Nature-based solutions for climate-resilient cities: digital tools for decision-makers

Climate Adaptation Platforms Community of Practice

Andreas Hoy, Rosie Witton and Sukaina Bharwani, SEI Tallinn and SEI Oxford 22nd May 2025







Agenda





Welcome, Andreas Hoy, Rosie Witton (5 min.)

Adaptation AGORA Project and Quiz, Andreas Hoy (5 min.)

Urban Governance Atlas, Natalia Burgos Cuevas (20 min. incl. Q&A)

AdaptaVille, Anna Blouet (20 min. incl. Q&A)

Plus Fraiche Ma Ville, Tanguy de Ferrières (20 min. incl. Q&A)

Panel Discussion, All presenters (15 min.)

Closing Remarks, Andreas Hoy (5 min.)



What is the Adaptation AGORA project?

Adaptation AGORA - A Gathering place to cO-design and cocReate Adaptation

Adaptation AGORA supports the overall objectives of the Mission on Adaptation to Climate Change to meaningfully and **effectively engage communities and regions** in climate actions, accelerating and upscaling adaptation process for building a climate resilient Europe.

January 2023 – December 2025



























Urban Governance Atlas

Natalia Burgos Cuevas Ecologic Institute, Berlin





Urban Governance Atlas

Policy Pathways for mainstreaming Nature-based Solutions in cities

Natalia Burgos Cuevas Ecologic Institute

May 22, 2025

interlace-project.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 869324.



Creating enabling conditions: Unpacking NBS policy frameworks

- Ambition to mainstream NBS into urban planning and policies
- Policy instruments /governance as critical enablers or barriers to adoption
- Shift from ,government' to ,governance'
- Lack of specific and proven local policy instrument examples ... until now!



Urban Governance Atlas (UGA)

A collection of more than 250 policy instruments supporting nature-based solutions and ecosystem restoration



Aims to:

- Foster ecologically coherent, inclusive planning for urban ecosystem restoration and green space planning
- **Inspire global action** through good practice instruments, including lessons learned
- Represent diverse contexts (institutional/ geographic) – bottom up & top down

Easily searchable by different criteria!

UGA functionalities

Multiple ways to search

- Filter by:
 - Keyword search
 - Instrument type + instrument pages
 - Country, city and region
 - Initiating body
 - Targeted urban area
 - Urban challenges addressed
- Interactive map view
- Multilingual Access: English and Spanish



UGA functionalities

Instrument pages

Objectives & Context

- Aims and challenges addressed
- Link to NBS and ecosystem restoration
- Relevance to specific (peri-)urban areas

Governance & Implementation

- Initiating body and instrument design
- Targeted actors and implementation approach

Financing

- Funding sources and budget
- Additional financing details

Results & Evaluation

- Achieved outcomes and impacts
- Monitoring and evaluation mechanisms

Insights & Integration

- Good practice characteristics
- Success factors and lessons learned
- Integration into broader policy frameworks
- Related instruments

References

Data sources and interview references

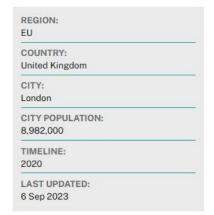
The London Urban Forest Partnership



The London Urban Forest Partnership launched in 2020 as a city-wide network of organisations that collaborate to protect, manage and enhance the UK capital's trees and woodlands. The partnership is comprised of organisations with a strategic interest in London's trees and woodlands and includes representatives of public and private sector as well as charities. The partnership meets quarterly to share information and data, help inform tree related programmes in London and promote the benefits of the city's urban forest. In 2020, the partnership published a London Urban Forest Plan which sets out its priorities for action and provides the framework to guide the work of the partnership.

OVERVIEW	^
GOVERNANCE	^
FINANCING	^
MONITORING, EVALUATION AND IMPACTS	^
SOURCES AND FURTHER INFORMATION	^







In a nutshell...

