

France Ville Durable
Delegation to Romania
June 23rd 2023

"Eco-Quartier: designing sober, inclusive, resilient and creative neighbourhoods?"



Opening



**Primăria
Capitalei**

Nicușor Dan
Mayor of Bucharest



vivre
les
cultures

Julien Chiappone-Lucchesi,
Director of the *Institut français* in Romania

Fundamentals of sustainable cities

*for sober, resilient, inclusive and creative
neighbourhoods*






**AMBASSADE
DE FRANCE
EN ROUMANIE**
*Liberté
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Magali Vuillaume
French Embassy in Romania




**MINISTÈRE
DE LA TRANSITION
ÉCOLOGIQUE
ET DE LA COHÉSION
DES TERRITOIRES**
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Bruno Bessis
French Ministry
Of Ecological Transition
and Territorial Cohesion




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Djamila Ioualalen-Colleu
French Ministry of
Ecological Transition
and Territorial Cohesion




Cerema
CLIMAT & TERRITOIRES DE DEMAIN

Anne Vial
French Centre for Studies
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Urban Planning (Cerema)

FRANCE VILLE DURABLE



Christophe Degruelle

Vice-President for
France Ville Durable's
local authorities body
(Blois Agglopolys)



Bruno Bessis

Representative for
France Ville Durable's
State body
(French Ministry of Ecological Transition)



Sylvain Chapon

Representative for
France Ville Durable's
business body
(ENGIE)



Carla Doncescu

Representative for
France Ville Durable's
experts body French Network of
Urban Planning Agencies (FNAU)

Local authorities



State



Private companies



Experts



Our members - Sustainable City by France - France Ville Durable



Sufficiency
Inclusion
Resilience
Creativity

SUSTAINABLE CITY
by FRANCE



Our vision for sustainable and resilient territories
[Manifesto - Sustainable City by France - France Ville Durable](#)

INSPIRATION - Demonstrators :

What transformation of our neighborhoods and our methods in response to the challenge of adapting to climate change?

Orase Durabile laureates



Târgu Mureș
"Big city" category



Rășinari
"Small town" category



Râmnicu Vâlcea
Special Jury Mention
"Big city" category

THE FLOURISHING COMMUNE OF ECO-RĂȘINARI

2023 *Orase Durabile* laureate
"Small town" category



Presentation – CARMEN OLTEANU

Local councillor, Rasinari commune



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[Primaria Rasinari – Pagina oficiala a Comunei Rasinari – judetul Sibiu \(primaria-rasinari.ro\)](http://primaria.rasinari.ro)





The municipality of Rășinari is located 10 km from the medieval city of Sibiu. The proximity of the city, the rich heritage, the traditions that have been preserved for centuries, the renowned local gastronomy and the surrounding environment determine the need for continuous development in the quality of life.

Caption:
 Rășinari town hall, very active on sustainability
 Research activity with Romanian and French young people and senior citizens
 The sky, flowers and volunteers

Objectives



Idea 1

Transform the Rășinari commune into an Eco commune open to all.

Idea 2

Understand and raise awareness about the importance of protecting the environment through training and information initiatives.

Idea 3

Embellish the commune.

Idea 4

Build and ensure access to public green spaces that are safe, inclusive and easily accessible to all.

Idea 5

Promote green transport.

Idea 6

Encourage voluntary activities and the involvement of young people and senior citizens.

In a nutshell

What are we going to do?

We're looking for the right solution to achieve the right level of eco-locality. Over time, environmental damage causes significant, irreparable and irreversible damage. We need to take action!

Practical activities that give the satisfaction of work done but also the beauty of the environment that the people involved shape and appreciate.

We encourage the use of non-polluting working methods, using traditional tools and ecological materials that do not endanger nature in any way.

We initiate models of sustainable development.

Working with our French partners.

We involve young people and senior citizens in joint activities.

We create examples of good practice for the future.



Contact us/Find out more:

<https://primaria-rasinari.ro/contact/>

<https://www.facebook.com/Rasinarituristic>

<https://www.facebook.com/profile.php?id=100064363615081>

<https://www.facebook.com/asociatia.rasinariconfluenteeuropene>

We want the whole Rășinari community to create its own space conducive to well-being, we want to learn to enjoy the simple things like our French partners do so well.

If you would like to discover our community, we invite you to explore Rasinari together!

Date prévue du début du projet 1er Mars 2024– Data preconizată de începere a proiectului 1 martie 2024

Date prévue de fin du projet 20 decembre 2024 – Data preconizată de încheiere a proiectului 20 decembrie 2024

Eco-Neighbourhood in Târgu Mureş

2023 *Orase Durabile* laureate
"Big City" category



Goicovici Coralia

Professional Advisor to the Chief Architect's Office



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Primăria municipiului
Târgu Mureş
Marosvásárhely
Polgármesteri hivatala





ECO-NEIGHBOURHOOD IN TÂRGU MUREȘ. Urban regeneration project in the area of socialist housing blocks between B-dul. 1 Decembrie 1918, B-dul. Pandurilor, str. Secerei, str. Predeal, str. Moldovei, str. Busuiocului and the Pocloș stream.



Vision of the development strategy for the city of Târgu Mureș



- **A CITY FOR RESIDENTS**
 - IMPROVING RESIDENTS' QUALITY OF LIFE
 - IMPROVING THE QUALITY OF OUR BUILT AND NATURAL HERITAGE
- **A CITY FOR INVESTORS**
 - SUPPORTING AND PROMOTING THE BUSINESS ENVIRONMENT
- **A CITY FOR TOURISTS**
 - DEVELOPING AND PROMOTING CULTURAL, MEDICAL, UNIVERSITY, SPORTS AND LEISURE TOURISM.



Urban landscaping workshop „Curtea Oraşului”

- specialists from the local public administration
- experts (on a voluntary basis): architects, town planners, landscape architects, horticulturists, etc.
- representatives of owners' associations



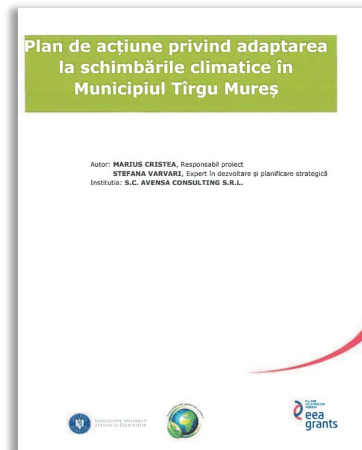
Curtea Oraşului

bătălia pentru revalorificarea spaţiului public

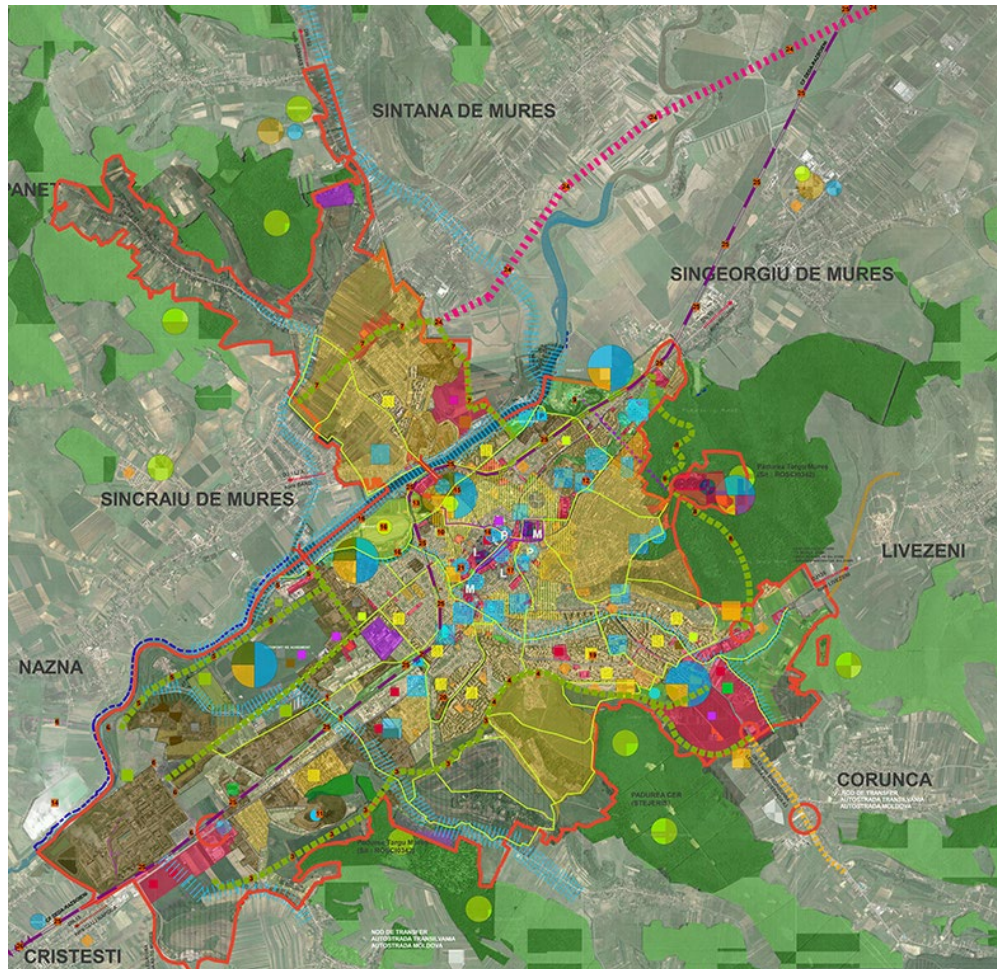


- **Climate change adaptation strategy of the municipality of Târgu Mureș**
- **Sustainable energy and climate action plan**

The climate change adaptation strategy for the municipality of Târgu Mureș and the climate change adaptation action plan were developed as part of the **pilot project "Calea Verde spre Dezvoltare Durabilă"** ("The Green Way to Sustainable Development"), funded by the *European Economic Area (EEA) Financial Mechanism 2009-2014 - EEA Grants Iceland, Liechtenstein, Norway*, in which our institution was a partner.



Framing the eco-neighbourhood project within local strategies and plans



The project is integrated into local and peri-urban development strategies and plans, and is the result of a long process that has paved the way for the realisation of an eco-neighbourhood project.

- Climate change adaptation strategy for the municipality of Târgu Mureș and sustainable energy and climate action plan (2016).
- Integrated urban development strategy (SIDU) for the municipality of Târgu Mureș in the metropolitan context - Horizon 2030 (2017, updated in 2022).
- Sustainable urban mobility plan (SUDMP) of the municipality of Târgu Mureș - Horizon 2030 (2017, updated in 2022)
- General urban plan of the municipality of Targu Mures (PUG 2022)
- Local register of green spaces (2018, updated in 2021)

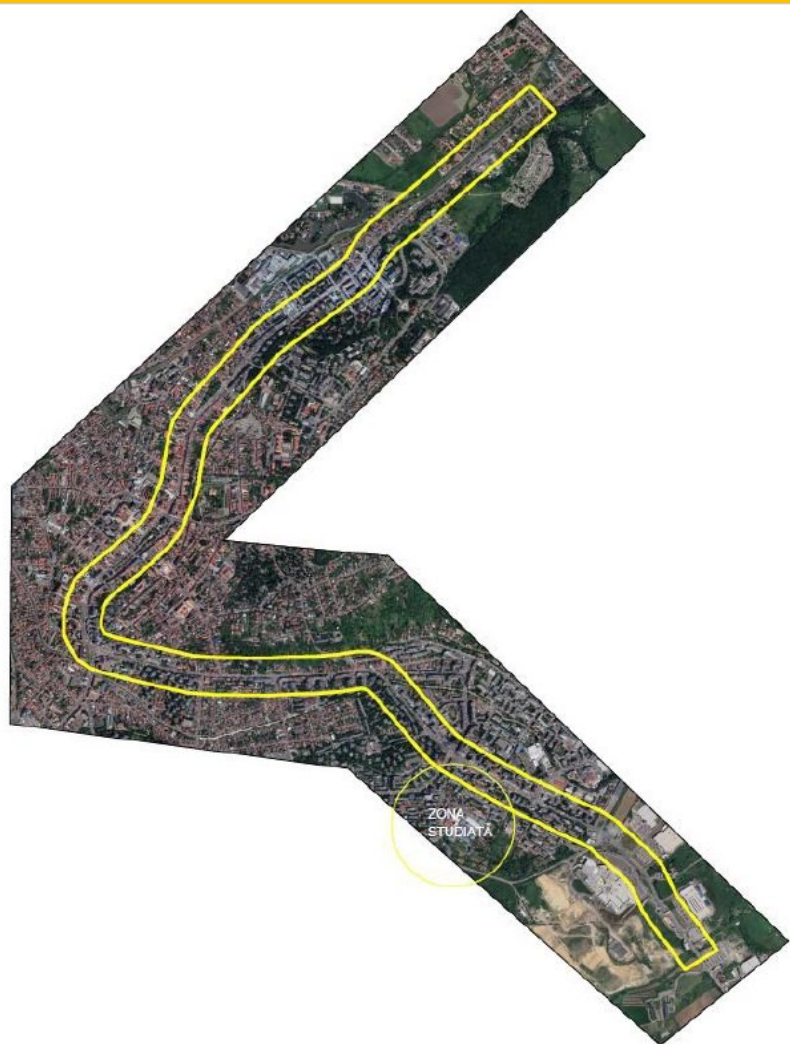
- ✓ **Complete modernisation of local public transport**
- ✓ **Dedicated lanes for public transport**
- ✓ **Creation of green corridors for urban mobility**
- ✓ **Creation of multi-storey car parks**
- ✓ **Development of public parks**

Current investment projects :

- 148 hybrid and electric buses
- 127 passenger shelters
- 1 bus and 4 traffic lanes
- Fleet management system
- Traffic management system
- Electronic ticketing
- 9 multi-storey car parks



- **Rehabilitation of the road infrastructure on cart. Tudor Vladimirescu - cart. 22 Decembrie 1989, serviced by public transport**



Multi-storey car park development project

- 440 parking spaces for cars and motorbikes
- green roof and circulating terraces with communal areas
- photovoltaic panels



✓ Description of the study area

- Generous green space
- Public space invaded by cars
- Educational, social and faith-based entities likely to be involved in the project: George Coșbuc secondary school, Alpha-Transylvanian foundation, 3 churches: Orthodox, Pentecostal and Adventist.
- Proximity of the Pocloș canal.
- Average to poor architectural quality
- Population with attitudes and habits related to lifestyle, leisure activities and perception of vulnerable social groups requiring improvement



The green spaces in the study area are included in the register of local green spaces.



The green spaces in the study area are included in the Local Register of Green Spaces approved by HCL No. 398/2018 and HCL No. 51/2021, thus falling within the scope of Law No. 24 of 15 January 2007 (**published**) on the regulation and management of green spaces in municipal urban areas.





ACTIVITĂȚI ÎN AER
LIBER

GRĂDINI
URBANE

VEGETAȚIE
ABUNDENTĂ

PEISAJ ATRACTIV

IZVOR

COEZIUNE SOCIALĂ

CREȘTEREA CALITĂȚII SPAȚIULUI
LOCUIT

CANALUL POCLOȘ

SPAȚIU PUBLIC
INVADAT DE MAȘINI

CLUBURI PENTRU
COPII, TINERI ȘI
VÂRSTNICI

ECO-NEIGHBOURHOOD IN TÂRGU MUREȘ. Urban regeneration project in the area of socialist housing blocks between B-dul 1 Decembrie 1918, B-dul Pandurilor, str. Secerei, str. Predeal, str. Moldovei, str. Busuiocului and the Pocloș stream.



Development guidelines



Main elements:

Maximising the potential of the landscape. Urban gardens. Inclusive spaces. Biodiversity.

- Involving residents in green space maintenance activities
- Areas not designated for ground and rooftop gardening
- Tools and planting materials made available by the municipality
- Compost produced from organic matter from green space maintenance activities
- Water sources for gardening: rainwater collected from building roofs and streets.
- Introduction of new animal species
- Creation of feeding areas for birds
- Involvement of the school in environmental education activities
- Redesigning social spaces and play areas to make them inclusive.

Development guidelines



Main elements:

Improving accessibility for all, with an emphasis on pedestrian travel, including disabled people, cycling, walking and public transport.

- Elimination of the main disruptive factor - parking on the ground - in conjunction with the construction of 2 or 3 multi-storey car parks in the area
- Reducing car traffic on the roads, returning them to pedestrians and cyclists
- Providing facilities for people with reduced mobility
- Reducing the space required for traffic
- Ensuring easy access for all to and within residential buildings, multi-storey car parks and the various facilities and services in the area: schools, kindergartens, playgrounds, parks, shopping centres, etc.
- Permeability of spaces occupied by car parks

Development guidelines



Main elements:

Increasing the quality of the interior space of residential apartments. Encouraging a sense of cohesion.

- One of the weakest points of the housing complex: the quality of the interior space - small spaces, high maintenance costs in the case of uninsulated blocks
- Creation of community kitchens on the terraces of collective housing buildings; contribution to increasing social cohesion
- Creation of storage areas on the terraces of blocks of flats
- Implementation of energy-efficient heating/cooling systems for apartments using biogas, ground source heat pumps, water/air or other renewable sources - further studies needed
- Continue to insulate residential buildings with more efficient and environmentally friendly materials

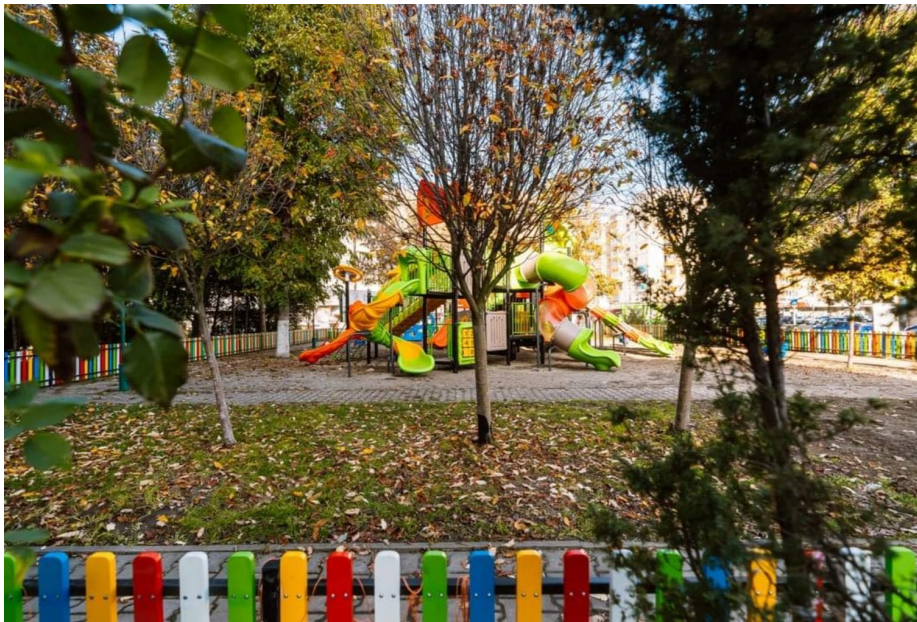
Development guidelines



Main elements:

Increase the offer of activities for children, young people and adults: clubs with educational activities: environmental, sports, arts, programming, etc.

- Positive effects on retaining and attracting young people to the area, decreasing out-commuting
- Possible locations: within the school premises, in the redeveloped space of the garages in the basement of the blocks, attached to the new multi-storey car park buildings,



Development guidelines



Main elements:

Involve educational, religious and social service entities in diversifying the community life of the area. Increase public awareness of the benefits of physical activity and social interaction

- Information, education and consultation of the population = key elements in the successful implementation of the project
- The contribution of outdoor movement and social interaction, as well as interaction with nature, for the improvement of the health and well-being of the inhabitants
- Involvement of entities in the area and in the city in the process of educating/informing the population, such as the Alpha Transylvanian Foundation - supporting people with disabilities, the George Coșbuc school, the Adventist church which has a tradition of promoting a healthy lifestyle, the university of medicine and pharmacy, the faculty of landscape architecture, NGOs and environmental, tourist-oriented, cycling communities, etc. active in the area

Actors involved

Municipality of Târgu Mureș:

- Chief Architect Directorate
- Public Service Public Domain Administration
- Technical Department
- Internationally Financed Projects Service
- Public Service Administration of Greenhouses, Parks and Green Spaces
- Schools Directorate
- Public Service for Nurseries Administration
- Directorate-General for Social Assistance
- Directorate for Social, Cultural, Heritage and Commercial Activities
- Local Police Directorate
- SC Local Transport S.A.
- R.A. Aquaserv



Actors involved

Feasibility study and technical design team - contracted through a public tender procedure:

- Architect
- Urban planner
- Landscape architect
- Biologist/environmental engineer
- Sociologist
- Economist
- Civil engineer
- Engineer specialising in installation engineering: thermal, plumbing, electrical, telecommunications, ventilation and air conditioning,
- CFDP specialist engineer



Actors involved

- Representatives of local residents, informal leaders
- Homeowners associations
- Public institutions - Apele Române, Mures Environmental Protection Agency, Traffic Police, etc.
- Environmental NGOs, for vulnerable groups, associations, clubs with various activities: sport, environment etc.
- Economic agents
- George Coşbuc Secondary School
- Local specialists and students: architects, urban planners, landscape architects, biologists, doctors
- Local universities: UMFST University of Medicine, Pharmacy, Sciences and Technology "George Emil Palade" of Targu Mures, Sapientia University - Faculty of Technical Sciences and Humanities Targu Mures



Contact information



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www.tirgumures.ro

VĂ MULȚUMIM PENTRU ATENȚIA ACORDATĂ!
THANK YOU FOR YOUR ATTENTION!

Inspiration - Demonstrators



Bruno Bessis

*Sustainable and international city advisor
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GOVERNEMENT

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A source of inspiration: the Eco-Village des Noés



Ideas to remember:

- The permanent integration of the constraints of the site to make them assets,
- Very strong governance and co-construction with citizens,
- political commitment,
- Numerous actions in favor of social integration and the development of short and local channels,
- Buildings with exemplary energy performance and a wood boiler room.

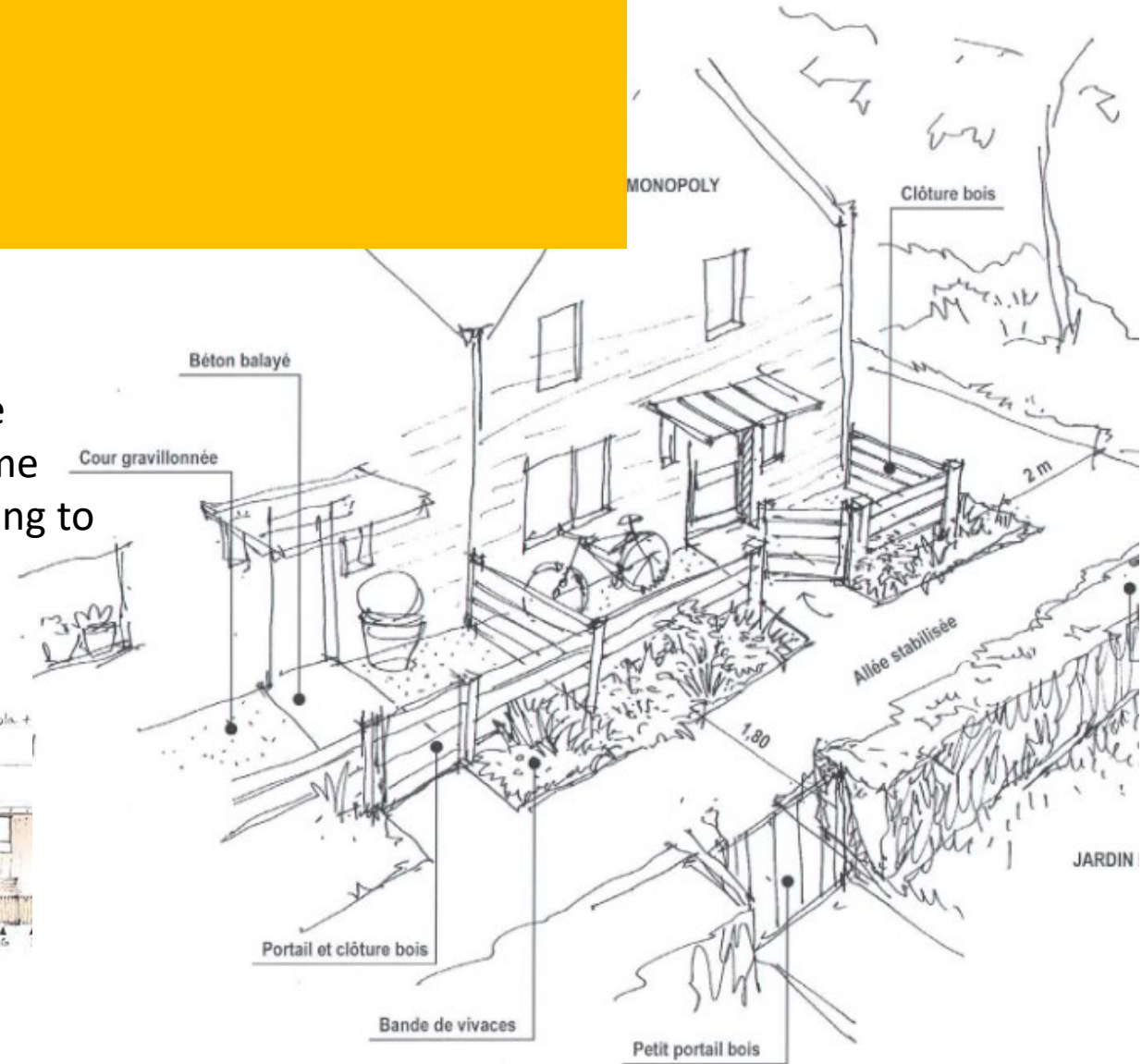
This exemplary ÉcoQuartier obtained the stage 4 label in 2021; this final stage of evaluation, which marks the end of the labeling process, has shown the exceptional quality of life that has been established in this district.



