

An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta Department of Housing, Local Government and Heritage

## Urban Water Quality Policy

Averil Gannon, Water Policy Advisor 28<sup>th</sup> May 2024

## Urban Water Quality Policy - Agenda



- River Basin Management Plan
- Recast Urban Wastewater
  Treatment Directive
- Nature-based solutions

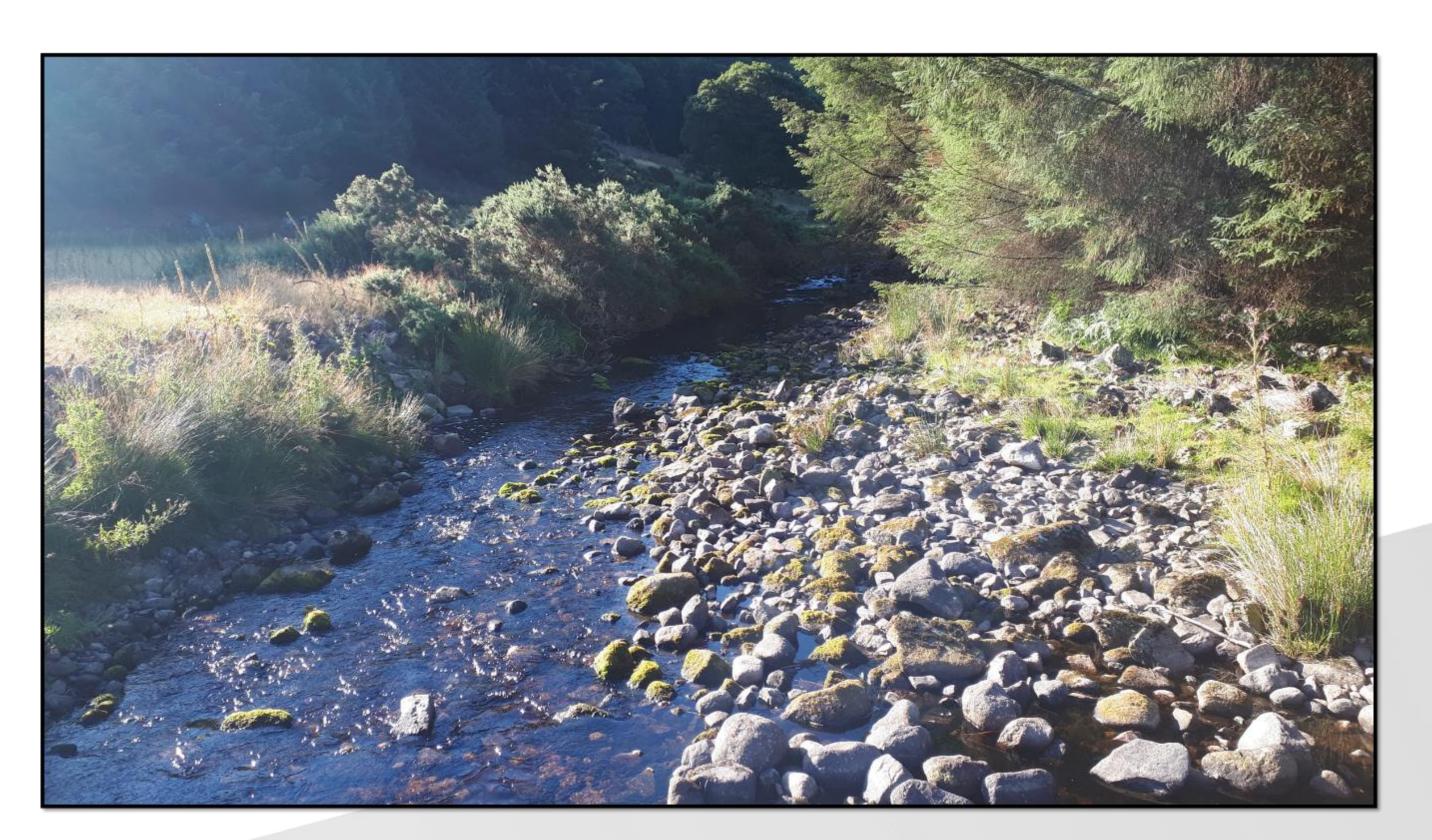


Photo: Avonmore River, Waters of LIFE project



## River Basin Management Plan





- Text and programme of measures has now been finalised
- Appropriate Assessment, Graphic design and Irish translation underway
- Intention to launch Q2 2024



#### Recast Urban Wastewater Treatment Directive



Brussels, 26.10.2022 COM(2022) 541 final 2022/0345 (COD)

Proposal for a

#### DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

concerning urban wastewater treatment (recast)

(Text with EEA relevance)

{SEC(2022) 541} - {SWD(2022) 541, 544}

- Recast Urban Wastewater Treatment Directive proposal published by EU Commission October 2022.
- Existing Urban Wastewater Treatment legislation is over 30 years old.
- Member States and Commission: Started working party level meetings from January 2023.
- Final agreed Council text in September 2023

### **European Parliament**



- Current MEPs are elected from July 2019-2024
- Rapporteur and shadow rapporteur were appointed on the file in Q1 2023
- European Parliament agreed their text on October 2023
- New European Parliament election in June 2024



Image by European Parliament

## Recast Urban Wastewater Treatment Directive- next steps

- Technical trilogue started in November 2023.
- A compromised text was agreed in March 2024
- European Parliament voted on compromised text in March and April 2024
- European Council of Environment Ministers will vote on compromised text in the autumn
- Final European Parliament vote in autumn, after translation and with new Parliament.
- Entry into force expected to be Q4 2024
- Member states have 2.5 years to transpose into national legislation



Image of Berlaymont Building by Wikipedia

#### **Irelands Actions:**

Urban Wastewater Expert Group was established Q1 2023



Membership include representatives from:

Uisce Éireann	CRU	NSAI	Dept. of Environment, Climate and Communications
CCMA	GSI	Dept. of Health	Dept. of Housing, Local Government and Heritage
EPA	HSE	SEAI	LAWPRO

- Ireland engaged fully with the Negotiations process with assistance from the national expert group
- The relevant Government scrutiny committee was briefed
- The Minister of Housing, Local Government and Heritage has been briefed on the file and Water Finance Section, who will brief the Department of Public Expenditure, NDP Delivery and Reform
- DHLGH met Representatives from the Pharma and Cosmetics industry

#### Recast Urban Wastewater Treatment Directive - Overview

- High level of ambition in the proposal scale of facilities covered and level of treatment applied
- Extremely tight timeframes for all measures
- Widening scope of Directive to include smaller agglomerations
- Includes a provision of extended producer responsibility for specific micro-pollutants
- Requirements for energy neutrality for urban wastewater treatment plants and collections systems
- Significant policy and budgetary implications arising from the proposed Directive.





Ringsend Wastewater Treatment plants: image by Uisce Éireann

## Recast Urban Wastewater Treatment Directive – Main points in Commission text



#### 1. Requirement to provide and connect to networks in small agglomerations

All agglomerations above 1,000 p.e. to be provided with a collection systems and all their sources of domestic wastewater are connected to this collection system.

2. Justification to be provided if, **septic tanks** are used for greater than 2% of the reported load treated in agglomerations of 2,000pe

#### 3. Higher levels of treatment standards

Secondary treatment for agglomerations greater than 1,000pe Stricter Nitrogen and Phosphorus limits – tertiary treatment 4<sup>th</sup> stage of treatment – quaternary treatment for larger plants

# Recast Urban Wastewater Treatment Directive – Main points in Commission text

4. Extended Polluter Responsibility for specific micro pollutants (pharmaceuticals and cosmetics) – to pay for all aspects of quaternary treatment

Obligation for producers (including importers) to contribute to the costs of the quaternary treatment in cases where they place on the national market of the Member States products, which at the end of their life lead to the pollution of urban wastewater by micro-pollutants.

5. **Energy neutrality** – places an obligation to achieve energy neutrality at national level in all treatment facilities above 10,000p.e.

## Recast Urban Wastewater Treatment Directive – Main points in Commission text



#### 6. Integrated Urban Wastewater Management Plans –

To include information on the network, urban wastewater and urban runoff.

