

# Yearly Activity report

## 2022/2023

Connecting Pilot initiatives to Decision Makers...



Boosting Sustainable Development!

**Pilot4dev celebrates its 5<sup>th</sup> year anniversary**

29/04/2023

More information is available on [www.pilot4dev.com](http://www.pilot4dev.com)

Pilot4dev receives co-funding from the European Union



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## I. About us

**PILOT4DEV** is an independent NGO/Think Tank which connects global stakeholders with pilot development initiatives in the areas of Climate, Cities, Governance, Conflicts/Stability, Gender Equality, the Environment and more generally the implementation of SDGs.

It gathers enthusiastic personalities, active organizations and pioneering initiatives.

The objectives of the organization are:

- To promote sustainable development, climate adaptation, security and S.D.Gs
- To combine research and action, and exchanges across countries.
- To propose a diversity of narratives and promote exemplary initiatives
- To strengthen existing actions and propose cooperation projects
- To connect stakeholders, build up cooperation, and stimulate knowledge
- To work on advocacy and decision-making

**Our values** are Independence, Sustainability and Positive impact.

**PILOT4DEV activities connect civil society, academic, and pioneer initiatives with decision-makers.**

### We organize:

- Events, workshops and conferences
- Interactive panels of experts
- Knowledge Exchange
- Field and study visits
- Training, capacity building

### We support:

- Dissemination of research
- CSOs and Development initiatives in several countries
- Visibility of pioneering initiatives
- Joint projects and partners' search

### We draft:

- Reports
- Analysis, Publications
- Dossiers, Collective Books

### We promote:

- Initiatives and Exchange
- Diversity of views
- Sustainability and Impacts

## II. Who's who: Presentation of the board and team

### The team in Brussels

**Pascaline Gaborit**, Ph.D. Director/Founder. Pascaline has more than 20 years of experience in working on governance, support to civil society, climate, cities, the environment, gender issues, and dialogue. She is the author of several books. She is the founder of the organization and sits on the board. She is working full time for the organization.

Emmanuel Rivera has left Pilot4DEV in September 2021.

**Zoé Thouvenot** has continued working as a free lance worker until the end of January 2023. She now has decided to start new activities.

**A recruitment is needed** for an intern/consultant specialized in Communication/social media.

### Our President and Vice President

- **Isabelle Milbert** is honorary Professor at the Graduate Institute of International and Development Studies in Geneva. She is an expert on India. She is also president of the Genevese Federation of International cooperation (Exchange and Knowledge). She is the President of the organization.
- **Elise Féron**, is professor at the Peace and Conflict Studies, TAPRI (Tampere Peace and Research Institute), Finland. She is a recognized researcher and expert and is also the vice president of Pilot4dev.

### Steering Board

- **Jeffrey Raven**, FAIA, LEED AP BD+C Director, Graduate Program in Urban + Regional Design | Associate Professor New York Institute of Technology (NYIT-Manhattan)
- **Youssef Diab**: Professor and Director for research at the Ecole des Ingénieurs de la ville de Paris (Gustave Eiffel University).

### Advisory and Orientation Committee

- **Evelyne Huytebroeck**, Former Minister for the Brussels Environment, Member of the Brussels Parliament, Member of the European Green Party Committee, Municipal Councilor.
- **Françoise Bonnet**, Secretary General at ACR+
- **Jennifer Vasta**, founder and owner of PIKA Foundation for Education.
- **Jan Kragt**, Founder and Owner of "Innovative Ideas" foundation.

### III. Pilot4Dev's current projects and involvement

#### PROJECT CRIC: Climate Resilient and Inclusive Cities Indonesia



This project is co-funded by EuropeAid.



*The project started on January 1<sup>st</sup> 2020. The Kick-off event was organized in Jakarta at the end of January. More info and videos: <https://www.pilot4dev.com/news>*

*The website: [www.resilient-cities.com](http://www.resilient-cities.com)*

Programme: Local Authorities: Partnerships for Sustainable Cities BGUE-B2018-21.020802-C1-DEVCO.

Reference: EuropeAid/16116/DH/ACT/MULTI.

Lead Partner: UCLG ASPAC Asia.

Partners: ACR+ the cities association for the use of sustainable resources, ECOLISE the association of grassroot movements for the environment, UPEM University of East Paris (renamed the University of Gustave Eiffel), and Pilot4dev

The overall objective of the project is to propose a long lasting and unique cooperation between cities and research centres in Europe and in Indonesia (and beyond), and to contribute substantially to sustainable integrated urban development, good governance, and climate adaptation/mitigation through long lasting partnerships, and tools such as sustainable local action plans, early warning tools and experts' panels. The specific objectives are:

**-To strengthen good governance:** continued promotion of good governance, and the necessary policy and legal frameworks to implement urban policies.

**-The sustainable use of resources by cities:** climate mitigation and adaptation can be achieved by a better understanding of local resources, and the empowerment of the population to develop a local circular economy.

**-Social cohesiveness or inclusive cities:** the project will pay a special attention to the question of informal settlements, rural migrants and marginalization.

**-Resilience and actions for the environment:** the project will support the transition to more resource efficient systems of production and consumption. It will develop early warning systems for the selected cities, an analysis of the main sources of pollution and develop unique innovative approaches.

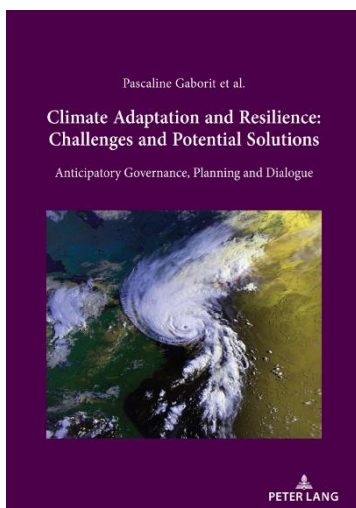
**-Prosperity and innovation in cities:** will be addressed with questions of innovation, culture, design, and the identification of sustainable financing mechanisms. **The promotion of triangular cooperation:** will be developed with knowledge exchange and joint trainings among countries from the South (Indonesia, India, Malaysia, Nepal, Cambodia), and promote **the use/transfer of smart technologies.**

Pilot4dev is in charge of the coordination with the European partners, part of the communication, visibility, the website, the training on urban sustainable development, the tool on air pollution and part of the research (expert reports).