Annual monitoring of fauna and flora, coupled with flood management

In one sentence

The ÉcoQuartier des Noés offers a new way of living based on the ancestral experience of social life and makes it possible to welcome young households, households with modest incomes by responding to the values of a sustainable city.



Contact us / Find out more



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<https://www.ecologie.gouv.fr/demarche-ecoquartier>
<http://www.ecoquartiers.logement.gouv.fr/>

Inspiration - Demonstrators



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GOVERNEMENT

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A source of inspiration : Ecodistrict Clichy Batignolles



Ideas to remember:

- Energy efficiency with buildings designed to be low-energy and low-carbon
- Biodiversity and a reduction in greenhouse gas emissions
- Mobility and transport
- functional and social mix (housing, tertiary and productive activities)
- Implementing alternative water management and revegetation
- Governance and citizen participation

Following an assessment process in which Paris et Métropole Aménagement has been involved with the Clichy Batignolles operation since 2014, the French Ministry for an ecological Transition and a Territorial Cohesion awarded it the EcoQuartier - Stage 4 label on February 2020. This latest stage of certification makes the Clichy-Batignolles district an example of sustainable development.



Biodiversity water and climate : encourage the natural water cycle

In one sentence

Following an assessment process in which Paris et Métropole Aménagement have been involved with the Clichy Batignolles operation since 2014, the French Ministry for an Ecological Transition and Territorial Cohesion awarded it the EcoQuartier - Stage 4 label in February 2020. This latest stage of certification makes the Clichy-Batignolles district an example of sustainable development.



Contact us / Find out more

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Inspiration & demonstrators



EcoDistrict of Volonne

Anne Vial
M. Architect and M. Engineer
Project Director for Sustainable Districts



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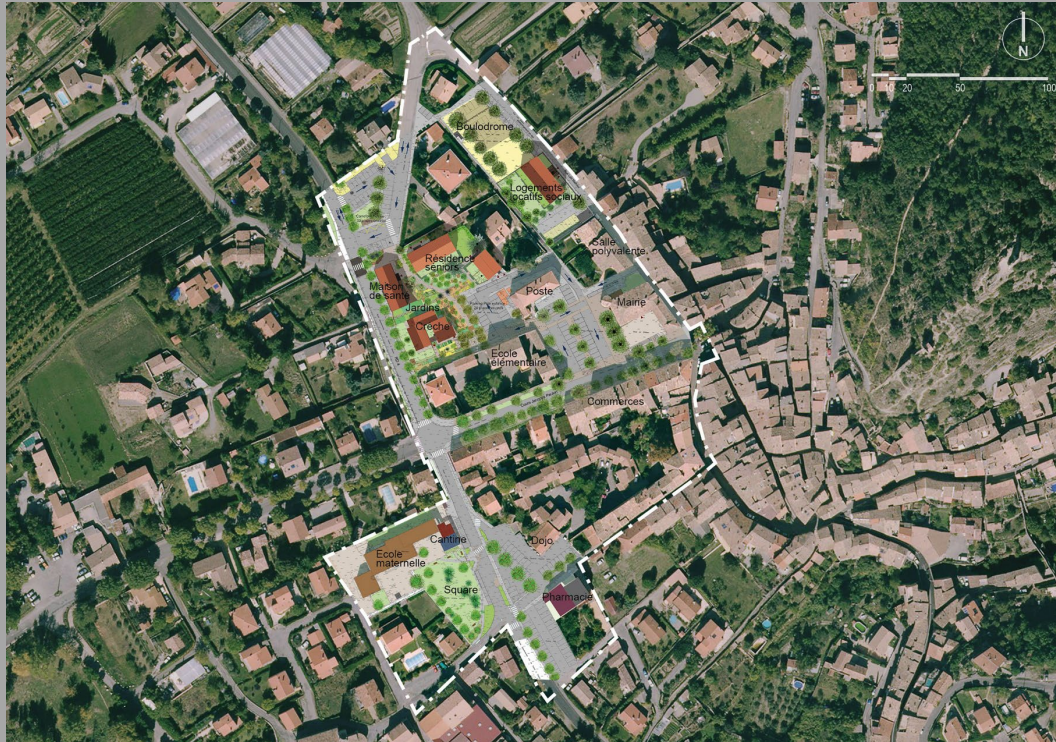


<https://www.cerema.fr/en>



CLIMATE & REGIONS, THE FUTURE

A source of inspiration: EcoDistrict of Volonne



Key points:

- A village of **1 700 inhabitants** in the South part of the Alps (known as the « Haute-Alpes Region »)
- An **urban renewal project** carried out in continuity with the historic fabric and on vacant plots in the **village center**, the **heart of social life**.
- **Essential public facilities** (health, early childhood nursery), **local shops** and cultural and sports facilities
- Heating powered by **renewable energy**
- **Public spaces** redesigned and redeveloped to be **quieter, greener and more inclusive** to meet **needs for all**
- A new offer of **housing for elderly**

This exemplary EcoDistrict obtained **the stage 4 label in 2022**; the last evaluation stage which marks the end of the labeling process.

It demonstrated the **exceptional quality of life** that has been established and the **strengthening of the town center**.



Aerial view of Volonne with the Ecodistrict in the foreground

In one sentence!

« A new dynamic for the heart of the village, a renewed attractiveness, redesigned spaces for all, a strong commitment to **ecological transition, climate resilience and circular economy** make this village both a precursor and an inspiration. »



Contact us / Find out more



Cerema
CLIMATE & REGIONS, THE FUTURE

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To go further

<https://www.dailymotion.com/video/k7CKKBsxuh0qokyFSK7>

<http://www.ecoquartiers.logement.gouv.fr/>

<https://www.cerema.fr/en>

<https://www.cerema.fr/fr/actualites/renouvellement-demarche-ecoquartier-cerema-accompagne>

<https://www.cerema.fr/fr/centre-ressources/boutique/ecoquartiers-quels-enseignements>

https://www.expertises-territoires.fr/jcms/pl1_69097/fr/replay-du-ccq-15-ecoquartier-du-centre-bourg-de-volonne-04



Urban Renewal of Les Mureaux : Case of Molière eco-district



ANRU
Agence Nationale
pour la Rénovation
Urbaine

Laïla Haddag

French National Agency for Urban Renewal – ANRU



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City of Les Mureaux in the 1990s



In 2017

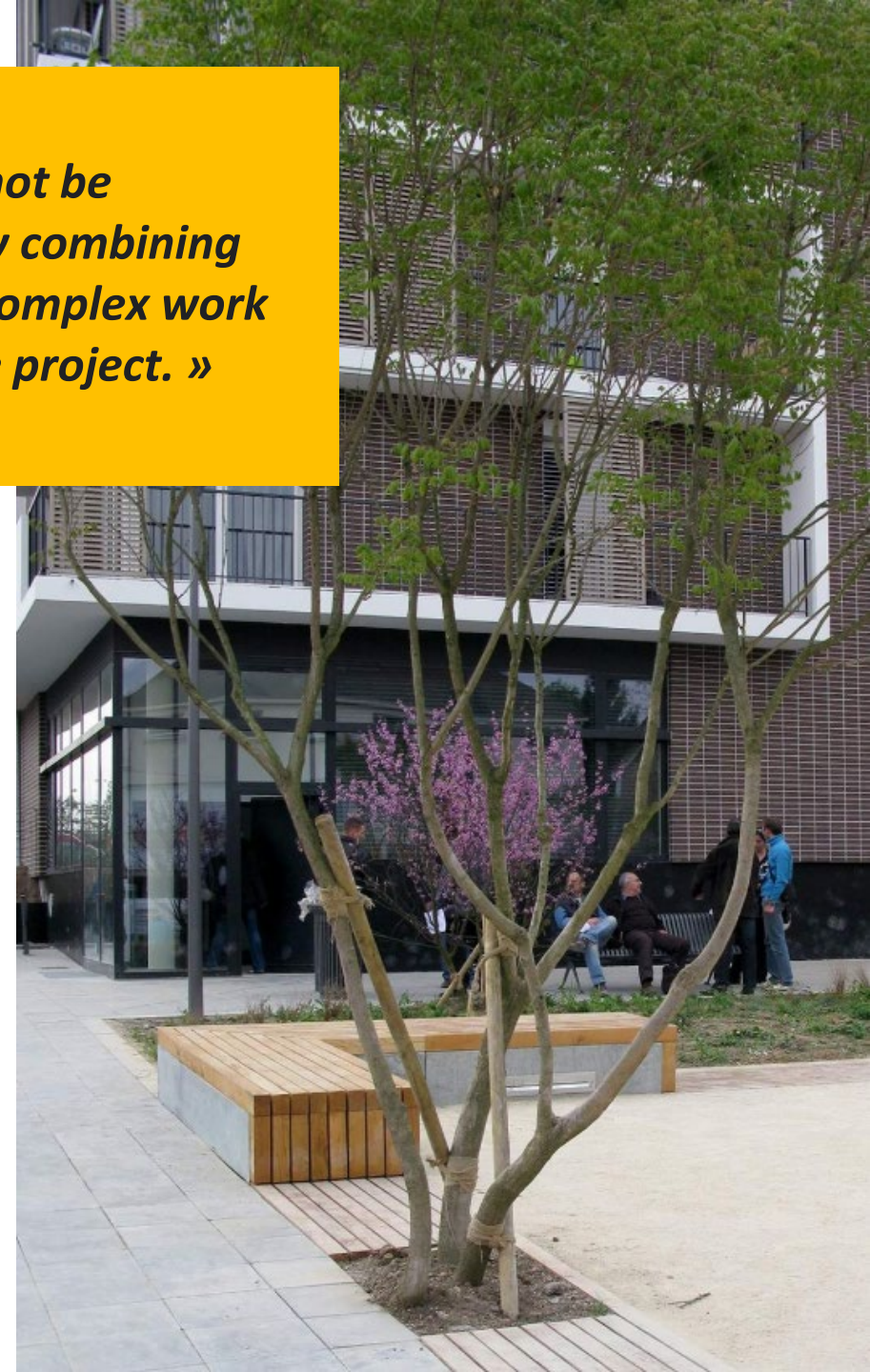
Rehabilitation of *Molière* eco-district supported by ANRU national programs



- An “Éco-quartier” label was **created by the State of France in 2009**. More than **800 Éco-Quartiers supported by ANRU** are currently certified. Nearly 300 projects are already completed or underway
- **A project in 7 districts** : 70 ha, 15 000 inhabitants, nearly half of the city's inhabitants.
- Support the **transformation of these neighborhoods** in order to give them a **new attractiveness**
- First reflections started **more than 15 years ago**, continued gradually with the operational implementation with as a high point in 2017 : the installation of Molière park
- **The development of a guide plan** combining the challenges in terms of development in particular on the non-existent public space then
- **More than 400 million euros of investment** were necessary thanks to an agreement signed in 2006 with the ANRU and the city's partners, including donors, so that the metamorphosis could take place.

A global project : « In Les Mureaux, the urban renewal project could not be dissociated from a larger project whose principle is to rebuild a city by combining in the same intensity all its urban parts then still too disjointed. This complex work requires conviction of what the city should be and the ambition of the project. »

- **A global project** thanks to: the restructuring of public spaces, the diversification of the housing offer, the creation of quality local facilities with a view to sustainable urban development.
- **The watercourse has been resurfaced and now visible in the landscape**, with gardens, tree-lined streets, squares, alleys, islands of freshness.
- **100 M€ of energy saved per year**, 50% is the progress in terms of energy savings, 75% is the average energy benefit
- **The much stigmatised and segregated southern districts of Les Mureaux** becomed now an attractive eco quartier.





Contact us

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Renewal – ANRU, contact :**
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City of Les Mureaux, contact :
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& Learn more

**French Ministry of Ecological
Transition :**
<http://www.ecoquartiers.logement.gouv.fr/operation/1834/>

Networking Break



FOCUS 1

Land use and urban planning

Civic engagement for the revitalisation of spaces and community development



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<https://valeajiuluiimplicata.org/>



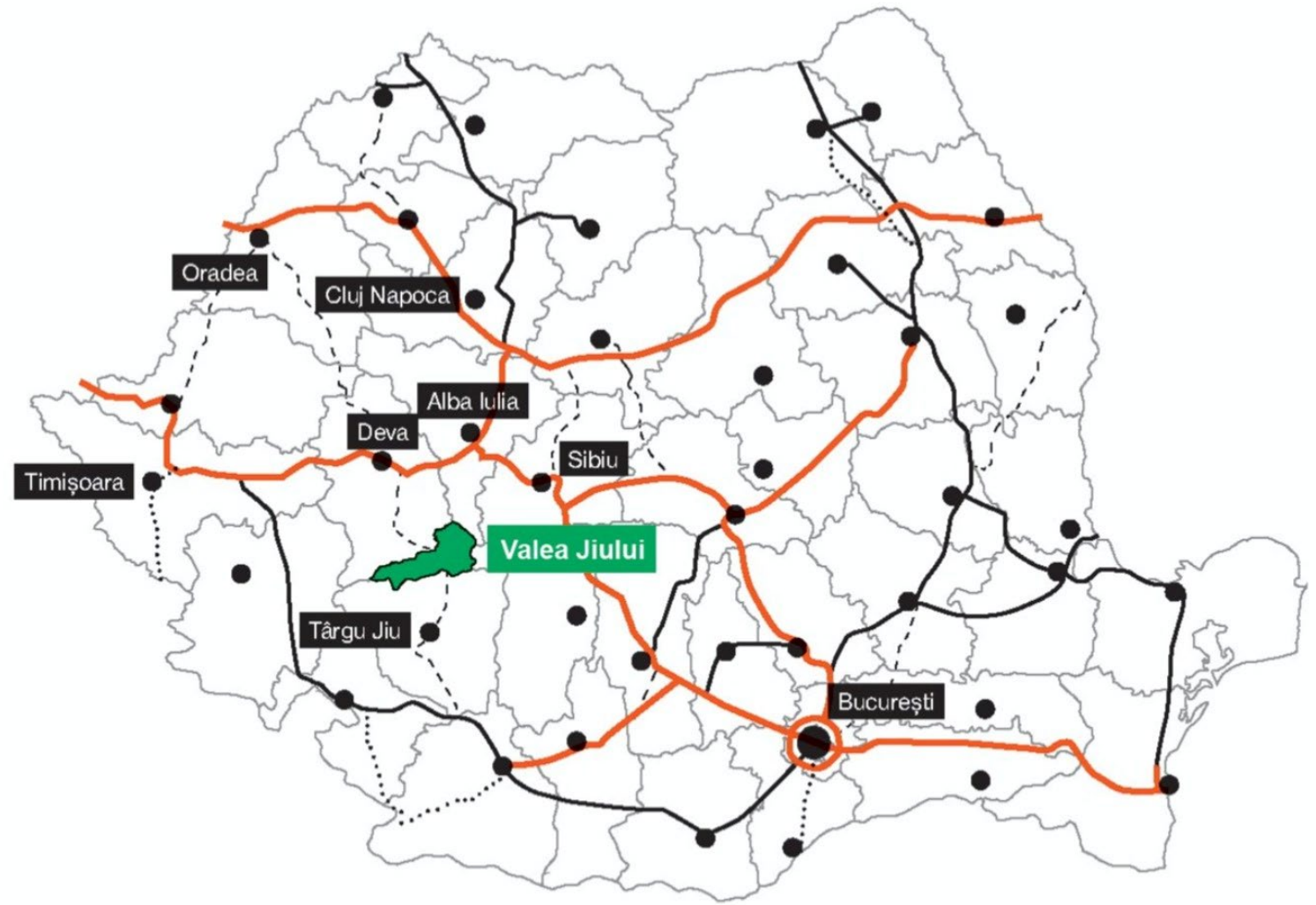
Valea Jiului Society



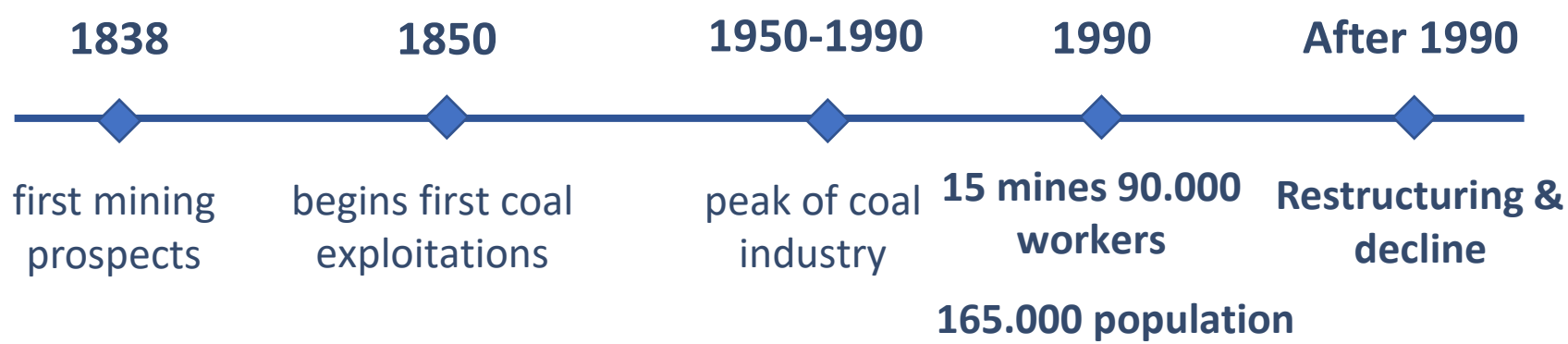
Valea Jiului
Implicată

The Jiu Valley and just transition: civic involvement for the revitalization of spaces and community development
23 June 2023, Bucharest.

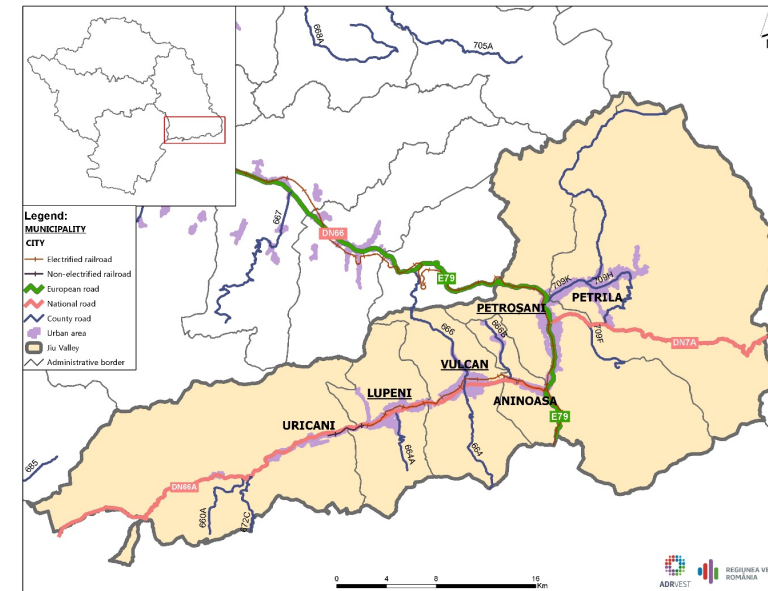
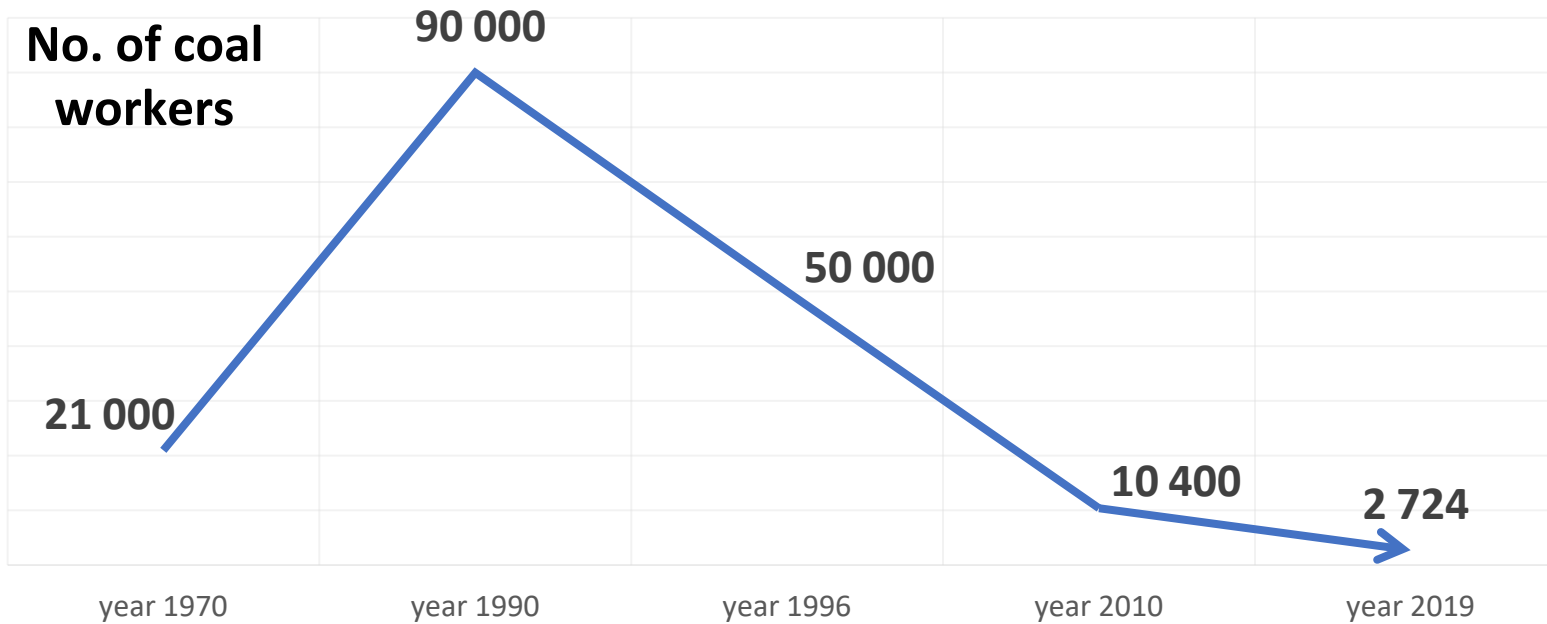
Jiu Valley, location



Jiu Valley, by years



- TODAY**
- 6 urban centres
 - around **100.000** inhabitants
 - **45.000** available workforce