There is also the inclusion of an indicative objective that storm water overflow, represents no more than 1 % of the annual collected urban wastewater load calculated in dry weather conditions.

7. Urban wastewater surveillance to monitor specific public health parameters

Establishes a national urban wastewater monitoring system to monitor relevant public health parameters in urban wastewater

8. Inclusion of risk assessment and risk management

There is the inclusion of an article on risk assessment and risk management in certain circumstances

#### Recast Urban Wastewater Treatment Directive



#### Summary

The current Commission text has high ambition levels and tight timelines with numerous new measures.

Requirement for collaboration required between all stakeholders to achieve targets and infrastructural planning of investments.

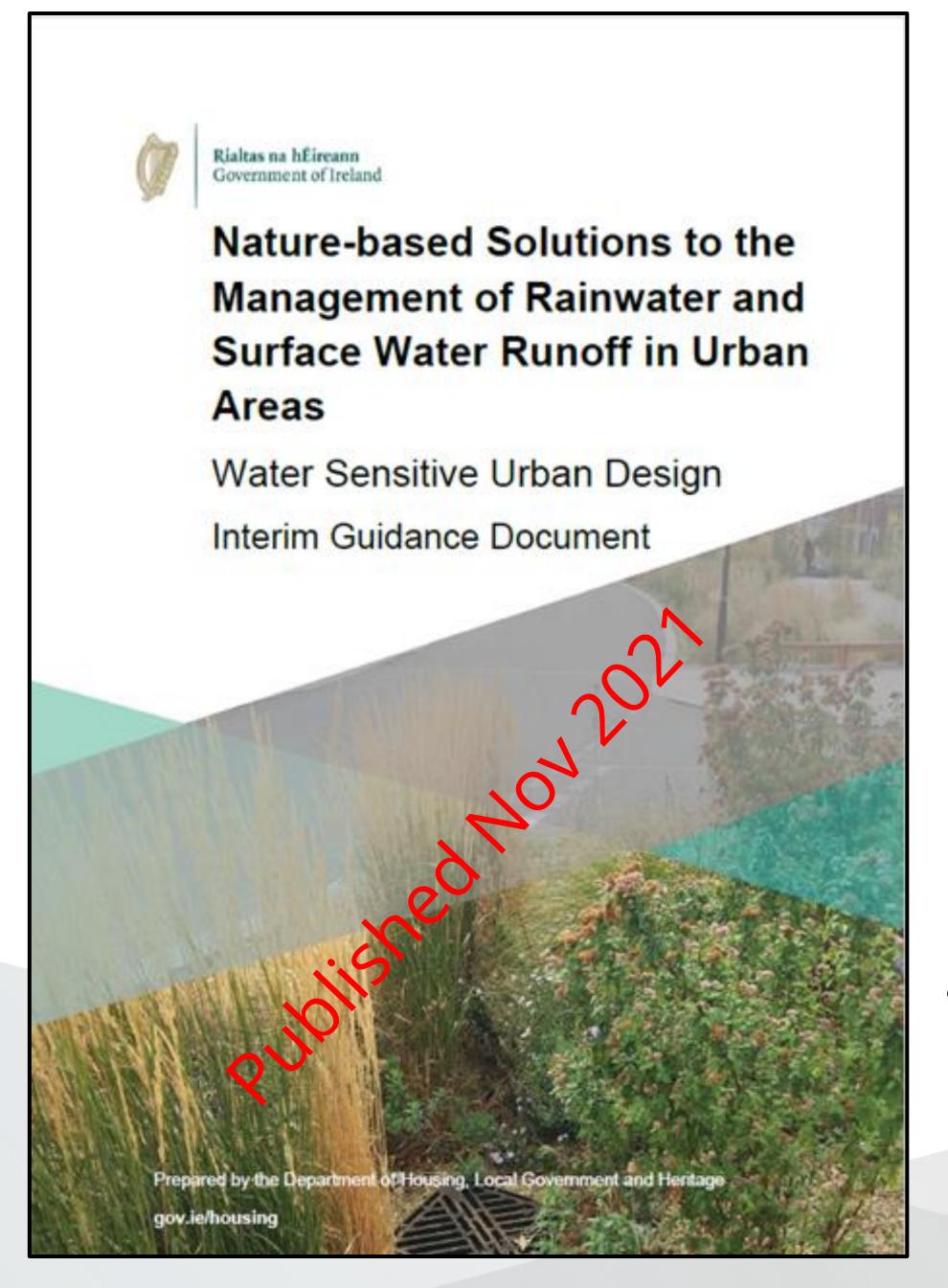
To note, the Commission text is not the final text of the Directive, so there will definitely be some changes to what I have presented today

New Directive will probably enter into force by Q4 2024

## Nature-based Solutions Update

- Nature-based Solutions to the Management of Rainwater and Surface Water Runoff in Urban Areas -Interim Guidance Document
- DMURS Advice Note 5: Road and Street drainage using nature-based solutions
- National Implementation Strategy
- Rainwater Management Planning Guidance for Local Authorities
- Implementation Phase ongoing Projects





#### Interim Guidance Document



- Definition and concepts
- Managing Rainfall through Three-Dimensional Planning & Design
- A Plan and Design-Led Multidisciplinary Approach
- Multiple Use of Urban Spaces, Public Realm,
  Open Spaces, Amenity Areas, Car Parks
- Climate Adaptive and Resilient Urban Design

## <u>Information Webinars</u>

• Launch of Interim Guidance Document - Nov 2021 Approx. 500

- attendees
  Project Managers in **URDF** and **RRDF** schemes March 2022. Approx. 300 attendees
- Active Travel teams May 2022.
  Approx. 230 attendees
- CPD presentation for **DHLGH Planners** May 2022 –approx. 20 attendees
- Engineers Ireland Webinar series May 2023 4 webinars with over 1200 registered for each webinar. 1st webinar attended by over 1500 people



## DMURS Advice Note 5 – Road and Street

Section 1 – Background

**Drainage using nature-based solutions** 



Section 2 – Introduction

Section 3 – Integration with DMURS

Section 4 – Design Issues in Context of DMURS and DMURS Advice Notes

**Section 5** – Implementing Naturebased Solutions as part of an Urban Project through Integrated Planning & Design

Section 6 – Care and Maintenance

Appendix 1 – Water Sensitive Urban Design

#### **Published August 2023**



Image: South Dublin County Council, Chris Galvin

<u>Design Manual for Urban Roads and Streets (DMURS) Advice</u>

Note 5 - Road and Street Drainage using nature-based solutions



## National Implementation Strategy for Urban Nature-based Solutions



# Measure in the Water Action Plan 2022-2027

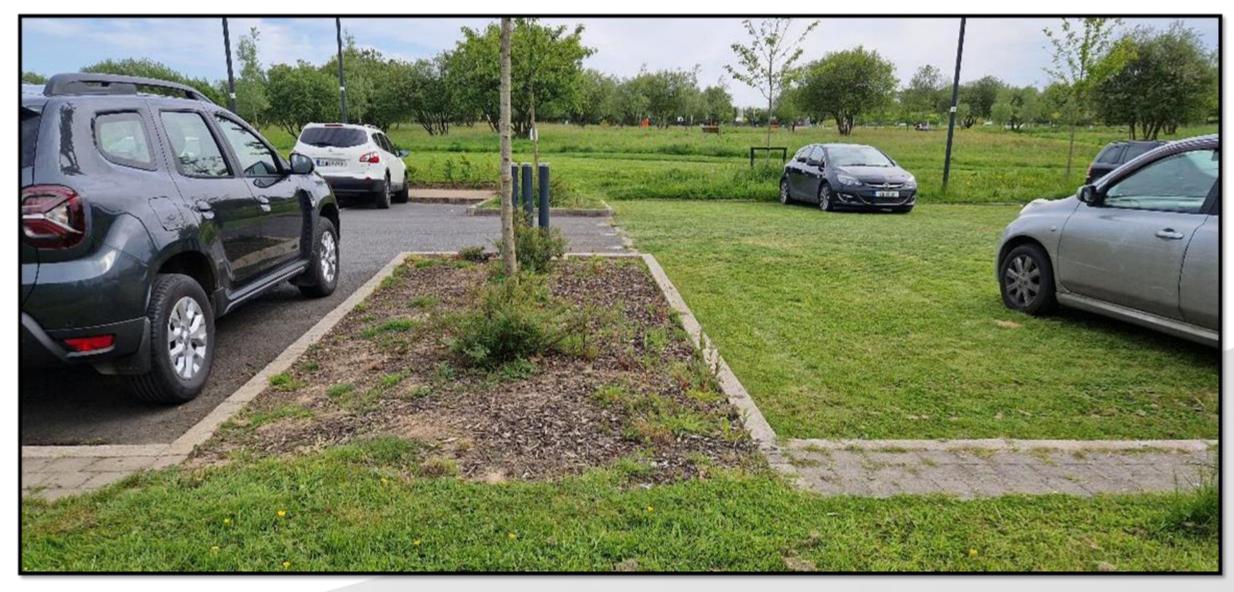


Image by Jason Taylor, Sydney

An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta Department of Housing, Local Government and Heritage