- Coordination and management with the European partners

Pilot4dev has supported the coordination with the partners

- Publication



The book 'Climate Adaptation and Resilience' has been released in September 2022. It is available for purchase [online](#), and it has been shipped to the authors and the partners. The first chapter is available in open access through the Journal Climate Disaster Risk Climate Adaptation to Multi-Hazard Climate-Related Risks in Ten Indonesian Cities: Ambitions and Challenges, 2022, in *Climate Disaster Risk*, 2022 Vol 37, 100453 <https://doi.org/10.1016/j.crm.2022.100453> [here](#)

A second article is also available here from the Journal Peace Building and Development: [12/12/2022: Resilience and Climate Disaster Management in Cities: Transformative Change and Conflicts](#)



## CLIMATE ADAPTATION AND RESILIENCE: CHALLENGES AND POTENTIAL SOLUTIONS

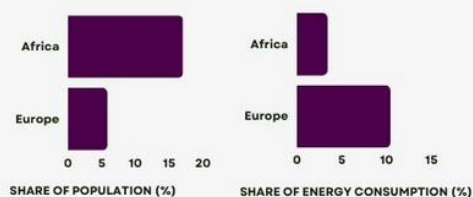
### Anticipatory Governance, Planning and Dialogue

Pascaline Gaborit et al.

#### ■ WHY THIS BOOK?

Climate change is one of the **major systemic threats of our time**. The last years have been marked by extreme climate events : heat waves, droughts, desertification, forests' fires, floods as well as cyclones, hurricanes and many other environmental disasters.

The IPCC (2022) estimates that 3,3 to 3.6 billion people worldwide are highly vulnerable to climate change in 2022.

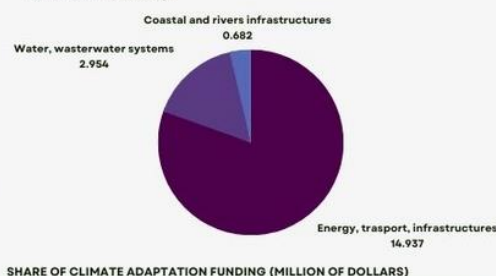


There are different **risks and vulnerabilities** depending on the World regions, which means that there are as much variety of **challenges and potential solutions**.

For example, the African continent is representing 17% of the global population, but only 3,4% of the global energy consumption; while the European continent is representing 5.8% of the global population for 10.4% of the global energy consumption (Africa - Europe Fondation, 2022).

There are also disparities between sectors - for example, in 2019, different sector did not receive the same amount of financial support from Multilateral Development Banks (MDBs) to fund climate adaptation. This disparity is shown in the following graph based on Tall et al (2021) numbers.

As climate change is a **worldwide issue** having **multidimensional aspects**, this book has chosen a **multidisciplinary and multiscale approach** to think about the challenges faced and the potential solutions to bring to the table.



43 %  
OF WORLDWIDE POPULATION IS HIGHLY VULNERABLE TO CLIMATE CHANGE

#### ■ Learn more

Check at the full publication for more information on the research results!

'The aim of this book is to develop different angles of approach, multidisciplinary expertise, multi scale analysis and food for thought on the systemic risks; inter-dependencies and possible solutions for climate adaptation and mitigation from the global level to the local level with considerations and frameworks for cities, civil society and governments.'

The publication brings together 18 contributors with various background and expertise. The objective is to develop knowledge (Pillar 1 of the CRIC Project) and analyze the current situation in relation to climate change, adaptation, resilience, and potential conflicts or tensions. It looks at how problems are interconnected at different scales and across disciplines, as well as possible solutions for reducing vulnerabilities and reducing tensions.

In the afterward of its publication, an article has been written and published on Pilot4DEV's and the CRIC's websites on the book genesis, its writing process and its key takeovers. It is available [online](#).

*"The genesis, writing process and key takeovers of the book*

The publication's genesis:

The publication has been funded in the framework of the Climate Resilient and Inclusive Cities (CRIC) project, of which Pilot4DEV is partner.

The CRIC project is a collaboration between UCLG ASPAC, Pilot4DEV, ACR+, ECOLISE, AIIISG and Gustave Eiffel University (Paris, France). The project was born in 2020 and has been funded by the European Union and led by USCLG ASPAC.

It is aiming at promoting sustainable urban development, good governance and climate mitigation and adaptation. To reach its objectives, the project is working on 10 Indonesian cities (Banjarmasin, Bandar Lampung, Cirebon, Gorontalo, Kupang, Mataram, Pangkalpinang, Pekanbaru, Samarinda, Ternate) using various vectors:

1. The development and implementation of tools (Early Warning Systems, use of resources, water and sanitation, climate and energy transition),
2. A multi-stakeholder cooperation.
3. A dialogue between local governments and communities and researchers.

With an urban growth averaging 4,4% annually, Indonesia experiences the highest rate of urbanization in Asia (higher than in India and China). It is predicted that 68% of the population will live in cities in the next ten years. Urban population densities exceed 15,000 habitants/km<sup>2</sup> in cities like Jakarta and more than 30,000 habs/km<sup>2</sup> in some inner-city areas. Countries like Vietnam (36% of urban population) and the Philippines (45%) concentrate large urban areas, with fast growing centres. Urban areas host most of the vulnerable populations, as well as vital and social infrastructure, and local governments have increased pressure to develop services, infrastructure, employment (U.N. Habitat).

The overall objective of the project is to propose a long lasting and unique cooperation between cities and research centres in Europe, Indonesia and other countries from Southeast Asia, and to contribute substantially to sustainable integrated urban development, good governance, and climate adaptation and mitigation through long lasting partnerships, and tools such as sustainable local action plans, early warning tools and experts' panels.

So far, the project has produced urban analysis reports and policy briefs for each of the 10 pilot cities. These reports helped at the conception of tools, and their conclusions led to an important work of capitalization. Different priorities and stakes have been identified depending on various physical, political and socio-economic parameters proper to each city.

Essentially, key strategies to implement an efficient urban resilience relate to:

- An essential multi-stakeholder's cooperation
- The integration of multi-risks analyses
- A work with local communities to answer their needs properly.
- The need for an adaptative design



- A work with smart technologies on Early Warning Systems (EWS)
- The questions of financing and accountability are essential (the role of cities and complex governance systems).

This work has been correlated with broader observations on the threat of climate change on natural ecosystems and human societies as stated in the last IPCC report (2022) – 3.3 to 3.6 billion people live in contexts that are highly vulnerable to climate change (typhoons, floods, sea level rises, extended dry, disruptions in ecosystems and water resources, unrest and conflicts...). It appears that coastal areas, like most of Indonesia, are already particularly affected by climate change, but the threat is global and systemic.

*"In these conditions, the situation includes coping with a range of interrelated natural and human-made hazards: conflicts and violence, displacement, natural disasters, minorities, environmental degradation, shrinking natural resources, increased health threats, poverty, inequalities, social tensions, number of refugees and post-conflict fragility."*<sup>1</sup> The question of funding climate adaptation and mitigation has to be raised to tackle these tremendous consequences.

This book is an attempt to think solutions with a necessary a multi-scale and multi-disciplinary approach - it looks at how problems are interconnected at different scales and across disciplines, as well as possible solutions for reducing vulnerabilities and reducing tensions. It is a capitalization on a broad range of literature on climate change, climate adaptation, climate mitigation and resilience as well as the results of a specific and detailed work on Indonesian cities in the framework of the CRIC project.

