gaps, funding needs and other needs, which will facilitate the implementation of adaptation action and inform decision-making at national level.

Local level

- Provision of good practices: Elaboration of the SECAPs for three (3) Municipalities in Greece using climate projections
- Making climate data and climate projections publicly available in support of the elaboration of the SECAPs by other Municipalities in Greece



<https://www.eumayors.eu/>



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OBJECTIVE 3

To promote actions and adaptation policies in all sectors and particularly in the most vulnerable ones

Implementation, transfer and replication of good practices

- Twelve pilot projects and fourteen pilot studies in seven priority sectors
 - The design of the pilot projects takes into account the climate projections developed in the project and supports the implementation of Nature-based Solutions (NbS)



Flood risk
management
(3)



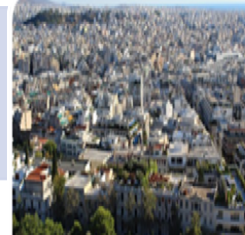
Coastal zone
management
(3)



Forest fire
protection
(1)



Water
management (3)



Urban / Built
environment
(2)



Landscape and
Land Uses
(9)



Cultural Heritage
(5)

- Transfer and replication of the pilot projects in other Regions and Municipalities in Greece



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OBJECTIVE 5

To strengthen the adaptive capacity of the Greek society through awareness and dissemination actions

Capacity building, stakeholders' engagement, identification of gaps and needs for different professional groups and in support of autonomous adaptation action

Students / Teachers

- Teaching guidelines and teachers' kit package
- 13 regional seminars for teachers
- Educational material "Youth adapt"
- Information campaign (>100 schools)
- Two school competitions
- Students' network for CCA - "Keepers of the planet"

Professionals

- 13 3-day regional capacity building workshops targeted, inter alia, on specific professional groups
- Technical workshops - including a workshop for consultants etc. - for the presentation of the climate projections tools developed in the LIFE-IP AdaptInGR project and good practices for the use of the climate projections.