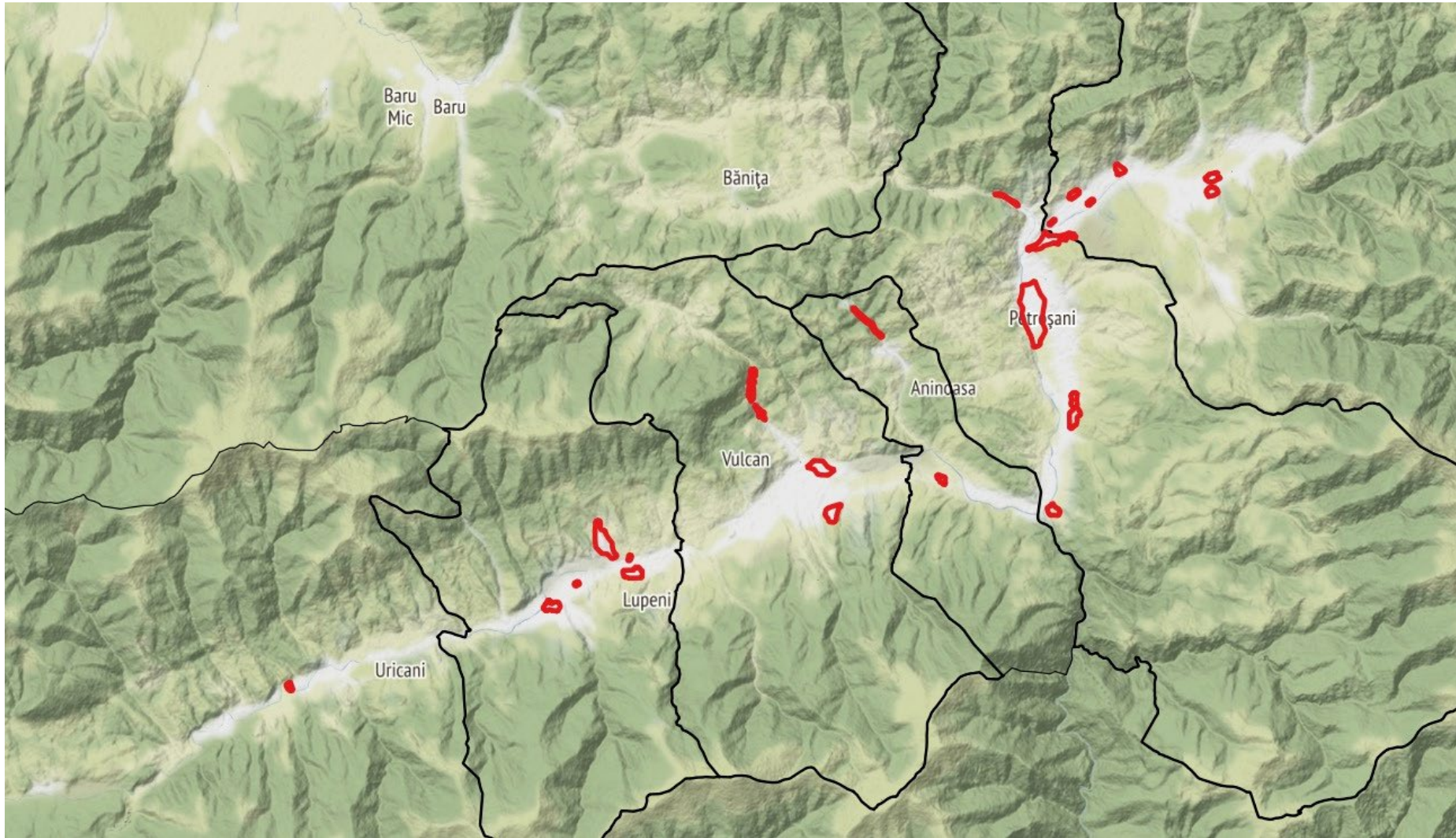
Jiu Valley, in the past



Jiu Valley, today



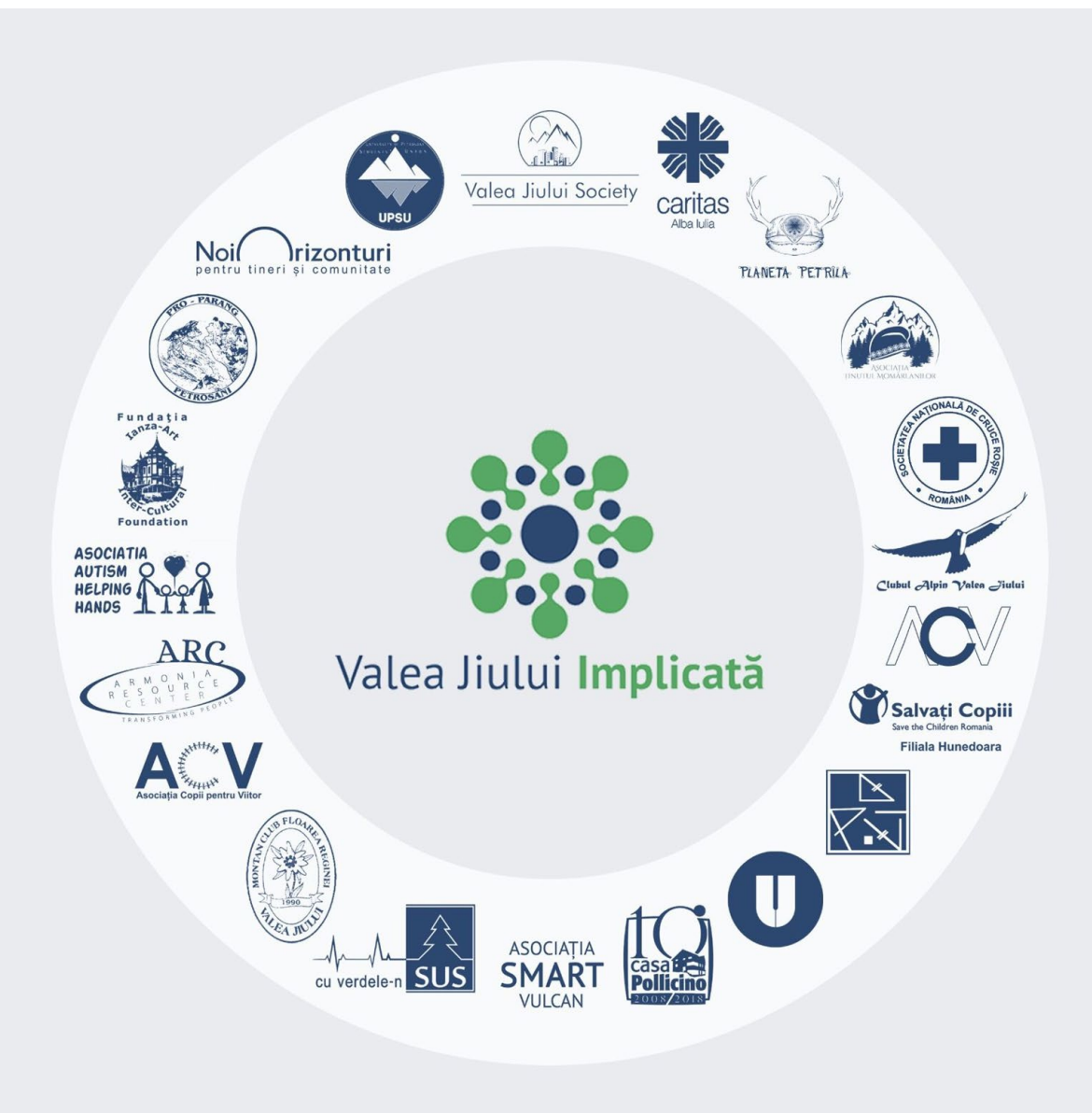
Jiu Valley: 17% of the population lives in marginalized areas



"Cel mai frumos loc din lume"



Valea Jiului Implicată



a Coalition made up of 25 NGOs

offers a cooperation and organizational framework for the non-governmental organizations and civic groups active in the Jiu Valley, with the aim of having a significant contribution to the economic, social, and cultural development of the region

www.valeajiuluiimplicata.org

Valea Jiului Implicată



vivre
les
cultures



Valea Jiului Society

Noi  Orizonturi
pentru tineri și comunitate



PLANETA PETRUȚA



caritas
Alba Iulia



cu verdele-n



Valea Jiului Implicată

coaliția societății civile din Valea Jiului

consolidarea societății civile | promovarea
principiilor de bună practică în dezvoltarea
durabilă | promovarea colaborării dintre
societatea civilă și autoritățile publice, mediul
privat și mediul academic



Clubul Alpin Valea Jiului



Salvați Copiii
Save the Children Romania



Filiała Hunedoara



Fundația
Tanza-Art
Inter-Cultural
Foundation



ASOCIATIA
AUTISM
HELPING
HANDS



Valea Jiului Implicată: lansare & trainings



INSTITUT
FRANÇAIS
Roumanie

vivre
les
cultures

Valea Jiului Implicată 2020



Dezvoltăm Valea Jiului pentru următoarele generații!

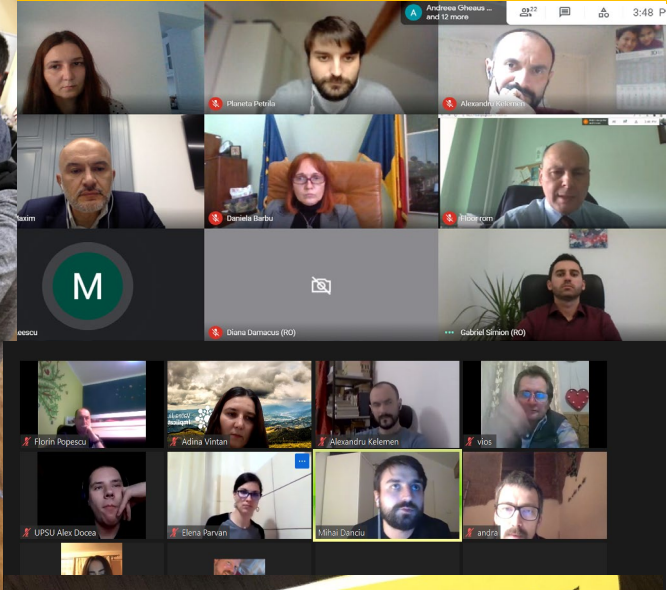


WE CAN DO MORE
#fromHOME

#HANDBYHAND
#FAMILYFIGHTSTOGETHER



Valea Jiului Society
Cum credeți că am putea promova mai mult guvernarea participativă în orașe, astfel încât autoritățile chiar să fie obligate să ne ia în seamă, chiar și cele mai puțin deschise către societatea civilă?



Engaging citizens and building a community



consultare #1
irlo/nom & seniori



Valea Jiului
Implicată

GREENPEACE



Valea Jiului
implicată

Coaliția societății civile
din Valea Jiului



Loja Oficială
NeOficială

CURAND VETI...
A TREIA CEE
NICI PRAI PRA
NICI FORTA PUNTE



Revitalising brownfield sites through art and culture

Valea Jiului Vibrantă 2022



Valea Jiului Vibrantă 2022



Transformative Action Award 2022



Revitalising brownfield sites through art and culture

Valea Jiului Vibrantă 2023



Valea Jiului

Vibrantă

Valea Jiului Vibrantă 2023



Valea Jiului

Vibrantă

Revitalising communities through arts and culture



Revitalising communities through arts and culture



Revitalising communities through involvement



Revitalising former industrial sites through art and culture



Revitalising public spaces through art and culture



Revitalising former industrial sites through art and culture



Revitalising industrial sites through art and culture



Collaboration and support



JIU VALLEY AND JIU CONURBATION FUNCTIONAL AREA

N

SURFACE AREA:
19 905,76 km²

POPULATION:
1 690 708 people

ADMINISTRATIVE UNITS:
6 local administrative units, 3 county councils

GOVERNING IDENTITY:
ADTI VJ, county councils of Hunedoara, Gorj & Dolj

0 5 10 20 30 40 Kilometers

Congratulations!
Six beneficiaries of technical assistance

Västerbotten

Lódzkie

Karlovy Vary

Hunedoara, Gorj & Dolj

Vidzeme & Latgale

06:55

Guidehouse Outwit Complexity

European Commission

4

WE ARE PART OF THE PROJECT

FUNCTIONAL AREAS IN THE EU

JOIN THE JOURNEY. ALONE YOU GO QUICK, TOGETHER WE GO FAR.
VISIT THE WEBSITE AND ACCESS USEFUL SOLUTIONS!

www.functionalareas.eu



Citizen involvement is key!





Merci beaucoup!
Mulțumim!
Thank you!



<https://valeajiuluiimplicata.org/>



<https://www.facebook.com/ValeaJiuluiSociety>



adina.vintan@gmail.com



Christophe Degruelle

Agglopolys Blois President

VP France Ville Durable



contact@francevilledurable.fr



<https://www.agglopolys.fr/>

<https://francevilledurable.fr/>





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Project manager for sustainable cities



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www.ecologie.gouv.fr

www.cohesion-territoires.gouv.fr



GOVERNEMENT

*Liberté
Égalité
Fraternité*



Wasteland fund

Fonds friches - France

Relance

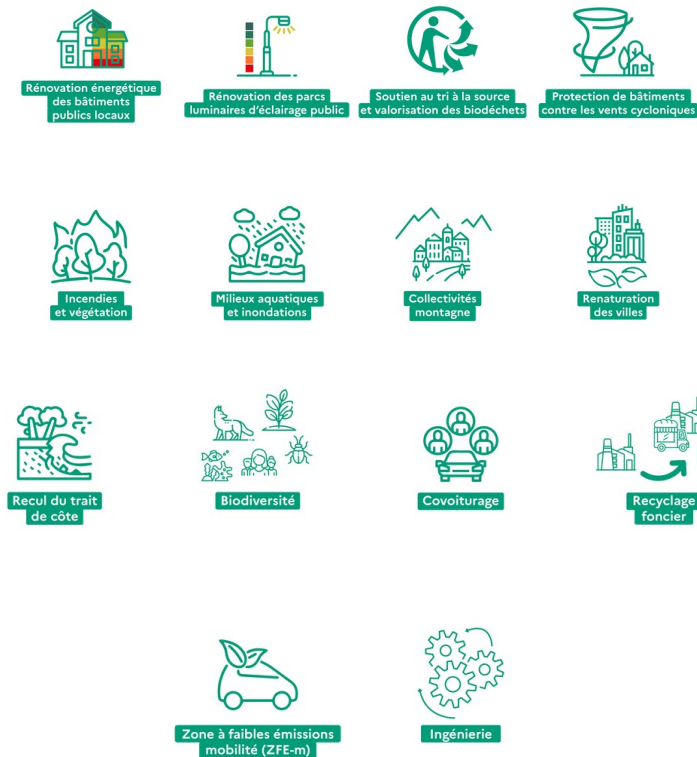


Ideas to remember:

- A major challenge for sustainable land use planning to meet the objectives of controlling urban sprawl, urban revitalisation and limiting the consumption of natural, agricultural and forest areas
- A major land resource for the mobilisation and development of the "zero net artificialisation" (ZAN) trajectory of the Climate and Resilience law
- Potential for 37,000 social housing units, 64,000 free housing units on derelict areas, approximately 5,600,000 m² of economic space
- Finance : two programs (300 M€ and 350 M€)
- More than 1000 winners



Fonds Vert Green Fund



Ideas to remember:

- A fund to accelerate the ecological transition in the regions
- 2 billion euros in decentralized funding to support projects of local authorities and their public and private partners
- 3 axes for 13 measures
 - environmental performance
 - adapting to climate change
 - improving the quality of lifeprojects at different stages of maturity, support for diagnosis, engineering

Contact us / Find out more

 djamila.ioualalen-colleu@developpement-durable.gouv.fr

 www.ecologie.gouv.fr
www.cohesion-territoires.gouv.fr

Land use and urban planning



Reduction of land consumption towards net zero land artificialization: What issues and what tools ?

Anne Vial

M. Architect and M. Engineer

Project Director for Sustainable Districts



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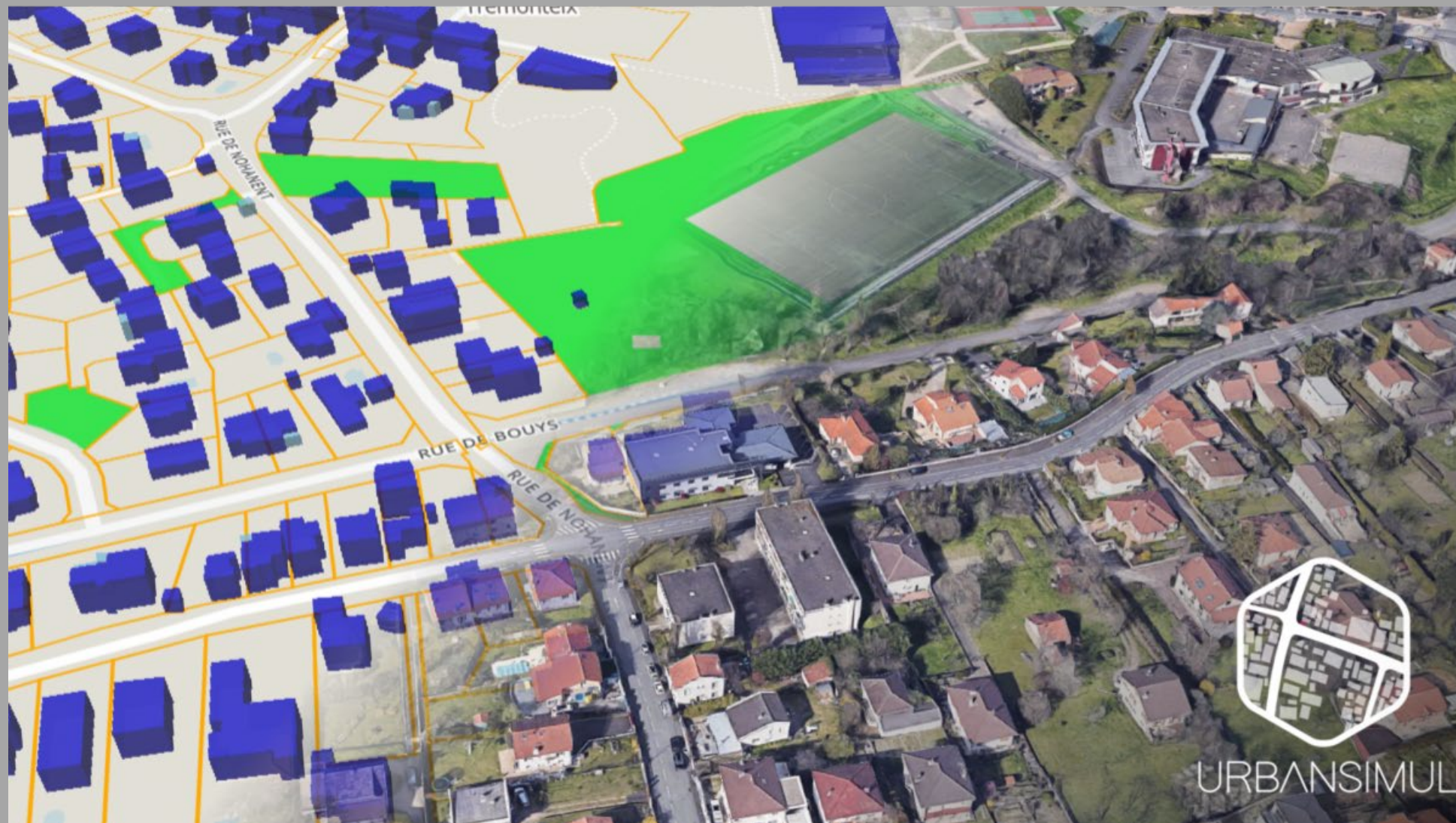


<https://www.cerema.fr/en>



CLIMATE & REGIONS, THE FUTURE



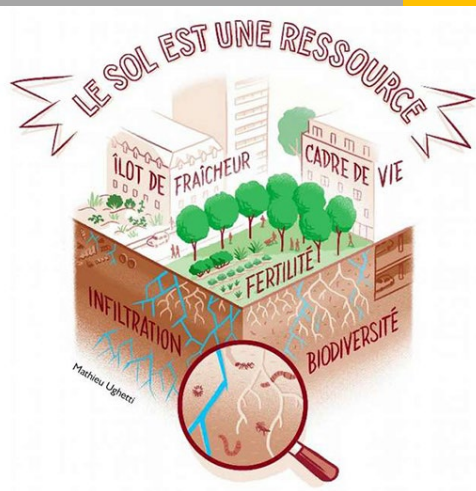
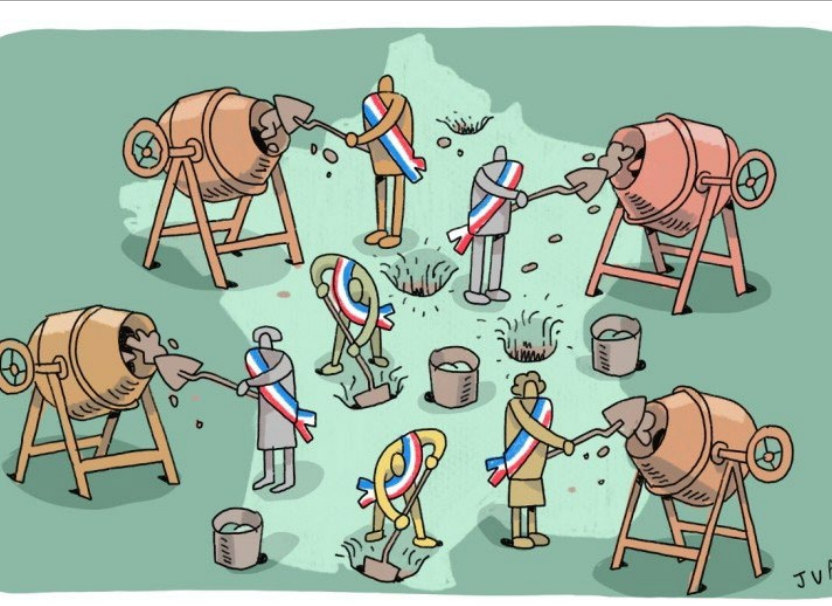


UrbanSIMUL, a tool to monitor and analyse land resources in France



Reduction of land consumption towards « net zero land artificialization »: what issues and what tools ?

1/ Net zero land artificialisation : how to think differently urban fabric ?



Key ideas to remember:

- Large scale land consumption in France since the 1970's as a result of urbanisation trends and patterns and leading to major environmental degradation
- The Law for Climate and Resilience calls for dividing by 2 the land consumption within 10 years, with the objective to reach « net zero land artificialisation » by 2050
- Aiming to reduce urbanisation on greenfield areas to limit urban sprawl and prevent resources depletion, soil degradation, fragmentation of ecological sensitive-areas and increase of impervious areas
- 3 drivers: promote urban densification, re-use and build on underdeveloped wasteland (brownfield development), redevelop natural areas to compensate artificialization

Reduction of land consumption towards « net zero land artificialization »: what issues and what tools ?

2/ National programs to finance, test and support



Ideas to remember:

- **National programs** (such as « Actions for Heart of Cities » and « Small towns of tomorrow ») to encourage the **revitalisation of town centres** in medium-sized cities and rural areas
 - Mobilisation of **dedicated funds and financial support** targeting brownfield development
 - « Demonstrators of Pilot Territories & Cities for reduction of land consumption » : an **innovative approach** part of a national program to support local authorities in their strategy and test it through operational projects
- > *Example of Dreux*

Reduction of land consumption towards « net zero land artificialization »: what issues and what tools ?

3/ Cerema's tools to improve knowledge and support local authorities



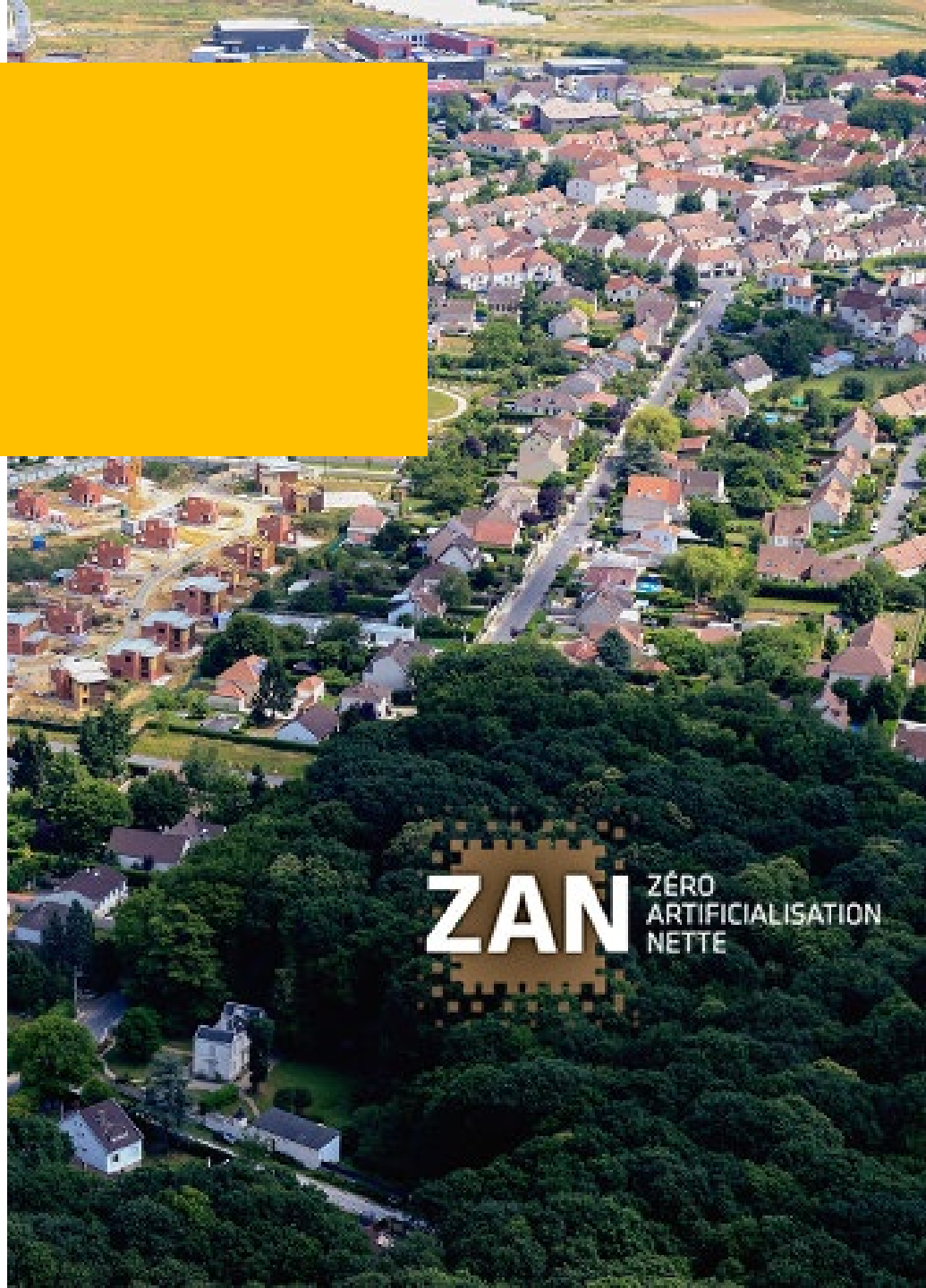
Ideas to remember:

- Support for densification through knowledge of the territory and the search for land resources: **Urbansimul**, an open source data visualisation tool **identifying land resources** in France
- **Cartofriches**: a tool **identifying wasteland / areas** for brownfield development
- **Urbanvitaliz**: a digital public service to guide local authorities in **rehabilitating their brownfield sites**

-> Cerema's experts to **help local authorities** using these tools

In one sentence!