### The writing and publication processes, step by step:

The publication brings together 18 contributors with various background and expertise. The objective is to develop knowledge (Pillar 1 of the CRIC Project) and analyse the current situation in relation to climate change, adaptation, resilience, and potential conflicts or tensions. It has been released in September 2022 and is now available for purchase online. This is the result of a dense year of work.

In June 2021, Pilot4DEV had launched a call for a collective publication. Contributions (abstracts) could be sent until the end of September 2021. The contributions could cover a wide geographical coverage in Europe and in Asia. And as the book was thought to have an interdisciplinary background, focuses could be on climate adaptation, resilience, environmental management, but also sociology, economy and governance. A multi-scale approach was already encouraged.

In early October 2021, the editors panel coordinated by Pilot4DEV, had reviewed and selected the abstracts. In December 2021, it has been decided that a first draft of the chapters would be expected by the 15th of January 2022 which the authors agreed on, they provided feedbacks on their progress and took the time they needed to finalize their chapters.

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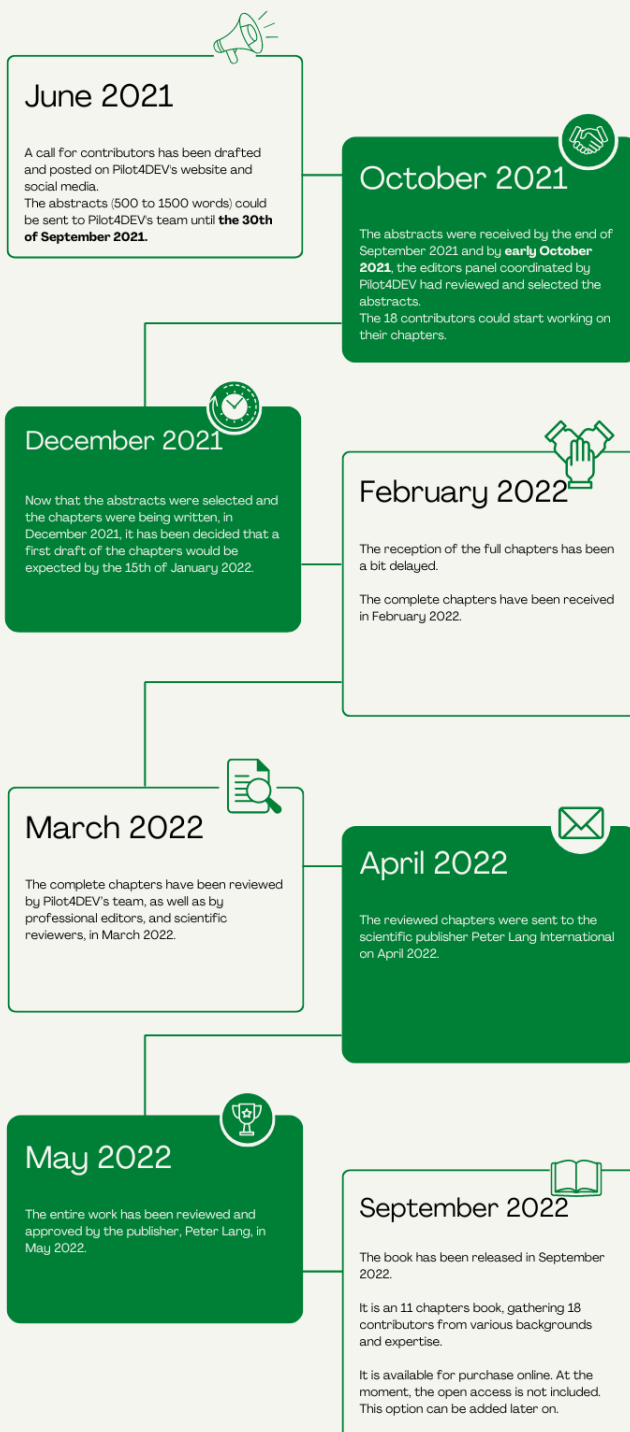
<sup>1</sup> Pascaline Gaborit et al. (2022), Climate Adaptation and Resilience : Challenges and Potential Solutions, Anticipatory Governance, Planning and Dialogue, p.21

The complete chapters have been received in February 2022. They have been reviewed by Pilot4DEV's team, as well as by professional editors, and scientific reviewers, in March 2022. They were sent and approved by the scientific publisher Peter Lang International on April 2022, which led to the release of the book in September 2022.

A detailed timeline of the writing, editing and publication process is available below.

# 'Climate Adaptation and Resilience: Challenges and Potential Solutions'

## Writing, editing and publication processes



## Key takeovers:

The conclusions of this extended work relate to:

- The primary importance of local level thinking and action. The city level is of particular interest for its possibilities of action and its ability to capture local demands, needs and opportunities for changes.
- This first point is coupled with a need of strong community networks to implement climate adaptation actions. These trust networks are based on interpersonal relations with a strong emphasis on ties. They are essential in a complementary and collaborative work with institutions in charge. Cooperation, social networks and trust are fundamental to realize the necessary efforts.
- Consistent global policies, funding, accountability and political will are also needed. This is about monitoring and sustainability; climate change is a long-lasting issue needing strong and persistent efforts. Consistency is needed.

The book has been thought for researchers, students, practitioners, decision-makers, professionals of the field... But it is available for anyone who might want to seize it, go through its various chapters and learn from very diverse expertise!

*'Urgent action is needed'<sup>2</sup>*

The book has been presented to a broader audience during a book launch event at the Brussels Press Club Europe on **Friday 9<sup>th</sup> of December 2022**. This book launch has been the object of a communication on Pilot4DEV's social media and [website](#). From December 2022, Pilot4DEV has recorded and published a series of videos on its activities and among them, the CRIC project and the publication. This specific video has been recorded on the 9<sup>th</sup> of December and published on the 19<sup>th</sup> of December on Pilot4DEV's Facebook and Twitter, it has been published on the 12<sup>th</sup> of December on LinkedIn. It is available at the following [link](#).

## Other scientific articles published

[Resilience and Climate Disaster Management in Cities: Transformative Change and Conflicts](#), Journal of Peacebuilding & Development, special issue, Nov. 2022, DOI 10.1177/15423166221128793

Climate Adaptation to Multi-Hazard Climate-Related Risks in Ten Indonesian Cities: Ambitions and Challenges, 2022, in *Climate Disaster Risk*, 2022 Vol 37, 100453 <https://doi.org/10.1016/j.crm.2022.100453>

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<sup>2</sup> Pascaline Gaborit et al. (2022), Climate Adaptation and Resilience : Challenges and Potential Solutions, Anticipatory Governance, Planning and Dialogue, p.351

## Policy Briefs

Pilot4DEV's team had also drafted earlier this year a policy brief on plastic trade, notably in Southeast Asia. It has been published on the CRIC website in **January 2022**. It states that plastic, as a material, can be harmful to ecosystems as well as human health. The management and treatment of plastic waste are complex processes - when plastic waste is not efficiently treated on site, it tends to be exported, which greatly impacts local environments and communities of receiving countries. The policy brief explores the impacts of plastic waste exports in Southeast Asia and the solutions that can be (or should be) implemented to tackle them.