#### Nature Based Management of Urban Rainwater and Urban Surface Water Discharges

A National Strategy

2024





#### Working Group members:

Dept. Environment, Climate and Communications,

Dept. of Transport,

NTA

Uisce Éireann,

LAWPRO,

Dept. of Housing, Local Government and Heritage.

(Planning and Water Advisory Unit)

**EPA** 

Commenced Q4 2023

Prepared by the Department of Housing, Local Government and Heritage

- Climate Adaption
- Planning
- Uisce Éireann
- Roads, Streets and Transportation
- Funding and Capital Appraisal
- Education and Training
- Community Engagement and Communications

#### Public Health and Wellbeing

## 8 Proposed Strategies





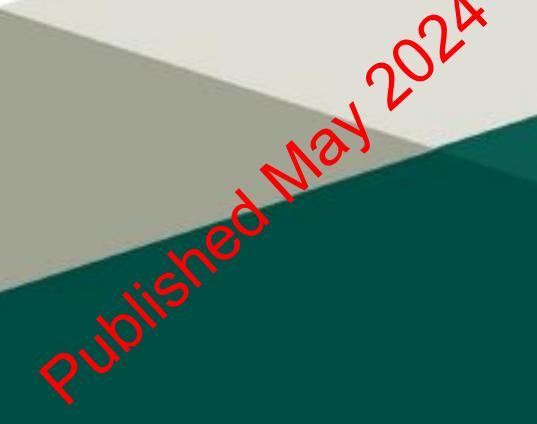
Image: Front of St Peter and Pauls Church, Clonmel, Fran Igoe