« Raise awareness and design tools for elected representatives, public authorities, experts and citizens on the issue of « net zero artificialization » and **demonstrate that more environmentally-friendly alternatives are possible for urban projects.** »



Contact us / Find out more



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To go further

<https://www.cerema.fr/en>

<https://www.cerema.fr/en/actualites/cerema-and-inra-bring-you-urbansimul-collaborative-tool-land>

<https://www.cerema.fr/en/actualites/satellite-images-mapping-urban-heat-islands>

<https://www.cerema.fr/en/actualites/evaluer-impact-projets-amenagement-consommations-GES>



https://www.expertises-territoires.fr/jcms/pl1_17945/fr/urbansimul-national



Land use and urban planning



Reduction of land consumption towards net zero land artificialization: What issues and what tools ?

Carla Doncescu

Project officer - International



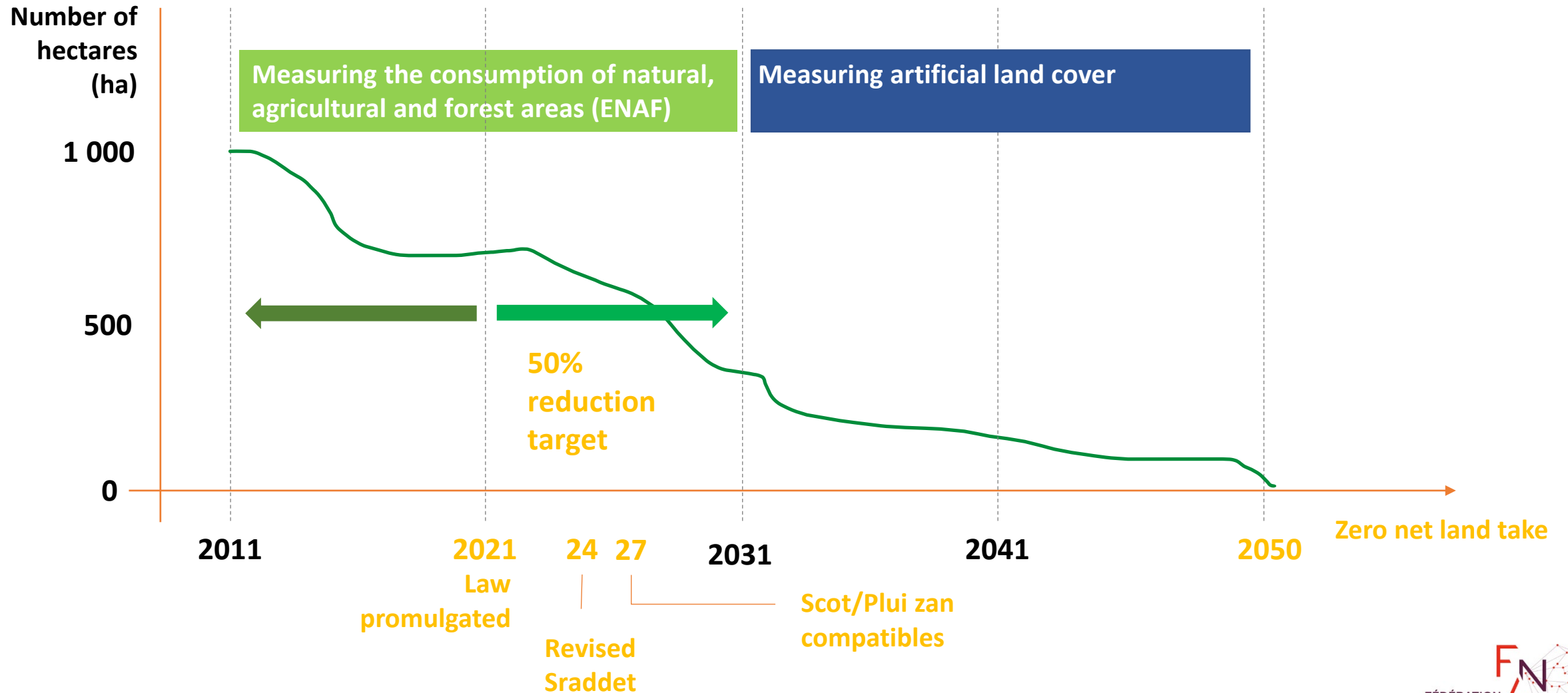
doncescu@fnau.org



<https://www.fnau.org/en/homepage/>



FROM CONSUMPTION TO ARTIFICIALISATION



(Regional Spatial Planning, Sustainable Development and Equality Scheme)

Land use and urban planning



The urban planning agencies have implemented several strategies to avoid, reduce and compensate for land artificialization:

- **Smart urban intensification** : better use of existing buildings – [Agence de Lille, Adulm - Concilier densité urbaine et qualité de vie.](#)
- **Mobilising land reserves and vacant spaces** – Urba 4 - [Brownfield site and 2°C paths](#)
- **Nature in Town/ Renaturation** - [How can school playgrounds be renaturalized?](#) - [Agence d'Avignon, Aurav](#)

Tools :

- **Land observatory** – [Develop a nationally shared land use and occupancy database – AUDEUPa](#)
- **Territorial planning** - integrating sufficient land-use objectives
- **Legislative process**

« Avoid - Reduce – Compensate »

Brakes:

- Resistance to change & diverging interests
- Financial costs

Levers:

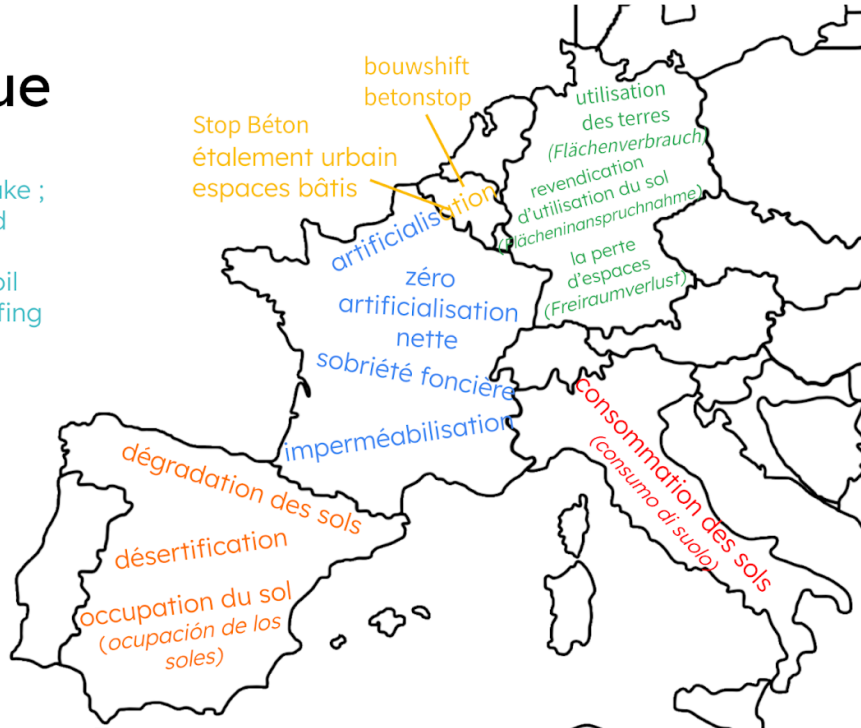
- Multi-stakeholder and cross-sector collaboration – [A multi-partner exchange platform – AUDAp](#)
- Awareness and communication – [Un cycle d'atelier pour fédérer l'action – IPR](#)
- Monitoring and assessment



Reaching zero net land take: a comparative study of soil protection policies within the EU

Lexique

UE: land take ;
no net land
take ; soil
sealing ; soil
waterproofing



Glossary : <https://docs.google.com/document/d/1HZmAWL--1EeY5ca8419e1BvWMIeZ1rez7NKVRTYA/edit>

- **France:** national law and soil quality approach
- **Belgium:** no national law but by region - Stop beton - soil quality approach
- **Italy:** no national law but by region - soil consumption - observatory with detailed, quality data
- **Germany:** renaturation and compensation strategies
- **Spain:** no national law- soil desertification - issue not really developed

Multumesc !

Carla Doncescu, Project officer - International

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- Website: www.fnau.org
- LinkedIn: @Fnau

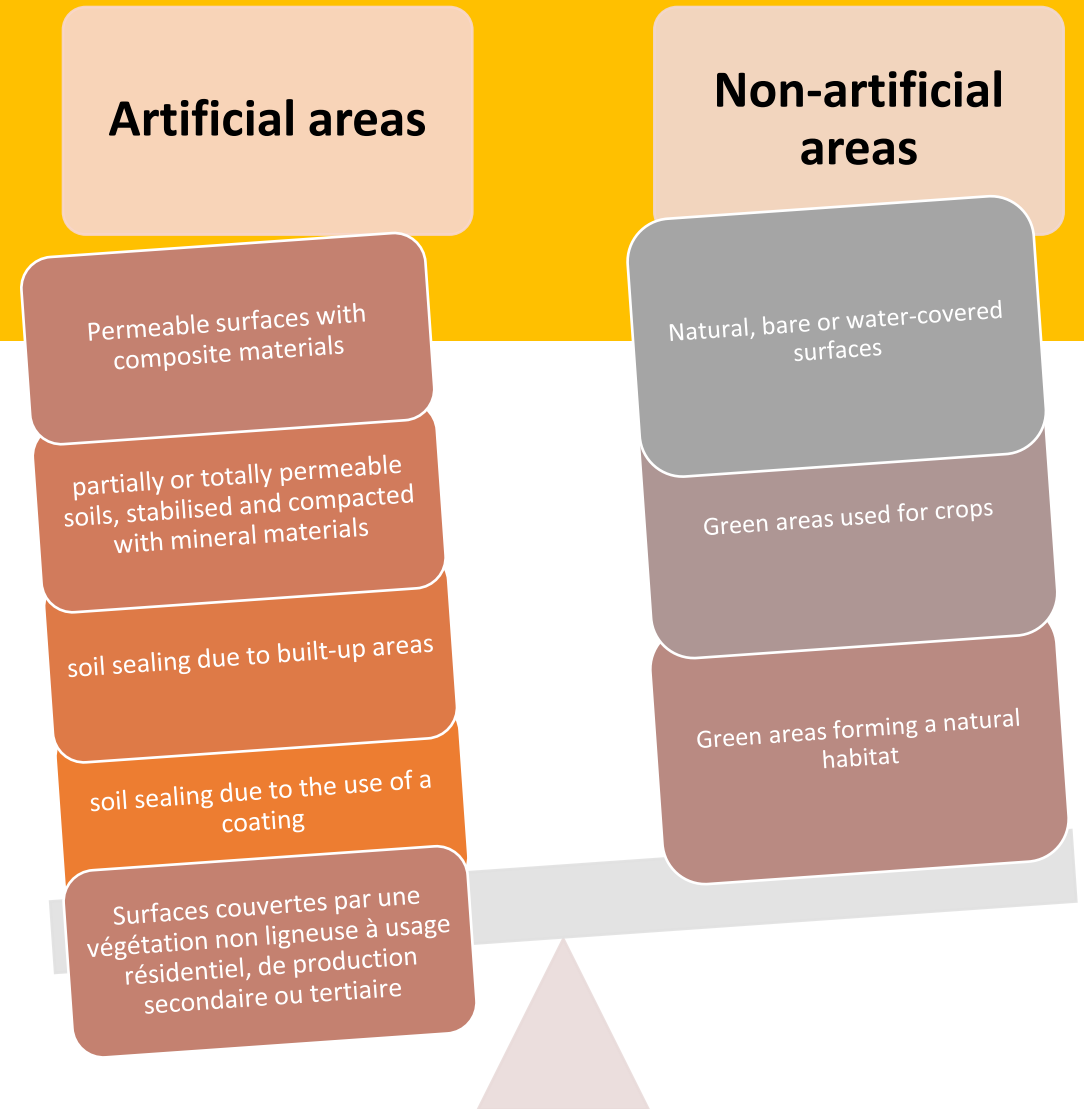
APPENDIX



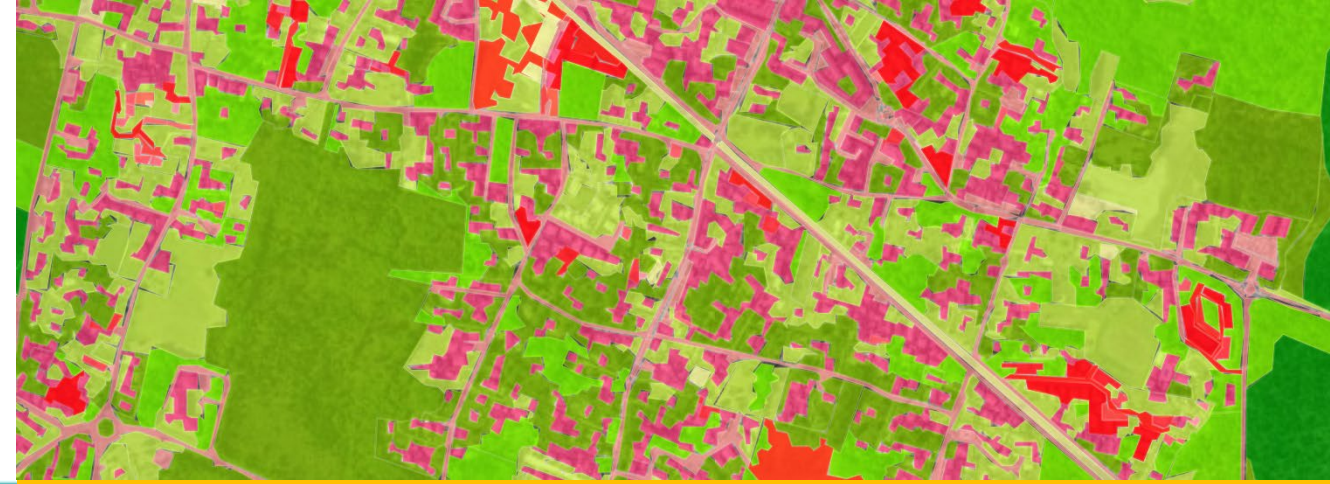
Appendix - Definition leading to implementation of the Avoid - Reduce - Compensate sequence

- **Net artificialisation** is defined as the balance between artificialisation and renaturation within a given area and over a given period.
- **Compensation** is implemented in the renaturation zones identified.
- **Soil renaturation or desartificialisation** consists of operations to re-establish or improve the functionality of a soil, with the effect of transforming an artificialised soil into a non-artificialised soil.

Differentiation of areas based on a nomenclature defined by decree but not yet stabilised



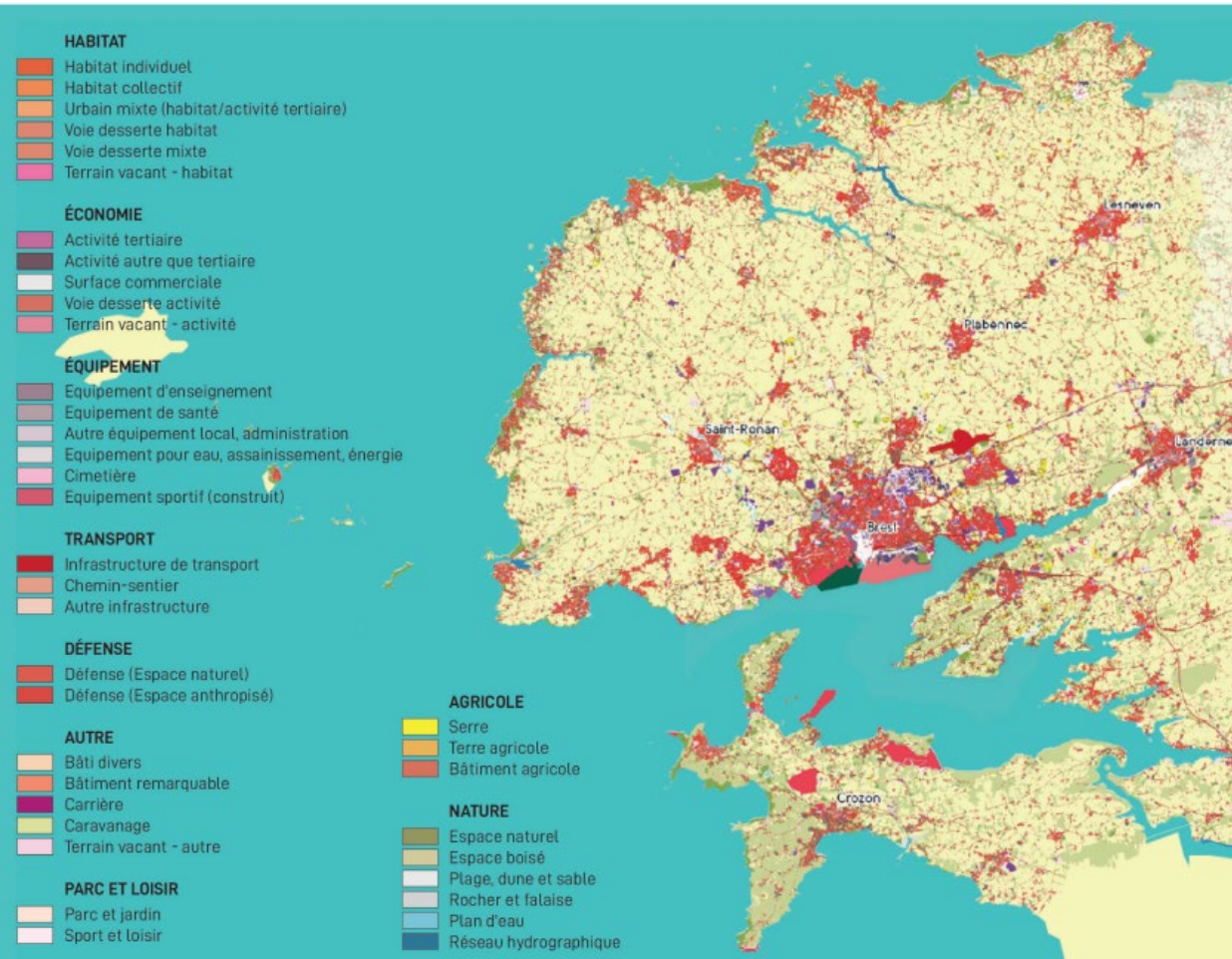
Appendix 1 - Develop a land use and occupancy database - ADEUPa



- A land observation tool based on a digital land inventory and several available national reference systems, cross-referenced with available public data.

The MOS provides an objective, shared vision of the consumption of space.

- The compilation of this data makes it possible
 - To produce a precise and detailed nomenclature of land use
 - To measure and locate the surface areas allocated to housing, the economy, infrastructure, leisure activities, nature, etc.



Appendix 2 - A multi-partner exchange platform - AUDAP

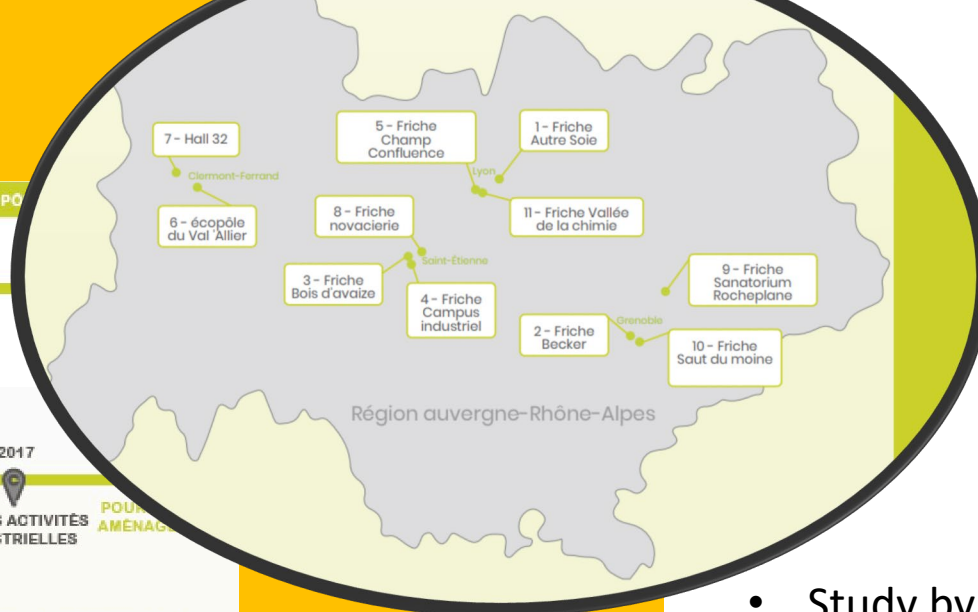


Discussion platform with various options (workshops, fieldwork, external speakers, etc.)

Aim: to define (net) artificialisation, draw on local experiences and identify the levers and obstacles to a common roadmap.

- Tackle the issue through the prism of soil quality rather than quantity
- Move away from the "expert" debate and share more effectively with all the stakeholders involved in development.
- A common roadmap to be applied as closely as possible to each region.

Appendix 3 - Brownfield site and 2°C paths – Urba4



FICHE PROJET ÉCOPO

TIMELINE PROJET

1996 : Début des réflexions sur le site : 1996
 à partir de 2001 : Aménagement partiel du site
 2017 : Fin des activités industrielles
 2020 : poursuite des aménagements

AVANCEMENT DU PROJET



Site web éco-pôle / LPO - L. Tailland 2018

site web éco-pôle / C. Giraud
 Les hauts fonds après renaturation

MORPHOLOGIE URBAINE

Le site de l'éco-pôle se développe sur d'anciennes gravières en bord d'Allier. Il constitue aujourd'hui un maillon important de la trame verte et bleue du Val d'Allier. c'est un espace renaturé sur le quel la biodiversité retrouve sa place.

Situé à proximité de l'agglomération clermontoise, le site est desservi par les Transports en Communs et accessible par la via Allier (vélo route).

PERFORMANCES ÉNERGÉTIQUES ET GESTION DES RESSOURCES

En complément d'une gestion de la qualité de l'eau, diverses initiatives d'économie circulaire sont mise en oeuvre sur le site, avec notamment de l'éco-pâturage et du maraichage biologique.

NEUTRALITÉ CARBONE

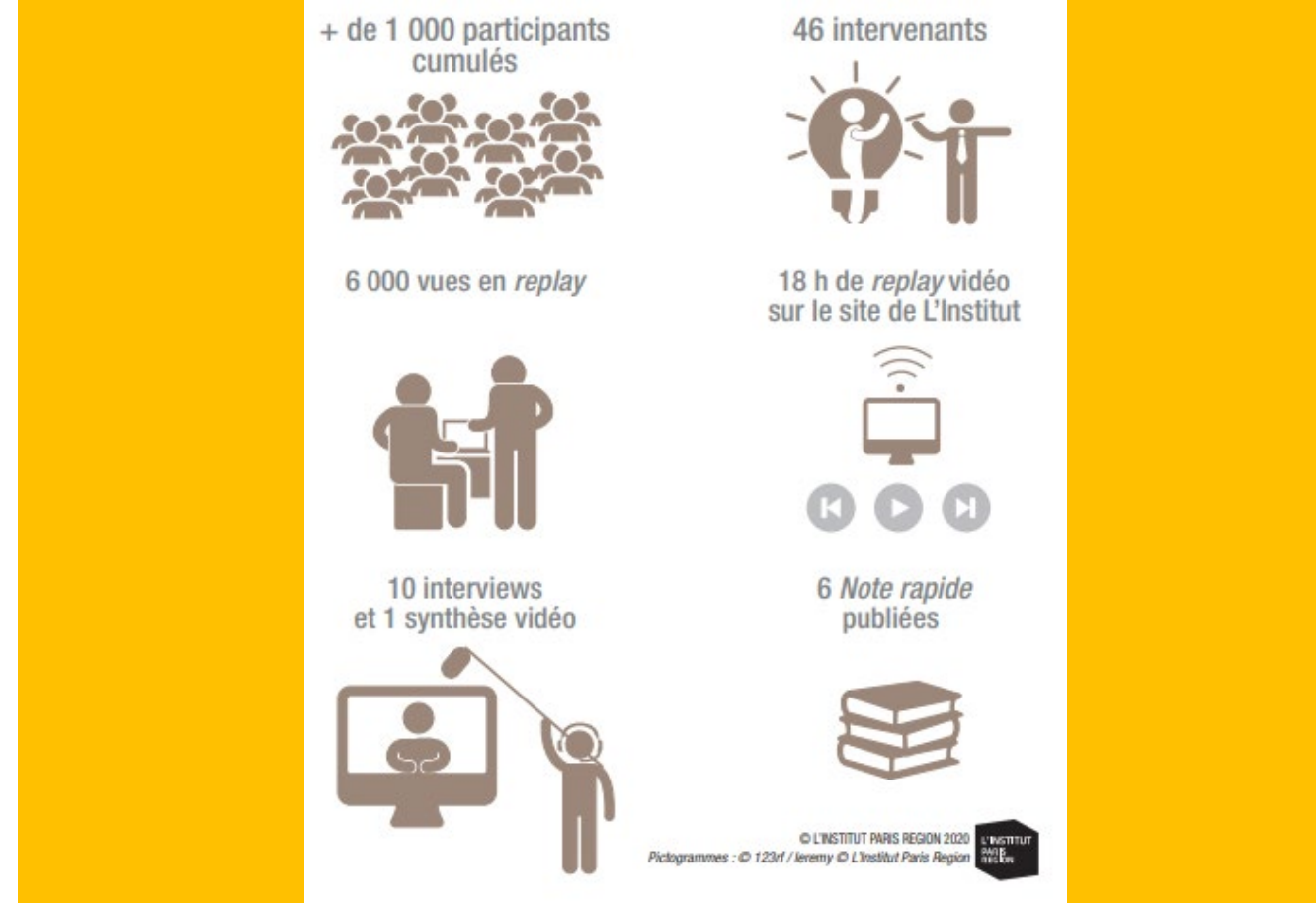
Les TC et les modes doux permettent une accessibilité au site alternative à la voiture individuelle.
 Le maintien et la gestion raisonnée de la forêt alluviale, ainsi que l'ensemble des espaces végétalisés contribuent au stockage carbone.

