

# Case study: LIFE+ GreenLED project

**Ruben Wentink**  
**FieldFactors**



# GreenLED

# Safe water reuse

Project presentation for  
EU GREEN WEEK 2024  
Towards a water resilient Europe

Ruben Wentink | Business Developer FieldFactors

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# GreenLED is an EU LIFE funded project with 6 partners

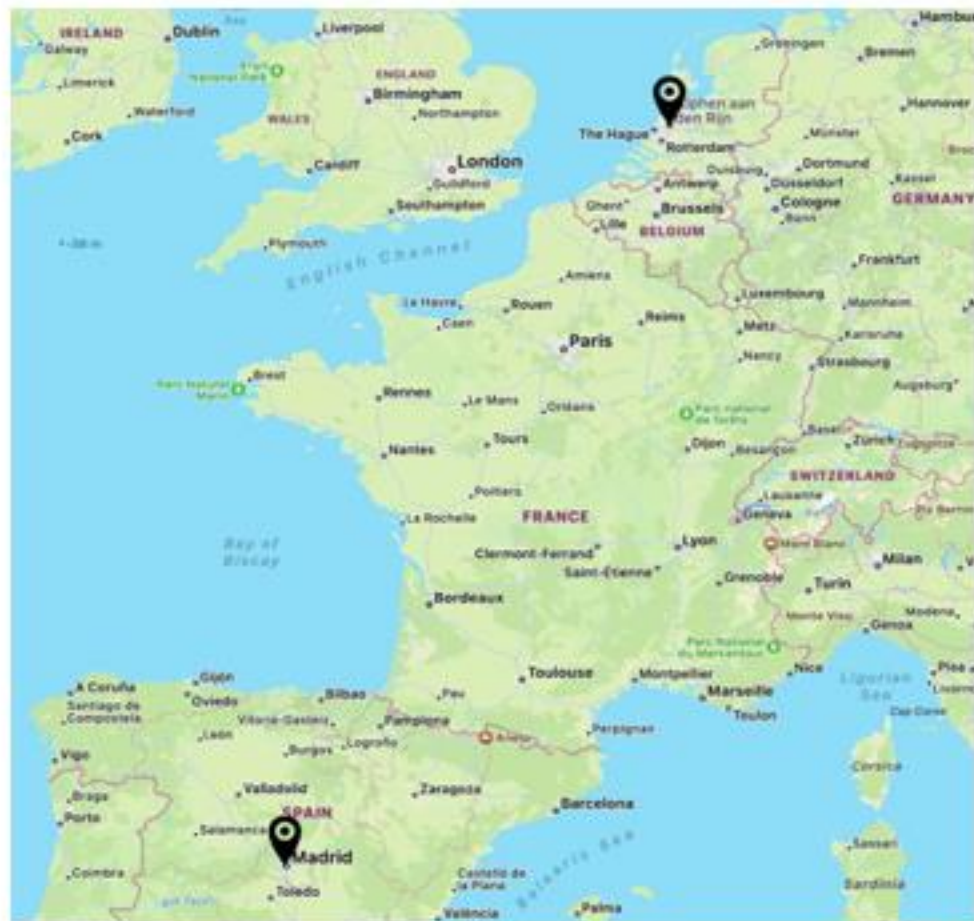
**Location:** Alphen aan den Rijn (NL), Madrid (ES)

**Duration:** July 2023 – Jun 2027

**Problem(s) addressed:** Increasing pressure on both drainage and water supply system due to:

- More frequent droughts
- More frequent extreme rainfall
- Increasing urbanisation