#### Rainwater Management Plans

Guidance for Local Authorities

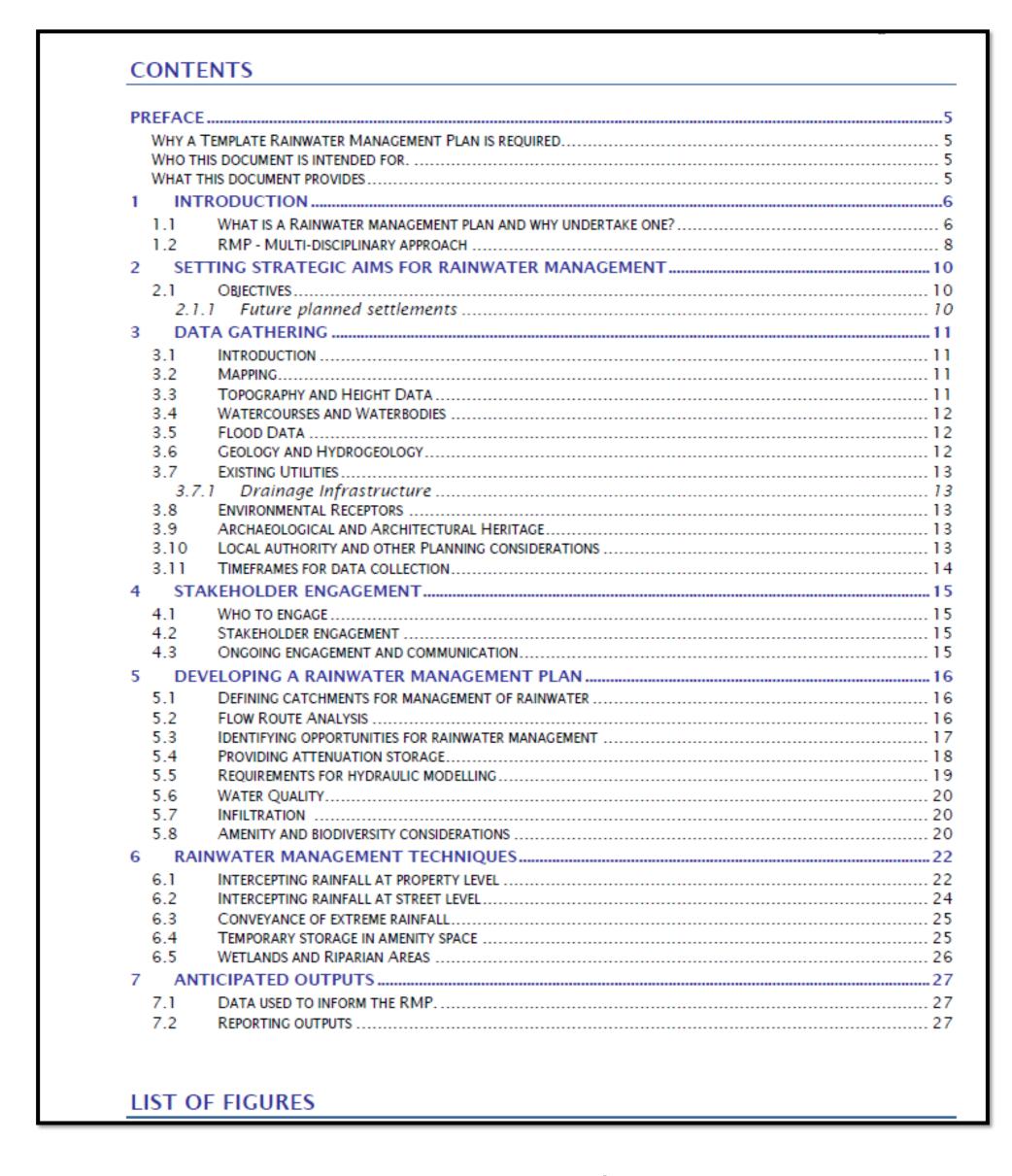
2024





## Rainwater Management Plan – Guidance for Local Authorities

### Rainwater Management Planning - Guidance for Local Authorities

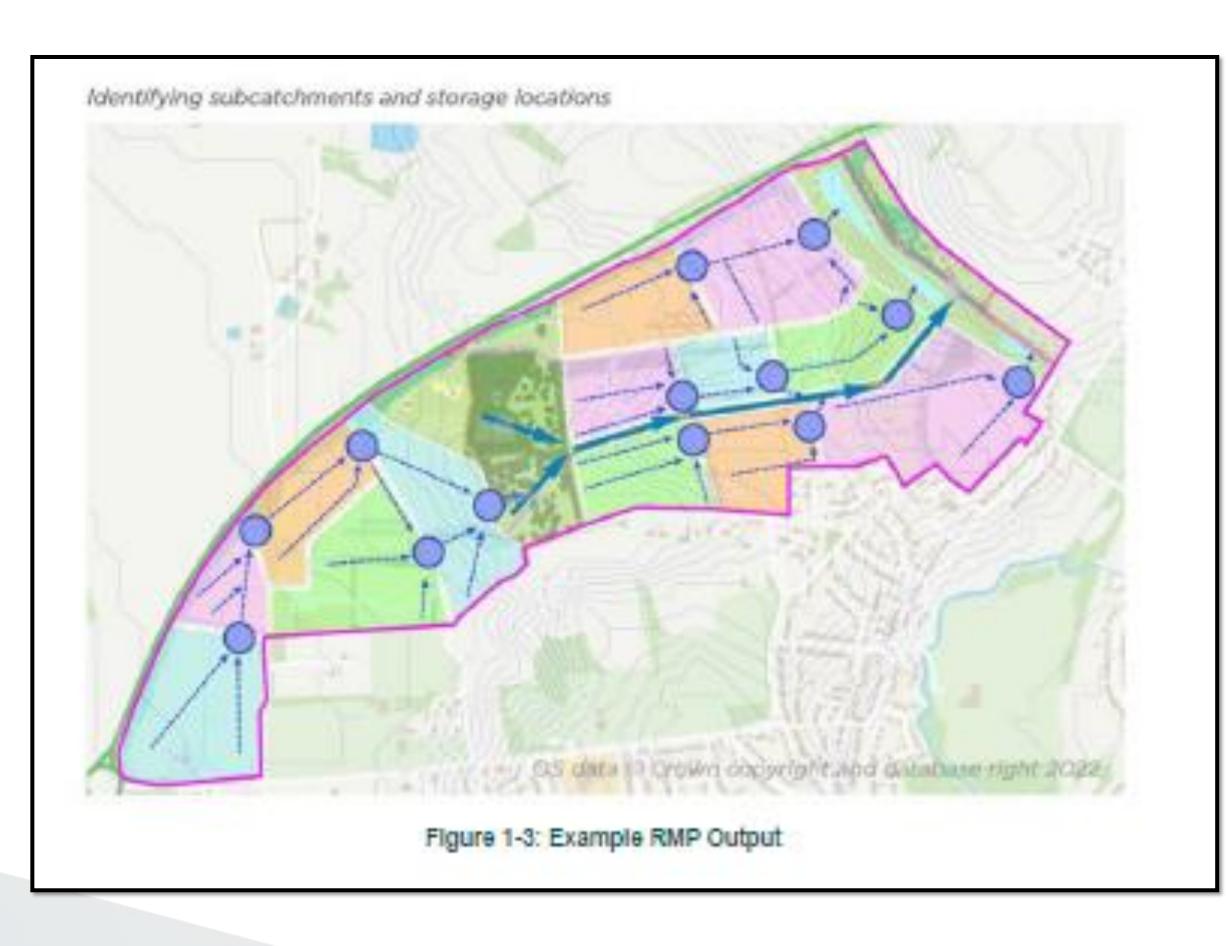




- Data gathering
- Stakeholder engagements