CONTRIBUTION A LA TRAJECTOIRE 2°C

- Study by Ademe Auvergne-Rhône- Alpes and the urbA4 network (Grenoble, St Etienne, Clermont Ferrand, Lyon), 2020.
- Presentation of brownfield redevelopment projects, in summary form.
- Goal:
 - To understand the 2°C trajectory applied to the reconversion of brownfield sites, and to look at the indicators that can be mobilized in relation to this 2°C trajectory.
 - Identify regional strategies to which brownfield redevelopment can contribute.

Appendix 4 - A cycle of workshops to unite action - IPR

- Building a common vocabulary
- Dialogue between players with different but complementary profiles
- Local authority staff, developers, contracting authorities and elected representatives need to be trained in the issues at stake and in the objective of limiting the artificial development of land.



Appendix 5 - Renaturation of school grounds

COUR D'ÉCOLE TRADITIONNELLE : ENTRE BITUME ET ARBRES ISOLÉS



Arbres isolés (souvent imperméabilisé en pied)

Un bâtiment massif et standard

Un terrain de sport central (souvent utilisé pour du football)

Absence de relief, d'ombrage et de végétation (favorisant la formation d'îlots de chaleur urbains en été)

Un revêtement imperméable

Source: Ville d'Avignon

École élémentaire Roland Scheppler (Avignon)

EXEMPLE D'UNE COUR RENATURÉE

Le mot d'ordre : laisser les espaces disponibles aux enfants



Arbre relié à un ensemble végétal (terre vivante et nutritive)

Des espaces propices, aux discussions, à la détente et ombragés

Des mobiliers intégrés au paysage (matériaux biosourcés et recyclables)

Des espaces de jeux diversifiés

Un revêtement perméable (infiltration naturelle de l'eau)

© Laurent Bourgogne - Ville de Paris

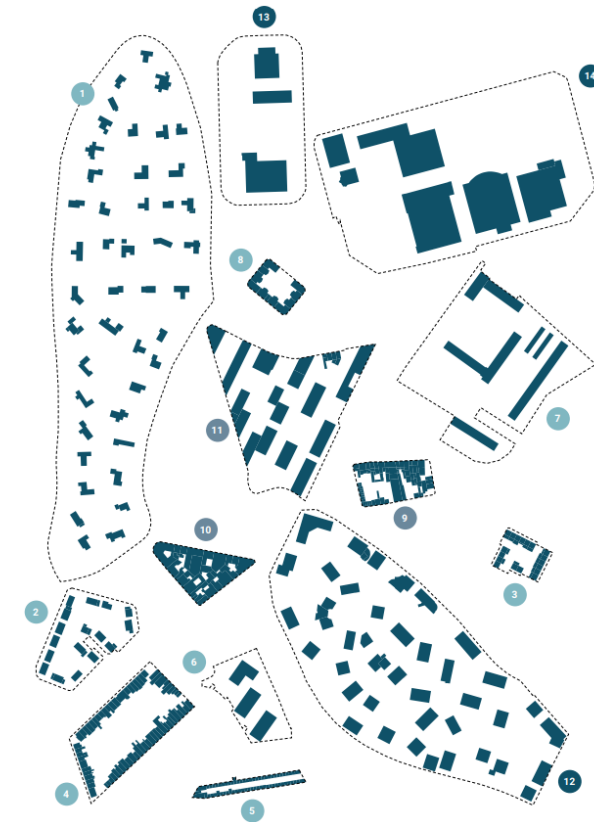
École élémentaire Emeriau (Paris)

Appendix 6 - Smart urban intensification -

TABLEAU DES SYNTHÈSES

Catégorie	Site	SURFACE TERRAIN	% LOGT	DENSITÉ BÂTIE BRUTE	DENSITÉ LOGT / HA	DENSITÉ HAB. / HA	DENSITÉ EMPLOIS / HA	CES* % EMPRISE	DENSITÉ VÉGÉTALE
Lotissement golfique	Bondues : Domaine de la vigne	96 866	100%	0,12	5	12	0	9%	80%
Lotissement pavillonnaire	Orchies : lotissement Coubertin	10 367	100%	0,36	17	51	0	21%	60%
Maisons mitoyennes en bande	Villeneuve d'Ascq : lotissement Salengro	3 380	100%	0,66	56	124	0	43%	44%
Maisons de villes « 1930 »	Lambersart : îlot Marceau	13 643	100%	0,83	47	132	0	37%	60%
Courée	Lille : cité des postes et cité des 4 Chemins	2 335	100%	1,60	291	450	0	59%	0%
Plots de logements collectifs	Wambrechies : Allées Natures	6 768	100%	1,25	140	260	0	28%	34%
Tours et barres de logements collectif	Roubaix : Résidence d'Armenonville	30 217	98%	1,02	82	136	6	23%	47%
Ensemble HBM	Roubaix : le nouveau Roubaix	2 902	93%	2,03	234	541	17	60%	6%
Îlot mixte de faubourg	Lomme : avenue de Dunkerque	5 079	57%	1,09	53	95	67	64%	25%
Îlot mixte d'hypercentre	Lille : rue Faidherbe	5 479	33%	4,01	164	245	892	89%	0%
Îlot mixte ouvert	Lille : Îlot St Maurice rue du faubourg de Roubaix	25 504	53%	1,84	146	366	533	42%	28%
Parc tertiaire péri-urbain	Villeneuve d'Ascq : Synergie Park	76 761	0%	0,35	0	0	202	20%	36%

	Nomenclature Atlas des tissus urbains	Therminologie retenue	Nom de l'opération	N° fiche
Tissu de pavillonnaires	Pavillons discontinus très peu denses	Lotissement golfique	Domaine de la vigne à Bondues	1
	Pavillons discontinus peu denses	Lotissement pavillonnaire	Lotissement Coubertin à Orchies	2
	Maisons jumelées ou groupées	Maisons mitoyennes en bandes	Lotissement Salengro à Villeneuve d'Ascq	3
Maisons de villes mitoyennes	Maisons de ville étroites	Maisons de villes « 1930 »	Îlot Marceau à Lambersart	4
	Maisons de courées	Courée	Cité des postes et Cité des 4 Chemins à Lille	5
Tissu de collectifs	Collectifs discontinus	Plots de logements collectifs	Allées Natures à Wambrechies	6
		Grands immeubles de logements collectifs	Résidence d'Armenonville à Roubaix	7
	Collectifs continus	Ensemble HBM	Le Nouveau Roubaix à Roubaix	8
Tissu urbain continu très dense	Ensemble composite très dense	Îlot mixte de faubourg	Avenue de Dunkerque à Lomme	9
		Îlot mixte d'hypercentre	Rue Faidherbe à Lille	10
		Îlot mixte contemporain	Îlot St Maurice à Lille	11
Tissu d'activités	Bureaux discontinus	Parc tertiaire péri-urbain	Synergie Park à Villeneuve d'Ascq	12
		Zone péri-urbaine de hangars logistiques	CRT à Lesquin	13
		Zone commerciale péri-urbaine	Aushopping Les Géants à Englos	14



- regarder différents îlots illustratifs de la métropole sous le filtre de la densité / **look at different blocks of the city through the filter of density**
- interroger les idées reçues sur les liens entre densité et formes urbaines, des formes très différentes pouvant produire des densités relativement voisines / **question preconceived ideas about the links between density and urban form, as very different forms can produce relatively similar densities**

Land use and urban planning



inetum.
Positive digital flow

Reduction of land consumption towards net zero land artificialization: What issues and what tools ?

Lionel Bry

Group Vice President and Smart Territories Director



lionel.bry@inetum.com



<https://www.inetum.com/en/smart-cities>



LIFE QUALITY AT A NEIGHBOURHOOD SCALE

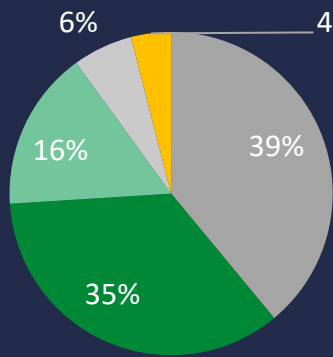
LIFE QUALITY THROUGH A HUMAN-CENTRIC CITY

inetum.
Positive digital flow

UNIVERSITÉ PARIS 1 PANTHÉON SORBONNE
CHAIRE ETI
ENTREPRENEURIAL TERRITOIRE INNOVATION
IAE PARIS SORBONNE BUSINESS SCHOOL

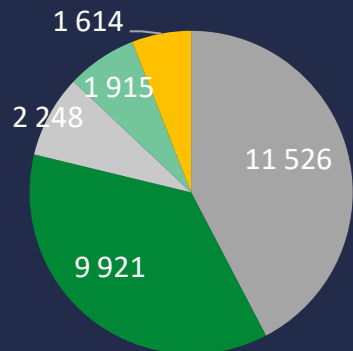
A DIGITAL SERVICES GLOBAL PLAYER

REVENUE

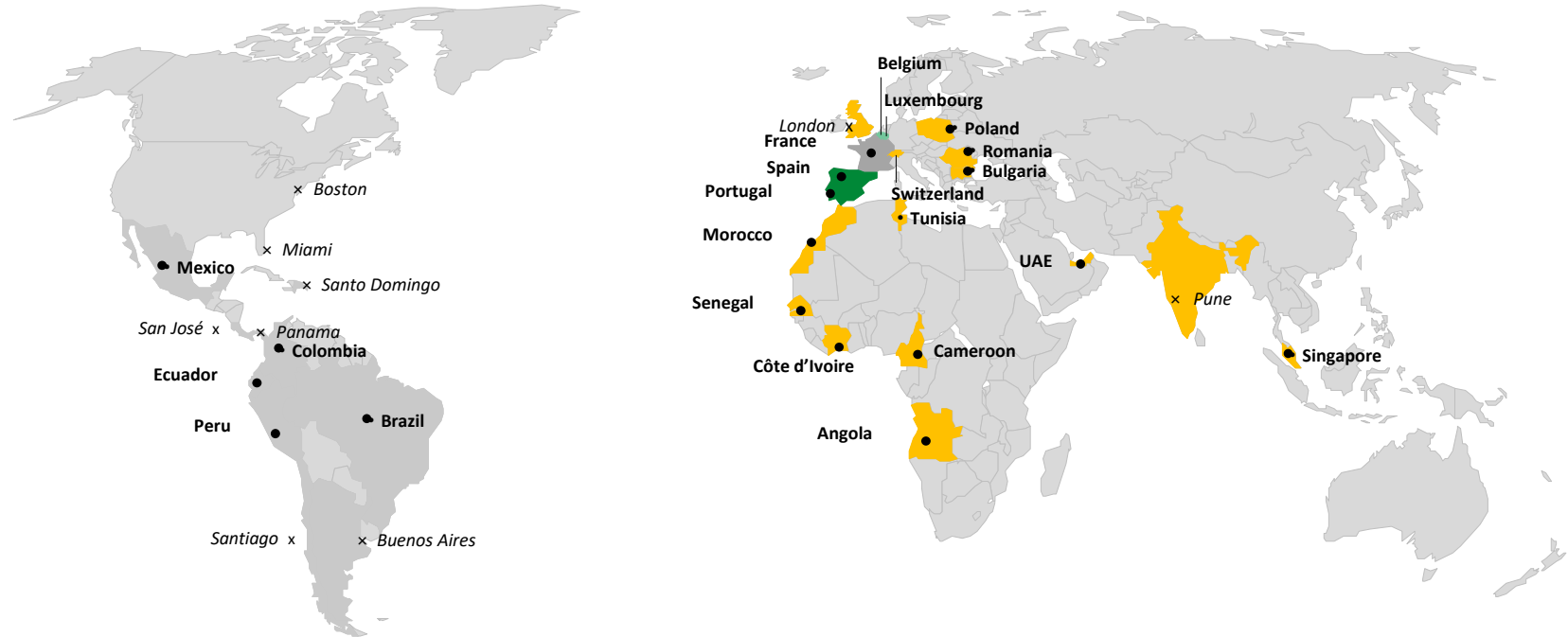


- FRANCE
- IBERIA
- BENELUX
- LATAM
- EEMEA

HEADCOUNT



- FRANCE
- IBERIA
- LATAM
- BENELUX
- EEMEA



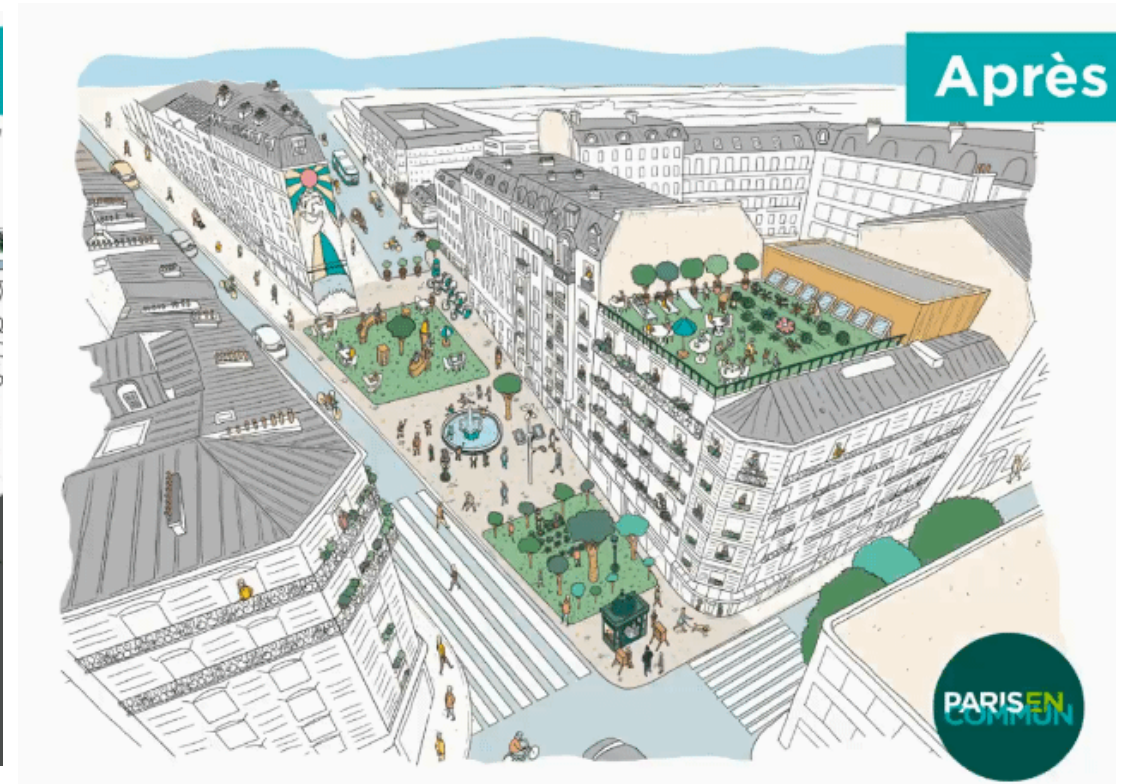
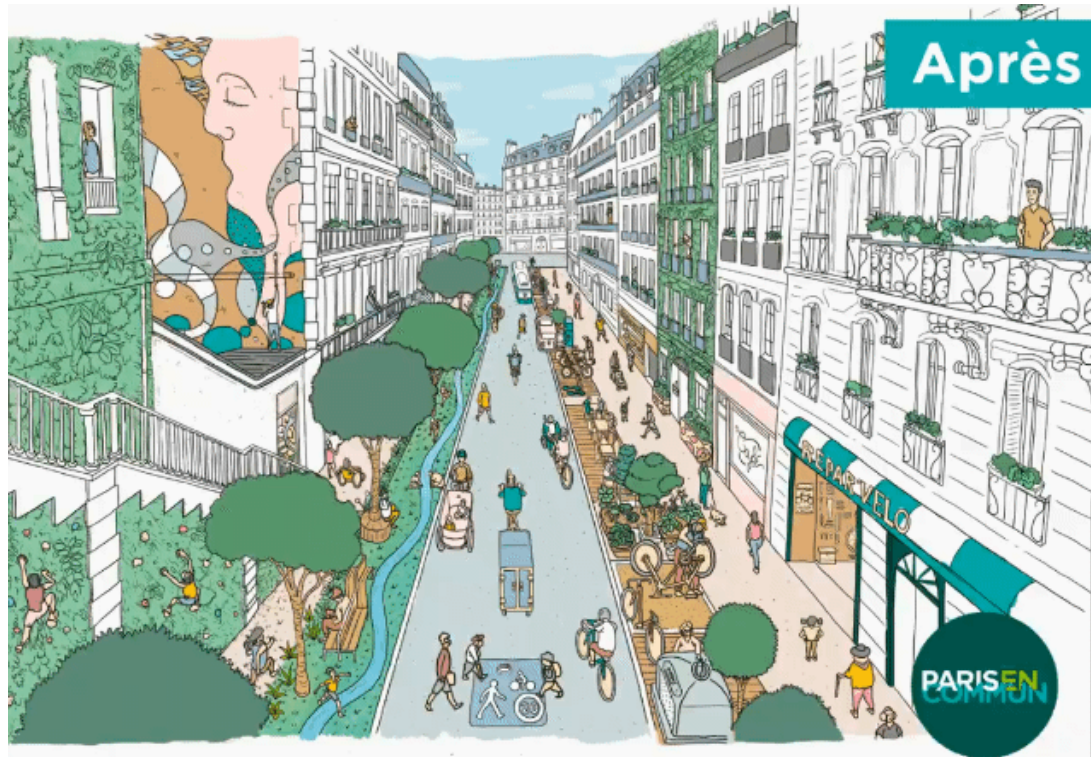
500 DIGITAL PROFESSIONNALS IN ROMANIA

A DATA PLATFORM TO GUIDE AND SMULATE SHORT DISTANCE CITY

URBAN REQUALIFICATION
PROJECTS

PROSPECTIVE PLANNING
BASED ON HUMAN
BEHAVIOUR DATA

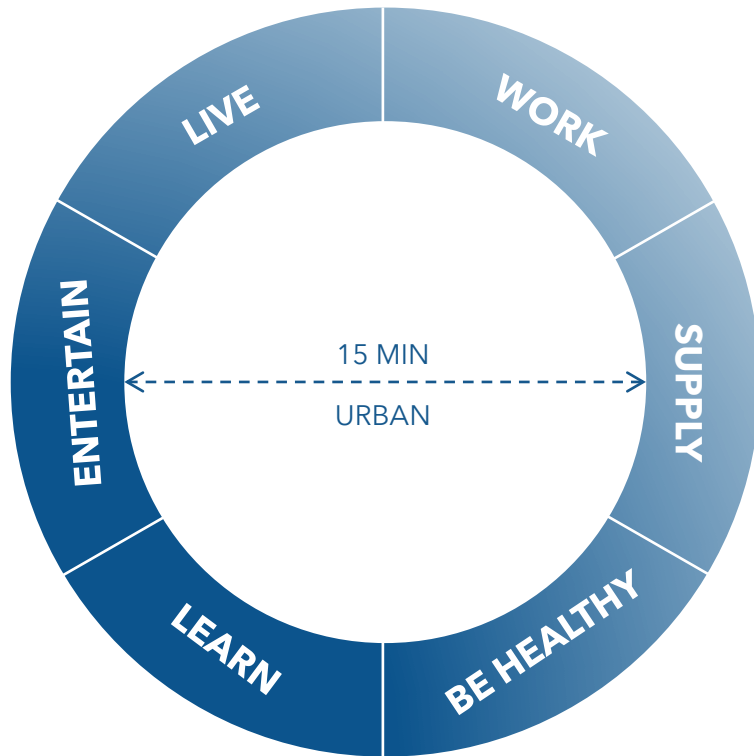
CO-CONSTRUCTION WITH
INHABITANTS





1. PROXIMITY INSPIRED BY THE SHORT-DISTANCE CITY

#4 CHALLENGES AND DRIVERS AROUND THE SHORT-DISTANCE CITY

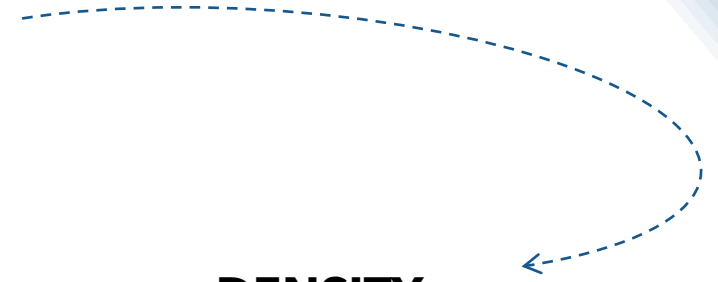


PROXIMITY

DENSITY

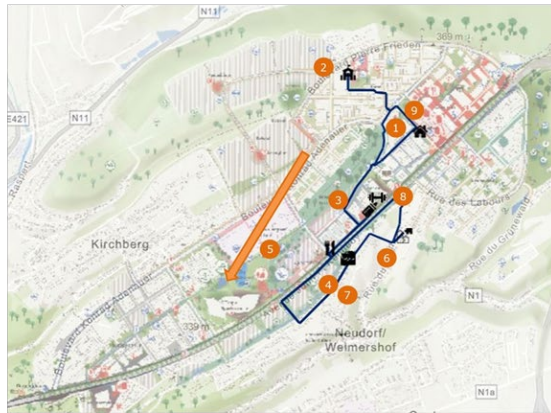
**GENERATIONAL AND
FUNCTIONAL DIVERSITY**

**DIGITAL
UBIQUITY**



EXAMPLE : PROXIMITY FACTS IN KIRCHBERG LUXEMBOURG

Daytime



Path : School-work-lunch-work-school-extra-curricular-centre-fitness-home

Travel time	Time saving
1hr 51 mins	✓ 16 mins in multi-modal
1hr 35 mins	✓ 1 hr 8 mins by bike
43 mins	-1.479g of CO2
31 mins	



Exemple



Family
Couples 35-50 ans
avec enfants 0-15 ans

NEEDS

Learning :
Supplying :
Enjoying :
Caring :
Working :
Living :

Nurseries, schools, extracurricular activities, high school
Food, cultural goods, childcare
Culture, restaurants, sports, tourism, green spaces and games
General and paediatric medicine, specialist, fitness
Offices and coworking spaces
Banks/ATMs, transport, waste disposal centre, recycling centre, post office

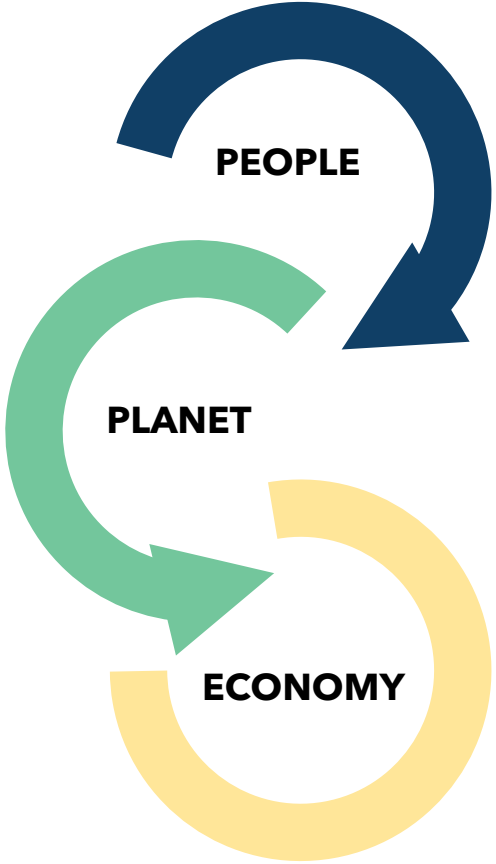
/ Proximity inspired by the short-distance city



scope of 15 mins on foot are available, though we do not have information on the potential saturation of existing services (nursery, school, doctor, etc.). A more detailed, qualitative approach will supplement this diagnosis.