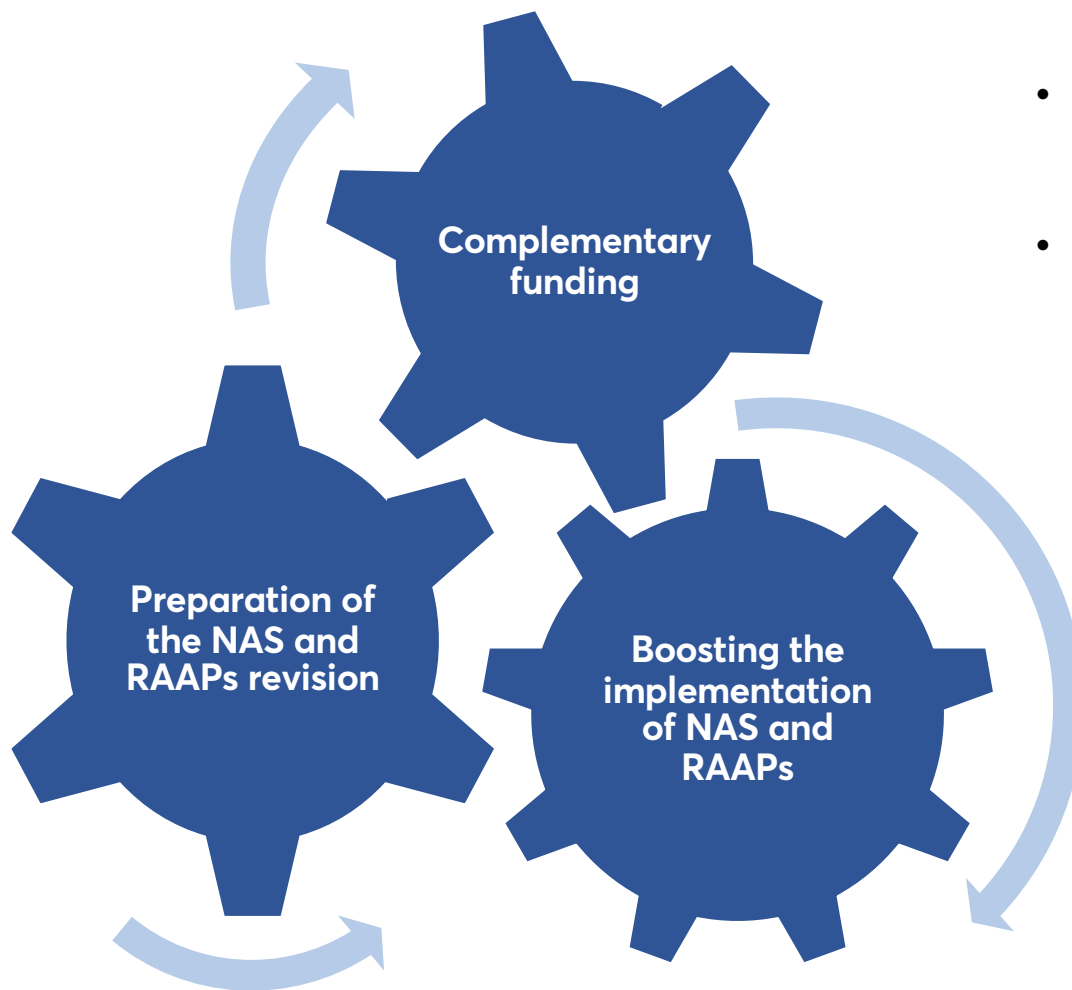
Citizens / General public

- 13 1-day regional 'Info-days'



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- Identification of possible funding gaps and opportunities
- Information of the stakeholders (also at regional and local level) who implement adaptation actions about the available funding sources



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Thank you for your attention.

Ministry of Environment & Energy
General Directorate of Environmental Policy
Climate Change & Air Quality Directorate
Climate Change Department
147 Patision Str., Athens, Greece
Tel.: 210.86.42.118

E-mail: ekarali8@gmail.com

Websites: www.ypeka.gr, <https://www.adaptivegreece.gr/el-gr/>



Με την υποστήριξη:



Welcome to the Environmental CAMPUS BIRKENFELD

Trier University
of Applied Sciences

H O C H
S C H U L E
T R I E R

Zero-Emission Campus: One of the greenest universities in the world!

Jacob Bußmann | Project manager at IfaS

IfaS | <https://www.stoffstrom.org/>

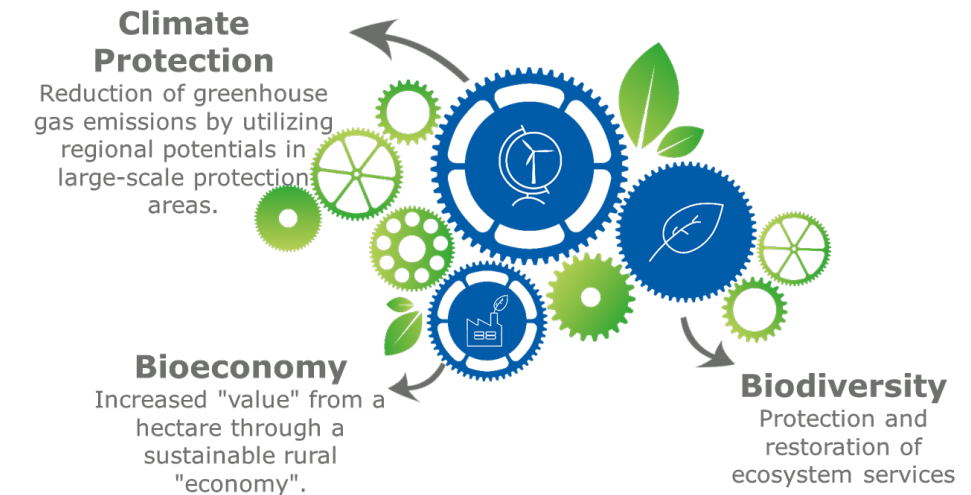




LIFE-IP ZENAPA – Zero Emission Nature Protection Areas (2016 – 2024, 2026)



- 11 Protected Areas (Germany + Lux) + 1 Model Municipality – total 16 project partners
- Project volume: 17 Mio. € (of which 8 Mio. € LIFE funding)
 - 4 co-financiers
- Project duration: 8 years (since December 2016) + 1 ½ years
- Project objectives:
 - Start a development process towards CO₂eq-neutral large protected areas
 - Aligning the energy transition with the various requirements of climate, nature and species protection
- Linking protected areas and the surrounding cultural landscape
- Development/application of new innovative approaches and synergies between climate protection and species conservation
- Development of regional strategies and cooperative implementation of measures