Urban Governance Atlas (UGA)

A collection of more than **250 policy instruments** supporting nature-based solutions and ecosystem restoration

EU

250 good practice policy instruments

Co-created by more than

48
Organisations

Featuring countries

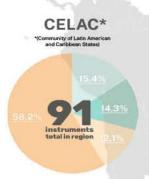
Available in English Spanish

instrument types:



Legislative, regulatory, strategic:

usually binding laws and regulations as well as strategies that set visions and strategic goals – overall: 47% of all instruments





Agreement-based or cooperative:

instruments in which the government and/or involved actors jointly and on a voluntary basis decide to behave in a certain way – overall: 23 % of all instruments



Economic and fiscal:

instruments that influence market mechanisms through for instance disincentives, incentives, payments, subsidies, financing mechanisms and market-based instruments-overall: 18% of all instruments



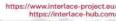


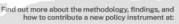
Knowledge, communication and innovation:

try to influence behavior by disseminating information to actors or involving actors in critical processes in innovative ways to inspire voluntary behavioral changes—overall: 12% of all instruments







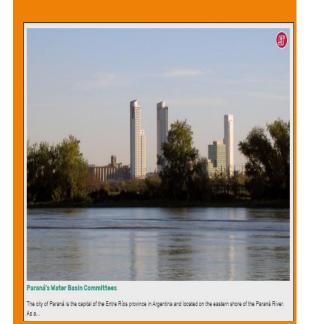




Category	Subcategory	Examples
Legislative, regulatory and strategic instruments (LRSI)	dedicated strategy or plan	NbS, green infrastructure, or green space strategy or plan
	sectoral or overarching strategy or plan	adaptation, biodiversity, circular city, smart city strategy or plan; masterplan; integrated plans
	urban planning mechanisms	spatial (zoning), infrastructure or socio-economic development plans; green space factor restrictions on development of green areas; scoring; land use plans
	standards	green public procurement standards
Knowledge, communication and innovation instruments (KCII)	communication / awareness raising	targeted educational programs; certification (labelling) or ranking; awareness raising campaigns
	knowledge and innovation	communities of practice; living labs; creating workshops; pilots; constructing business cases
Economic and fiscal instruments (EFI)	disincentives	taxes and charges/fees, tariffs; trading of permits for using a resource or trading
	payments, subsidies, incentives	subsidies or payments to landowners/ private actors for practices; public financing/grants
	financing mechanisms / market-based instruments	'green finance' or debt-based instruments; payments for ecosystem services (PES); public-private-partnerships (PPP)
Agreement-based or cooperative instruments (AbCI)	direct engagement of citizens / multistakeholder collaboration	citizen science programmes, participatory budgets, neighbourhood development plans, community management of green spaces on public lands, community asset transfer
	joint regional planning/ action	inter-municipal exchange platforms

Examples of policy instruments supporting participation and/or co-governance

Legislative, regulatory, and strategic



Economic & fiscal



Participatory Budget - Wrocław

The city of Wrocław, Poland has been running a participatory budgeting program (Wrocławski Budżet Obywatelski) since 2013. Participatory...

Agreement-based or cooperative



Public-community agreement between the Urban Forest Network and the Mayor's Office of Cali, Colombia

The agreement is created for the generation of knowledge that contributes to key decision-making processes for environmental management in...

Knowledge, communication & innovation



"Strasbourg grows" educational materials and awareness raising - Strasbourg

Launched in 2017, the "Strasbourg grows" programme ("Strasbourg ça pousse") supports residents in urban greening/...