2. BENEFITS THAT HAVE A « TRIPLE POSITIVE IMPACT »



WITH PROPOSED
ACTIONS AND
MEASURABLE KPIS
FOR THR AMBITION ON
EACH PILLAR



EXAMPLE OF CALCULATION ENGINE FOR LUXEMBOURG KIRCHBERG

People, Planet, Performance contributions calculated & illustrated



Like

Economy & Heritage

+ 200 direct Jobs created locally

+ 3% of new Business flow pour Auchan et la Galerie Marchande du Kirchberg

+ 20 services & shoppings places for « Magasins/Bars/Restaurants/tiers lieu créés en pied d'immeuble »



+ 2000 people for Mobility Infrastructures Tramway, Schools, Cycling lanes

Roman Road Heritage preservation

50 outdoor modern art sculptures deployed for cultural walk creation

rhocod NEW LIVING MOOD IN KIRCHBERG



Like

Planet preservation & resilience

+ 20 000 m2 green spaces for -4° cooling zones

+ 300 trees Capturing 6 tons of CO2 per year



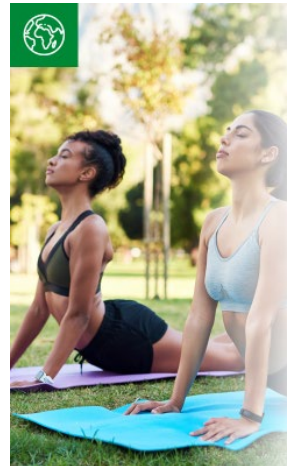
Aménagement des parties communes

0 soits artificialization avec une reconstruction et transformation sur l'existant, la préservation du patrimoine (voie romaine), et valorisation de la jonction Luxexpo

Biodiversity protection through humid zones for birds & bats

Circular economy for project building

(filère éco-circulaire des déchets de construction, mise en œuvre services d'arrosage intelligent, récupération eaux de pluie, efficacité énergétique des bâtiments)



Quality of life and sociability



€3,300 in petrol costs saved per year

- 15,4 days of driving time saved per year

- 266 Kcal per day for the parents of a family with children using soft mobility

+ 10,000 sq.m for relaxation Event Plaza, athletic fields, co-working, etc



New border worker

- 4 tonnes of CO2 per year



20 Ha of green space within 15 minutes

CONTACT

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Group VP Inetum

Smart Territories Director

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FOCUS 2 INCLUSION

Adapting neighbourhoods to climate change and strengthening social cohesion

District 6 – Liniar Park



Alexandru Suciu

Bucharest District 6 Mayor's Chief of Staff



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www.primarie6.ro



Our liniar park story



Liniar park site - 2002



Liniar park site - 2009



Liniar park site - 2022



Why create a park here?

Main reasons:

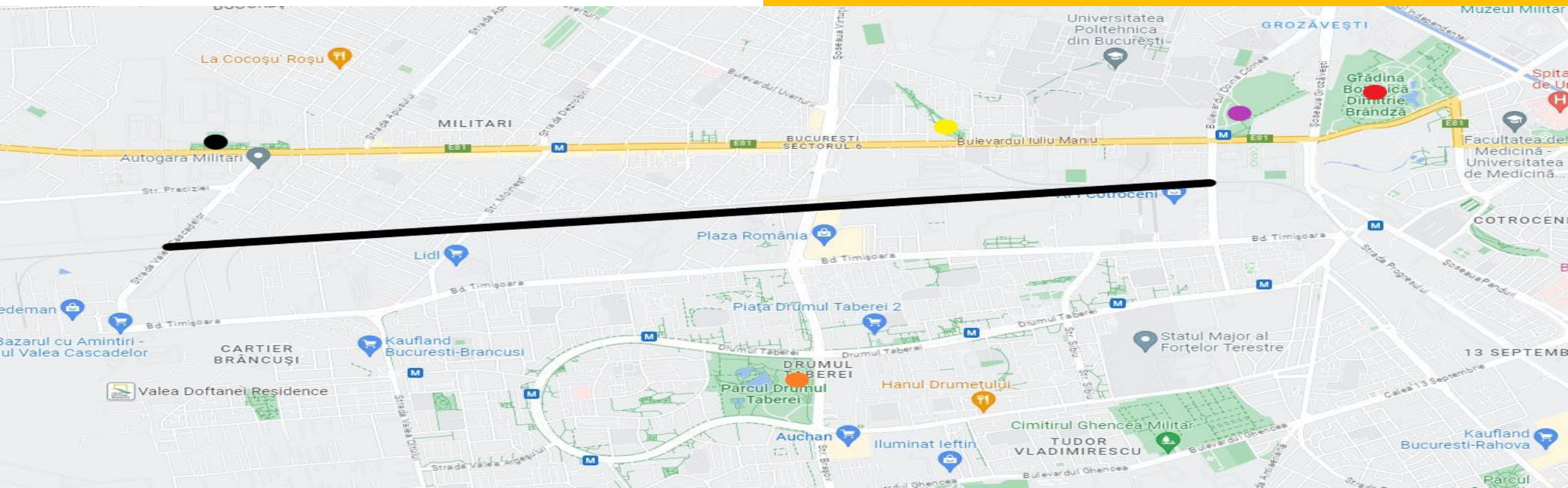
- No public park within 20 minute walkable distance
- High density area
- Available land
- Unused and neglected area



Why create a park here?

Main reasons:

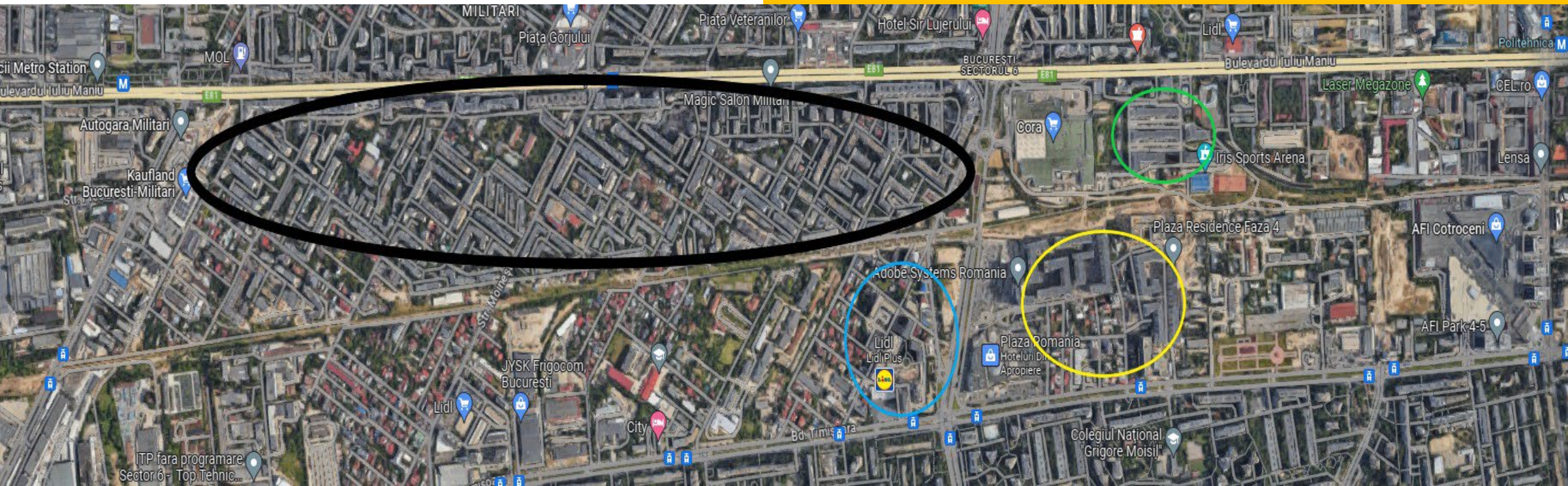
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Why create a park here?

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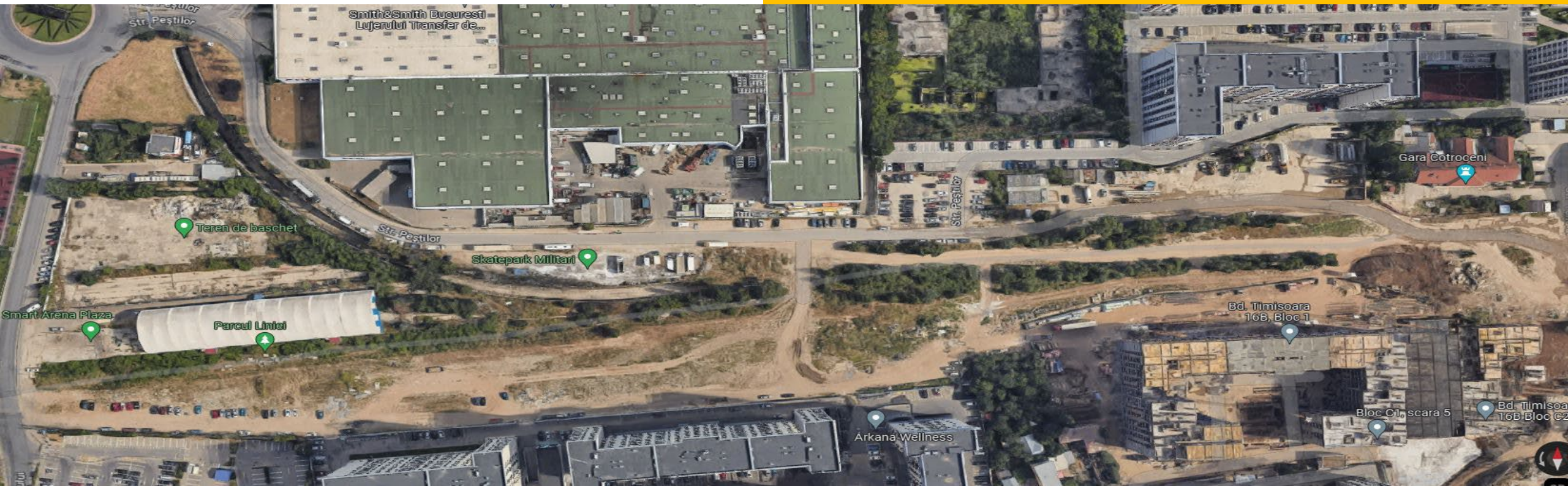
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Main reasons:

- No public park within 20 minute walkable distance
- High density area
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- Unused and neglected area





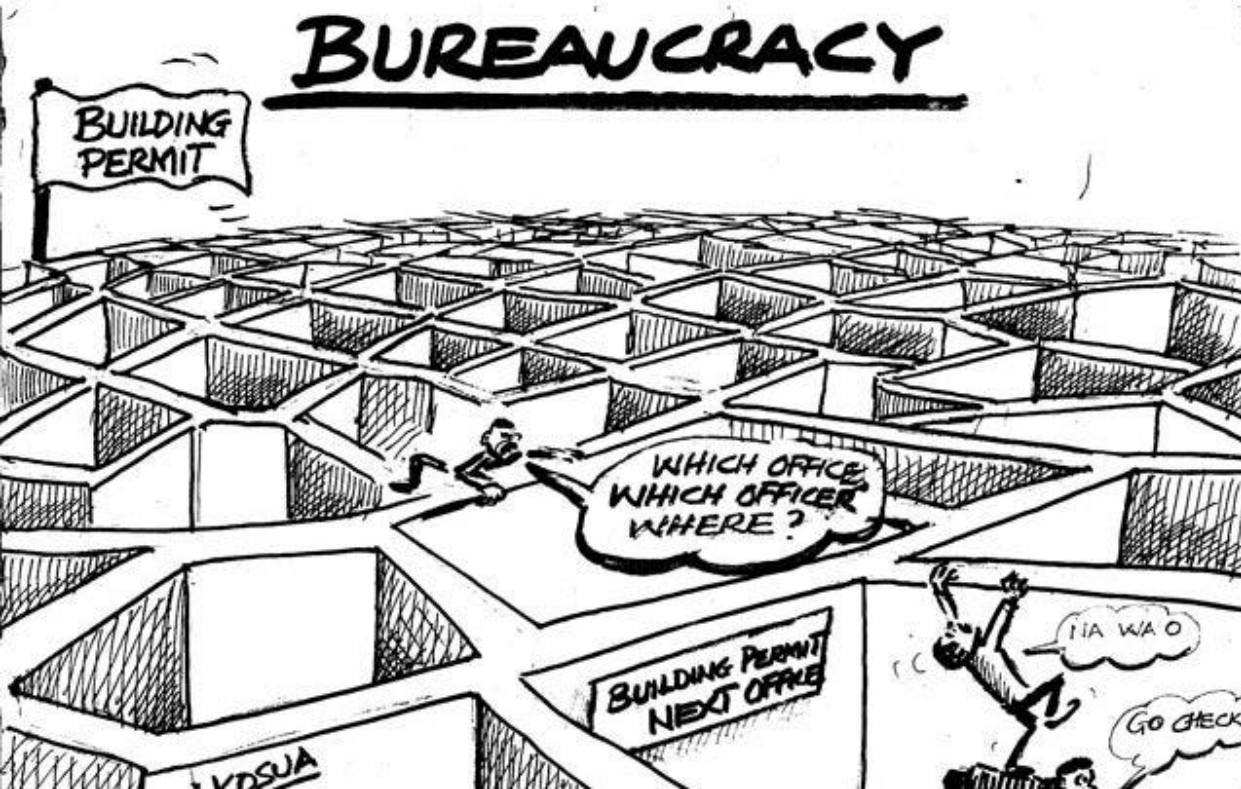
Why create a park here?

Main reasons:

- No public park within 20 minute walkable distance
- High density area
- Available land
- **Unused and neglected area**



How to create a park here?



Challenges – and how we dealt with them:

- **Getting legal rights over the land**
- Coordinating with the General City Hall's projects
- Coordinating with all the other public entities
- Cleaning the land



How to create a park here?

Challenges – and how we dealt with them:

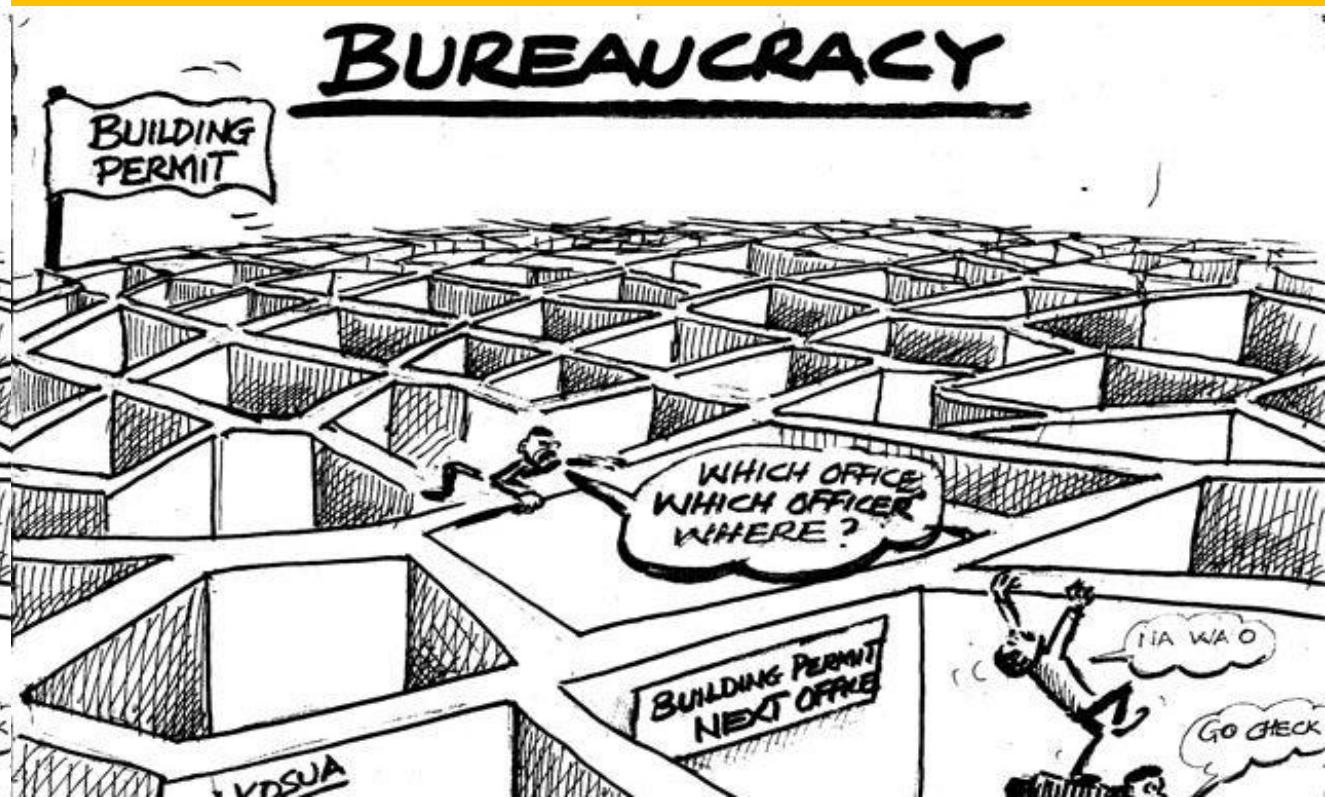
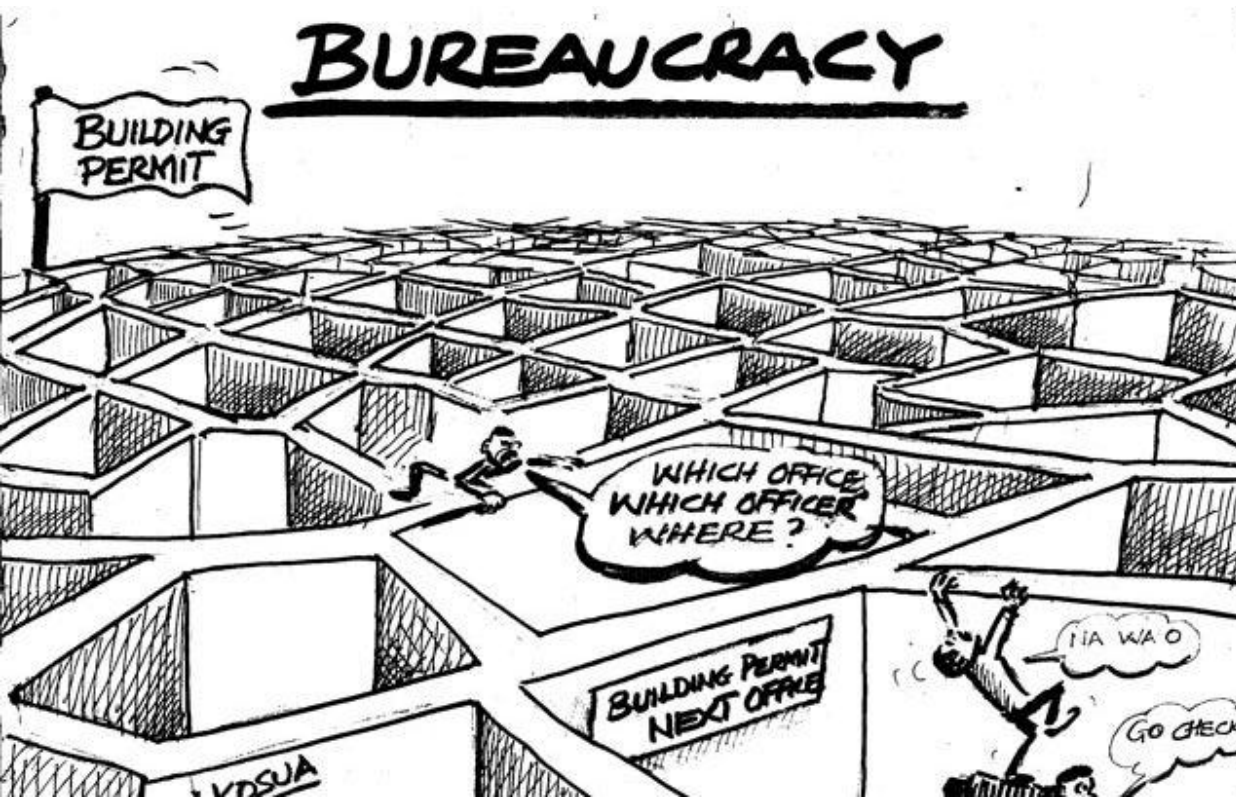
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How to create a park here?

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How to create a park here?

Challenges – and how we dealt with them:

- Getting legal rights over the land
- Coordinating with the General City Hall's projects
- Coordinating with all the other public entities
- **Cleaning the land**



**How did it turn out
in the end?**



**How did it turn out
in the end?**



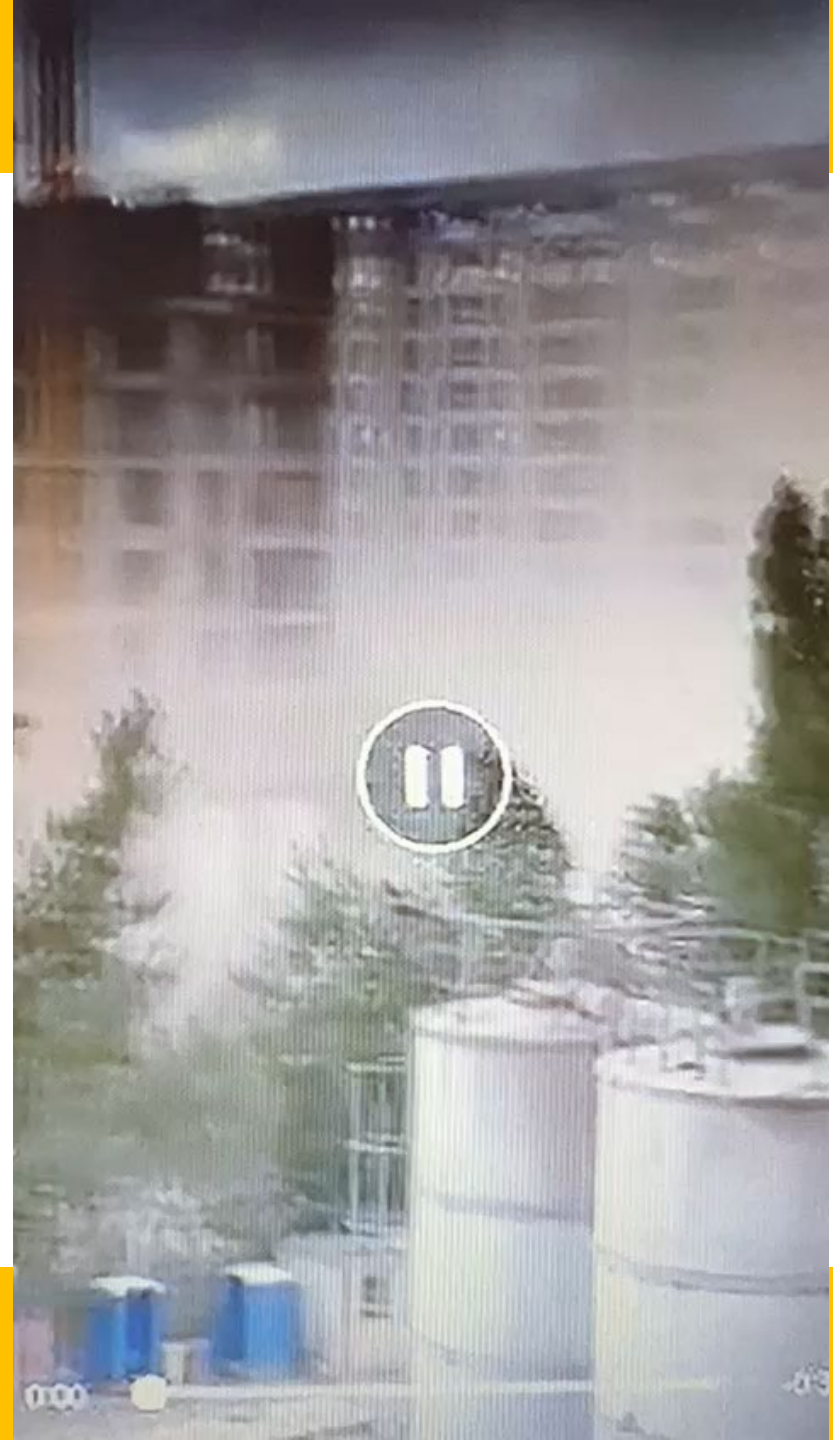
**How did it turn out
in the end?**



**How did it turn out
in the end?**



**What did people
say before?**



**What do people
say now?**

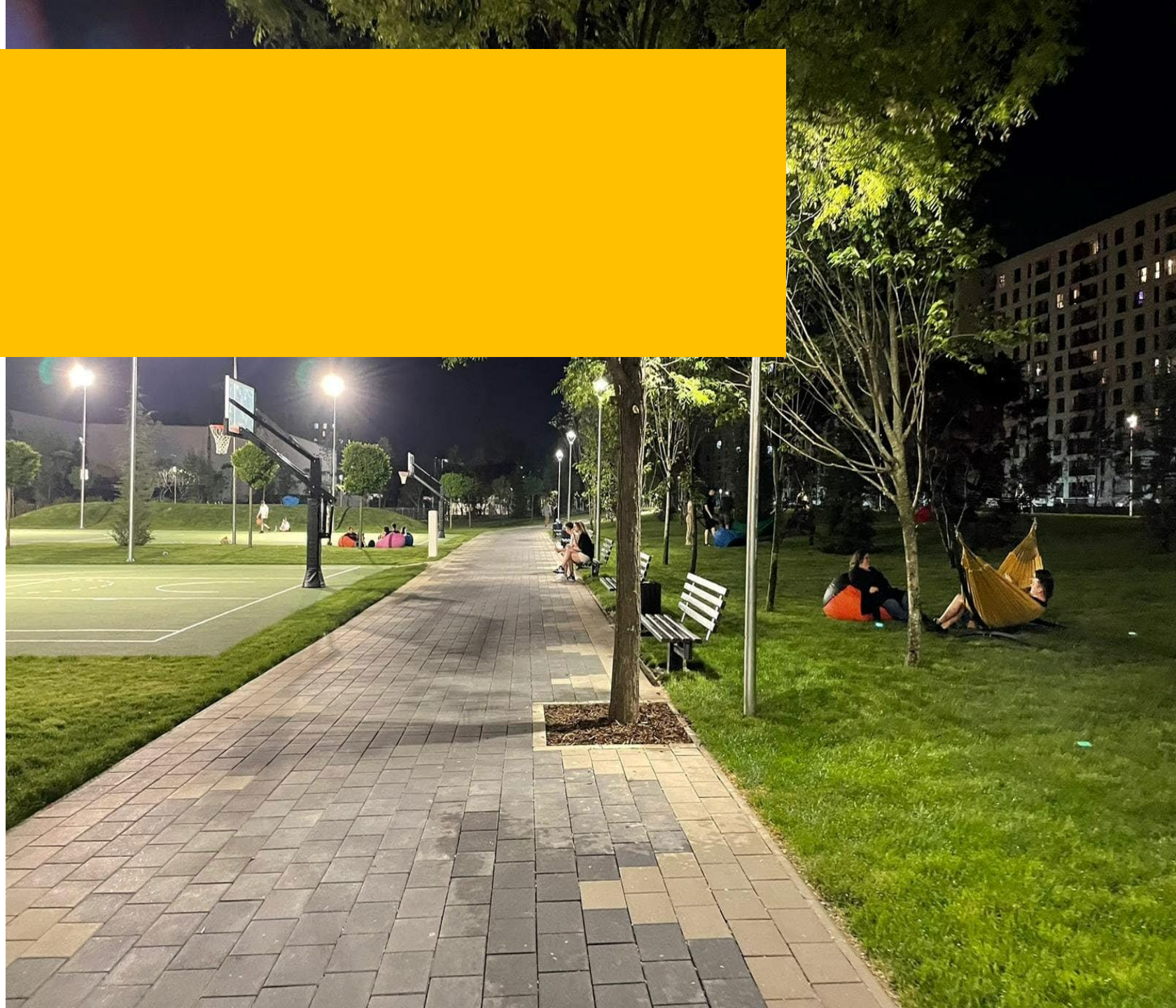


**What do people
say now?**



Next steps

- Expanding the park on all 4,2 kilometers
- Adding more features to the park
- Using the piloted solutions in the rest of District 6
- Attracting businesses and event planners





Reduction of land consumption towards net zero land artificialization: What issues and what tools ?

