

Business Case Factsheet

Rediscovering the Kerkebeek and
revitalising Wijkpark Ten Boomgaard



Brugge Belgium

Project area

23563 sq m

Landscape

Town/suburb



The pilot zone 'Wijkpark Ten Boomgaard' has many opportunities to enhance greening and natural value in a relatively simple way. Now the project area contains mostly monolith paving. Redesigning this area should bring it into an open profile.

Scenario Comparison
















BASELINE SCENARIO

De Kerkebeek is currently boxed in and flows underground through the project area. The project area currently has a large grassy area, as well as pavement. The project area also forms a connection to the city and station neighborhood, through the bike path that runs through it.

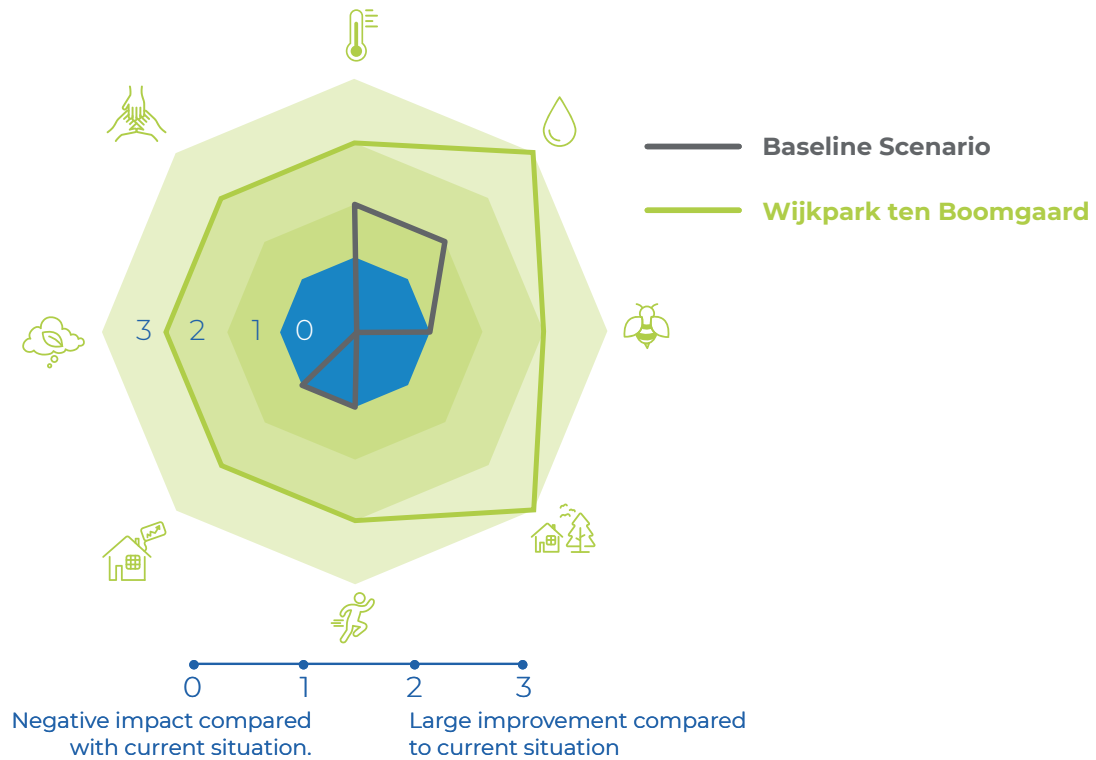
WIJKPARK TEN BOOMGAARD

De Kerkebeek will be exposed and become visible to residents and commuters. The park will have a stronger recreational character. Much of the paving will give way to more trees and shrubs.




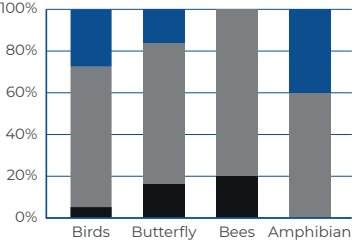
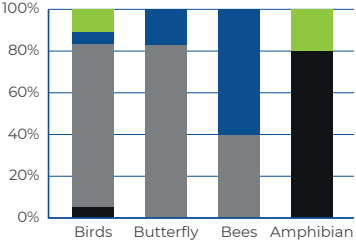
Ecosystem Services

- | | | |
|---|---|---|
|  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	WIJKPARK TEN BOOMGAARD
 Water retention	11587.03 m ³ /yr	13764.18 m ³ /yr
 Micro-climate Regulation	Outdoor: 1.8°C red. Indoor: °C red.	Outdoor: 1.85°C red. Indoor: °C red.
 Habitat for Biodiversity		
	SW - Index 2.41	SW - Index 3.04