- Developing a rainwater Management plan
- Rainwater Management techniques
- Inclusion of Carrigtwohill Rainwater
  Management Plan in Appendix for information

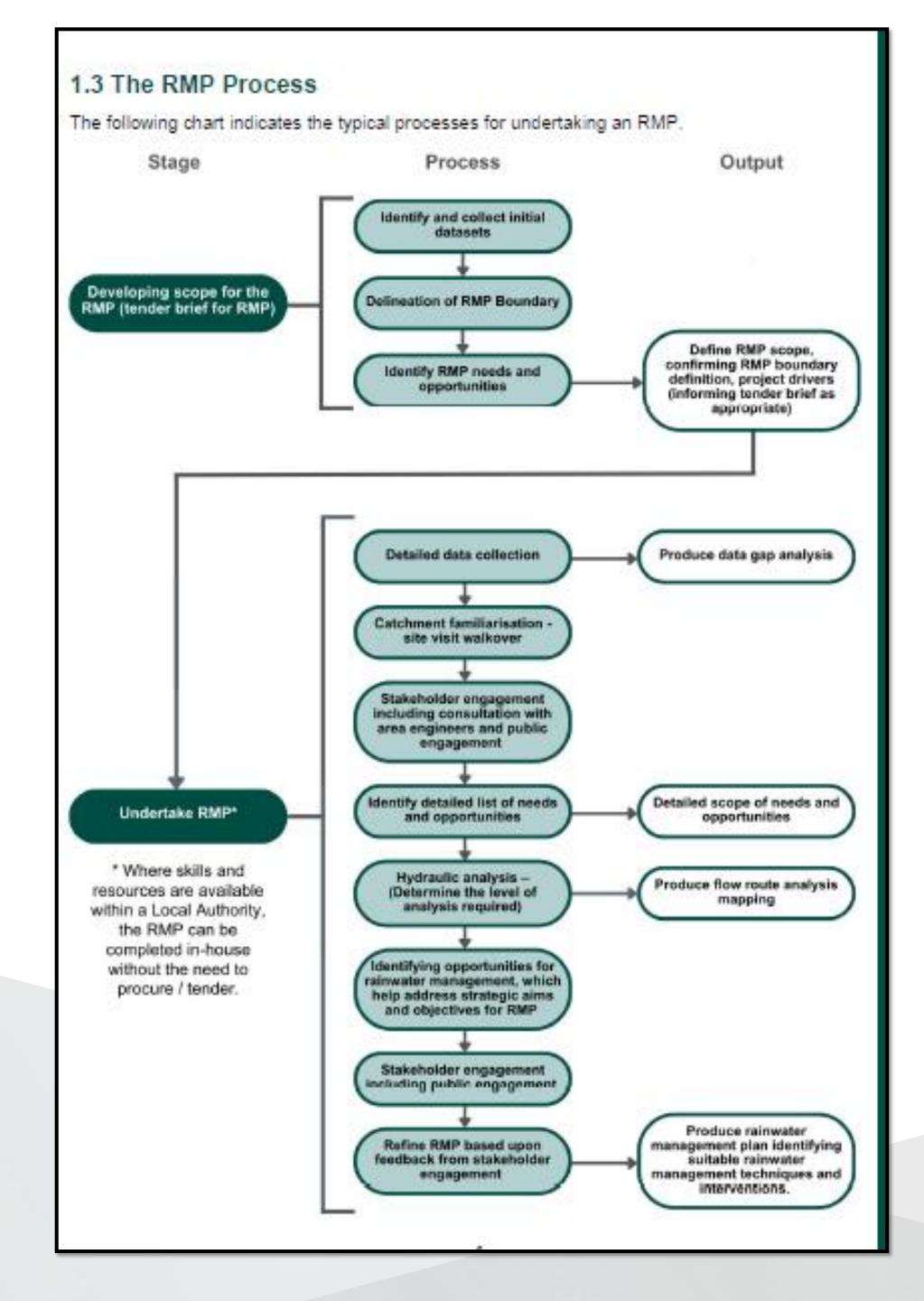
### Rainwater Management Plan – Guidance for local Authorities





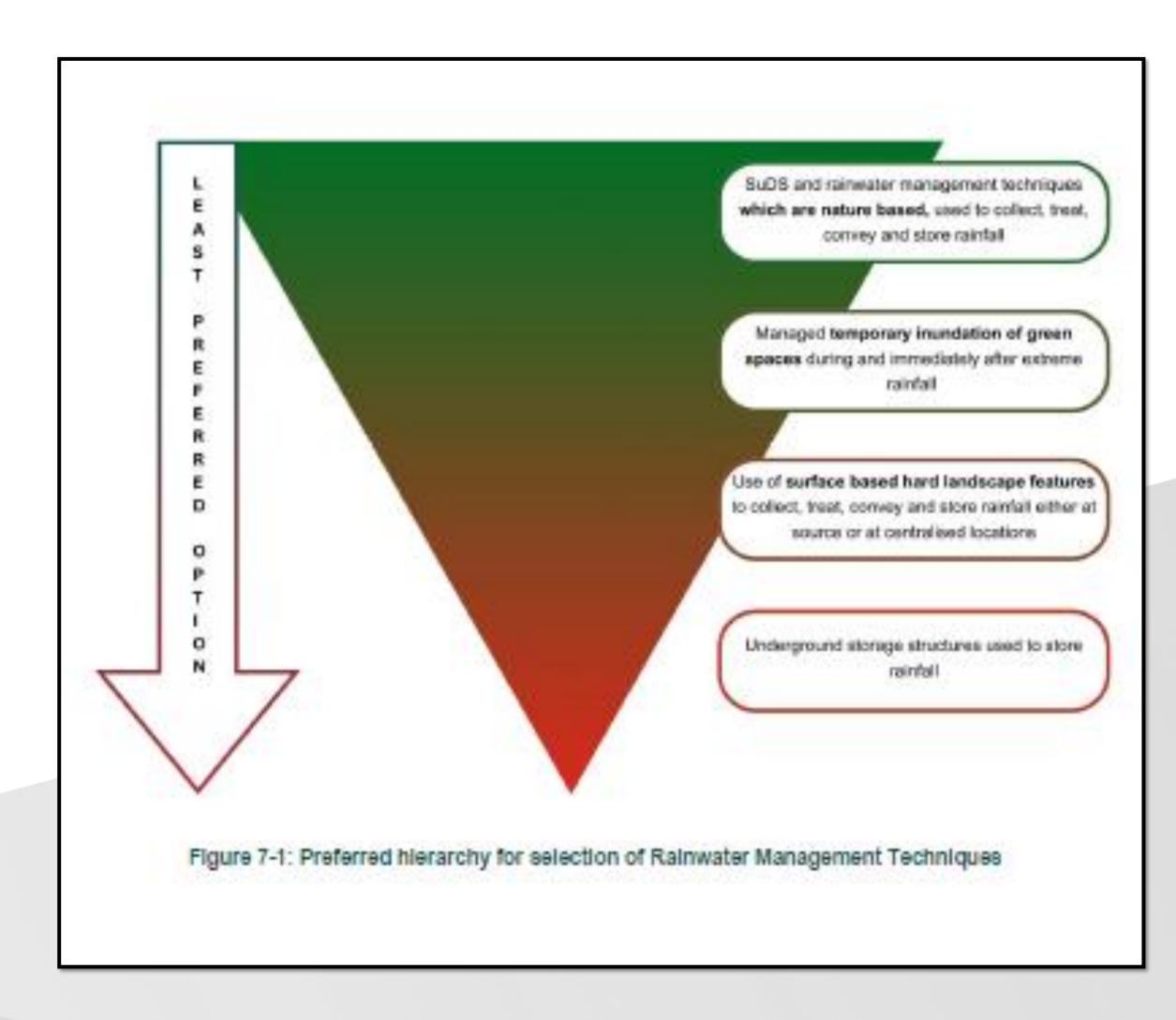
 Follow water across the development landscape.

