Business Case Factsheet

Wemeldinge Noordzijde is a climate proof revitalization of a neighbourhood







Kapelle Netherlands

Project area 26,430 sq m

Landscape town/suburb

In Wemeldinge Noordzijde the sewerage system needs renovation. Due to the outdated system and large paved surfaces, lower streets around the neighbourhood experienced regular pluvial flooding. Participation in Nature Smart Cities will enable the Municipality of Kapelle to incorporate a range of water management measures, increase the urban green in the area and update the sewerage system all in one go. Water-permeable pavement will be installed in four streets with parking spaces, while wadi's and additional vegetation will slow the water runoff to lower areas.

Scenario Comparison

BASELINE SCENARIO

Renewing the sewage system with wide pipes for draining stormwater, adding a large pipe which carries the lying area. Improving the road quality using asphalt only.

REVITALIZATION

Increasing green area with at least 0,6 ha. Construct permeable green streets, parking places and wadis. Complement water from rainstorm peaks to a lower with new, grey sewage system, such as the wide pipe which is also part of the grey scenario.



Scenario Comparison



Financial Information



Conclusion

In the old scenario Wemeldinge Noordzijde was a neighbourhood with mainly grey infrastructure. With this project Wemeldinge Noordzijde, the municipality of Kapelle implements a green scenario with more green, swales, permeable pavers, and a diversity of trees to create a climate proof neighbourhood. It decreases the temperature, improves water retention capacity. It even gives some improvements on biodiversity.

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: <u>https://www.uantwerpen.be/en/centres/environment-</u> sustainable-development/research/projects/nature-smart-cities/

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