

Business Case Factsheet

Lille, France



Lille France

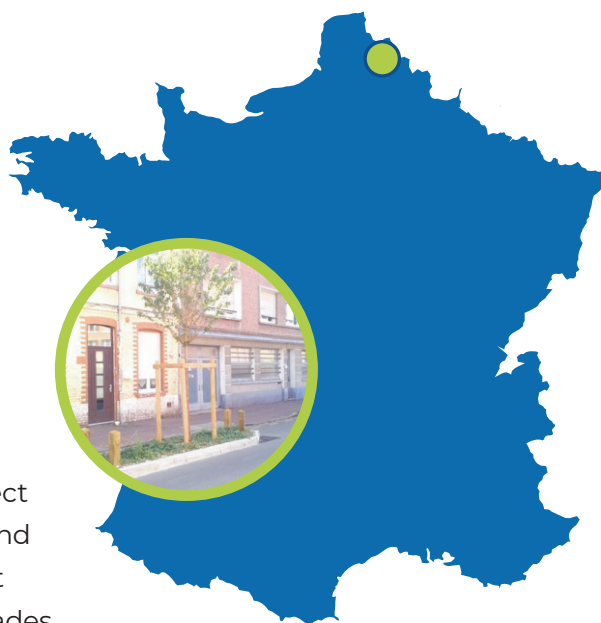
Project area

52397 sq m

Landscape

City/urban

The project is located in two areas, both in very dense and grey neighbourhoods (Wazemmes and Moulins). The two city blocks were included in Lille's pilot project that supports the greening of facades and planting of trees in grey streets. The first "block" was modified with 22 green facades, while the second "block" was planted with 18 trees.



Scenario Comparison
















BASELINE SCENARIO

The "baseline scenario" is the existing state of the project area : a small square with existing trees and mineral streets.

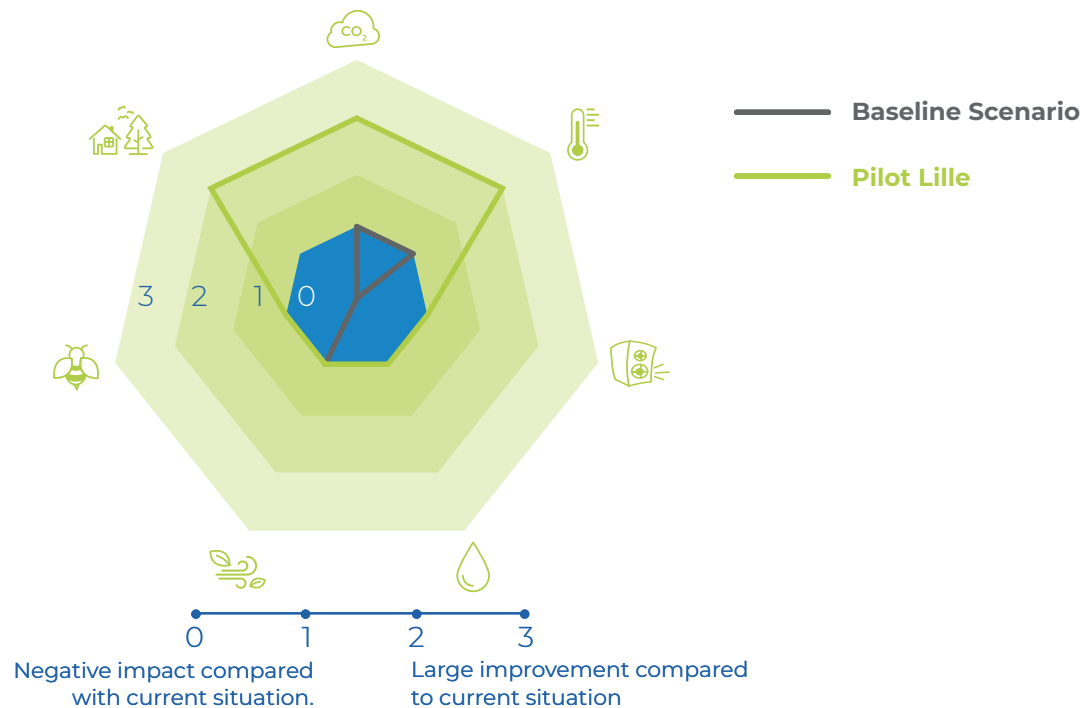
PILOT LILLE

The "green scenario" includes the planting of 18 additional trees with pits that contributes to the water infiltration and contain small shrubby plants, and greening the façades of 22 houses by opening pits alongside the walls with a medium size of 30sqm by 50sqm.