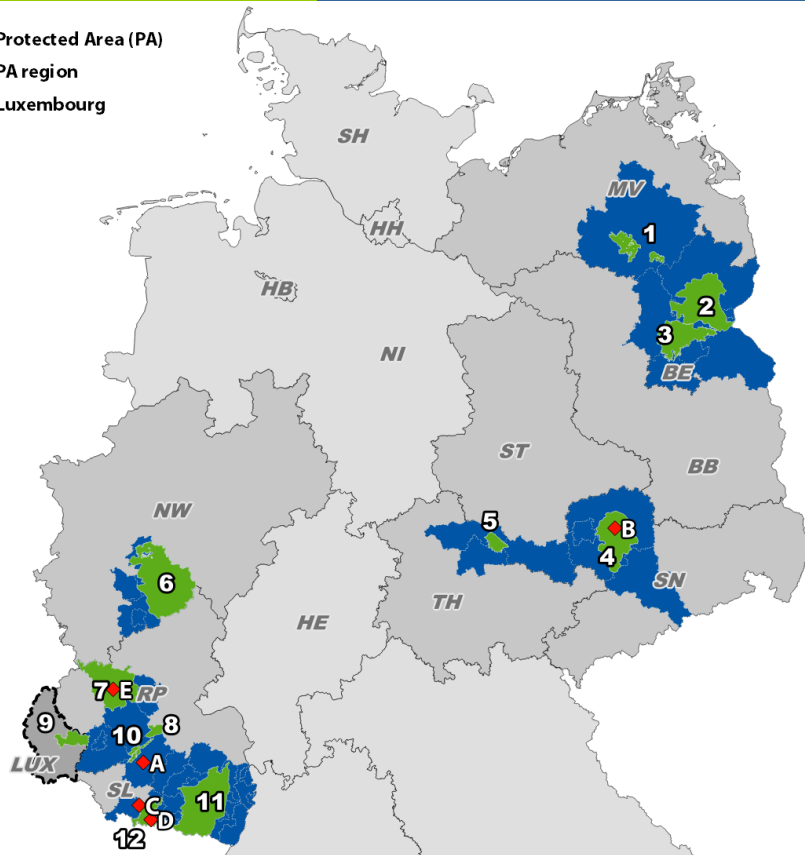
ZENAPA
Zero Emission Nature Protection Areas





Area & central building blocks for systemic innovations

- Protected Area (PA)
- PA region
- Luxembourg



A: IfaS/Hochschule Trier
B: Wurzen Land-Werke GmbH
C: Stadt St. Ingbert
D: Saarpfalz-Kreis
E: Landkreis Vulkaneifel

1: Müritz-Nationalpark
2: Biosphärenreservat Schorfheide-Chorin
3: Naturpark Barnim
4: Geopark Porphyryland

5: Naturschutzprojekt Hohe Schrecke
6: Naturpark Bergisches Land
7: UNESCO Geopark Vulkaneifel
8: Nationalpark-Verbandsgemeinde Herrstein-Rhaunen
9: Natur- & Geopark Mellerdall
10: Nationalpark Hunsrück-Hochwald
11: Biosphärenreservat Pfälzerwald
12: Biosphärenreservat Bliesgau

Communication & Dissemination

12 Climate protection master plans

- Saving and efficiency
- Power generation
- Climate and nature conservation
- Urban and spatial development
- Sustainable mobility
- Implementation management

Climate Change Managers (CCM)

Capacity Building

- Conferences
- Workshops and discussions
- Networks for climate protection

Financing & participation models

- Profiting from the energy transition

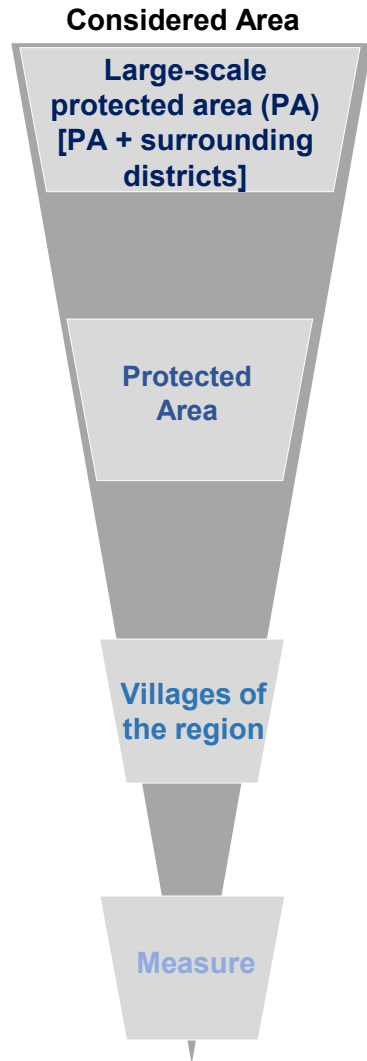
Climate protection concepts on village level