Jean-François Montagne

Vice-President of the Urban Community of Dunkirk



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<https://www.communaute-urbaine-dunkerque.fr/>





Ecoquartier les Glacis, Dunkerque

Soft and Natural Infrastructure in Mulhouse

Drouot-Jonquilles : a residential area close to the water



Laila Talha-Guillot

French National Agency for Urban Renewal – ANRU



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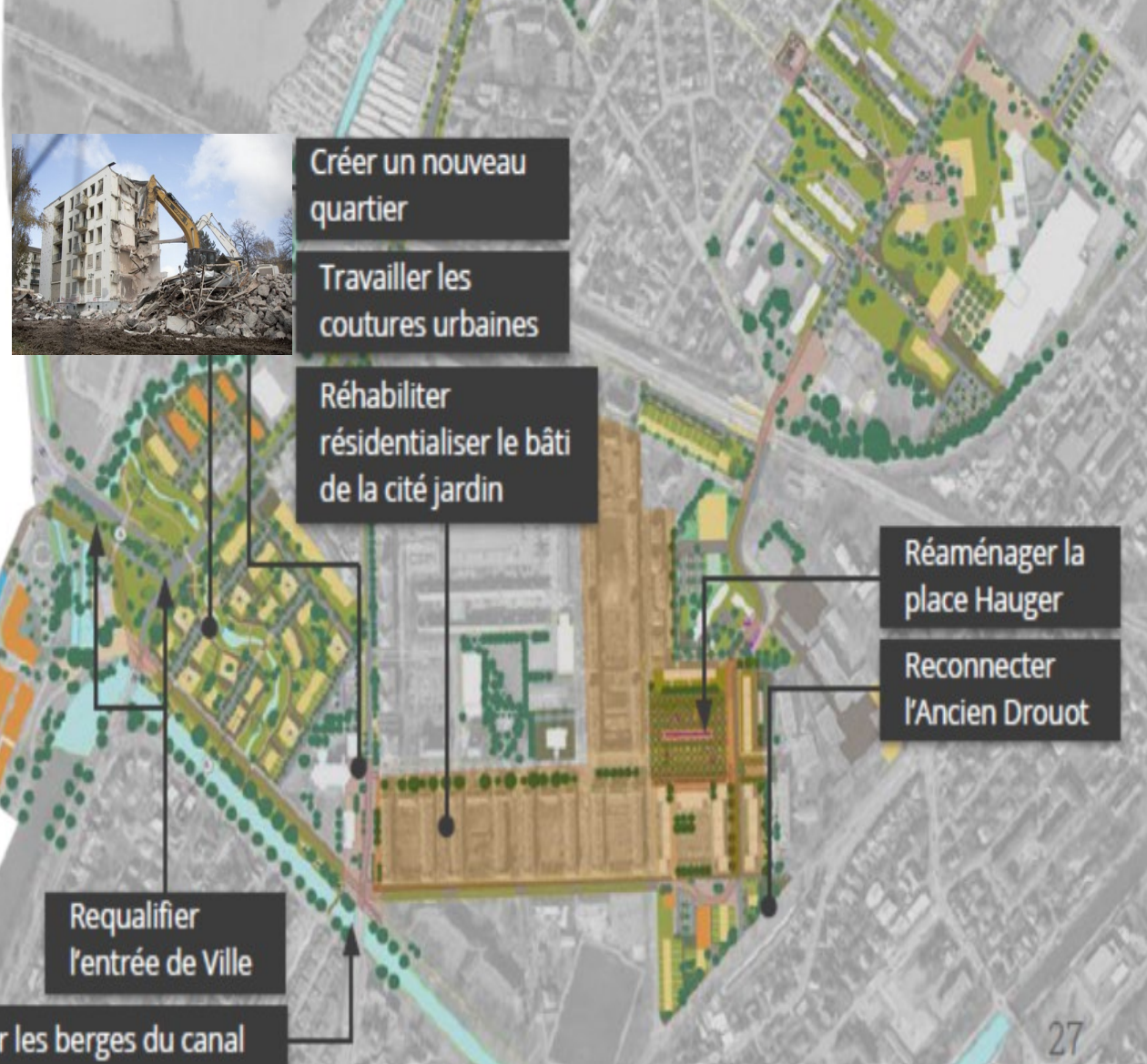


Anru.fr





City of Drouot Mulhouse in 1940 and 1960s



2024

Rehabilitation and demolition of *Drouot-Jonquilles* district : a new residential area close to the water



- The project carried out by the NPNRU on the *Drouot-Jonquilles* district aims to **reinforce the residential character of this district (entrance of town) by a diversification of the habitat**
- **Opening the district and the develop the mobility of its inhabitants**
- **The development of quality real estate programs considering the uses, and the rehabilitation of the existing built heritage.**
- **A master plan for soft and natural infrastructure, proposing a hierarchical network that combines the active modes; a landscape function ; a function of enhancing biodiversity and nature in the city.**
- **The reappropriation of the surroundings of the garden city, the island, and the cycle path and walks to the city center**

“The old Drouot district is located at the edge of the Canal de Jonction, and strong of the architectural and landscape quality of the built and urban complexes, the district has a potential to develop.”

For quality and attractiveness of the residential area, the urban project aims at :

- **An exemplary rehabilitation of the 820-housing stock**
- **The connexion with the heat recovery network (Energy excellence label)**
- **The quality of the existing spaces (public and private)**
- **Strengthening the link with the Jonquilles neighborhood in the north, the opening of the viary network to the south**
- **The affirmation of the presence of water : Junction Canal redeveloped in the framework of Mulhouse Diagonales**





Contact us

French Agency for Urban Renewal – ANRU, contact :
Laïla Talha Guillot, lguillot@anru.fr

City of Mulhouse, contact :
Jean.Ertzscheid@mulhouse-alsace.fr

& Learn more

<https://www.mulhouse.fr/ma-ville/urbanisme-et-habitat/programme-de-renovation-urbaine/>

Adapting neighborhoods to climate change and strengthening social cohesion



Urban projects for resilience and climate adaptation

Anne Vial

M. Architect and M. Engineer

Project Director for Sustainable Districts



anne.vial@cerema.fr



<https://www.cerema.fr/en>



Cerema

CLIMATE & REGIONS, THE FUTURE





**Designing climate resilient spaces for all
with nature-based solutions**

Urban projects to strengthen resilience and climate adaptation

1/ To facilitate a more inclusive and resilient development, a tool designed by the Cerema



Ideas to remember:

- Besides anticipating and recovering from crises, **ability to adapt and transform** should be strengthened in order to define a **new path for development**
 - Crucial needs to ensure a **just transition as the most vulnerable groups** should not carry out the burden of these changes
 - While authorities and communities will unfortunately continue to face crises, it is important to **strengthen their resilient capacities**. And this should be seen as opportunities to **implement systemic and holistic changes**
- > **The resilience compass** : a decision making tool for local authorities, a guide book, a framework for assessment

Urban projects to strengthen resilience and climate adaptation

2/ A dedicated working group to explore resilience at neighborhood's level



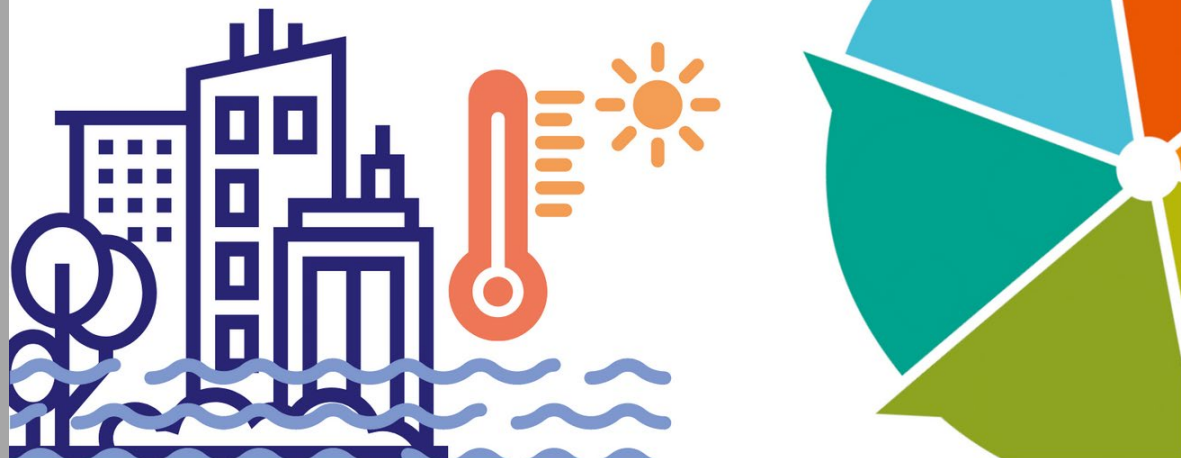
Ideas to remember:

- “Quartiers de Demain”: an **online community** for the emergence and sharing of new urban planning practices
- **Networking** between experts, local authorities, design offices, etc... with a **working group focusing on solutions and drivers**
- Two focus highly relevant for cities development : **urban heat island and flood risk**

-> **Resilient development for flood-prone areas: a guide co-produced by Cerema and the local authority of Grenoble-Alpes Métropole**

GT Résilience et Aménagement

Les opérations d'aménagement, un leviers de résilience à l'échelle des quartiers



Urban projects to strengthen resilience and climate adaptation

3/ A cooperation with the French National Agency for urban renewal



Ideas to remember:

- **Strengthening the resilience of urban projects** in disadvantaged areas with multiple vulnerabilities
- Support at **national level** : raising awareness, building capacities, expertise, methodological guidelines
- Support at **local level** : 6 local authorities will be assisted by Cerema's experts to strengthen & prioritize components of their projects that contribute to resilience
- **Capitalisation** of knowledge and lessons learnt for all stakeholders involved on urban projects

-> ***The example of school grounds: demonstration of resilience at small scale with operational application and actions involving multiple stakeholders (local authorities, teachers, children, etc)***



In one sentence!

« Strengthening resilience means **building a collective process** with multiple stakeholders to meet the **needs and expectations of all**, including the most vulnerable.

It should not be just another strategy but rather **a reflex that permeates all national and local initiatives**, whatever their scale.

This is an opportunity to innovate, give a new meaning to the role and responsibilities of local authorities by building on **local identity and strengths.** »



Contact us / Find out more



Anne Vial

M. Architect and M. Engineer
Project Director for Sustainable Districts
anne.vial@cerema.fr



To go further

<https://www.cerema.fr/en>

<https://www.cerema.fr/en/actualites/adapting-climate-change-resource-centre-local-authorities>

<https://www.cerema.fr/en/actualites/resilience-compass-help-regions-adapt-cerema-framework-local>

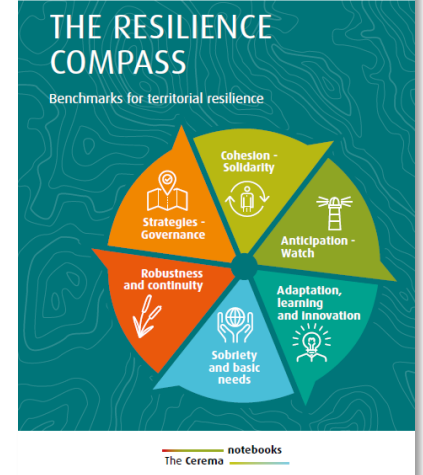
<https://www.cerema.fr/en/actualites/satellite-images-mapping-urban-heat-islands>

<https://www.cerema.fr/fr/actualites/territoires-resilients-agir-maintenant-transformer-demain>

https://www.expertises-territoires.fr/jcms/pl1_26881/fr/ecoles-de-demain



Cerema
CLIMATE & REGIONS, THE FUTURE



Adapting neighborhoods to climate change and strengthening social cohesion



Carla Doncescu

Project officer - International



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<https://www.fnau.org/fr>



What is an urban planning agency?



What?

- *A multidisciplinary team*
- *An engineering tool*
- *Resources*
- *A space for dialogue*

For whom?

- *Elected representatives*
- *Professionals*
- *Citizens*

Why?

- *Observe, analyze and understand*
- *Help and support projects*
- *Dialogue on regional organization and planning*
- *Raise awareness*

Renaturation of school grounds

COUR D'ÉCOLE TRADITIONNELLE : ENTRE BITUME ET ARBRES ISOLÉS



Arbres isolés (souvent imperméabilisé en pied)

Un bâtiment massif et standard

Un terrain de sport central (souvent utilisé pour du football)

Absence de relief, d'ombrage et de végétation (favorisant la formation d'îlots de chaleur urbains en été)

Un revêtement imperméable

Source: Ville d'Avignon

École élémentaire Roland Scheppler (Avignon)

EXEMPLE D'UNE COUR RENATURÉE

Le mot d'ordre : laisser les espaces disponibles aux enfants



Arbre relié à un ensemble végétal (terre vivante et nutritive)

Des espaces propices, aux discussions, à la détente et ombragés

Des espaces de jeux diversifiés

Des mobiliers intégrés au paysage (matériaux biosourcés et recyclables)

Un revêtement perméable (infiltration naturelle de l'eau)

© Laurent Bourgogne - Ville de Paris

École élémentaire Emeriau (Paris)

Multumesc !

Carla Doncescu, Project officer - International

- Mail : doncescu@fnau.org
- Adress: 22 rue Joubert 75009 paris
- Website: www.fnau.org
- LinkedIn: @Fnau

Adapting neighborhoods to climate change and strengthening social cohesion



Sylvain Chapon
ENGIE

Energy Solutions Global Business Unit - Low Carbon Cities
B.U SIRADEL Program Executive
Key Expert



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(to go further: valentin.gavan@engie.com)



www.engie.com

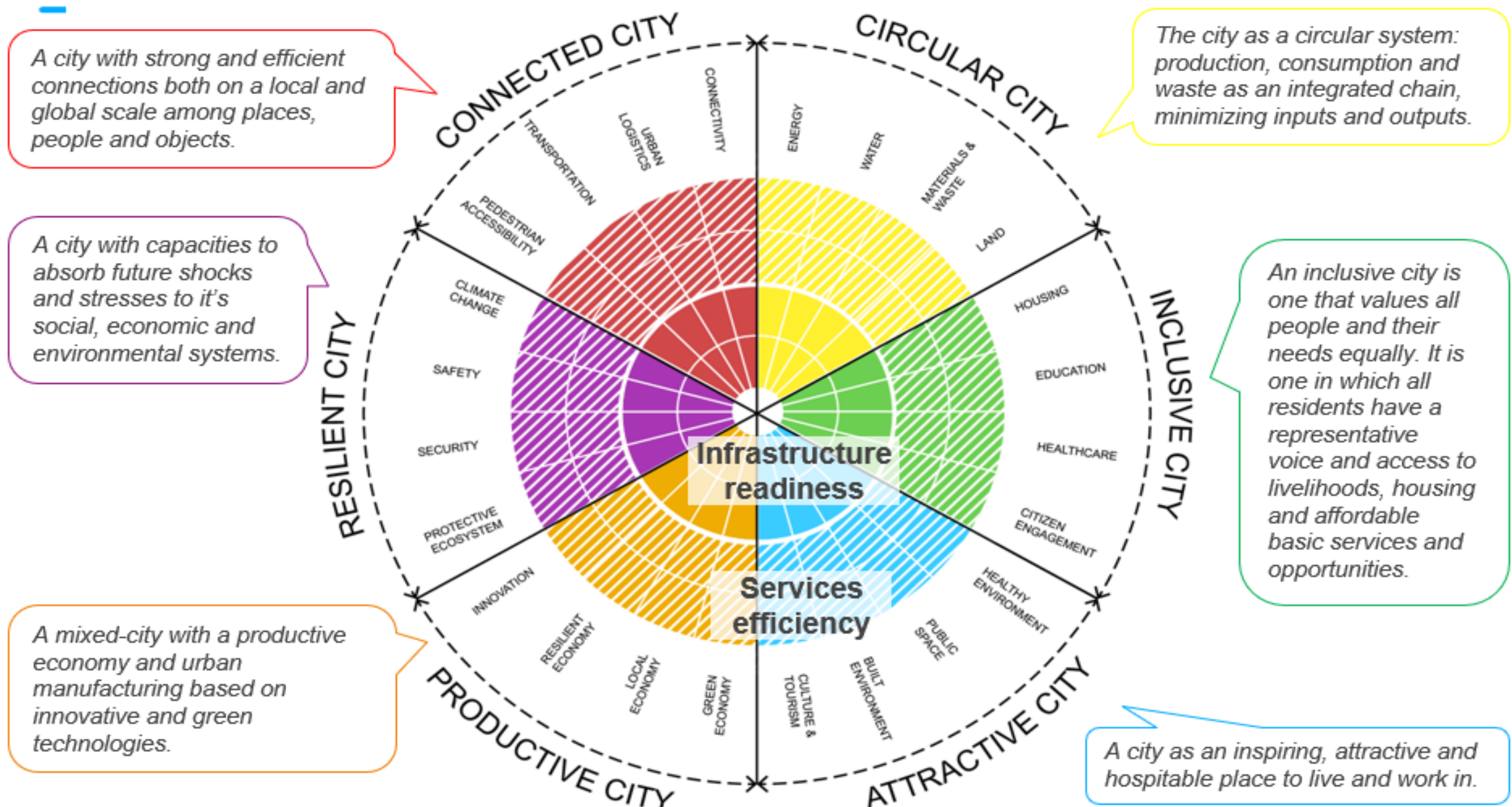
ENGIE

Working to understand how...

Improving
Streamlining
Reducing costs



The cities and territories must prepare and adapt in order to face these new huge challenges. It requires: sound transformations in the infrastructure, energy, mobility, security design, relevant city management, appropriate involvement of the stakeholders to enable each citizen to live safe and free.



A city with strong and efficient connections both on a local and global scale among places, people and objects.

The city as a circular system: production, consumption and waste as an integrated chain, minimizing inputs and outputs.

A city with capacities to absorb future shocks and stresses to its social, economic and environmental systems.

An inclusive city is one that values all people and their needs equally. It is one in which all residents have a representative voice and access to livelihoods, housing and affordable basic services and opportunities.

A mixed-city with a productive economy and urban manufacturing based on innovative and green technologies.

A city as an inspiring, attractive and hospitable place to live and work in.

Resilience is Planning

Proposing increased local and inter-territorial procedures for cooperation between states governance, local authorities, associations and citizen communities

The basic principles of resilience imply:

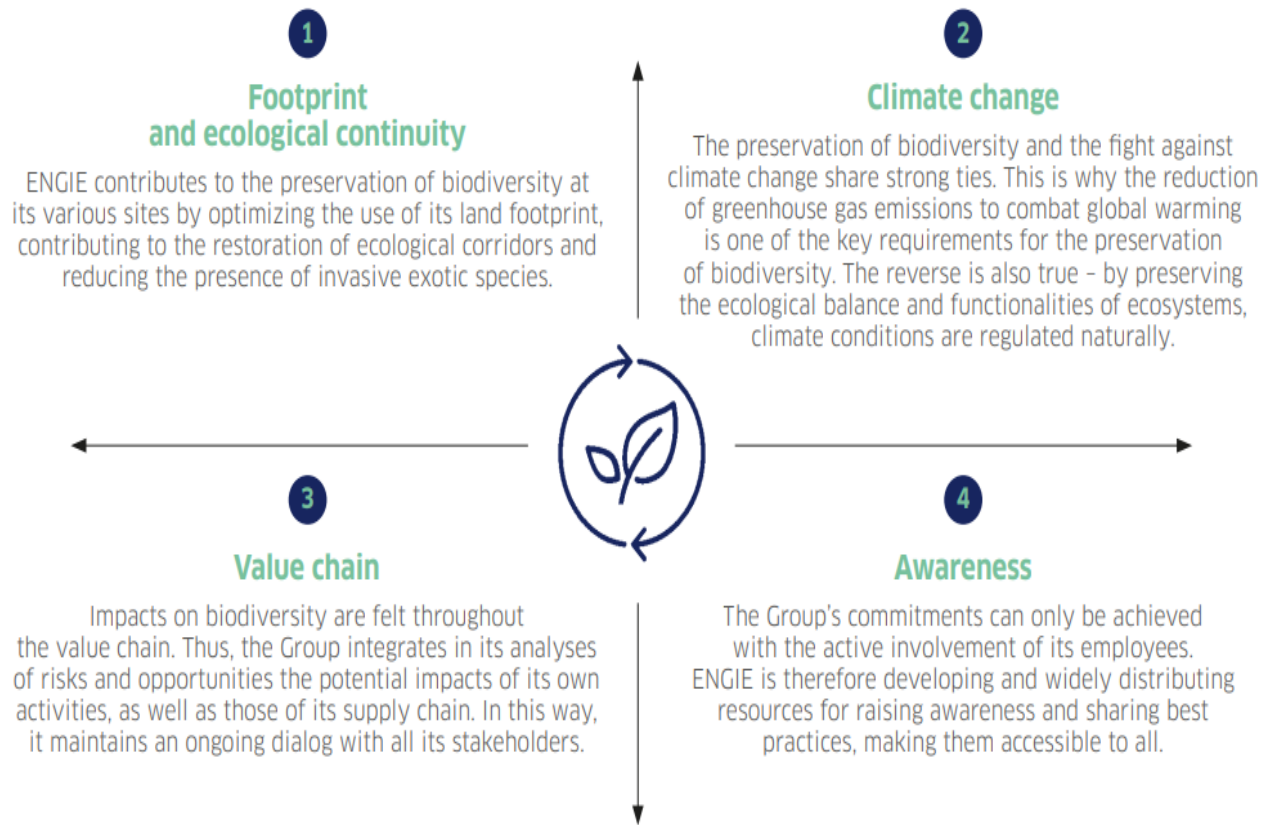
Contextual vulnerability / Integrate the notions of risks and hazards by integrating complementary thinking and responses

Security aspects " Safe City " for " Smart & Resilient City " Cybersecurity

Energy sobriety and efficiency (including securing power production and networks) e.g : Resilient Eco-Districts

Optimizing traffic plans and the complementarity of the different modes of production & distribution to reduce the risks of generalized malfunctioning





Fight energy poverty with the contribution to

- the housing solidarity fund (Fonds de Solidarité pour le Logement, FSL), the energy checks and a special, short-term fund for industrial and tertiary customers.
- Promote the energy accessibility of customers with renewable long-term energy contracts (PPA) and energy performance contracts

Communities

- Promote positive socio-economic impacts in the communities with direct and indirect employment,
- Develop long-term projects in the communities with the deployment of Sustainable Energy Transition label
- guaranteeing the preservation of nature, the involvement of the players and the contribution to the fight against climate change



Comment vit-on dans votre commune ?



e.g:

Urban and social services accessibility

Studies show that increasing planted surface area can significantly reduce the urban heat island effect



Vulnerability of populations to heat islands
Assess the vulnerability of citizens to global warming & act !