Showcasing 4 types of policy instruments



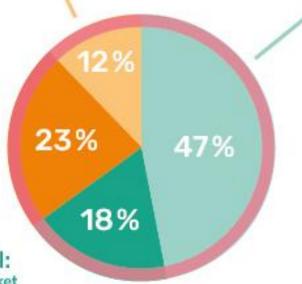
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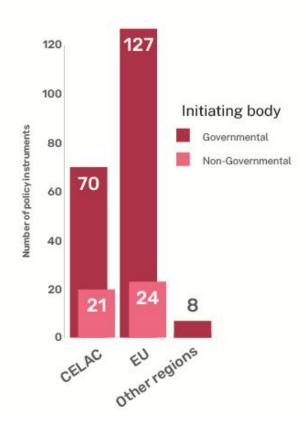
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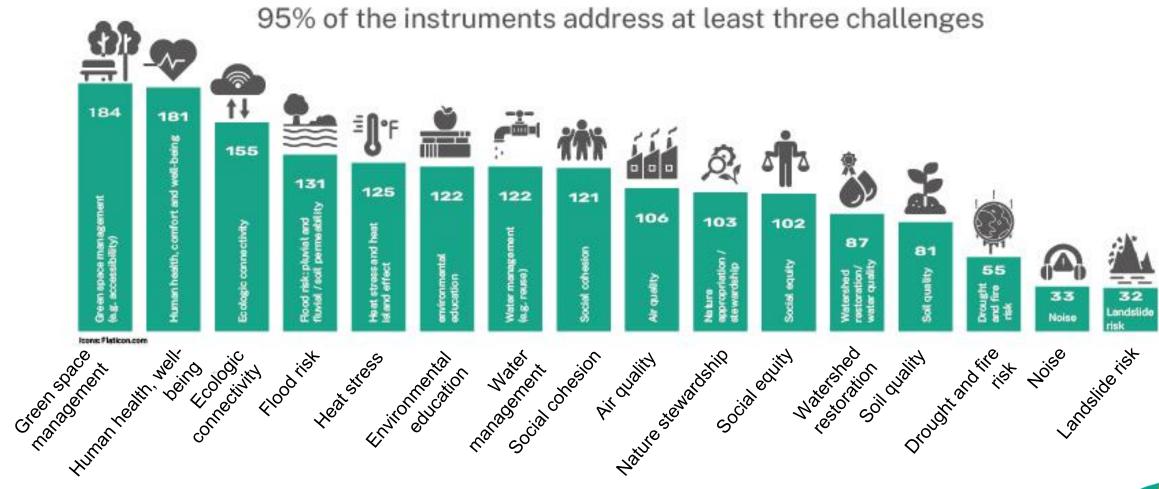
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Global distribution and initiating body



Challenges addressed 95% of the instruments address at least three challenges



Some final reflections...

Rich information enabling multifaceted analysis:

Deeper insights possible by analyzing governance, finance, innovation, and inclusivity dimensions.

- Most policy instruments are top-down (legislative, regulatory, strategic), leaving room for more bottom-up approaches.
- High potential to combine tools, especially communication, innovation, and cooperative mechanisms.



- Provides a framework to analyze policy instruments and how they integrate NBS and ecosystem restoration
- Provides inspiring examples on how to mover towards more inclusive NBS action and justice outcomes
- Highlights the diversity of instruments and their application across contexts
- Supports cross-regional learning by showcasing innovative responses to similar challenges

Personal lessons learned

- It's both a technical and leadership task: build trust, offer guidance, and make time to be available
- Design matters—bring in creative minds, as it's often underestimated
- Reviewing practices takes time and commitment—don't underestimate itlt's hard to keep the momentum, but I'm so glad to be here sharing this with you!

Dive into the UGA

Urban Governance Atlas



Further resources

Davis, M., Burgos Cuevas, N., and Gvein, M.H. (2024). "Transforming ambition into action to catalyse nature-based solutions: Insights from 250 good practice policy instruments." Nature-Based Solutions, 6, p. 100171. doi:10.1016/j.nbsj.2024.100171.

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https://interlace-hub.com/urban-governance-atlas













































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AdaptaVille

Anna Blouet
Agence Parisienne du Climat







AdaptaVille A tool to facilitate the adaptation of Île-de-France cities

Anna Blouet

Project Manager for Climate Change Adaptation Agence Parisienne du Climat





L'Agence Parisienne du Climat

- The operational agency for the implementation of the climate plan in Paris and Métropole du Grand Paris
- As the single entry point for energy renovation in Paris, it is part of the France Rénov' network.
- Numerous actions address environmental challenges in dense urban areas, buildings, and energy—focusing on both mitigation and adaptation to climate change.
 - → <u>www.apc-paris.com</u>



AdaptaVille: A local and collective support program for professionals

- Equip stakeholders to address the impacts of climate change
- Support the structuring of the adaptation sector
- Showcase adaptation solutions to inspire action

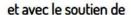
Conçu en partenariat avec













Cerema



























alimentaires















How we identify and showcase solutions

- > Selection of solutions via an annual selection committee
- >Interviews and research to gather practical information and feedback
- > Solutions promoted as solution sheets on our web platform or during events







Désimperméabiliser la voirie : les pavés perméables (enherbés, à larges joints, en béton perméable, ...)