- Approx. 10 municipalities per protected area
- Analysis of potential of a municipality / district

Further project implementation measures including investment measures



Instruments for systemic innovation: Climate protection master plans



Master plan = first ever strategic consideration of large protected areas with the neighbouring municipalities regarding climate protection and biodiversity

■ **Objectives / contents:**

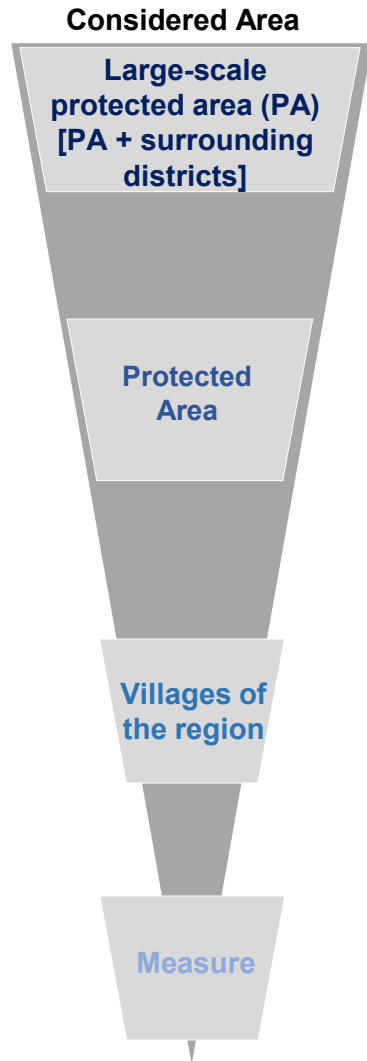
- Basis for strategic decision-making and planning for future climate protection efforts
- Technical & economic CO₂ reduction potentials and related measures
- Evaluation of potentials for (rural) bioeconomy and nature protection
- Consideration of all climate-relevant areas and sectors (own properties, street lighting, private households, trade, industry, mobility, wastewater, waste)
- Does not allow detailed consideration
- Dissemination through accompanying PR work

➤ **The decision on implementation forms the basis for the application for national funds, including a staff position for anchoring in regional policy**

- One for each Protected Area (PA) & One global
- Each master plan comprises approx. 150 pages, divided into 12 chapters
 - Additional catalogue of measures with approx. 70 measures



Instruments for systemic innovation: Climate protection concepts on village level



The concepts bring climate protection down to the smallest administrative units and involve stakeholders where they are most affected – at home

■ **Objectives / contents:**

- Initiating investment in climate protection
- Energy saving potentials & options for the use of renewable energies
- Options for climate change adaptation in the neighbourhood
- Statements on energy efficiency potentials and their realisation in the area of neighbourhood-related mobility
- Consideration of urban planning, monument preservation, building culture, nature conservation, housing, demographic and social aspects
- Green infrastructure in the neighbourhood and use of digital technologies

➤ **The decision on implementation is the basis for applying for national funding, including a staff position to accelerate implementation**

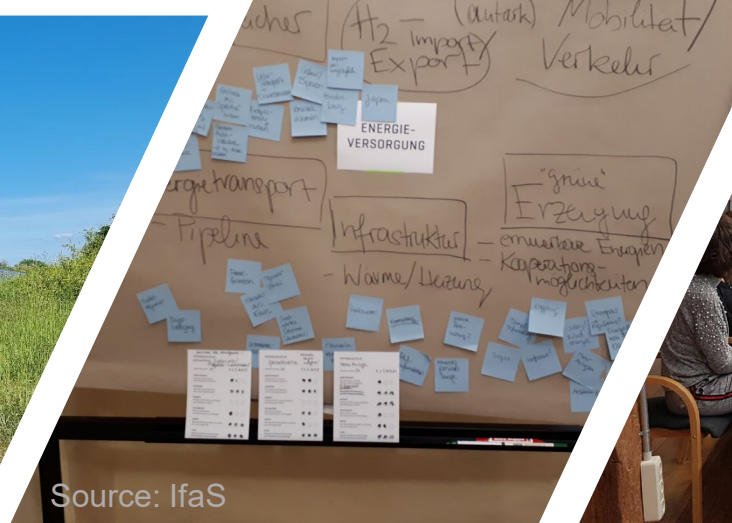
- In total over 90 concepts
- Each concept comprises approx. 100 pages, divided into 11 chapters
 - Additional 40 pages biodiversity concept



