Business Case Factsheet

Whitehill Road estate, Abbey ward, Cambridge



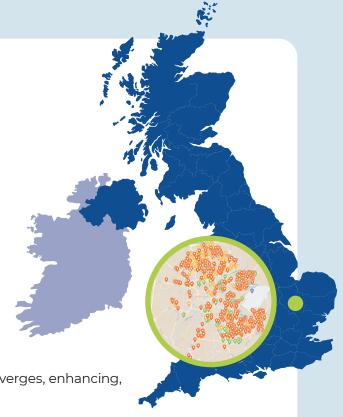




CambridgeUnited Kingdom

Project area	Landscape	
265163 sq m	City/urban	

The project to plant 86 trees in the Whitehill estate is part of Cambridge City Council's Canopy Project to help the city become more resilient to climate change through protecting and enhancing the city's urban forest. The trees will be planted into roadside verges, enhancing, an existing framework of street trees.



Scenario Comparison

BASELINE SCENARIO

2018 TCC, no net gain i.e. existing canopy loss = existing canopy growth

CAMBRIDGE CANOPY PROJECT INTERVENTIONS

Cambridge Canopy Project planting interventions (2020 - 2023) - i.e. 86 new street trees planted 2022/2023 + no net loss (i.e. existing canopy loss = existing canopy growth).

Ecosystem Services





Physical and mental health



Micro climate regulation





Noise pollution



Recreation, and Tourism







Social cohesion



Habitat for biodiversity



Attractor for companies and investments





Carbon sequestration

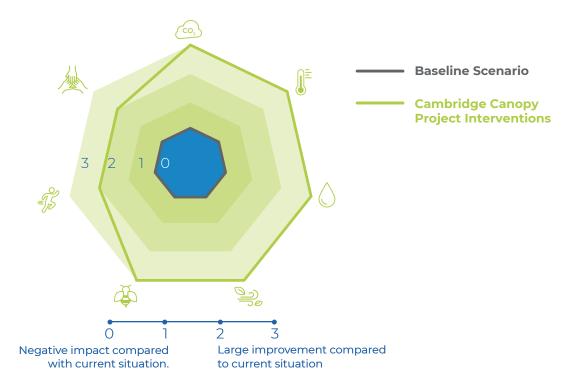


Air filtering



Water retention and infiltration

Selected Parameters



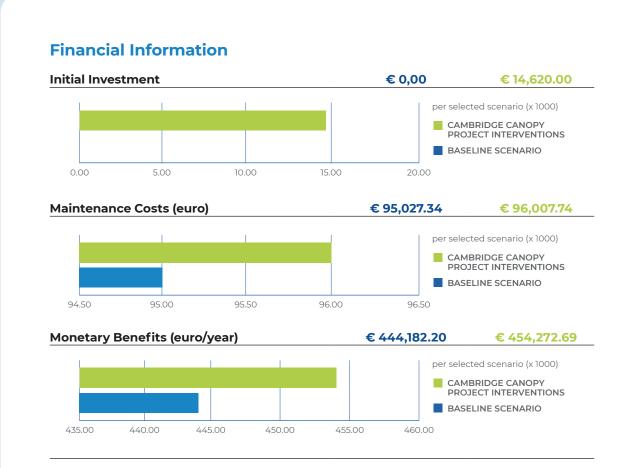
Scenario Comparison

	BASELINE SCENARIO	CAMBRIDGE CANOPY PROJECT INTERVENTIONS	
Water rete	ention 76974.60 m³/yr	78481.81 m³/yr	
Air Filterin	g 657.50 kg/yr	718.56 kg/yr	
Carbon Sequestra	35686 kg/yr	36159 kg/yr	
Micro-clim Regulation		Outdoor: 1.72°C red. Indoor: °C red.	
Habitat fo Biodiversi		Habitat with moderate potential	

BASELINE
SCENARIO

CAMBRIDGE
CANOPY PROJECT
INTERVENTIONS

			INTERVENTIONS
	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 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 a great extent
	Social cohesion		
	Does this scenario make local residents likely to feel more happy/proud to live in the locality and therefore less likely to move away?	To a limited extent	To a great extent
	Does this scenario help to reduce anti-social behaviour?	To a limited extent	To a great extent
	Does this scenario contribute to a sense of place and visual identity?	To a limited extent	To a great extent
	Does this scenario support people, and/ or groups of people, who are socially or economically marginalised?	To a limited extent	To a great extent



Conclusion

The investment required to plant and manage an additional 86 trees within an existing framework of street trees will be recouped over two years via the ecosystem services and benefits that flow from them. The trees will provide their benefits to the community for at least thirty years.

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/