Sharing solutions and local news

- 80+ solution sheets on risks affecting the region (heatwaves, floods, droughts, etc.)
- An interactive map of case studies
- Contacts of over 100 solution providers, including 80 companies ready to answer queries
- Local financial aid sheets
- Articles, guides, and publications
- A local event calendar
- A quarterly newsletter sharing resources, news, and events







Accueil > Aléas climatiques > Canicules

Canicules

S'adapter à des vagues de chaleur plus fréquentes et plus intenses

L'augmentation des vagues de chaleur et des canicules, en fréquence et en intensité, est une des conséguences du changement climatique les plus impactantes pour le territoire du Grand Paris

Selon Météo-France, le nombre de jours de vagues de chaleur en France pourrait doubler d'ici la fin du siècle dans un scénario optimiste, voire être multipliés par un facteur 5 à 10 dans un scénario pessimiste. Ces vagues de chaleur ont des conséquences sanitaires graves et quasi systématiques, allant jusqu'à une augmentation de la mortalité dans les départements touchés.

En ville, les vagues de chaleur sont exacerbées par l'effet d'îlot de chaleur urbain, qui entraîne une incapacité pour la ville à se rafraîchir la nuit. Les revêtements minéraux, la morphologie urbaine, l'absence de végétation sont autant de facteurs qui entraînent une différence de température pouvant aller jusqu'à 10 °C entre les centres urbains et les zones rurales alentours









biodiversité



Risques sanitaires



Sécheresses



Tensions sur les ressources



Tensions sur les ressources énergétiques



accompagner la végétalisation des espaces privés

Certaines collectivités ont mis en place des dispositifs d'aide et d'accompagnement auprès de



En générant de l'ombre, les pergolas, voiles d'ombrage, ou autres types d'ombrières agissent.



Proposer des aides aux particuliers pour Installer des solutions d'ombrage en ville Installer des protections solaires mobiles extérieures (stores, volets, persiennes, ...) Les volets et stores constituent de véritables atouts pour le confort d'été, surtout...

Thematic publications



COMPRENDRE LES RISQUES

D'INONDATIONS

À PARIS

Heatwaves

Lexique canicule

COMPRENDRE POUR MIEUX S'ADAPTER

Flooding

PAR MÉTÉO-FRANCE ET L'AGENCE PARISIENNE DU CLIMAT

Vague de chaleur, nuit tropicale, stress thermique, îlot de chaleur urbain... Alors que les étés deviennent de plus en plus chauds, l'Agence Parisienne du Climat et Météo-France vous proposent un éclairage en textes et en images pour tou comprendre des notions scientifiques qui décrivent les fortes chaleurs que nous

















Practical solution sheets



CASE STUDIES



KEY CONSIDERATIONS







Install sun protection (shutters, blinds, ...)



Pedestrianize and green streets with schools



Adjust park opening hours during a heatwave

Information on local financial aid to support your projects

Aperçu des aides financières locales

Localement, à l'échelle francilienne, il existe de nombreuses aides financières pour aider les acteurs publics et privés à mettre en œuvre des solutions d'adaptation au changement climatique. Ci-dessous, nous vous proposons un aperçu de ces aides qui sera complété et mis à jour régulièrement.

Pour vous aider dans votre recherche d'aides financières pour vos projets, vous pouvez aussi <u>utiliser l'outil "Aides-territoires"</u> qui référence de nombreuses aides l



Chaleur et froid renouvelables I Ademe IDF et Région IDF

A qui s'adresse cette aide ?Toutes personnes morales (à l'exception de l'État et de ses...



Installation de récupérateurs d'eau de pluie I Région Île-de-France

A qui s'adresse cette aide ? CollectivitésAssociationsEtablissements publics Acteur assurant...



Installation de fontaines l Région Île-de-France

A qui s'adresse cette aide ? Peuvent bénéficier de cette aide: Collectivités

Webinars with key local funders

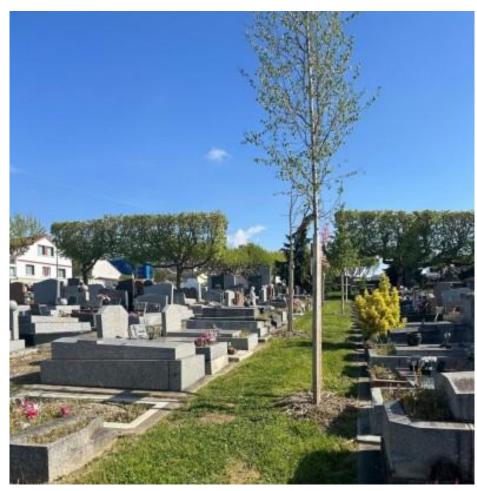


REPLAY I Les aides locales aux collectivités pour les solutions techniques d'adaptation