It is available at the following [link](#).



On the 9<sup>th</sup> of May 2022, another policy brief has been published: 'The extinction of bees threatening food security and how cities can contribute'. It states that bees are widely threatened even if they are essential to wildlife as well as human societies. This work is explaining how cities can contribute to restore bees' habitat in Europe, study cases and examples are given from Belgium, France, Germany, Portugal, Scotland, Spain and the United Kingdom. It concludes that there is an increased awareness on this issue, as well as a lot of innovative solutions to tackle many stressors' impacts, but strong actions must be taken.

It is available at the following [link](#)



Additionally, Pilot4DEV has participated to the Asia-Pacific Forum on Sustainable Development (APFSD) side event organized by UCLG ASPAC and the Ministry of National Development Planning/BAPPENAS on **28<sup>th</sup> of March 2022**. The event was entitled "Means to Reach the Climate and SDGs Ambition: Financing Options, Research, and Technologies to Advancing Local Governments in Turning Commitments into Reality".



The 25<sup>th</sup> of April 2022, Pilot4dev contributed to an exchange on Early Warning Systems in Pangkal Pinang, together with the University Gustave Eiffel.



- Focus Groups Discussions

Pilot4dev has been pleased to participate to focus groups discussions with pilot cities:

23/06/22: with Ternate and Mataram : see link

28/06/22: with Pangkal Pinang and Gorontalo

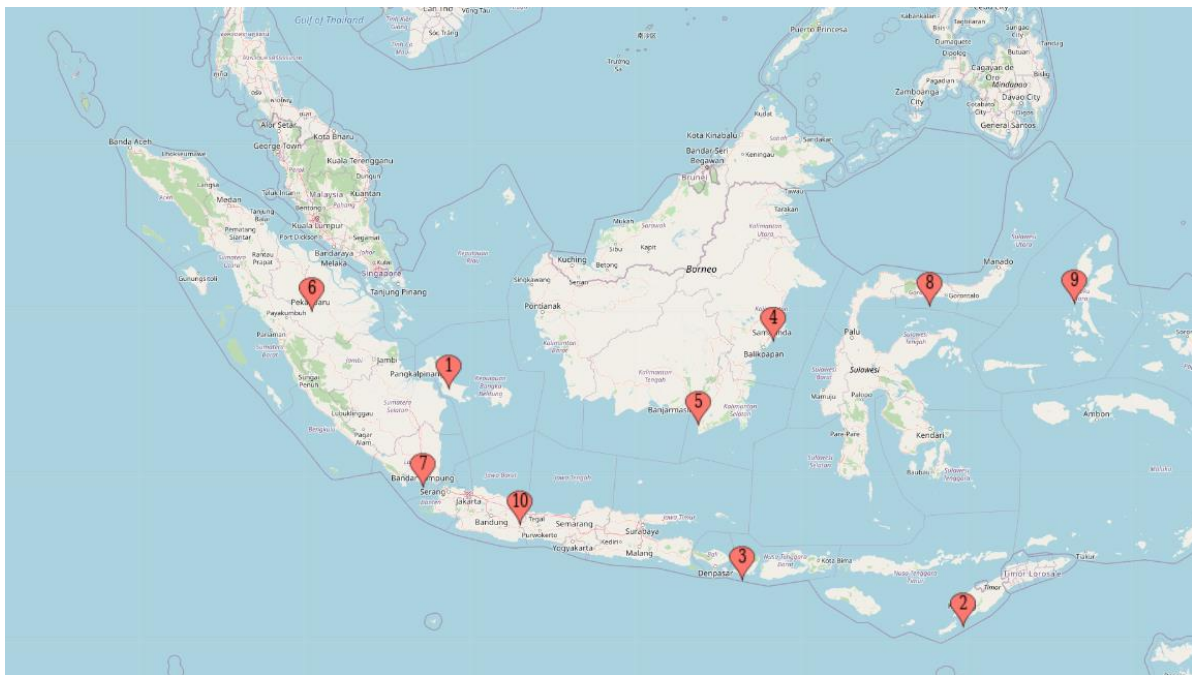
29/06/22 with Pekanbaru, Kupang, Bandar Lampung and Cirebon

- Communication and dissemination

The website is regularly updated. The website is developing according to the demands and new programs have been introduced (calendar, online files management, link to social media, online polls, as well as online statistics). The website will be updated.

- CRIC Study visits and panel of experts

At the end of February 2023, Isabelle Milbert and Pascaline Gaborit participated in study visits to the pilot cities: Mataram, Banjarmasin and Ternate. They could meet with all relevant stakeholders and drafted reports about the local situation. On the 1-3 March 2023, the first panel of experts took place in Surabaya.



Pilot4DEV @Pilot4Dev · 5h

How does a city such as Samarinda cope with #Climatechange? How can it become more #resilient and #inclusive? You can check it out in our new @europeaid funded CRIC reports here [bit.ly/37ztldw](https://bit.ly/37ztldw)

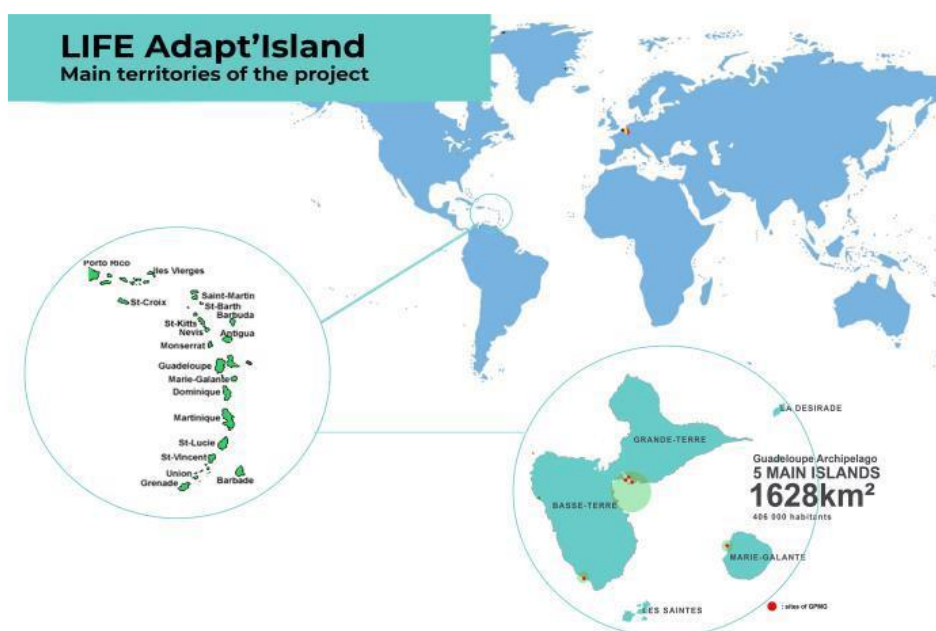


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## PROJECT LIFE ADAPT ISLAND GUADELOUPE



This project is co-funded by the LIFE program of the European Union and directed by the Grand Port Maritime de Guadeloupe.