Integration of water sensitive urban design concepts



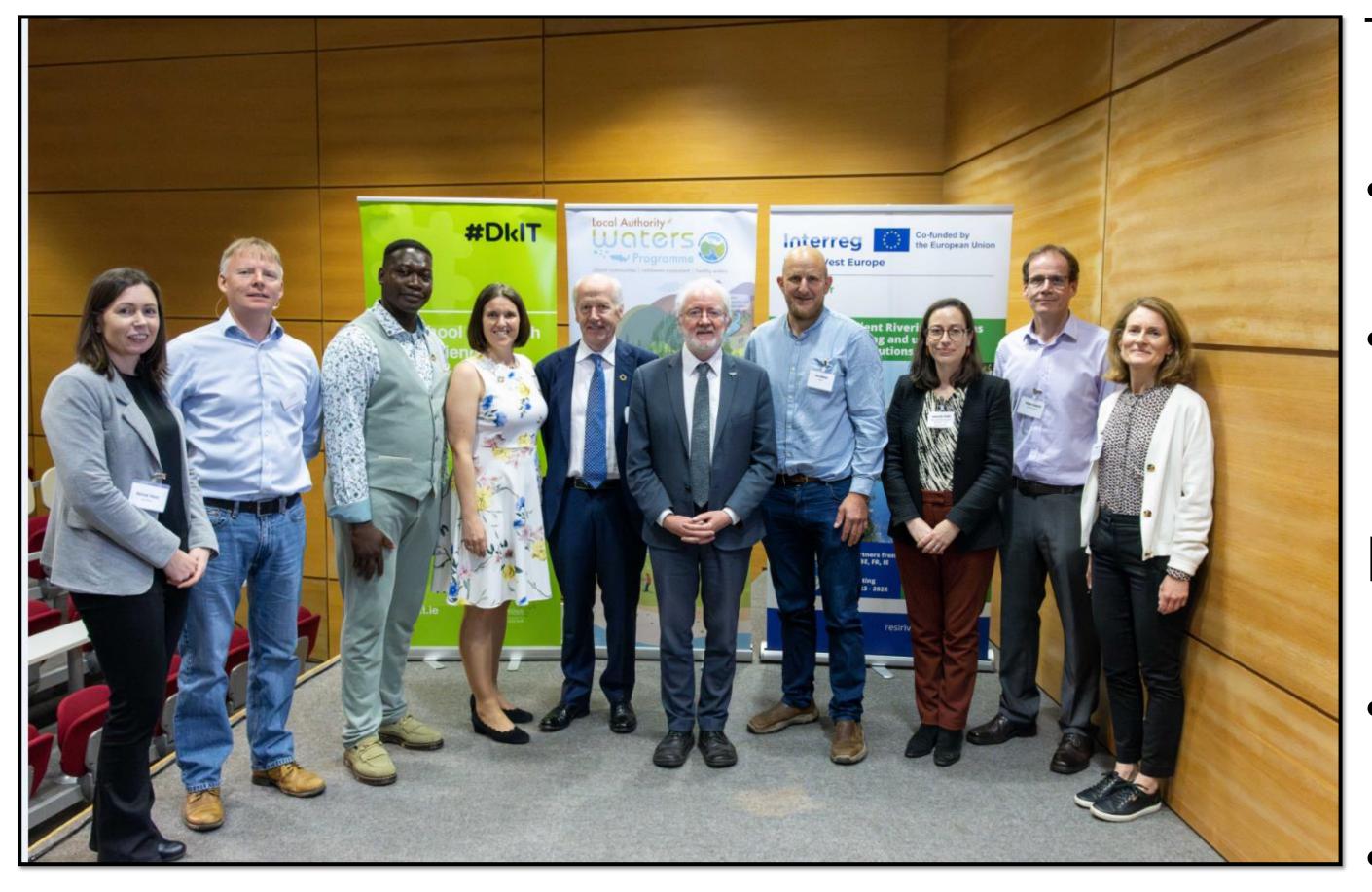
## RMP Process and Hierarchy





## LAWPRO NBS Conference May 2024 in DKIT





#### Themes:

- Urban, Rural, Coastal, Riverine NBS
- Including ResiRiver Life project

#### Launched the

- National Strategy for Urban NBS
- Rainwater Management Plan -Guidance Document for Local Authorities

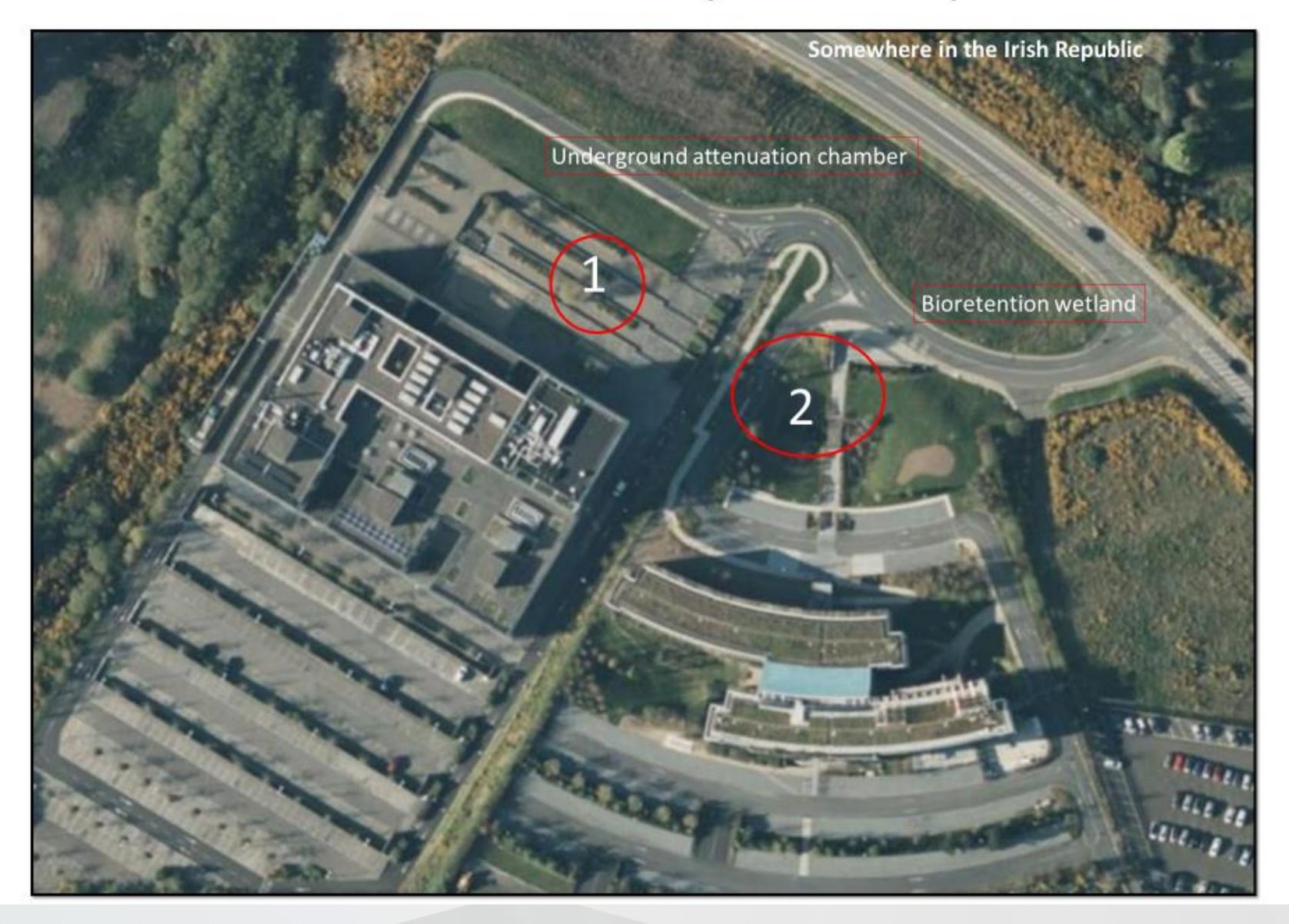
## LAWPRO NBS Conference May 2024 in DKIT