NEEDS



SOLUTION



IMPACTS

- Reduce the risk of extreme heat
- Protecting vulnerable populations during heat waves
- Mapping urban heat and cool islands
- Defining the best coping strategies
- Identifying Heat Islands / Urban Freshness Understanding the impact of urban form
- Calculate a Population Vulnerability Index
- Determine priority areas for action
- Identify island-wide cooling solutions (IMU) Target priority buildings (thermal strainers, ERP, etc.)
- Maximize the share of population at risk near islands of freshness



NEEDS



SOLUTION

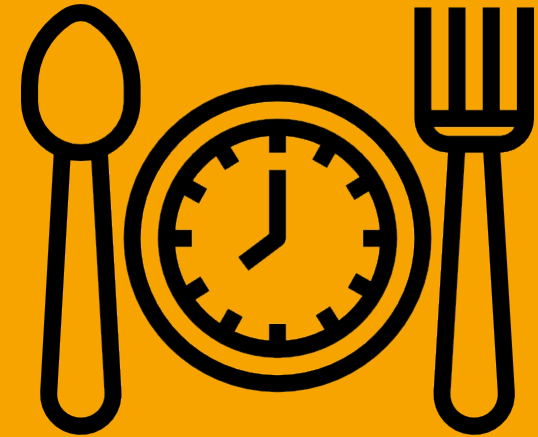


IMPACTS

www.siradel.com

cpapin.siradel.com
jlefrere.siradel.com

Networking Lunch



FOCUS 3

What energy and mobility solutions for low-carbon neighborhoods?

Les solutions énergétiques et la mobilité pour des quartiers bas carbon



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Manager Public



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www.investinalbaiulia.city

www.apulum.ro



ALBA IULIA
the other capital
WELCOME TO THE LARGEST
CITADEL IN ROMANIA





POZIȚIE GEOSTRATEGICĂ
 Conectat cu 3 aeroporturi internaționale
 Cluj-Napoca
 Târgu
 Sibiu

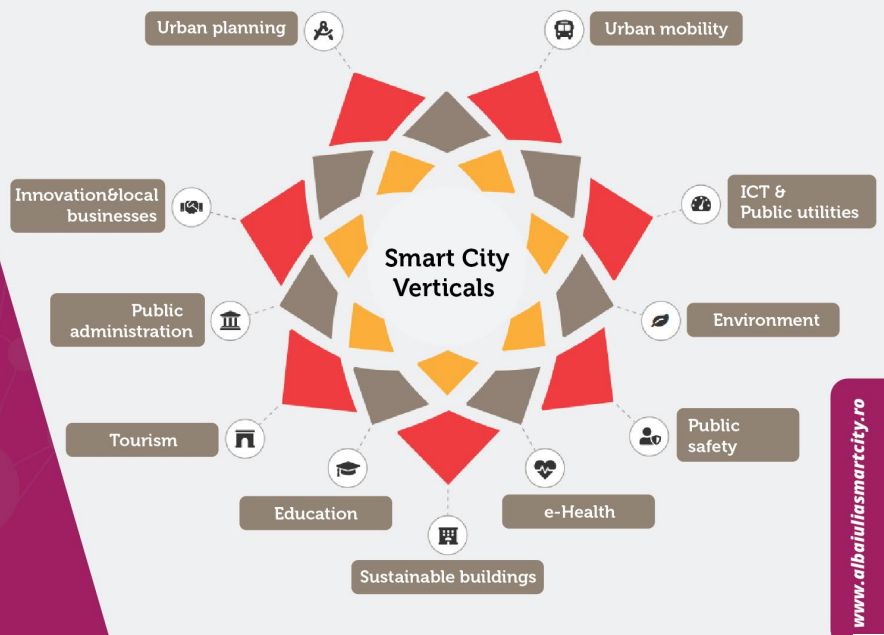
smart solutions

5 private companies involved

100% functional projects

Governance & digitalisation of public services

Ready to launch first open data platform in Romania



PRIMUL PROIECT PILOT DE SMART CITY DIN ROMÂNIA – Alba Iulia a devenit cea mai mare scenă unde au fost prezentate soluții de oraș inteligent – inclusiv în domeniul eficienței energetice în clădiri, transport și infrastructură edilitară



Many thanks to our partners!

200 MIL

EURO

2007-2017



15 TIMES THE LOCAL BUDGET



2700 EURO/CAPITA



1500 JOBS



THE OTHER CAPITAL



Regio
PROGRAMUL OPERATIONAL REGIONAL CENTRU

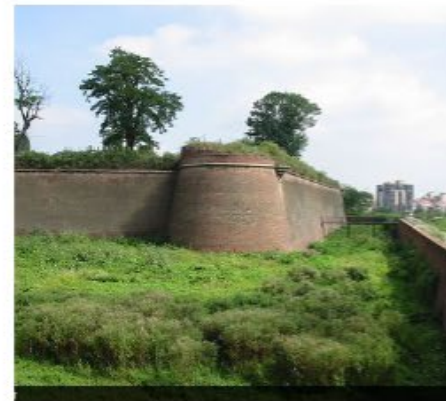
Inițiativă locală. Dezvoltare regională.



EUROPEAN UNION
European Regional Development Fund

Alba Iulia Fortress Rehabilitation

50 mil. €

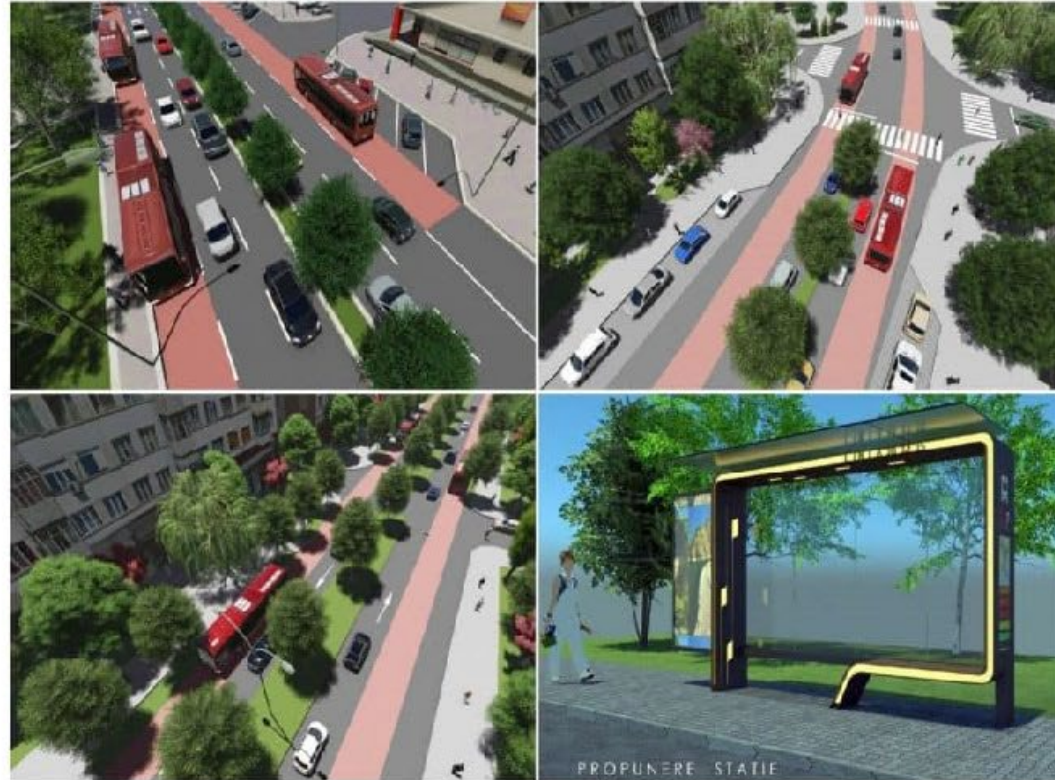




EUROPEAN UNION
European Regional Development Fund

2014-2023

80
mil. €





Reabilitare termică a clădirilor
publice și private: **peste 20
milioane de euro**
proiecte finalizate 2013-2023

- blocuri de locuințe sociale
- blocuri rezidențiale
- Școli și licee
- Camine de persoane vârstnice

PROIECTE DE MOBILITATE URBANĂ DURABILĂ

● **300** Biciclete electrice și sisteme de bike sharing

● **13** Autobuze electrice în transportul public

+ **21** de autobuze și **6** microbuze electrice prin PNRR+

● **18 km** Benzi dedicate autobuze

● **95** Camere de supraveghere video

● **45** Stații de autobuz modernizate

● **1** Centru de management al traficului

+ 110 validatoare inteligente pentru plata cu cardul în autobuze

+35 validatoare / automată de plată inteligente în stațiile de autobuz

+ 35 sisteme de afișaj electronic în stații, o pistă de biciclete prin PNRR



4114

LEDURI

2753

STÂLPI INSTALAȚI

232

**PANOURI
FOTOVOLTAICE**

132 km

**Iluminat inteligent cu
telegestiune**

50%

SCĂDERE CONSUMURI

50%

SCĂDERE EMISII CO2

11

milion Euro



200 streets

*In cloud
monitoring
sensors*

*Smart pedestrian
crossings
presence sensors*




EU funds

Post Pilot Mobility

**PROIECTE DE ILUMINAT
PUBLIC**

Planul Național de Redresare și Reziliență

Pachet de reforme și investiții publice
finanțate prin Mecanismul de Redresare și Reziliență

-  BLOCURI
-  ȘCOLI
-  GRĂDINIȚE
-  AUTOBUZE
-  CREȘE
-  PISTE BICICLETE
-  MANAGEMENT URBAN - ITS
-  RENOVARE CLĂDIRI PUBLICE
-  MEDIU
-  SOCIAL
-  DOTĂRI ȘCOLI
-  CONSORTIU REGIONAL DUAL

Alba Iulia: Peste 120 mil euro proiecte depuse - 80% proiecte verzi
Peste 50 milioane de euro contractați deja

Jan GEHL

*A good city is like a good party
- people stay longer than is
really necessary because they
feel good.*

*une bonne ville c'est comme une bonne
fête, on reste plus longtemps que
nécessaire parce qu'on se sent bien*





***Covenant of
Mayors for Climate
and Energy***

***REDUCEREA CU 40% a emisiilor
CO2 până în anul 2030***

DIN APRILIE 2021



Green City Accord

Clean and Healthy Cities for Europe



EUROPEAN ENERGY AWARD

Texte

August 2021 - the first municipality in Transylvania to receive the title Sustainable Community - European Energy Award. The performance evaluation was made on the basis of 79 indicators and 6 areas of energy efficiency.





Energy efficiency and increased comfort in the building of the Home for the elderly in Alba Iulia



Budget	
Total project budget	1.294.118 Euro
Grant amount requested	1.100.000 Euro
Grant intensity	85%

Objectives

- **OS1: 47,93% reduction CO2 emissions** reductions generated by the building of Home for the elderly, in Alba Iulia, (the equivalent of 148 tons of CO2 emissions), through an innovation process in the field of geothermal and solar energy, by developing and implementing a microgrid technical solution.
- **OS2:** Increase from 0 to **1174 MWh/year in energy production from RES** at the level of the building of Home for the elderly, through implementing a microgrid technical solution.
- **OS3: 11,76% reduction of annual savings** from renewable energy production within the local budget of Alba Iulia Municipality , (the equivalent of 29945 Euro reduction);
- **OS4:** Enhancement of the administrative capacity of one public entity in Alba Iulia, by organizing 2 types of **trainings of operating personnel**.
- **OS5: Encouraging and stimulating an energy efficient indoor environment** and also a more responsible civil society, by promoting and disseminating the project activities and outputs

Target year: 2024



Iceland
Liechtenstein
Norway grants



Innovative energy efficiency solutions for the Olympic Swimming Pool – Alba Iulia



Innovation
Norway



Diminution annuelle estimée de CO2 eq. émissions/an :

- jusqu'à 334 tonnes eq. CO2 / an (70%)
- Estimation des consommations annuelles réduites d'énergie/d'électricité : jusqu'à 1 632 MWh/an. (65-72%)
- Économies coûts annuels estimés grâce aux mesures d'efficacité énergétique : jusqu'à 62 000 EUR/an (52-72 %)
- Budget du projet
- Total : 603.875 euros
- Subvention : 513 000 EUR (84,95 %) – Innovation Norway

Design and development of an Energy Efficiency Management and Control System with cost-effective solutions for residential and educational buildings

Acronym: DOITSMARTer

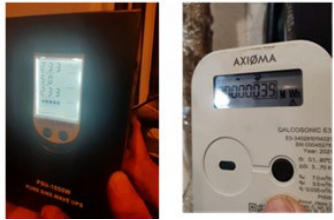
Iceland
Liechtenstein
Norway grants



Norway grants



Innovation
Norway

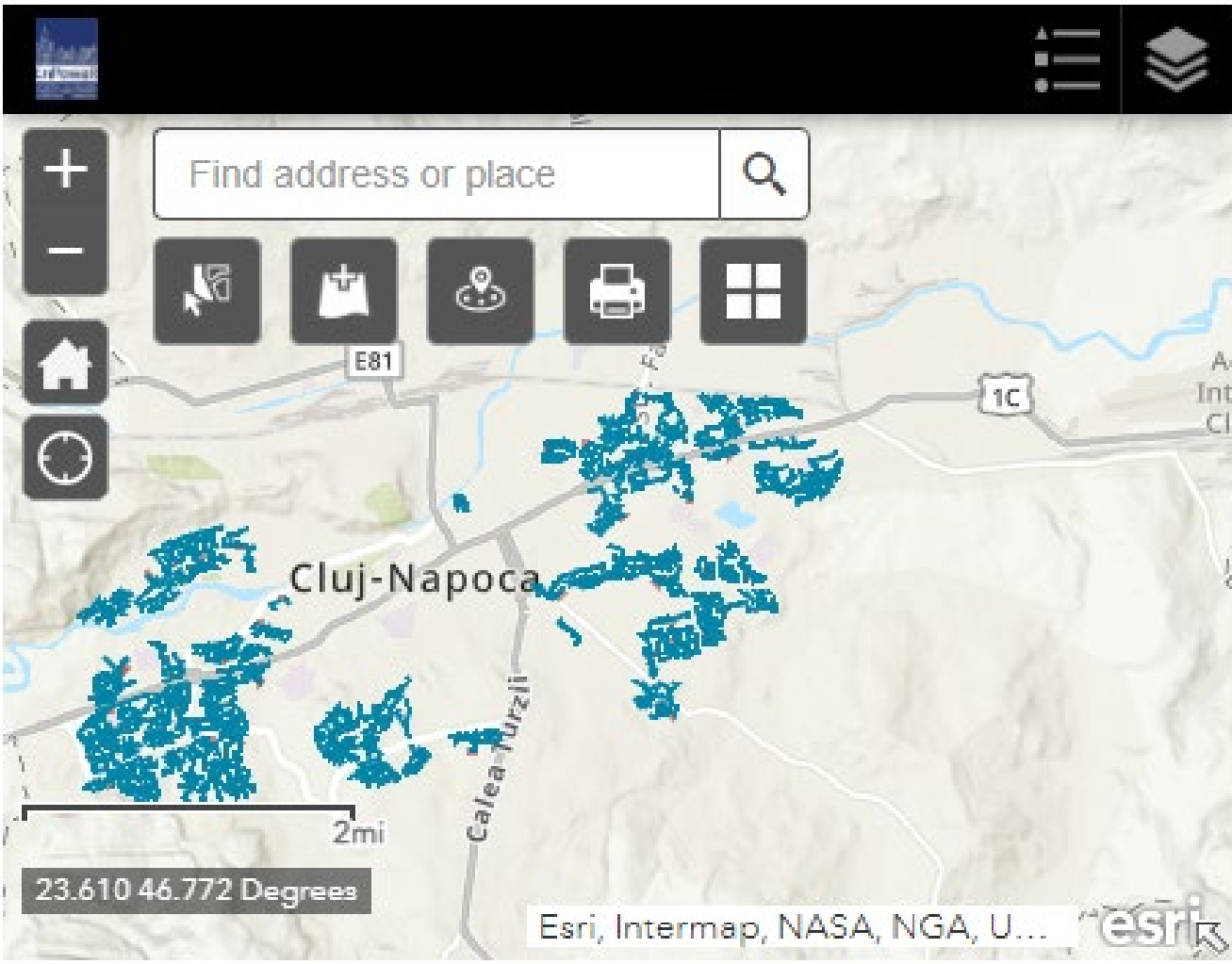


Iceland
Liechtenstein
Norway grants



Norway grants

Energy poverty map



Iceland
Liechtenstein
Norway grants



Norway grants

Innovative energy efficiency solutions for the Olympic Swimming Pool - Alba



Innovative
Norway



Nous contacter / En savoir plus



Maria Elena SEEMANN
Manager public
inovareurbana@apulum.ro

MERCI
😊



What kind of energy solutions and of mobility for low-carbon neighbourhoods?



Decarbonized mobility :
a global challenge

Jean-François Montagne
Vice-President of the Urban Community of Dunkirk



jean-francois.montagne@ville-dunkerque.fr



<https://www.communaute-urbaine-dunkerque.fr/>





Free public transportation in Dunkerque

What kind of energy solutions and of mobility for low-carbon neighbourhoods?



Decarbonized mobility : a global challenge

Anne Vial
M. Architect and M. Engineer
Project Director for Sustainable Districts



anne.vial@cerema.fr



<https://www.cerema.fr/en>



Cerema

CLIMATE & REGIONS, THE FUTURE





Reduce motorized travel: encourage walking and cycling

Decarbonized mobility : a global challenge

1/ To protect the climate, mobility must become low-carbon



Ideas to remember:

- In France, **transport is the sector that contributes most to greenhouse gas emissions**
- **A challenge of inclusion** to provide mobility solutions for the entire population
- **A climatic and environmental challenge** to achieve net zero carbon emissions by 2050
- **Technological, societal and financial challenges** in the energy sector

Decarbonized mobility : a global challenge

2/ Renewing modes of travel and organize multi-modality and share the roadway



Ideas to remember:

- **Promoting low-carbon modes of transport** in our daily journeys, optimizing the use of vehicles
- **Alternative solutions:** active mobility, public transport and decarbonizing vehicles (electric)
- **Supporting and facilitating the renewal of mobility practices** through road development
- **Reducing the need for motorized travel:** short-distance cities, multi-functional neighbourhoods, existing cities, halting the spread of suburbanisation...

Decarbonized mobility : a global challenge

3/ Simpler, more peaceful and low-carbon public spaces



Ideas to remember:

- **Favour walking and cycling for journeys** that allow it: recommendations to facilitate pedestrian and cycle traffic (safe, welcoming spaces, continuous, accessible routes, etc.)
- **Temporary public spaces** to allow users to explore other ways of getting around, to collectively accelerate the shift towards sustainable modes of travel
- **Quality public spaces**, bigger, more welcoming and low-carbon

In one sentence!

One way of achieving more carbon-free mobility:

“**Communicate, educate** to change lifestyles... and modes of transport: teach or reteach **walking and cycling** to adults and to their children for their daily journeys”.



Contact us / Find out more



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To go further

<https://www.cerema.fr/en>

<https://www.cerema.fr/en/actualites/decarbonized-mobility-global-challenge>

<https://www.cerema.fr/en/centre-ressources/boutique/creating-friendly-cycling-roads>

<https://www.cerema.fr/en/projets/mobilisyourcity>

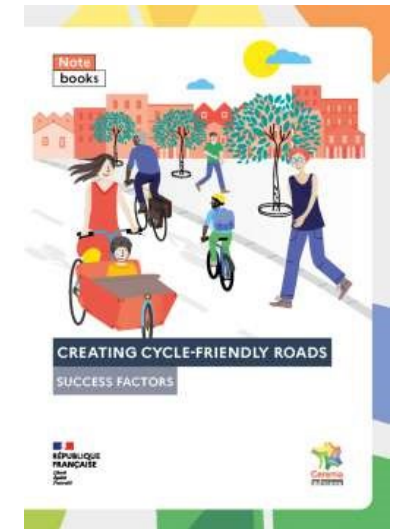
<https://www.cerema.fr/fr/actualites/design-actif-comment-amenager-espace-public-favoriser>

<https://www.cerema.fr/fr/actualites/velo-marche-cerema-action-suite-au-1er-comite-0>



Cerema

CLIMATE & REGIONS, THE FUTURE



What kind of energy solutions and of mobility for low-carbon neighbourhoods?



Decarbonized mobility : a global challenge

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GOUVERNEMENT

*Liberté
Égalité
Fraternité*



What kind of energy solutions and of mobility for low-carbon neighbourhoods?



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ENGIE



- The cost of a light electric vehicle will be lower than diesel in most applications by 2025. o A European objective to ban diesel and gasoline by 2035 at the latest.
- Growth in CNG and bioNGV vehicle fleets is particularly high in the coach, rigids and tractor segments

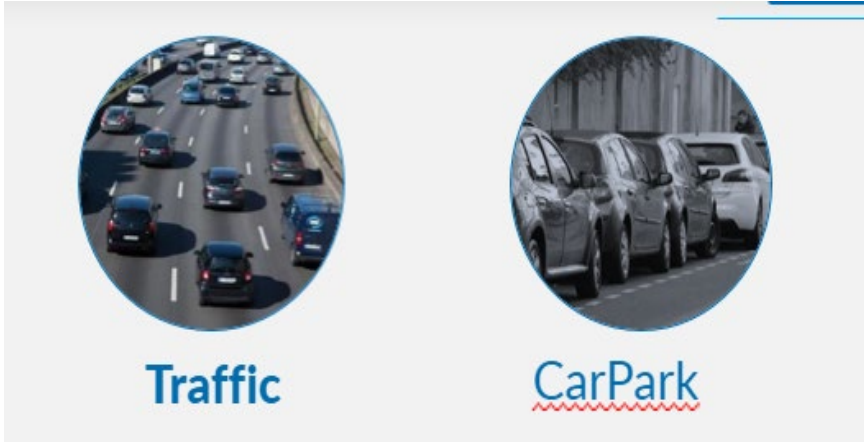


- Electrification is a strong trend that is already enabling us to decarbonize light vehicles so Electrification is already a reality, with sales of electric vehicles (EVs) rising sharply in France: by January 2022, more than 800,000 electric vehicles and plug-in hybrids were on French roads.
- This trend is general in Europe, with the market share of electric vehicle sales in Norway already over 90%, and a target of 0% fossil fuel by 2025.





Electric, BioGas and Hydrogen make it possible to decarbonize today



Resilient mobility in normal operation and in times of crisis and post-crisis is not limited to the use of alternative fuel solutions to fossil fuels.

Mobility is inseparable from resilience: It constitutes a continuous flow, involving a diversity of individual and collective behavior, strengthening or weakening the ecosystem.

Even if the reduction of emissions by alternative fuels allows the reduction of air pollution and dependency for non fossil energy producing countries, the implementation of electric mobility - individual or collective - or hydrogen mobility, implies upstream the implementation of means of production, distribution networks and a significant digital management and potentially vulnerable to risks.



NIVEAUX DE CONGESTION ET D'ÉMISSION DE CO2 EN TEMPS RÉEL



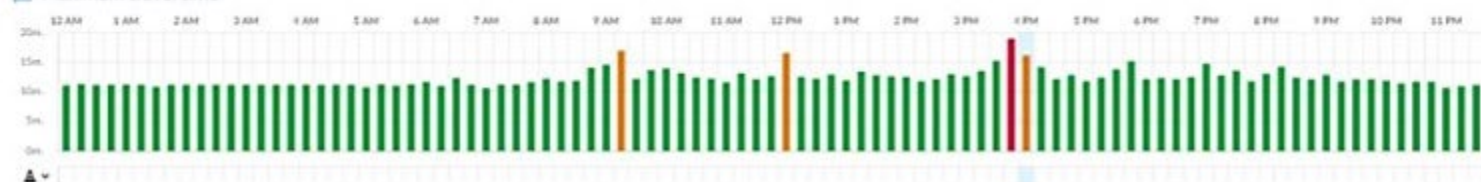
Road traffic

ROUTE
Bradley → Cleethorpes

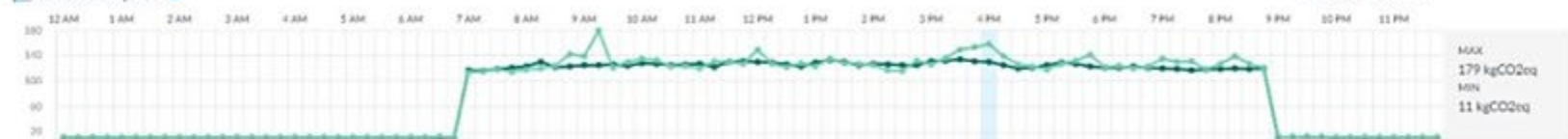
PERIOD
March 12, 2021

CARBON IMPACT

Maximum travel time



Carbon impact



*The average is computed over the same period of the previous eight weeks



Design mobility and its integration in terms of rapid changes in uses: taking into account mobility , individual cars reduction, air quality, urban planning, alternative fuels...

- Level of fluidity/congestion per lane section in real time: "How sensitive is the fleet to congestion?"
- Vehicle origins and destinations: "where do users come from and where do they go next?"
- Parking location trends: "Where do users park most often?"
- Parking duration trends:
 - "How long do vehicles stay parked? "Are there preferred areas for short and long parking?"
 - Average pedestrian densities: "What are the areas where pedestrians congregate, and how long do these congregations last?"
- Pedestrian trajectories: "Which roads are preferred for pedestrian movements?"



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“The launch of ENGIE Vianeo is another milestone in the Group’s strategy to accelerate its contribution to the decarbonisation of mobility and to position itself as leader in this sector. Our sustainable mobility offering is adapted to the needs of business and institutional actors in France, private and corporate, including towns, motorway licensees, homes, car parks and the hotel industry.

We can supply leading-edge expertise on the finance, design, construction and operation of infrastructure”

Frank Lacroix, Executive Vice President Energy Solutions at ENGIE Group.

Conclusion



Find out more on the online hub for sustainable city professionals:



<https://sustainablecitybyfrance.org/>