The consequences of climate change are now evident in Guadeloupe and in the Caribbean in general:

- Increased severity of extreme meteorological activities such as hurricanes
- Increasing sea levels and retreating shorelines
- resource shortage

Together with Pilot4dev, the GPMG has applied and received funding from the EU LIFE for its Cáyoli program, which develops solutions with local stakeholders to strengthen resilience of maritime and coastal areas, the port, and the broader community. The project kick-off took place between the 28<sup>th</sup> of November 2019 and the 08<sup>th</sup> of December 2019 at the GPMG in presence of the main partners, including Director Pascaline Gaborit.



## Key objectives of the Adapt'Island Project

- Preserve the living environment
- Protect economic activities
- Encourage development of local green jobs.



Photo by [robin inizan](#) on [Unsplash](#)

GPMG is developing creative technologies and solutions with high potential for transferability and replicability in the Caribbean with the LIFE Adapt Island initiative. This would promote wide-scale regeneration of three coastal habitats and reduce the burden of extreme climate events on the area and its operations.

The LIFE Adapt Island project also improves the scientific frameworks for the writing of protocols in the natural environment for processing, development and transplantation. Actions include:

- Scaling up nursery production of transplant specimens (coral cuttings, mangrove saplings, and seagrass meadows) for the restoration of natural areas.
- Building a network of specialists in the Caribbean focused on developing adaptation strategies to climate change.
- Restoring damaged high-priority natural areas.
- Proposing environmental restoration solutions suitable for public contracting authorities in Guadeloupe and the Caribbean.
- Promoting the creation of a local environmental engineering industry.

**“Resilience is the ability to anticipate sudden or gradual disruptions, to minimize their effects, to evolve towards a new state of equilibrium.”**

Pilot4dev's role is to facilitate the execution of the project, and to give the project a more European dimension. In specific, it is responsible for Action E5' Project Communication at European level.' To promote the project's results, facilitate dissemination and promote awareness, Pilot4dev will host 1 workshop a year in Brussels.

- Support to the coordination of the project

Pilot4dev attended all the sessions of the scientific committee in 2022, and 2023, as well as the monitoring mission with CINEA and the monitor the 17-18 March 2023

Pilot4dev had previously supported the integration of a new action C5 in the proposal and worked on the modification proposal to be submitted to EASME in order to rework the actions D1 to D3.

Pilot4dev has also supported the project coordination by providing expertise on the program and the EU funding framework. Pilot4dev has been taking part to regular project meetings with the lead partner in order to ensure that the project achieves steady progression.

- **Policy briefs**

On January 12th, Pilot4dev shared a report “Stratégie pour la mise en place de l’action E5», or « Strategy for the implementation of the Action E5» (See Annex 2)



- January 2022: a 4th policy brief entitled “Mangroves: at the heart of nature-based solutions” has been drafted. This work addresses the multitude of pressures on mangroves ecosystems as well as their essential role in climate mitigation, climate adaptation and the preservation of biodiversity and, finally, the (non-exhaustive) initiatives that enhance mangroves’ ecosystems preservation.
- December 2022: a 5<sup>th</sup> Policy brief was drafted on ‘The underestimated value of seagrass in climate mitigation, climate adaptation and resilience’ It is available on our website.



- **Events**

Pilot4dev participated in all the events of the scientific committee. It also made proposals to organize a workshop in Brussels, during fall 2023, if possible in partnership with the European Sea Ports Association.

- **Dissemination and replicability of the project**

Pilot4DEV has been participating to several events to create a network of contacts which could be involved as replication partners. The potential partners identified during the various events and meetings have been compiled. They will be contacted by the end of 2022. This group will allow LIFE projects to learn from each other and find out the best practices applicable at a given time. The list of potential partners is the following: LIFE IP Climaz Açores, LIFE Adapt 2 Clima, LIFE Mahra, LIFE Intermarres, le Conservatoire du littoral, Vigilife, NOE ([www.noe.org](http://www.noe.org))...

Pilot4dev has identified a potential project compatible with the strategies of the LIFE Adapt’Island project, a first contact has been established by the GPMG regarding potential cooperation.

A mailing list has been created with other LIFE projects having a similar scope. The LIFE Mahra and LIFE Intermarres have been identified as potential partners for knowledge exchange synergy.



Pilot4DEV has identified 6 additional projects that could be contacted. The exhaustive list of additional projects is the following: LIFE ARTISAN, HYDROUSA, MUSICA, Women on Islands – Leaders of sustainable tourism, SMILO, NESOI.

Pilot4DEV has mapped 15 other projects that can be of interest to create synergies – with a focus on the Caribbean region, as requested by the GPMG, but also European projects. The exhaustive list of additional projects is the following: LIFE BIODIV'OM, Jariv, Initiative Mangroves du Fonds Français pour l'Environnement Mondial, Utila Coral Restoration (UCR), Coral Restoration St-Barth, CaribCoast, ADAPTO (Ten initiatives of flexible coastal management), C3AF, LIFE Natur'Adapt, LIFE Adaptablues, LIFE Coast Adapt, LIFE ADAPTAMED, LIFE Lagoon Refresh, LIFE Res Maris, LIFE Sparc.

The project's information and deliverables are published on PILOT4DEV's website and annual reports, and the project is promoted through the emails and the social media.



## PROJECT BRUD: Building Resilience through integrated Urban Development: Solid Waste Management, Efficient Public Lighting and Ecosystem-based Disaster Risk Reduction in Khorog Tajikistan

The grant agreement of the project has been signed in December 2021. It is funded by the European Union (EuropeAid). The project is operating under the leadership of the municipality of Khorog (Tajikistan). The University Gustave Eiffel (UGE) (France) and AKAH (Tajikistan) are partners while Pilot4dev acts as a support partner (subcontractor).

The overall objective of the project is to promote an integrated urban development by strengthening urban governance in Khorog, as well as by improving city's resilience and resource efficiency. The goal is to build the capacity of local authorities to identify and implement nature-based solutions to face climate-induced hazards and adopt more resource-efficient modes of delivering essential services to the citizens – waste management and public lighting.

An introductory meeting involving the Mayor of Khorog, representatives of the European Union as well as representatives of the partners, has been held on the 1<sup>st</sup> of February 2022. After introductory words from each partner, all the partners praised an ambitious project

that is raising great expectations and decided on regular meetings to keep an active coordination/communication and implement the first steps of the project.