Source: IfaS



Source: IfaS



Source: IfaS



Source: ANE



Source: LfU



Leinen los: Die Grundschüler erleben dank Förderung durch Sponsoren kostenlose spannende Projekttag

Sorglos-Paket für Klir

Pilotprojekt Schüler aus Uckermark und Barnim forschen an F Solar Explorer auf dem Werbellinsee. Von Daniela Windloff

Raus aus der Schule, rauf aufs Boot – so machen Grundschulkinder fürs Klima mobil. Während der Sommerferien startete, nach den Grundschulen aus Barnim und Uckermark wurden dafür ausgewählt. Durch die finanzielle Förderung der Kreiswerke Barnim, der Firma AcoTec Angermünde sowie des Landkreises Uckermark e. V. als Träger des Solar Explorers, hat er den Klimaprojekttag für Grundschüler aus der Taufe gehoben, der nach den Sommerferien startete. Zehn Grundschulen aus Barnim und Uckermark wurden dafür ausgewählt. Durch die finanzielle Förderung der Kreiswerke Barnim, der Firma AcoTec Angermünde sowie des Landkreises Uckermark e. V. als Träger des Solar Explorers, hat er den Klimaprojekttag für Grundschüler aus der Taufe gehoben, der nach den Sommerferien startete.

Manchmal, che Aufwand gramme für zunächst len aus d gewähl für auf ben. roj m

Source: IfaS



Source: Uckermark Anzeiger der MOZ vom 28. August 2019





Systemic innovation: research, industry, government and public interacting together – examples



Source: IfaS

Cultivation diversity Biogas plants

Nature- and Geopark Vulkaneifel

- Climate mitigation, adaptation and biodiversity protection
- 11 hectares of cup plant (*Silphium perfoliatum*) as an energy crop instead of maize
- Increase of biodiversity and erosion control



Source: IfaS

Cavitation plant

Nature- and Geopark Vulkaneifel

- The purpose of a cavitation plant / unit is to break down the raw material of a biogas plant
- Input of further biomass types with more fibres become feasible
- Can be connected to existing biogas plants
- An increase in gas yield of 12 to 15 % was recorded



Source: Bezirksverband Pfalz

Ecological thermal insulation

Bezirksverband Pfalz

- Hemp insulation of around 250 m²
- Integration of over 70 nesting boxes for swallows
- 30 kWp PV system financed via a citizen cooperative



Source: Energiepark Möllerdall

Energy Park Möllerdall

- Citizens energy cooperative in Nature & Geopark Möllerdall
- Implementation and development of renewable energy production projects
- Promotion of citizen participation in the energy transition
- Already seven PV systems with 373,39 KWp installed
- Over 430.000 € invested



Systemic innovation within and through ZENAPA

- Essential is **capacity building** among **all stakeholder groups**
 - Master plans as a central instrument for systemic innovation on project area level
 - Climate protection concepts on village level bring the systemic innovation into the villages and thereby to the people
 - Introduction of measures at different levels (from green procurement guidelines to innovative technologies) improves the public understanding of the synergies and topics
- **Public institutions** have a **model role for the economy as well as for private citizens**
 - Public institutions become **catalysts** for climate protection and biodiversity protection
- Four key elements are crucial in order to achieve a **systemic transition**:
 - Good **local/regional governance** – commitment to climate protection
 - Dedicated **staff positions** – able to focus on the topics of climate change mitigation
 - **Capacity building** – independent information transfer
 - **Favourable market situation** – high prices for fossil energies, CO₂eq, and/or good incentives



Thank you for your attention!



Environmental Campus Birkenfeld – the greenest university in Germany / 6th worldwide*

* GreenMetric-Ranking 2020

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Birkenfeld
Institute for Applied material Flow Management – IfaS
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Web site: www.stoffstrom.org

SUPPORTING STRATEGIC PLANNING RESIDENTIAL BUILDING RENOVATIONS



LIFE IP CA 2016 BE-REEL!

LIFE INNOVATES CLIMATE ACTION

8TH NOVEMBER 2022





LIFE IP CA 2016 BE-REEL!



Eddy Deruwe – Coordinator BE REEL!