■ Very suitable habitat ■ Habitat with moderate potential
■ Habitat with little potential ■ Not a suitable habitat

	BASELINE SCENARIO	WIJKPARK TEN BOOMGAARD
Aesthetic appreciation		
Does this scenario provide an aesthetically attractive place to live or work in?	To a limited extent	To a great extent
 Does this scenario make outdoor activities more enjoyable?	Not at all	To a great extent
Does this scenario include an attractive mix of different landscape elements?	To a limited extent	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
Real Estate Prices		
 Average house price in the area?	€ 350,000.00	€ 384,183.33


Physical and mental health

	Does this scenario provide an environment that help people relax and reduce stress?	To a limited extent	To a great extent
	Does this scenario provide opportunities for people to socialise with neighbours?	To a limited extent	To a great extent
	Does this scenario provide opportunities for volunteering and 'giving back'?	Not at all	Not at all
	Does this scenario encourage active outdoor exercise?	To a limited extent	To some extent
	Does this scenario reduce ambient noise, promote peace, quiet and tranquillity, and so contribute to people's mental health?	To a limited extent	To a great extent
	Does this scenario provide space for sport and active play?	To a limited extent	To some extent
	Does this scenario provide green elements in a densely urban area?	To a limited extent	To a great extent
	Does this scenario improve shading in the area to improve thermal comfort?	To a limited extent	To some extent

Education and raising awareness

	Does this scenario provide opportunities to attract visits from schools and from other groups wanting to understand its value?	Not at all	To a great extent
	Does this scenario raise awareness of climate change and actions to mitigate its effects?	Not at all	To a great extent
	Does this scenario serve as an example that might inspire other municipalities?	Not at all	To a great extent

Social cohesion

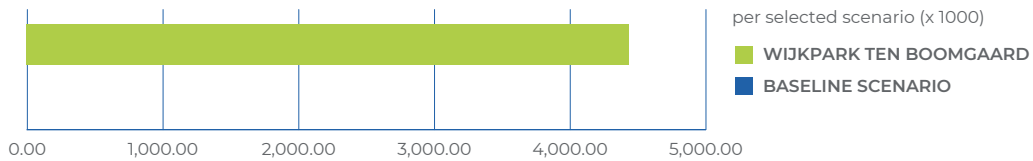
	Does this scenario encourage people to spend more time in the public realm?	To a limited extent	To a great extent
	Does this scenario offer opportunities for local people to meet and socialise, e.g. providing benches, spaces for picnics?	To a limited extent	To a great extent
	Does this scenario contribute to a sense of place and visual identity?	Not at all	To a great extent

Financial Information

Initial Investment

€ 0,00

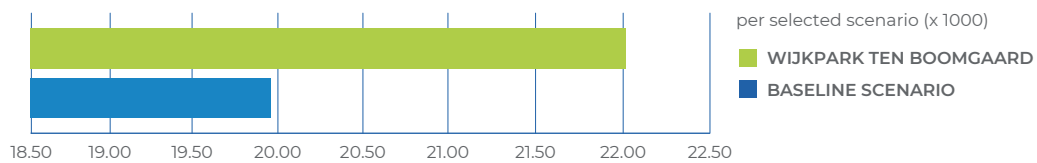
€ 4,426,183.50



Maintenance Costs (euro)

€ 19,926.49

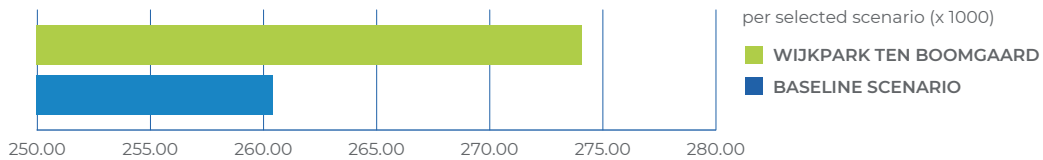
€ 22,018.98



Monetary Benefits (euro/year)

€ 260,475.71

€ 274,193.89



Conclusion

Considerable improvement in annual monetized benefits of the new Ten Boomgaard park, it is clear that the yearly benefits outweigh the yearly recurring maintenance costs. Moreover, substantial improvements in the cultural ecosystem services in qualitative terms indicate the revitalization of the neighbourhood that might result from the project. Further we see that real estate prices might rise considerably.

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/>

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