We also had the opportunity to discuss with the ROM monitor. The project will be entering a new phase in 2023, with the reception of the payments by the partners.

### Evaluation of the proposals of the European Urban Initiative

Both Prof. Youssaf Diab and Pascaline Gaborit have taken part in the panel of assessors of the European Urban Initiative in February-March 2023. We contributed to the selection of the cities which will be granted funding to implement innovative actions.

### Ecoports

Pilot4dev has been working as a consultant on the certification of the Ecoport label of Guadeloupe Port Caraïbes. The Port has been certified in 2022.

## IV Proposals / pending projects

Other submitted projects pending decisions include the proposals listed below.

### YOUTH 4 NAMIBIA

The project has been designed by Women Action for Development, an NGO Namibia, which would be the lead partner with the support of Pilot4Dev

**The overall objective of the proposed action is to provide the youth and especially women and girls with knowledge and skills necessary to actively participate in their country's democratic processes and contributing to building a just and equitable society.**

Specifically, the objectives of the action are:

1. To educate the youth and especially young women about their fundamental human rights, responsibilities and duties as citizens of the country
2. provide young people and especially young women with an understanding of democratic principles, including the rule of law, human rights, election and electoral processes and the separation of powers.
3. To encourage young people to actively participate in the democratic processes of their country including voting, peaceful protest and engaging with elected officials.
4. To foster critical thinking and problem - solving skills amongst women and young people, enabling them to engage with complex social and political issues and contribute to positive change in their communities.

.Aimpulse

AIMPULSE Africa's overall objective is to demonstrate eight small-scale, practical technical, market and financial options in order to contribute to improving the livelihoods of rural communities. This would be accomplished by the project directly - through increasing farm production - and indirectly - by increased access to health and education.

Energy generation (from stand-alone solar off-grid systems to nano/mini grids) and appliances will be the solutions proposed (solar powered irrigation and cold chain systems). AIMPULSE Africa will evaluate the social, economic, environmental, health and climate impacts of these solutions and will identify, map and prepare the roll-out of those with the greatest potential to accelerate access to energy.

This project has been rejected twice but could be resubmitted.

### The Project CAS 4 PEACE

The project would take place in Puntland (Somalia). This project has been submitted by the African Diaspora Policy Centre in the Hague in partnership with Pilot4dev, and the Manaal Relief Foundation.

The **overall Objective** of the project is: To support Civil Society in Puntland and Somalia and to enhance peace-building and Human Rights through Culture, Arts, and Sports.

The **specific Objectives** are:

- To mobilize local communities through Culture, Arts and Sports activities to raise awareness on peacebuilding and conflict prevention.
- To enhance Youth and Women's capacity to build lasting peace and prevent conflict in Puntland through culture and sports.
- To support national/locally owned process that prevent conflict, community violence and foster lasting and just peace in Somalia.
- To promote culture, arts, and sports initiatives which brings women together active in peace dialogue, peace-making in Somalia;
- To identify and employ strategies for improving the contribution of women and youth to, and participation in peace processes,
- To set-up open channels of communication, network and mediates between parties in conflict, facilitates dialogue, and provide support to the broader mediation and peacebuilding.
- To promote peace dialogue at the grassroots level among youth between communities, tribes, local governments, federal member states through the culture, arts, and sports program initiatives.
- To provide one gender-inclusive conflict early warning system/framework to support communities and/or authorities in the country to prevent/mitigate conflicts, community violence resulting from elections, natural resources, and climate change.
- To support cross border and inter-state peace efforts.
- To contribute to the strengthening of local communities' resilience to better respond to and cope with community violence and conflict
- To improve communication and collaboration across communities and disciplines

### The project GS4D: Gateways Spaces 4 Dialogue and Participation

The project is developed in partnership with the University Gustave Eiffel, the All India Institute of Local Self Government, the Federation of Indian Chambers of Commerce and Industry, the CAG Citizens and Consumers Action Group and the IIT Roorkee technology institute.

The **global objective** of GS4DP is To **strengthen CSO engagement in EU-India Partnerships'** policy dialogues and contributing to the effective implementation of the **Global Gateway Strategy** in India.

The specific objectives are:

- To enhance and participation of CSOs and general public using a multi-stakeholder approach in EU Global Gateway Projects in 6 cities in India: **Ahmedabad**, Gujarat, as one of the fastest developing business region, and climate challenges, **Bhopal**, Madhya Pradesh, one of the Greenest cities of India, with many natural and artificial lakes, clean energy and water projects + challenges in terms of rural migrations, **Nagpur**, Maharashtra, one of the cleanest and greenest cities, part of the smart cities program, and one of the pioneers for solar energy. The city is facing challenges in terms of water conservation and rural migrations, **Chennai**, Tamil Nadu, is one of the main cultural and economic hubs of the south, with challenges in terms of water management and floods, **Dehradun**, Uttarakhand, with challenges in terms of connectivity and accessibility + climate vulnerability, **Ranchi**, Jharkhand, one of the smart cities, one of the poorest regions in the country, with challenges in terms of inclusiveness
- To engage CSOs, Local Government Authorities, Business Associations
- To use a combination of network formation, capacity building, action research, awareness and advice on sustainability, infrastructure and inclusion

## Project Horizon Europe: Seasonal thermal energy storage for efficient waste heat reutilization from data centres

HORIZON-CL5-2023-D3-01-09

### Waste heat reutilisation from data centres

# HYSTES4DATCEN

SEASONAL THERMAL ENERGY STORAGE FOR EFFICIENT WASTE HEAT REUTILIZATION FROM DATA CENTRES

Data centres are the backbone of the digital economy. They are behind online banking, eGovernment, autonomous driving. Not only this, they facilitate almost all of our everyday activities - every chat message, social media post, video streaming, etc. relies on data

centres. They are critical to the world we live in today but they are also one of the reasons for increased CO<sub>2</sub> emissions, high energy consumption. Globally, data centres are estimated to account for 1 to 2% of electricity usage. The percentage is higher in Europe, where data centres consumed 104 TWh of electricity in 2020 – about 3% of all the electricity consumed within the EU. Data centres consume 10x to 50x the energy per amount of floor space, compared to a typical commercial office building therefore they should strive towards ways that minimize the environmental impacts.

In data centres, surplus heat is primarily generated by IT equipment (e.g., servers) as part of data centre operation. Some of it could be repurposed to help heat homes and businesses in Europe and not be wasted. The energy emergency created by Russia's assault on Ukraine and the following higher energy prices, stemming from Russia's decision to effectively cut off natural gas deliveries, have boosted the activities towards energy



independence and in the case of data centre - the financial incentive for tech companies to invest in systems necessary to sell off their excess heat.

