

Eindhoven: detailed information & replication conditions for the <u>NBS: daylight water course</u>

EINDHOVEN



European Commission



- Introduction: description of the studied area and of the water related challenges that had to be faced
- Description of the different water related NBS adopted
- Successful stories that inspired the water related NBS implemented
- Conclusions: suggestions related to the previous reported experiences that could be helpful to the other cities





Introduction: Eindhoven started almost 20 years ago with the reconstruction of water courses in order to make the watersystem visible and to create a more robust and as natural as possible watersystem.

Naar een klimaatbestendige gemeente 14



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- Part of the 'Gender' is already constructed as well as a few other water as will be shown
- Conclusions: suggestions related to the previous reported experiences that could be helpful to the other cities





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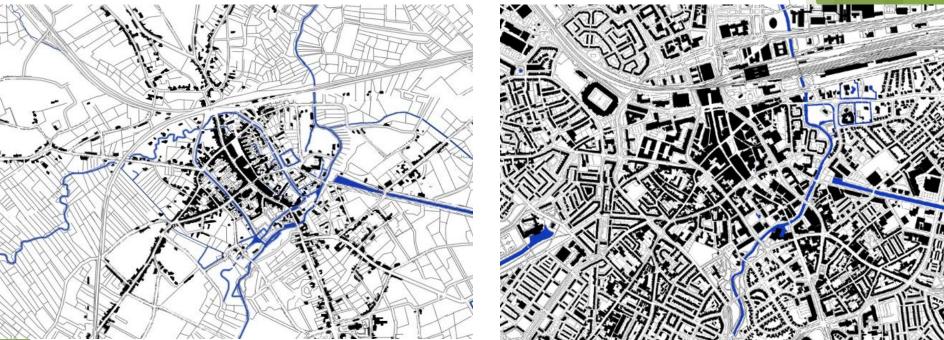
Eindhoven

Description of the studied area

In the past the 'Gender' was covered and finally changed into a sewage. How to daylight the 'Gender' again.

Eindhoven 1899

Eindhoven 2012





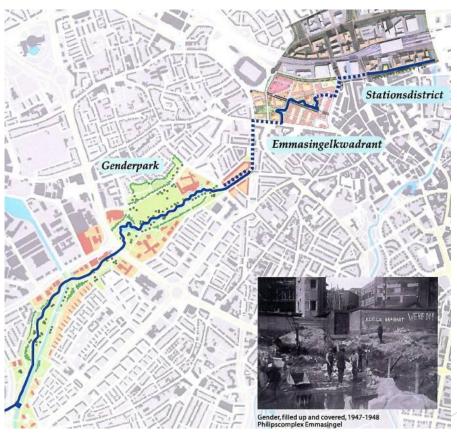
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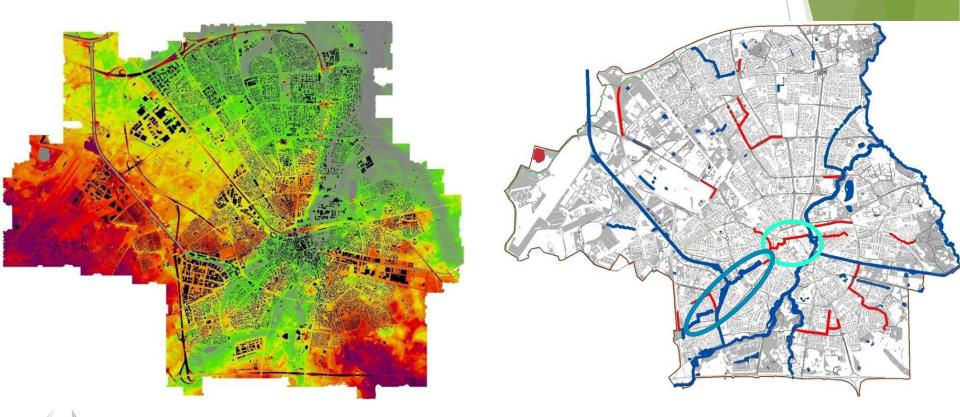
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Eindhoven

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Eindhoven NBS: Daylight Watercourse

NBS 1: daylighting water course Making the water system visible **Objectives** Because the city has grown it's hard to find places to create a Description water course Mostly water courses will be situated next to a road. The **Relation with** wider a road is the easier it is to create a water course grey infrastructures Citizens, the Waterboard, politicians, civil engineers Actors involved They will be given the opportunity to produce input and Role of the