Attendance: 170 people in person 200 online

### Nature-based solutions – example of multiple benefits



















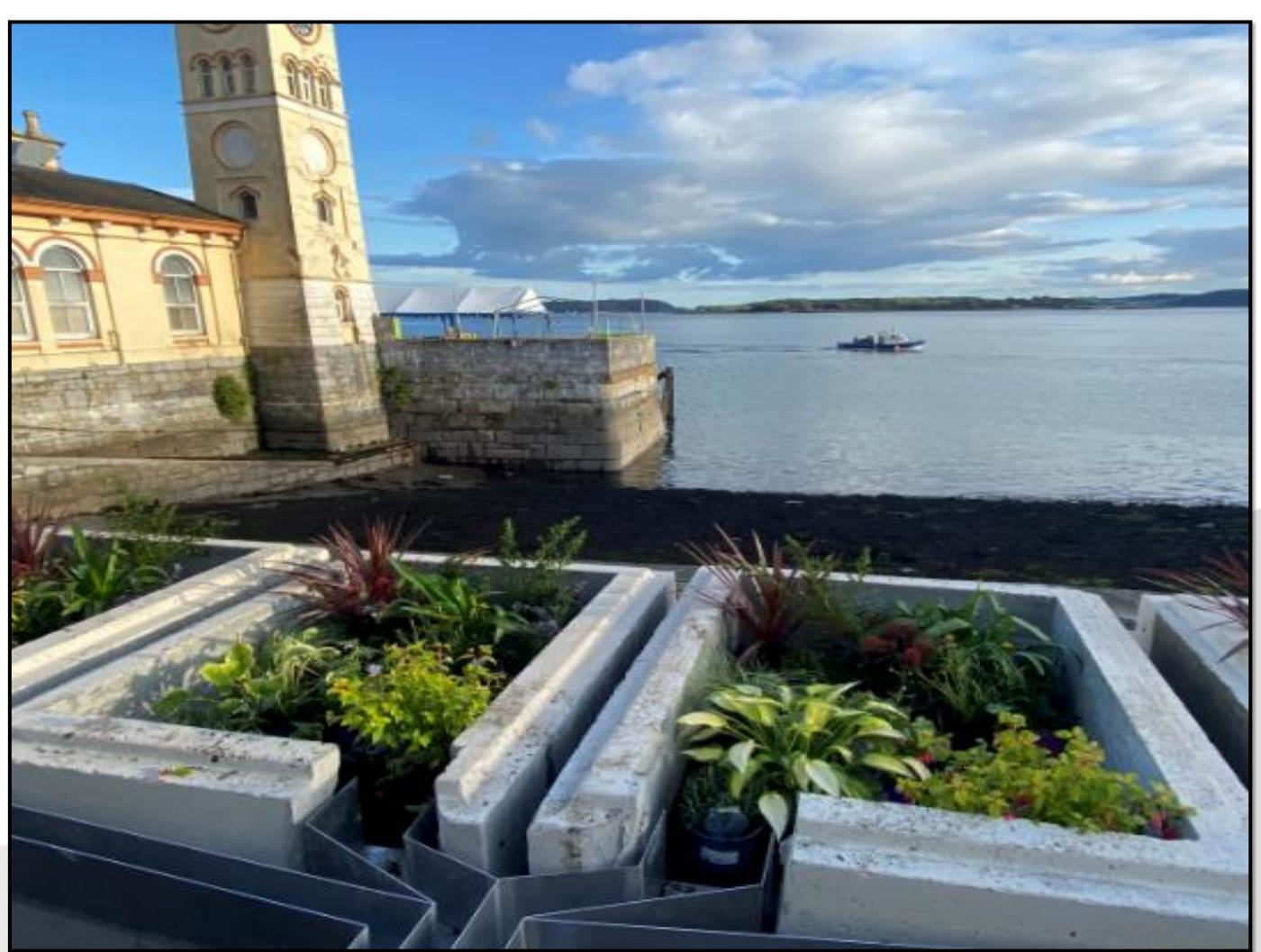


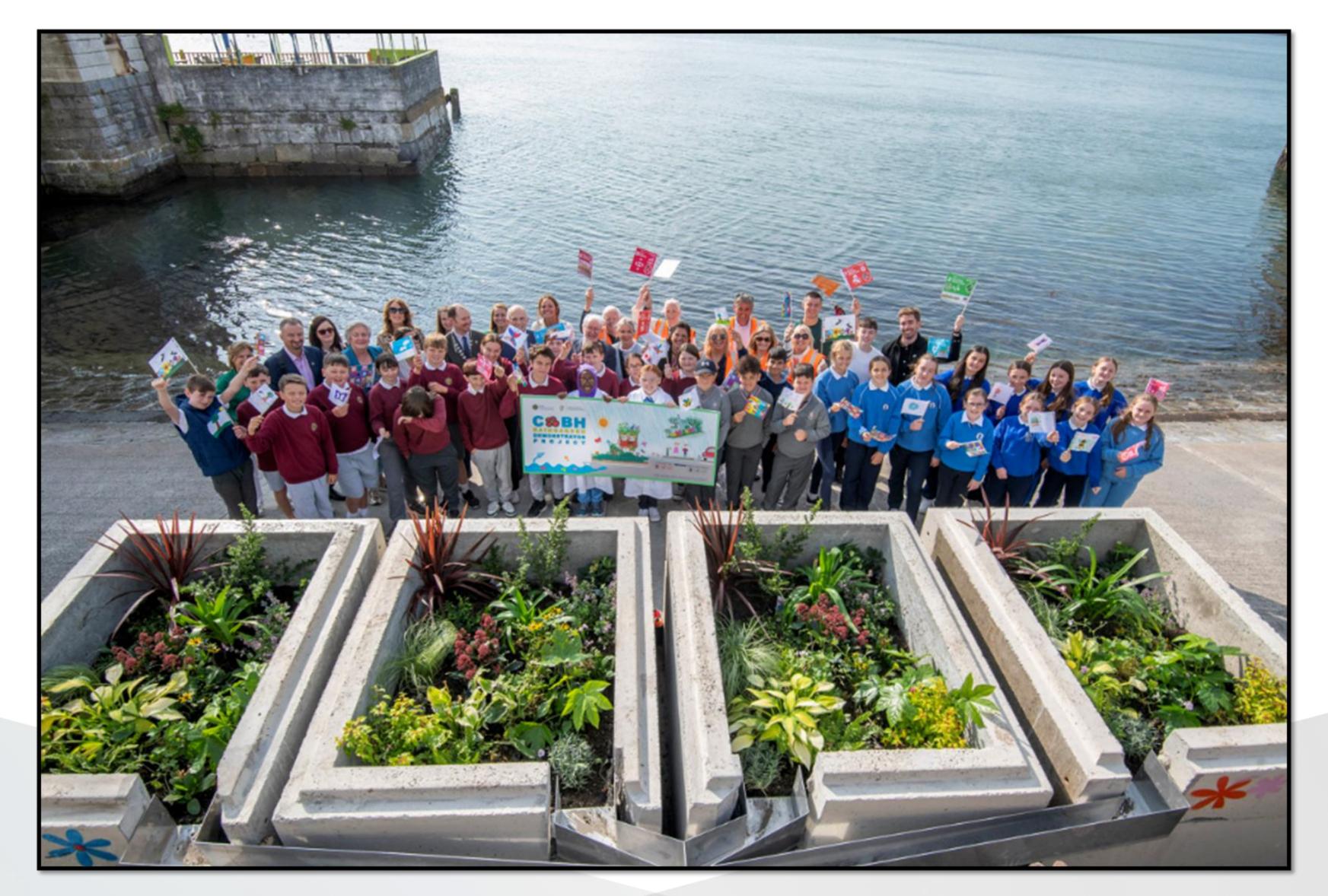


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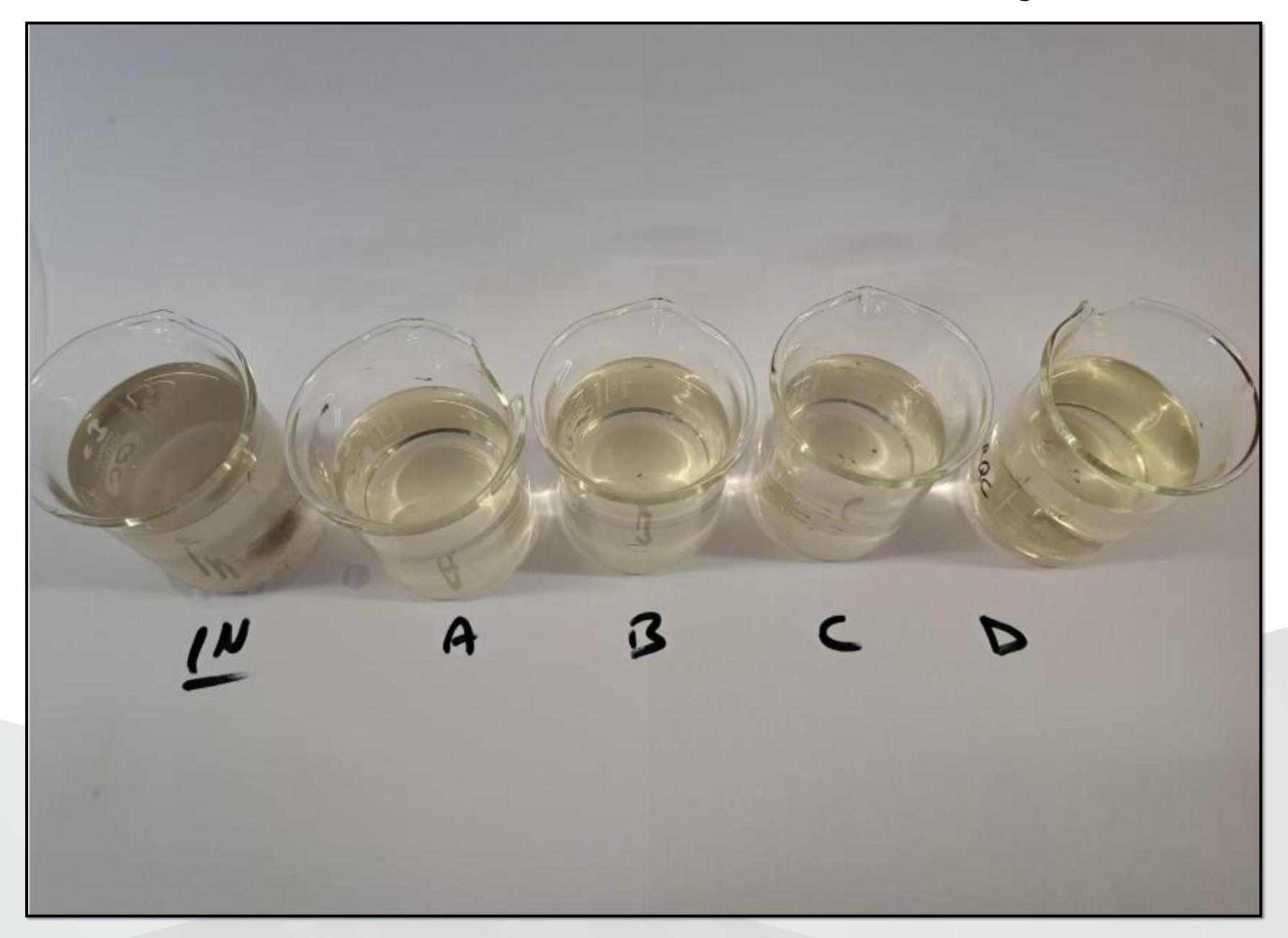
- 3<sup>rd</sup> River Basin Management Plan – measure includes two pilot projects in Dublin City and Cobh, Co. Cork to look at Nature-based Solutions in Ireland
- Research including monitoring into NBS infrastructure in Ireland
- These projects commenced in 2023



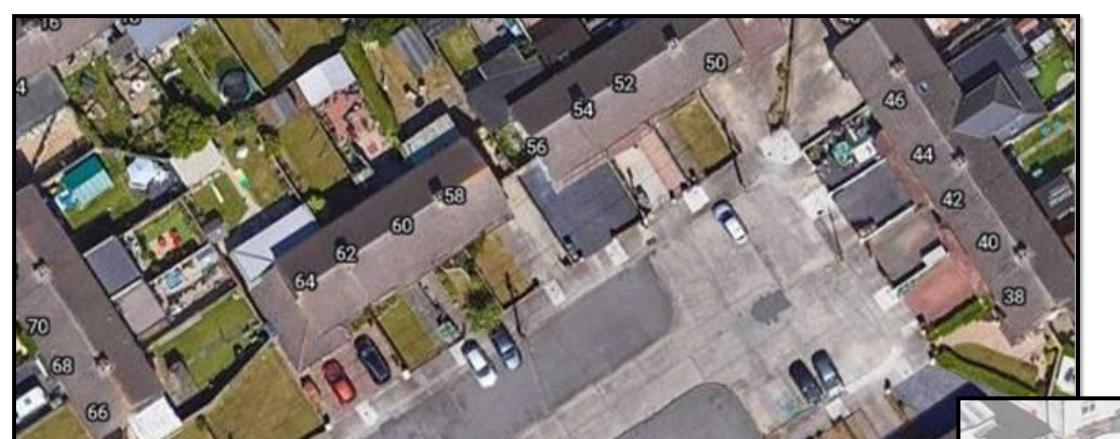




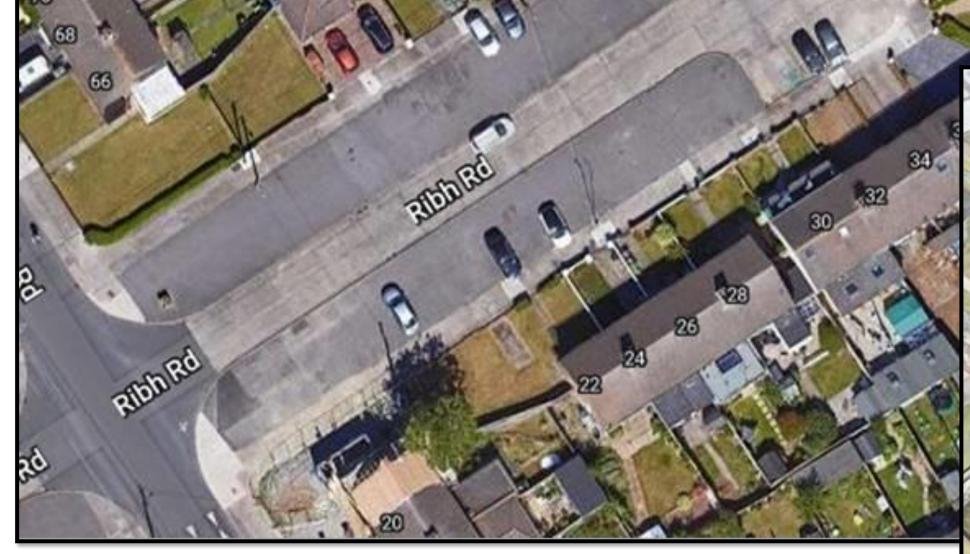
- Monitoring different soil types and different plant types to determine best combination in Irish context
- Using this information to design rain gardens and tree pits in larger public realm scheme





