Landscape policy for a green, sustainable city



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(Landscape, nature, trees, management of aquatic environments and flood prevention)



Antiquity / Middle Ages

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Alberti

Classic garden



Le Nôtre





Jan Van Eyck



Nicolas Poussin

I. From garden art to urban ecology

19th century



Haussmann Garden

20th century



Horticultural garden

21st century



Natural city



Caspar David Friedrich



Monet



Land'art

II. Climate change and biodiversity loss

- Temperatures up +1.5 degrees
- More frequent heat waves Average
- Temperatures +4° degrees by 2100
- Soil dryness of 6 to 7 months by 2100
- Increased heat islands, particularly in cities

- Over the last two hundred years, species extinctions have been 10 to 1000 times faster than the natural rate
- At this rate, the planet will lose 75% of its species in 500 years.
- New diseases and pests
- Accelerating changes in species ranges







Pinus pinaster, Quercus pyrenaica Quercus ilex



Leptura aurulenta

III. The causes and consequences of climate change

a. Multifactorial causes :

- Energy production
- Deforestation
- Agriculture
- Urbanization (soil artificialization, densification,...)

b. Multifactorial causes :

- Multiple consequences for our territories
- Increased exposure and vulnerability (floods, droughts, fires, etc.)
- Accelerated loss of biodiversity
- Transformation of the landscapes that make up our heritage and identity
- Social fractures
- Public health problems



flood zone in the Bordeaux metropolitan area



water mirror

IV. Urgent need to react by rethinking the territory with a view to ecological transition

• 20th century: addition of separate public policies with no real coherence

Equation: Mobility + economic development + infrastructure + buildings + landscape + ... = disordered territory

Adaptation strategy : climate, ecosystems and human societies are highly interdependent - landscape and nature are key levers for mitigating change :

• 21st century: public policy coherence based on a common denominator (landscape & nature)

Equation: (Mobility x landscape/nature) + (economic development x landscape/nature) + (infrastructure x landscape/nature) + ... + citizen & actors in the public space = a sustainable, integrated and resilient region (systemic approach)

Résoudre le système suivant : $\begin{cases}
3x + 4y - 1 &= 23 \\
x - y + 2g &= 3 \\
2x + 3y - 4g &= 7
\end{cases}$

V. Drawing up a territorial project : macro-scale thinking, "landscape and ecology plan"

Objectives : Build a territory project to frame its short-, medium- and longterm changes.

- 1. Diagnose an area based on landscape and biodiversity: subjective and objective analysis based on rating criteria (nature, heritage, sealing, etc.).
- 2. Analyze and characterize strengths and weaknesses to identify issues by landscape unit: prioritization of issues by landscape unit (housing landscape, infrastructure landscape, industrial landscape, etc.)
- Setting targets for landscape quality and ecological richness: A political vision to guide the strategy for adjusting the territory's development plan



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IV. Drawing up a territorial project : macro-scale thinking, "landscape and ecology plan"

- 4. Define a strategy, in conjunction with local stakeholders, which is translated into an action plan: Participative approach (information, awareness-raising, consultation, etc.)
- 5. Draw up and implement an action plan :
 - Macro : Adapt urban planning rules to provide a framework for territorial development and enable landscape and ecological continuity.
 - Micro : Define a series of operational projects

6. Promoting and evaluating the regional project to finetune it : consultation, information, tools, education, landscape and ecology committee, landscape and nature center, achievements, pedagogy, education...

Aptions	Seiz-attore	Stations	Priprites (3, 2 yiu 5)	Montan TTC
3.1 - Désekupper an profinstaur le tearre verte, Sécure et la vier au sein de la matrice arbeite octimente ante augesche Skaphtigen.	Action 1.1.1. Hazaroverto l'accienne zone d'actività da la officiaentre en un part naturel par un projet de renaturation alle de connector le contre historique à la mérec			
	Action 1.1.2 : Crère un plan plurianner de gestion pour restaurer le qualité écologique des cours et eux pour amélioner le qualité des milieux et de l'exe			
		1		
1.2 Anticiper et organiser les motations antaines an les cadhant selon les objactifs de transition écologique en éliptopent la traine verta, bleue et brune	Action 1.2.1: Divertageer une wille functive pour recentrar l'habitat et les activités en faisant évoluer le PULIes intégreut le réglementation relative aux continuités écologiques et au coefficient de Sattage			
	T.			
5				
Diestation 2: Protinger et magni	Ter le paysage natural et culturel des voldes, des forêts et des cours d'eau			
2.3 Mettro en súeur el faire décuavit le patrimoine naturel	Action 2.1.1 : Domer à décision et à viere les bords de l'enves créant des chemins de sandomée			
	-			



Place de la Victoire – Bordeaux (France) 2024

V. Example: work on the "habitat landscape" landscape unit

- Objectives: identify nature-deficient areas in the "habitat landscape" to optimize isochromes (200ml).
- 1. Mapping work by cross-referencing population data with landscape and biodiversity diagnosis
- 1. Locate areas with nature deficits
- 2. Undertake corrective actions to reintegrate nature into priority areas by spreading it into public spaces, based on the concept of "second skin", integrating mobility and buildings.
- 3. Co-construct projects with residents at every stage of the project







VI. Example of an action plan project carried out with local residents: renaturation of a former industrial wasteland into a nature park













VI. Example of an action plan project carried out with local residents: renaturation of a former industrial wasteland into a nature park



Community garden



Orchard



Eco-grazing



Nature in sanctuary



Phytoremediation



Wetland

VI. Example of an action plan project carried out with local residents: renaturation of a former industrial wasteland into a nature park



Human + Landscape + Biodiversity = Green, sustainable and happy city 🙂