To support data centres' transition to a greener economy, reduced CO2 emissions and decreased electricity consumption,

HySTES4DatCen proposes an innovative thermal energy system that could store the excess heat for up to 6 months while providing the opportunity to end-users to make use of it on a demand basis for heating or cooling. Moreover, HySTES4DatCen introduces a

Replication tool enabling other data centres to make simulations based on their needs and requirements and assessing the most suitable technology before investing in renovation.

Participant No	Participant short name	Participant organisation name	Country
1 Coord.	GH	Green Horizon AS	Norway
2	AIT	AIT Austrian Institute of Technology GmbH	Austria
3	CEA	French Alternative Energies and Atomic Energy Commission	France
4	MLU	Martin-Luther-Universität Halle-Wittenberg	Germany
5	ZutaCore	ZutaCore Ltd.	Israel
6	Pilot4Dev	Pilot4Dev	Belgium
7	Klikk	KLIKK INT AS	Norway
8	WIIG	Wiig Gartneri AS	Norway
9	Siemens	Siemens AS	Norway
10	LEITAT	Acondicionamiento Tarrasense	Spain
11	EF	Efund EOOD	Bulgaria

## Project Horizon Europe grey-blue hybrid solution; protection and restoration; sea level and erosion resilience

PONYOO is a project that aims to tackle the growing threats posed by climate change to coastal areas and ecosystems. With more than 40% of the human population living near coastal areas, the need for innovative solutions to protect these environments is becoming increasingly urgent. PONYOO's solution is a hybrid approach that combines blue and grey infrastructure to increase resilience to sea level rise and coastal erosion, while also promoting biodiversity and sustainable development. The project will demonstrate the effectiveness of this approach through a large-scale demonstration site in Estonia and several smaller-scale sites across Europe. PONYOO brings together a multidisciplinary team of 12 organizations from 6 countries, including industries, SMEs, universities, municipalities, research centers, and think-tanks. The project's ultimate goal is to guide future replication sites across Europe, promoting a paradigm shift in the nature-based solution sector, and improving environmental and urban resilience.

Participant No	Participant short name	Participant organisation name	Country
1	RINA-C	RINA Consulting	ITA
2	VV	Viimsi Vallavalitsus	EST
3	UTartu	University of Tartu	EST
4	BEI	Builders Ecole d'Ingenieur	FR
5	UCD	University College Dublin	IRL
6	BOS	Boskalis International B.V.	NDL
7	S2AQUA	S2AQUA - Laboratório Colaborativo, Associação para uma Aquacultura Sustentável e Inteligente	PRT
8	IPMA	Instituto Português do Mar e da Atmosfera, I.P.	PRT
9	P4D	Pilot4dev	FR
10	SS	Stress-ScarL	ITA
11	UNINA	University of Napoli - Affiliated entity	ITA
12	REE	Reefy B.V.	NDL

## Project Horizon Europe AI4DEBUNK

AI4Debunk aims to develop 4 human-centered AI-powered interfaces: a web plug-in, a collaborative platform, a smartphone app, and an AR interface. All these solutions will be built upon a "debunking" API.

To develop such an API, AI4Debunk will focus on 2 peculiar disinformation topics: the war in Ukraine and disinformation related to climate change. By deeply analysing these case studies thanks to sociological experts (targets groups, sources, way of diffusion...), we will map disinformation contents on knowledge graphs, and compare them to existing databases thanks to AI methods such as NLP. These knowledge graphs will be the skeleton of our technical work: one will be multimodal meaning that all types of modalities (written content, image, video) will be directly embedded, while the monomodal will be only about written content (the different modalities will be previously embedded into written content).

Then debunking modules will be developed, for each type of modality, based on AI and ML methods that could detect and examine questionable content, by comparing it to the context extracted from the knowledge graphs. RNN, CNN, multi-modal language interpretation, and transformers methods will be used to that extent. The goal of such modules is to give a score of fakeness, which we will call DisinfoScore, for content given as input.

The API will then integrate this method and will be the bases of the 4 interfaces abovementioned. The plugin will allow people to be instantly noticed when a content they are considering is fake or true, the collaborative platform - also called Disinfopedia, will allow more proactive online users to report questionable content, that will be checked by a debunking

## ENGINCAT: Engage in Climate URBACT IV

The project brings together medium sized coastal cities impacted by climate change in particular coastal erosion, water scarcity and/or floods but with important ambitions to cut GHG emissions and to sustain tourism. The objective of the project 'Engage in Climate' is to development co-creation and participation mechanisms with citizens and tourists to work on climate adaptation and climate mitigation strategies, using digital technologies and innovative practices.

	Partner organisation	Type of organisation	Regrouping	Country
Lead Partner	Termoli	Local Public authority	EU Less developed regions	ITALY
	Ville de Pointe à Pitre	Local Public authority	EU Less developed regions	GUADELOUPE
	Grad Nin	Local Public authority	EU Less developed regions	CROATIA
	Municipality of Alexandroupolis	Local Public authority	EU Less developed regions	GREECE
	Regione Autonoma della Sardegna	Regional Public authority	EU Less developed regions	ITALY
	Malta Spatial Planning Authority	National Public authority	EU Less developed regions	MALTA
	Ayuntamiento de San Pedro del Pinatar	Local Public authority	EU Transition regions	SPAIN
	Fundacion Santa Cruz Sostenible	Local Public authority	EU Transition regions	SPAIN
	Skive Kommune	Local Public authority	EU More developed regions	DENMARK
	Bashkia Shkoder	Local Public authority	Instrument for Pre-accession Assistance countries	ALBANIA

## IV. Projects to be submitted

- [MEDIATE Supporting Democracy and Human Rights in Sri Lanka](#) : with Search from Common Ground (lead), AILSG and FSLGA the Federation of Sri Lankan Local Governments Authority
- [Sustainable Cooking Solutions and fight against deforestation in Tanzania](#) with IMED Foundation, Tanzania Chamber of Commerce and Agriculture (lead), Dr. Kaihula Bizhaghazi (coordinator), Tree for Life etc.

- Urban and water design in Pemba Island: with REPOA (lead partner)

## Proposals not approved

- Transformative Change *TRAnsformative Change for the Energy Transition*: Proposal submitted to Innoviris Proof of Concept
- Regional circularity CESIP (DUT) submitted by the university of Tarragona
- Exprecimap: *EXPerimental REsiliEnt Cities MAster Platform* submitted to Innoviris experimental platforms in partnership with ENGIE and ULB University of Brussels
- ARC: Awareness Raising on Energy on Development, SDGs and migrations in partnership with Climate change

## V. Advocacy, Education, Trainings and Press Events

### Interventions at international events

Pilot4dev has been present at numerous events over the year 2022 and at the beginning of 2023. The CRIC project has been presented on **the 7<sup>th</sup> of November 2022** at the occasion of Pascaline Gaborit's intervention during the 5<sup>th</sup> International Conference on Environmental Sustainability and Climate Change in Paris.