**Partners:**





# Urban safe water reuse applications



Supply of urban ponds and fountains



Supply for non-potable use in buildings

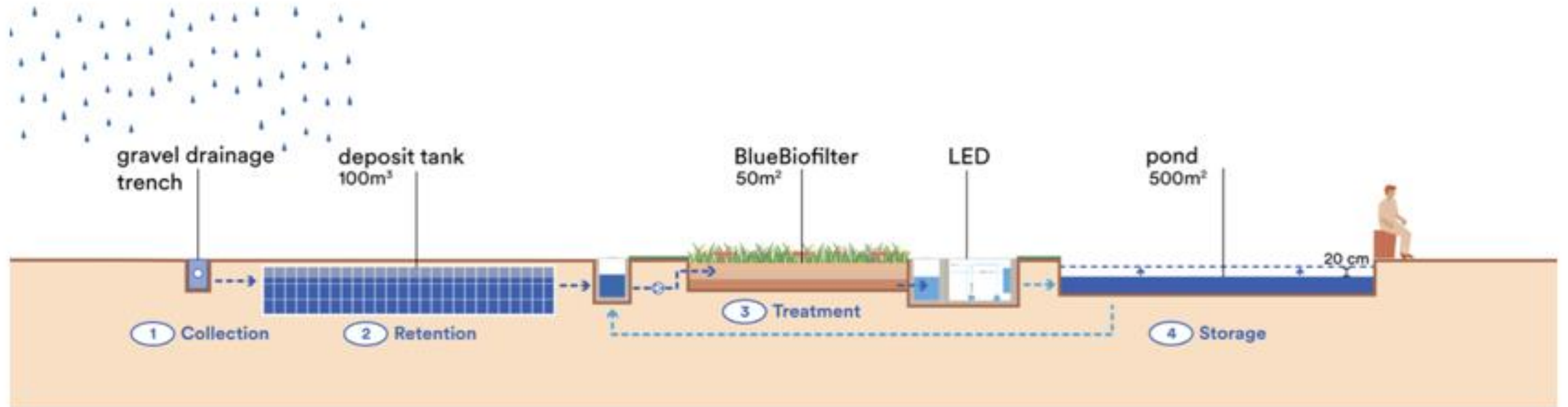


Irrigation of green roofs and green facades

Demo site 1

# Los Ahijones – Parque Oeste

Rainwater collection and treatment to supply urban water features.