- Life IP project BE REEL! **supports an increase of renovation rate** in the Flemish and Walloon Regions
- Supports **long-term renovation strategies** (LTRS) in all Belgian regions
- The project runs from **2018 to 2024**
- It's an **Integrated EU Life Project**, call 2016



LTRS - Long Term Renovation Strategy

- LTRS requires long-term thinking (> 2050) setup in EU policy framework
- Reduce CO2-emissions with 88 – 91% to 2050 (comp 1990)
- All homes to meet EPC label A by 2050 (<100 kWh/m2)
- Renovation rate of ≈1% now, to >3%

In Belgium

- 5,6 milj dwellings
- 5,6% complies (313 000 units)
- 150 k buildings/year to label “A”
- Only 20% of works complies now
- >200 billion € investment needed

Measures related to LTRS

>Obligations and standards

>Quality information & advice

>Financing Mechanisms & incentives

>Tax measures

>Financing with Loans

>Coaching initiatives

>Communication >Energy poverty

2021

2040



With the contribution
of the LIFE Financial
Instrument of the
European Union

Creating Impact with LTRS – Supporting actions



LTRS
Long Term
Renovation Strategy

Policy

New policy instruments (tools)
New business models
Demonstration projects
Best Practice
Capacity building

Innovation

Demand

Local Renovation Strategy

Supply

Policy

Regional Support policy

One-Stop-Shop + Grants + Loans

- **Housing Passport**
- **Roadmap + Quicksan**
- **One Stop Shop concept for advice, coaching and financing (19 info centres)**
- **Specific target group approach (low income)**
- **Information and awareness campaigns**
- **Support Local Strategy 2050 (L-LRST) covering ALL Flemish municipalities**

Getting citizens on board with regional policy



With the contribution
of the LIFE Financial
instrument of the
European Union

LIFE IP CA 2016 BE-REEL!

Demand

Testing pilot and demonstration actions

I. Pilot actions

- Developing step-by-step guidelines
- Measures: management, technical and financing practices
- Sector: apartments, promotional projects, rental sector, One-Stop-Shop approach and collective renovations.

III. Renovation advice network

- Method Energy advising network (19 energy houses + other local advice)
- Collective approach

II. Demonstration actions

- Collective renovation facilitation
- Apartment building facilitation
- Renewable energy projects
- Community driven projects
- Vulnerable people projects

Planned tot: 7840 units
> 336 milj euro investments

Integrating into local action by local authorities



With the contribution
of the LIFE Financial
Instrument of the
European Union

Supply

Support policy – **Construction sector** Sufficient supplying quality work

Building sector in Belgium 260 000 direct jobs & 30k vacant jobs

Increased activities Renovation works (+5% a year)

Three possible bottlenecks:

- **quantitative deficit**
- **qualitative deficiency**
- **specific working conditions**

III. Support for construction sector

- **Support for the construction sector related to strategy 2050**
- **Reaching building professionals by courses**

**More structural action needed
(Education, Technology development,
collective approaches...)**



With the contribution
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European Union

LIFE IP CA 2016 BE-REEL!

Is Key

INTEGRATING & UPSCALING

- **ROADMAP for LOCAL RENOVATION STRATEGY to goals 2050**
- **Implementing “new” policies and “tested” Best Practices**
- **Sectoral approach with “Guidelines”, based upon Customer Journey**
- Dissemination best practices **to ALL local authorities**
- Engage stakeholder collaboration => **Support Demand and Supply**
- Training and **capacity building** for both local authorities and building sector
- Not only energy performance, but on **sustainable homes and living**
- Plug-in sustainability - **climat neutral 2050 goals** (citizen involvement, sustainable goals, circular economy)



Eddy DERUWE
Coördinator BE Reel!
Flemish Energy and Climate Agency
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LIFE IP 2016 BE REEL!
T +32 (0)2 553 15 98
eddy.deruwe@vlaanderen.be

Thank you!

The LIFE BE REEL! website: www.be-reel.be

The LIFE website: www.ec.europa.eu/life

Contact for the BE REEL! coordination team:

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LIFE IP CA 2016 BE-REEL!