#### 5TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SUSTAINABILITY AND CLIMATE CHANGE

Pascaline Gaborit (Pilot4DEV) has presented her work and the latest publication of the organization at the 5th International Conference on Environmental Sustainability and Climate Change at the Millennium Hotel Paris Charles De Gaulle on the **7th of November 2022**.



9/12/2022. Pilot4dev has organized a **press event** at the Press Club Europe Brussels to present the activities and the results of the research and publications. We have published 5 videos on the social media. The video are available on [Youtube](#). And posts have been published to promote it on [Twitter](#), [Facebook](#) and [LinkedIn](#).

We also took part as a keynote speaker on the **conference on circular cities** organized by AIIISG and UCLG-ASPAC on **the 3<sup>rd</sup> of February 2023**

The Conference on cities and circularity the 3<sup>rd</sup> of February 2023

Circular Economy Committee (CEC)

# Cities and Circular Economy

February 3, 2023 3.00 pm to 5.00 pm (IST)

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## Agenda

Time (IST)	Session	Speaker
3.00 pm - 3.05 pm	Welcome Remarks	Dr. Bernadia Irawati Tjandradewi, Secretary General UCLG ASPAC
3.05 pm - 3.10 pm	Introduction of the Participants/Speakers	Mr Ravi Ranjan Guru, Chair Circular Economy Committee and DDG, AIILSG, India
3.10 pm - 3.30 pm	Role of Circular Economy in Cities	Dr. Pascaline Gaborit, Pilot4Dev
3.30 pm - 3.50 pm	The role of local and regional authorities in promoting the Circular Economy	Mr. Danko Alecsic, ACR Plus
3.50 pm - 4.10 pm	Energy and Circular Economy in Cities	Mr. Kanagaraj, 2000 Watts Smart Cities Association
4.10 pm - 4.30 pm	Waste Management and Circular Economy.	Mr. J M Vivek, Technical Expert, GIZ
4.30 pm - 4.50 pm	Q&A and Discussion	Ms. Anusha Fatima - AIILSG, Moderation
4.50 pm - 5.00 pm	Concluding remarks	Mr. Pashim Tewari, Technical Director, AIILSG India





CLIMATE  
RESILIENT  
AND INCLUSIVE  
CITIES



Co-funded by  
the European Union

## Cities and Circular Economy Webinar UCLG ASPAC

### ■ CITIES AND THE CIRCULAR ECONOMY

According to the Ellen MacArthur Foundation (2019), cities, while they generate prosperity, consume over “75% of natural resources” and “produce 50% of global waste and 60-80% of greenhouse gas emissions”. This is because cities follow a linear economic model which uses the “take-make-dispose” approach. Raw materials are collected and transformed into products that consumers use until discarding them as waste. Here, cities are not concerned with environmental nor ecological sustainability and prioritise economic prosperity as a sole objective.



**OF RESOURCES  
ARE CONSUMED  
BY CITIES.**

(Source: Ellen  
MacArthur  
Foundation, 2019)

***The circular economy is “a model of production and consumption, which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products as long as possible”***  
***(Definition of the European Union)***

This implies a longer life cycle for products, a minimization of waste, new added value, more accessible products, knock on effects on innovation and product design. Cities, which are focal points for sectoral interactions, stand to benefit from the circular economy approach.

### ■ LEARN MORE

Follow the webinar  
for more detailed  
analyses!



This introductory webinar will seek to give basic understanding and elements to ideate on circular economy for different sectors.

## Meeting EU Officials

Pilot4dev has met with EU officials from DG Environment, DG Climate, DG Energy, DG Regio, and Cabinet members of the EC Vice President Frans Timmermans, MEPs, and co-workers of the EC Council of the European Union to present the findings of our research.

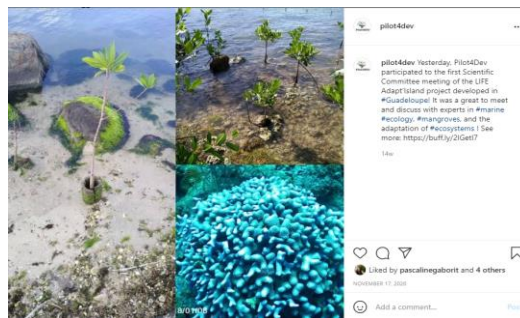
## Social media and online activities

We have ramped up our activities online through the creation of several new Pilot4dev outlets.

We update a twitter account under the handle @Pilot4dev and have been posting on the platform regularly, both sharing our news and projects contents.

We have also been publishing regularly on our [Facebook](#) and [Linkedin](#) pages.

We also have an [Instagram](#) page which we need to expand upon.



We also publish regular pieces of news on the [Pilot4Dev website](https://pilot4dev.eu)

## Protection of Marine Ecosystems: actions and training

Pilot4dev is promoting scuba diving discovery as a way to protect corals and underwater ecosystems. For this we work with Nemo 33 Brussels, and Aquadomia.

## Proposed Trainings

Pilot4dev is proposing 3 days trainings on Disasters Early Warning Systems, Resilient Urban Design, the Blue Economy, and the protection of Marine Ecosystems for groups of 10 people (min 300 Euros pp).

## Contributions to the Master Resilient cities

Pilot4DEV has also presented the CRIC during an online executive master on carbon neutral and resilient cities on the **22<sup>nd</sup> of November 2022** organized by the University of Brussels (ULB) and the private sector (ENGIE). The master is open to international audience for a fee of 2295 Euros and has started on **September 13<sup>th</sup>**. New students are still welcome for next year's session.



## VI. Results and achievements

Pilot4dev has celebrated its 5<sup>th</sup> anniversary in January 2023.

While several reasons such as the COVID Pandemic, or consequences of the war in Ukraine have complicated the development of the organization, we have nonetheless overcome the challenge by fully adapting to the current situation by liaising regularly with our partners and managed to maintain course on our different projects without having to make critical concessions.

The year 2022 has also been very productive for us in terms of project development, as we submitted not less than 12 project proposals. Some of the submissions pending could turn into successful projects.

Through those different proposals, we have also expanded our network at the international level.

We participate regularly to online meetings and European debates and events including the events organized Think Tanks such as Friends of Europe and at the Press Club Europe (or which we are member). We also participate to international events in order to promote Pilot4dev's endeavors and projects.

We maintain regular contacts with the European institutions and invite representatives to all the events carried out in the scope of our EU funded projects. We met in particular representatives of the different DGs, but also cabinet members of EC Vice President Frans Timmermans to present the results of the publication. The organization is registered in the Transparency Register of the European Union and has an access badge to the European Parliament.

Pilot4dev's growth has kept on going despite the challenges and is a proof that it has been able to build resilience in its own functioning despite its limited funding, through building partnerships, networking and sharing opportunities.

We thank all the board members, partners, founders and contributors who have made it possible!

[www.pilot4dev.com](http://www.pilot4dev.com)