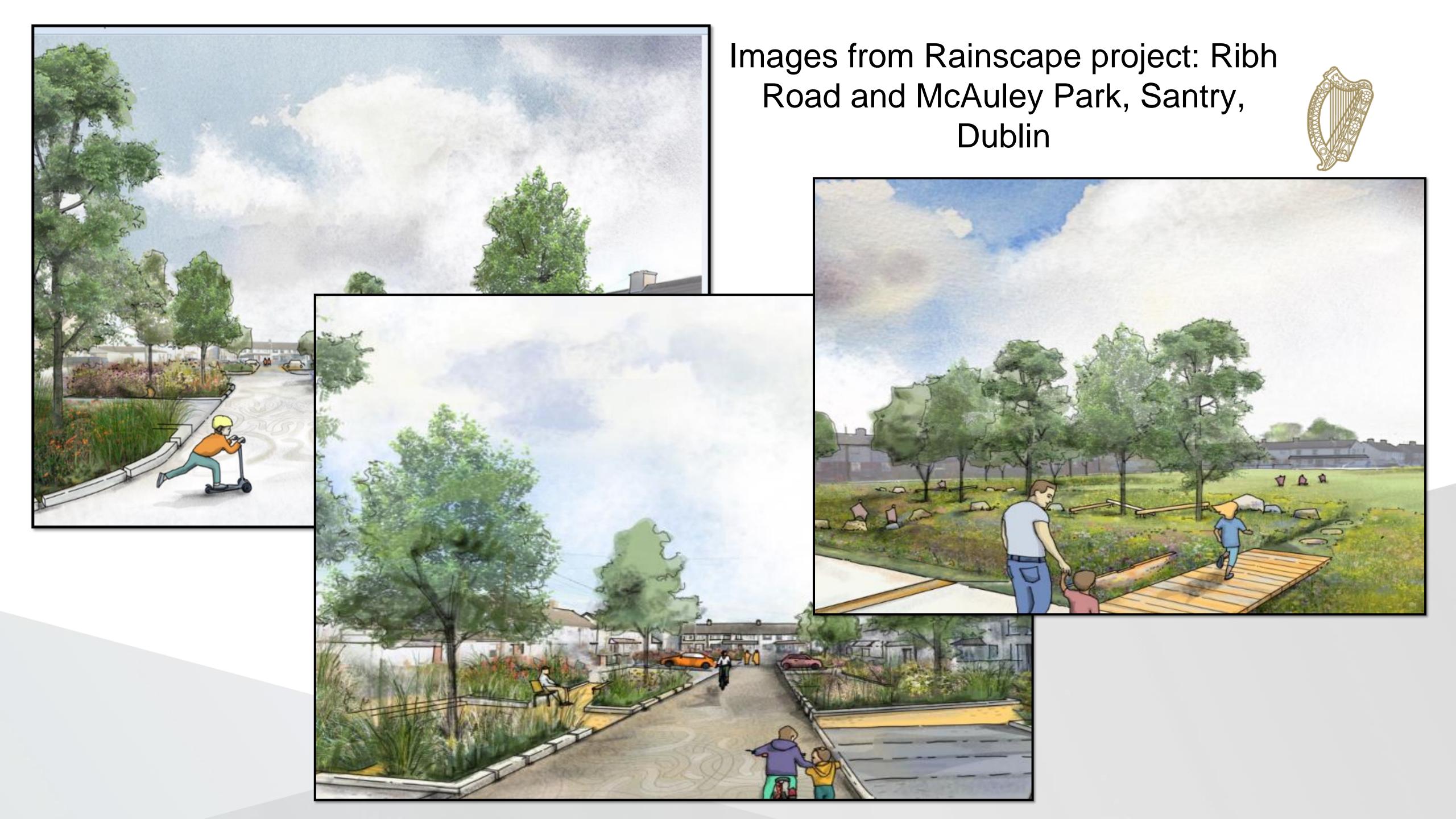






Images: Ribh Road, Rainscapes Project, Dublin City Council

Inclusion of rain gardens, permeable paving and tree pits after consultation and monitoring

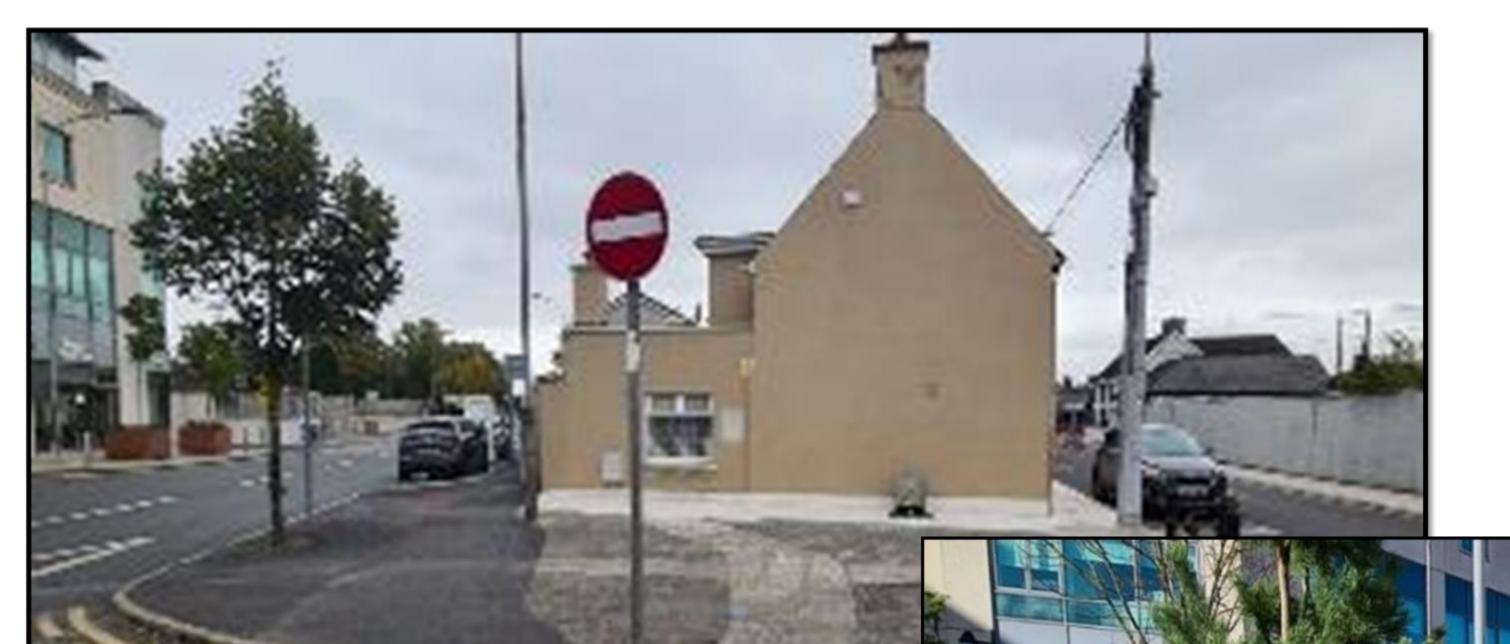


### Example of project delivery by a Local Authority using the supports / training





Bioretenion Areas (Rain Gardens) - Pollerton Road/Green Lane Junction





## Before and after picture







Thank you

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