REPLAY I Les aides locales aux collectivités sur les solutions d'adaptation fondées sur la nature

Depaying and greening urban cemeteries



Montreuil Cemetery - © Agence Parisienne du Climat

- Spaces conducive to biodiversity quiet areas with little to no lighting at night + Greening brings shade and coolness for cemetery visitors
- In France, chemical pesticides have been **banned** in cemeteries since 2022
- Case study: Montreuil Cemetery, gradually greened over 10 years by a team of five city workers:
 - Gradual removal of concrete slabs between graves to allow grass to grow
 - Tree planting
 - Greening of the perimeter wall
 - Adapted maintenance techniques : mowing and pruning
- AdaptaVille field visit in April 2024 with 30 professionals to exchange directly with the teams

Bringing stakeholders together, sharing feedback, and strengthening the sector

- Around 15 events per year
- 700+ participants in 2024
- A wide range of participants: local governments, consultancies, architects, landscape designers, urban planners...
- Spaces for exchange: testimonials, feedback, group work
- Diverse formats: site visits, workshops, conferences, webinars...



Site visits



Visit of the green cemetery in Montreuil (April 2024)



Visit of a school construction site in Rosny-sous-Bois (May 2024)

Participatory workshops



Workshop on climate-adapted greening (September 2024)



Workshop on pavement materials (December 2023)

Webinars



Pavements and Climate Change: Choosing the Right Material in the Right Place



Local Financial Support for Municipalities on Nature-Based Adaptation Solutions

Les Rencontres annuelles: A flagship moment for adaptation stakeholders





- Thematic roundtables
- A forum with around 30 stands

- 350+ participants in 2024
- 5th edition planned for November 2025

Tailored support for local authorities

The expertise of the Agence Parisienne du Climat at the service of cities:

- A free, individual, and tailored pathway
- For municipal departments
- 4 cities supported in 2024: Paris, Vanves, Arcueil, and Bagnolet
- Proposed actions:
 - General training on adaptation
 - Awareness sessions on specific topics
 - Organization of a participatory workshop on a particular issue
 - Organization of a urban walk on adaptation



Workshop with Paris staff on summer comfort in public buildings

Stay in touch

All our resources are available on our platform: <u>adaptaville.fr</u>



Subscribe to our newsletter to stay informed!



Merci!





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in | **y** @AparisClimat



Plus Fraiche Ma Ville

Tanguy de Ferrières

The French Agency for Ecological Transition





Panel discussion

- Andreas Hoy, SEI Tallinn
- Natalia Burgos Cuevas, Ecologic Institute
- Anna Blouet, Agence Parisienne du Climat
- Tanguy de Ferrières, The French Agency for Ecological Transition



Stay in contact!





How would you like to stay in touch?

We are looking at options to ensure this network can remain in contact to support and engage though future webinars and more generally.

1. Join the current network online!



2. Check out our platforms page and add your platform!



Climate change platforms Climate Change Adaptation in RegionsAdapt AdapteCCa RegionsAdapt is a pioneering initiative The AdapteCCa platform is a platform for The Climate Change Adaptation in exchange of information on impacts, Austria (Klima Wandel Anpassuna) governments worldwide to adapt to the vulnerability and adaptation to climate impacts of climate change. platform focuses on what measures can change facilitates coordination and be taken in different greas to remain fit for the future even under changed Climate Change Portal (MIP4ADAPT) Adaptation Hub Romania's Climate Change Adaptation The Greek Climate Change Adaptation Platform, RO-ADAPT, is an innovative tool The EU Mission on Adaptation to Climate Hub plays a crucial role in supporting the for the substantiation of the national implementation of adaptation policy and Change empowers European regions and climate change policies and strategy, as in raising awareness and momentum for local authorities to achieve climate well the sectoral ones in the climate esilience, aiming to guide at least 150 adaptation action change adaptation direction of action. communities through understanding climate risks, developing pathways for preparation, and implementing View Article → View Article →



Stay in contact!





3. Check out our other platforms and tools!

Digital Academy to access and use climate data and monitor climate risks



Digital Academy Against Climate Change Disinformation



Agora Community Hub











Thank you for joining today!







Please stay in touch:
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