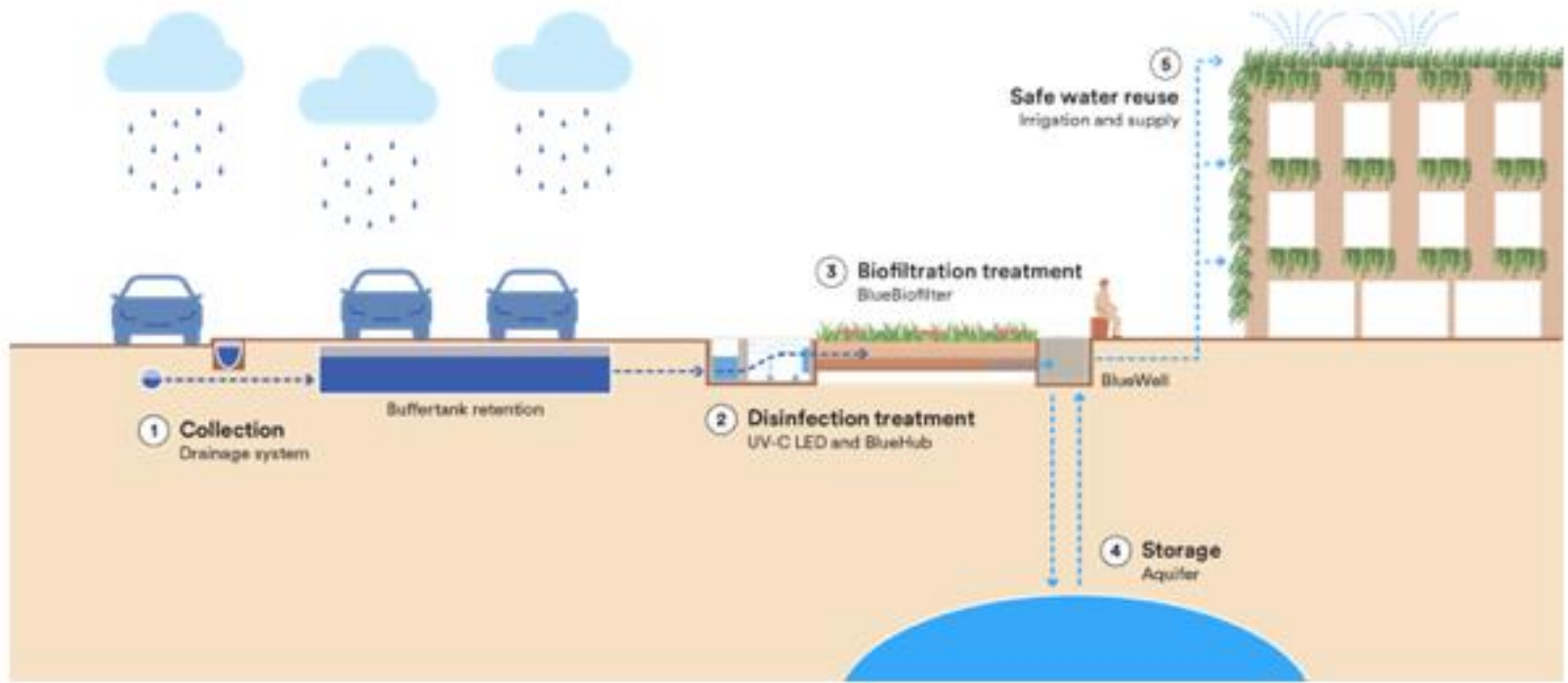
Demo site 2



Alphen aan den Rijn,  
Netherlands

# Alphen aan den Rijn Lage Zijde

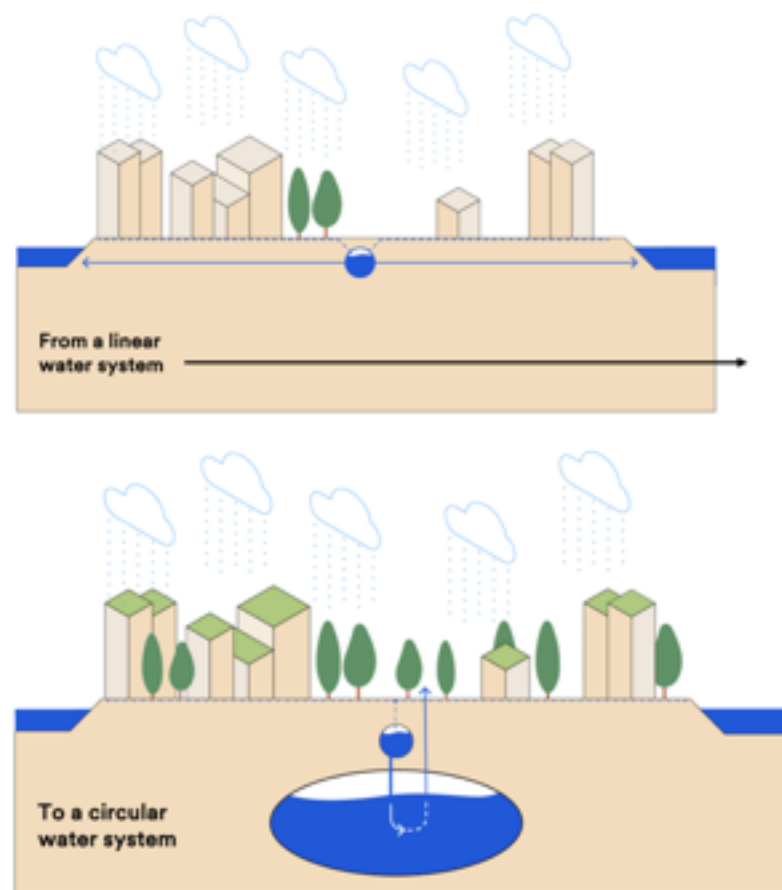
Rainwater collection, seasonal storage, and treatment to supply urban green.



Expected impact

# GreenLED aims to support the transition to a circular water system

- 1. Provide proof of the technical viability of the GreenLED integrated concept**
- 2. Develop and validate the business case of the combined nature-based/LED solution for rainwater harvesting and reuse.**
- 3. Support wider implementation by developing a roadmap to market uptake**
- 4. Inform and advocate for legislative reform to standardise infiltration & reuse standards**



# The integral nature of the solution was key to getting GreenLED off the ground

## Successes

- ✓ Integral approach - addressing multiple climate adaptation challenges together
- ✓ Integration of novel technologies, validated through full scale application
- ✓ High replicability of the solution
- ✓ Disinfection brings ASR to a wider variety of use cases

## Challenges

- ✗ Lack of space in urban areas
- ✗ Drinking water is still cheap
- ✗ Legislation for infiltration & reuse is complex



# Nature and LED based rainwater treatment for reuse in green cities

Contact us:

[www.lifegreenled.eu](http://www.lifegreenled.eu)

[greenled@fieldfactors.com](mailto:greenled@fieldfactors.com)



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EU Committee of the Regions  
31<sup>st</sup> May 2024

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