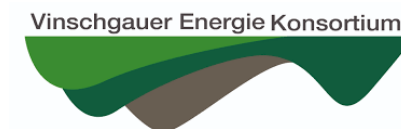
With the contribution of the LIFE financial
instrument of the European Union

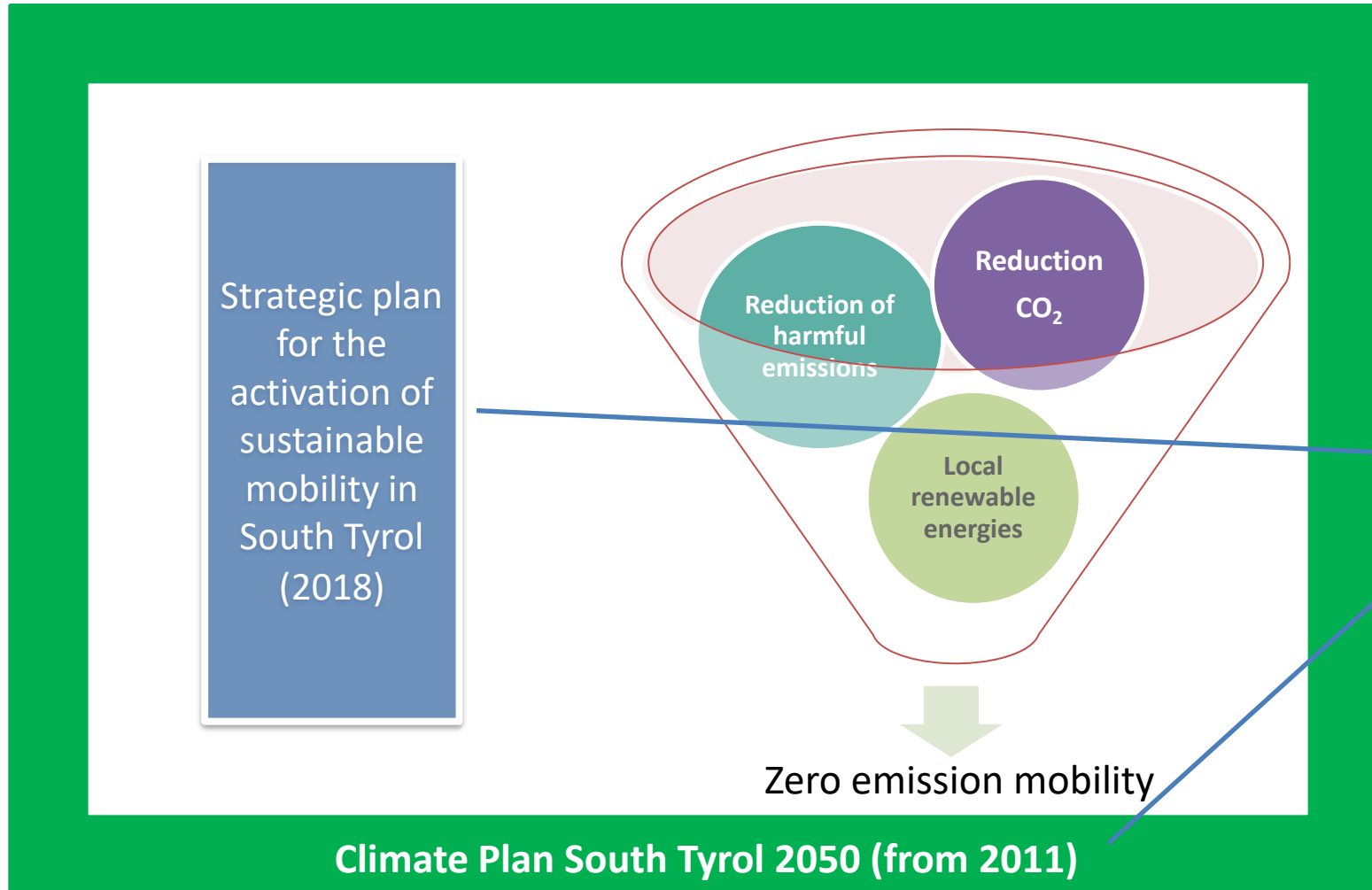


- Start date: 01/01/2019
- End date: 31/12/2026



Autostrada del Brennero S.p.A.
Brennerautobahn A.G.