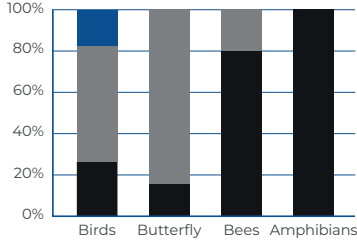
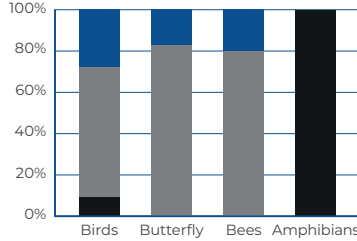
Ecosystem Services


 Food	 Physical and mental health	 Micro climate regulation
 Materials	 Noise pollution	 Recreation, and Tourism by external visitors
 Education and raising awareness	 Aesthetic appreciation	 Social cohesion
 Habitat for biodiversity	 Attractor for companies and investments	 Real estate prices
 Carbon sequestration	 Air filtering	 Water retention and infiltration

Selected Parameters



Scenario Comparison

	BASELINE SCENARIO	PILOT LILLE
 Water retention	1558.23 m³/yr	2350.59 m³/yr
 Noise Pollution	0.65 dB	0.80 dB
 Air Filtering	25.56 kg/yr	39.69 kg/yr
 Carbon Sequestration	198 kg/yr	418 kg/yr
 Micro-climate Regulation	Outdoor: 0.32°C red. Indoor: °C red.	Outdoor: 0.41°C red. Indoor: °C red.
 Habitat for Biodiversity		
	SW - Index 0.00	SW - Index 1.21

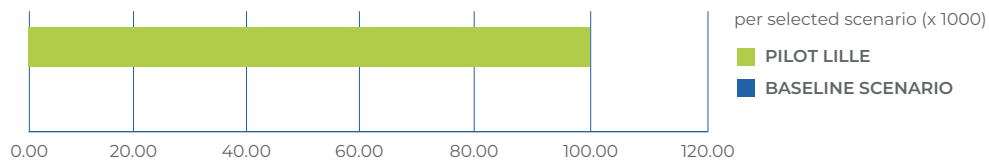
	BASELINE SCENARIO	PILOT LILLE
Aesthetic appreciation		
 Does this scenario provide an aesthetically attractive place to live or work in?	To a limited extent	To some extent
Do people value the area for its contribution to the local landscape or streetscape?	Not at all	To a great extent
Does this scenario create, or add to, a sense of place and visual identity?	Not at all	To a great extent

Financial Information

Initial Investment

€ 0,00

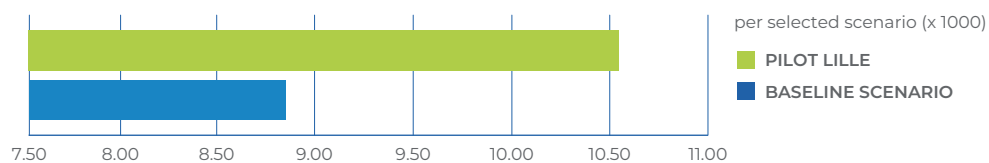
€ 99,850.00



Maintenance Costs (euro)

€ 8,843.20

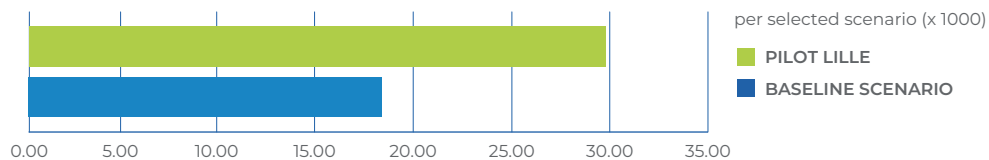
€ 10,550.44



Monetary Benefits (euro/year)

€ 18,328.22

€ 29,682.68



Conclusion

The additional micro-greening brings natural ecosystem services such as water retention and carbon sequestration. Another positive output is the aesthetic appreciation of the neighbourhood, which is strengthened due to the presence of nature in the streets.

The maintenance cost and investment cost is higher in the green scenario, but the annual benefit is estimated to €10,000 greater per year than in the “no-action” scenario.

This factsheet presents the Business case and data generated for the green infrastructure scenarios using the Nature Smart Cities Business Model. The factsheet design has been adapted for external promotion.

For more information and to access the Business Model visit: <https://www.uantwerpen.be/en/centres/environment-sustainable-development/research/projects/nature-smart-cities/>