community discus the designs

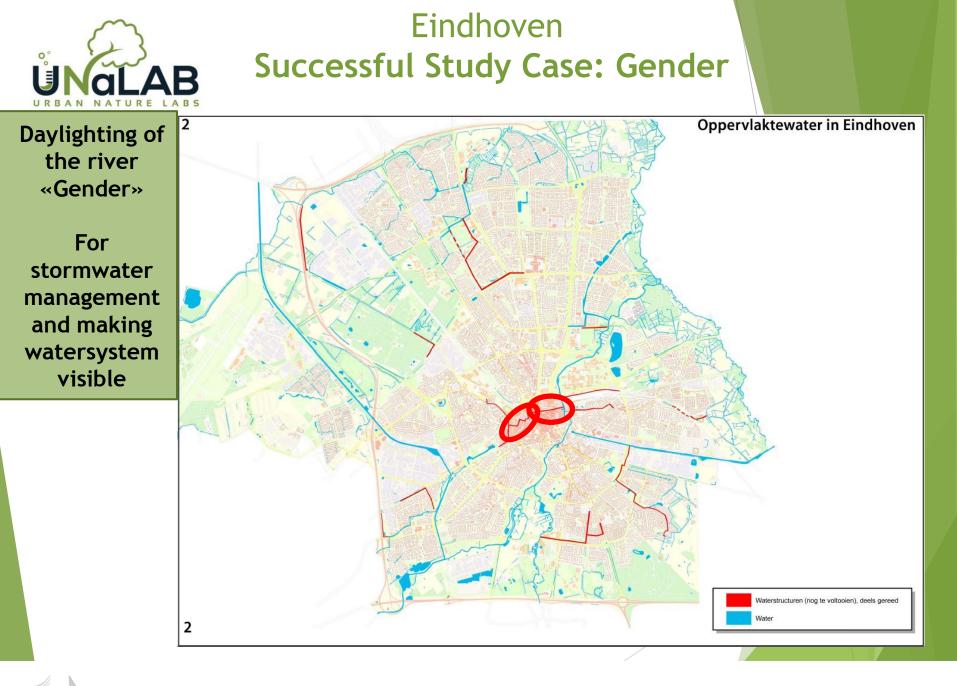




Eindhoven NBS: Daylight Watercourse

	NBS 1: daylighting water course	
Technical & legislative pre-conditions	Sometimes available space is not enough to create the ideal solution The waterboard demands special solution	
Cost & financing	Who's going to pay:Municipality (water department)Waterboard	
Barriers	Ownership of the area Value of a water course is underestimated Space can only be used ones	





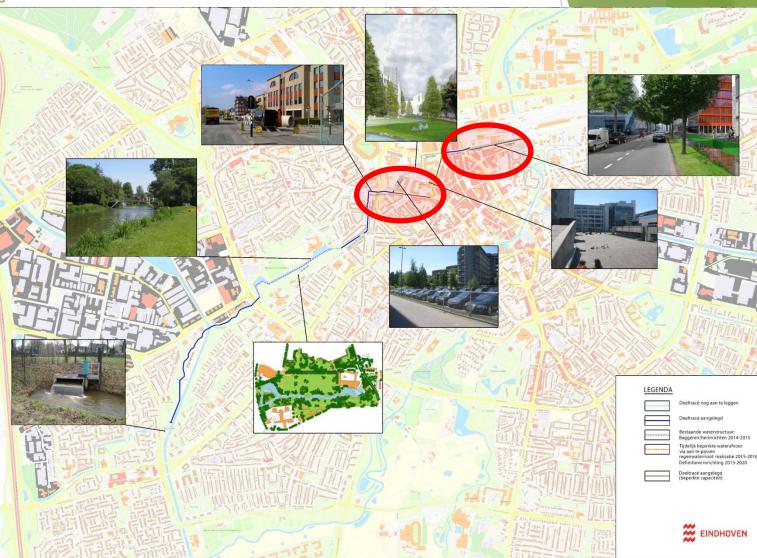
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Eindhoven Successful Study Case: Gender

Daylighting of the river «Gender»

For stormwater management and making watersystem visible





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Eindhoven **NBS: Daylight Watercourse**

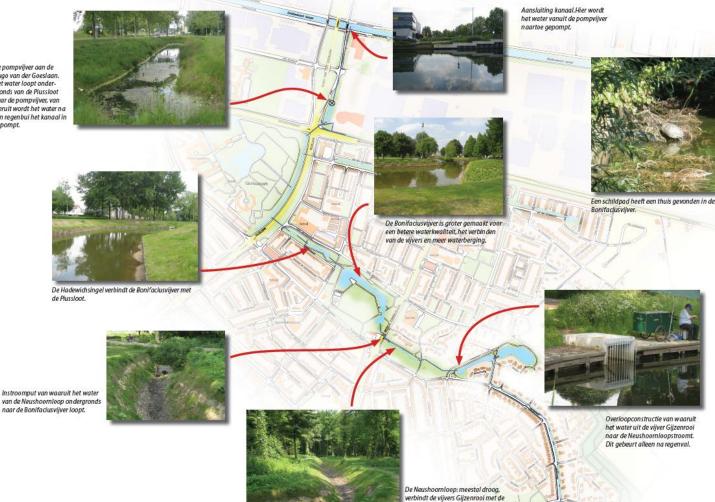




Eindhoven **Successful Study Case**

Water system «De Burgh» Connecting water bodies and disconnecting from sewage plant

De pompvijver aan de Hugo van der Goeslaan. Het water loopt ondergronds van de Piussloot naar de pompvijver, van hieruit wordt het water na een regenbui het kanaal in gepompt.





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Bonifacius viiver.

— duiker (verbindingsbuis)

⊗ pomp



Eindhoven Helpful Suggestions

Suggestions related to the previous reported experiences

that could be helpful to the other cities:

More examples (designs and constructed) of water systems are avialable





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A new created water system: Meerhoven





pump



Water system artificial flow





European Commission



A new created water system: Meerhoven grondlevel elevation

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