AUTONOME PROVINZ
BOZEN - SÜDTIROL



PROVINCIA AUTONOMA
DI BOLZANO - ALTO ADIGE

PROVINCIA AUTONOMA DE BULSAN - SÜDTIROL

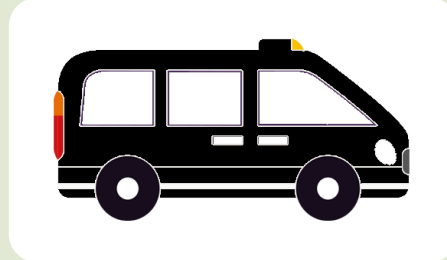


Presented 2022



Infrastructures:

- Fast charging stations
- H2 filling stations
- H2 production



Pilot fleets of different vehicle categories



Emission-free services:

- Logistics
- Tourism
- Public transport

Supporting measures

Cross marketing, project reproduction, monitoring, creation of non-monetary incentives, etc.

Establish connection
between tourism and
zero emission
mobility

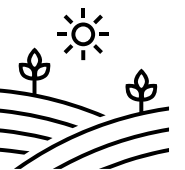
Encourage an “alliance”
between local supplier
and guest

Shared values

Both their
decisions and actions
are a conscious step
towards a long lasting
new way of doing
holidays

RETHINK tourism

Resonance tourism,
based on relationships,
experiences, quality



Zero emission mobility

and

traffic shift



Regional Level

**Decision n.
611/2022**



**Dialogue regarding
PNRR projects**

National Level

**Visits from highranking
officials**

**Participation
“Safety Round Table”**

**Dialogue regarding
PNRR & IPCEI projects**

Grid charges

**SEU (User Efficiency
Systems)**

European Level

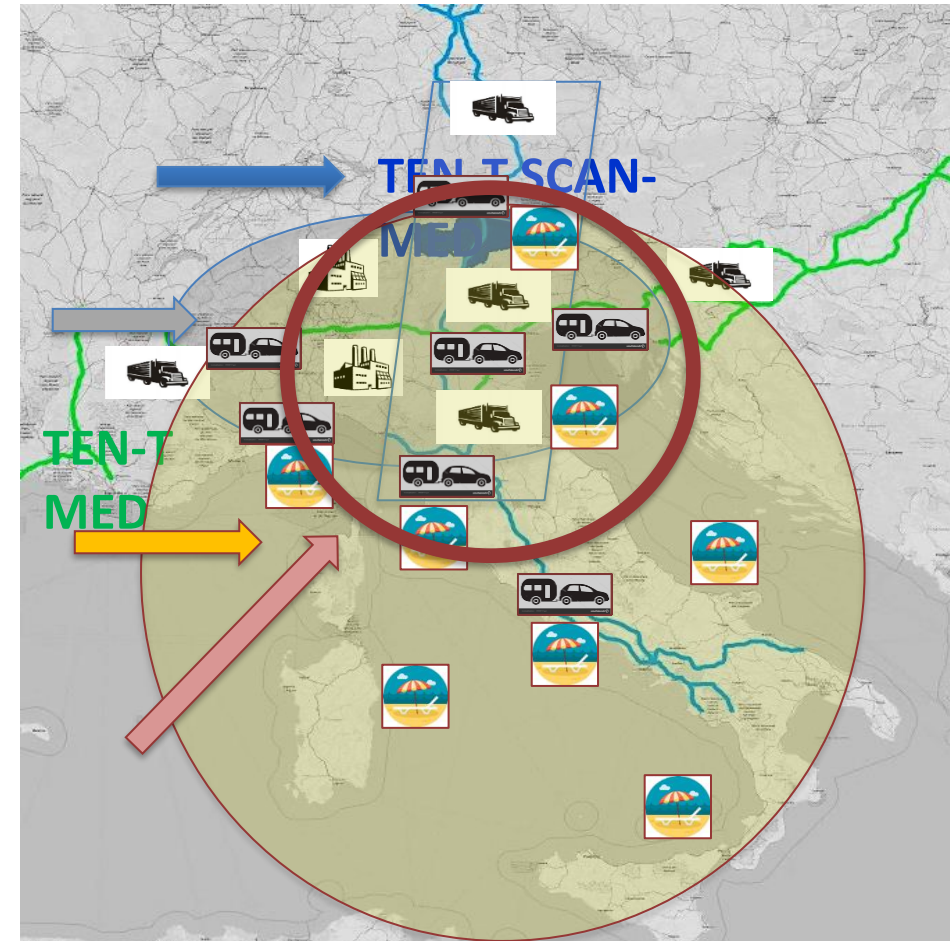
**Feedback
regarding RED III**

**European Clean
Hydrogen Alliance**

**Consultancy for
Brussels Lawyer**

Scaling up...

Brenner Green Corridor







LIFE Platform Meeting

“LIFE innovates Climate Action”

November 8 – 9 2022

