

TRALEE FLOOD RELIEF SCHEME

Kerry County Council Presentation
01/11/2021

rpsgroup.com



Tralee Flood Relief Scheme

Presentation Outline

- Introduction
- Project Team
- Project Scope
- Key Tasks & Milestones
- Current Activities
- Public Consultation



Tralee Flood Relief Scheme

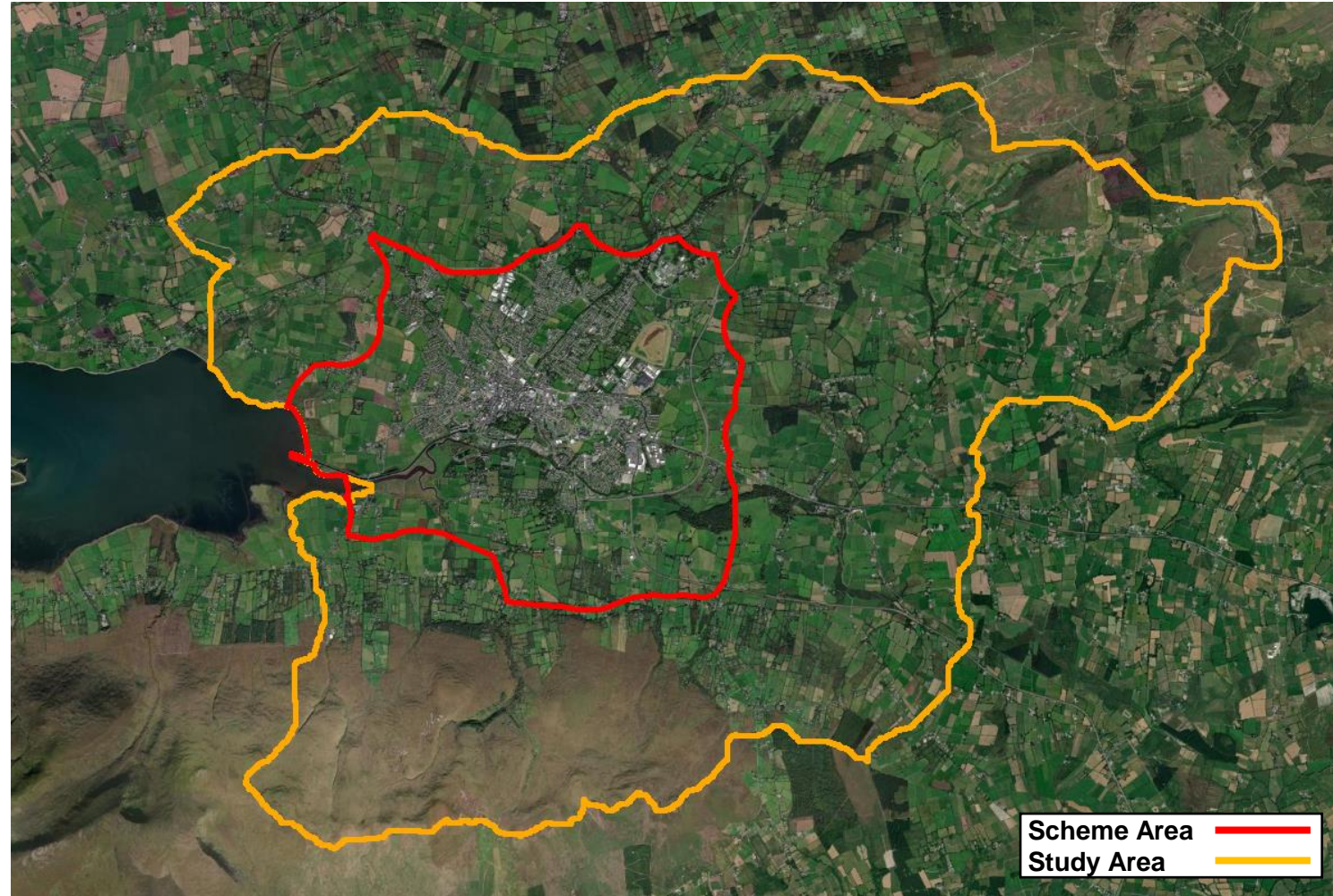
Introduction

Project Background

- The Scheme Area
 - Historic Flood Risk
 - Recent flood events incl. 2008, 2009 & 2011, 2014, 2015
 - Complex sources Tidal, Fluvial, Pluvial, groundwater and sewer networks
 - Major Scheme completed in 1990s reduced flood risk town centre area

Note:

- Study Area – River Lee Sub-catchment
- Scheme Area – Primary area within which a Flood Relief Scheme will be provided



Tralee Flood Relief Scheme

Project Background (contd.)

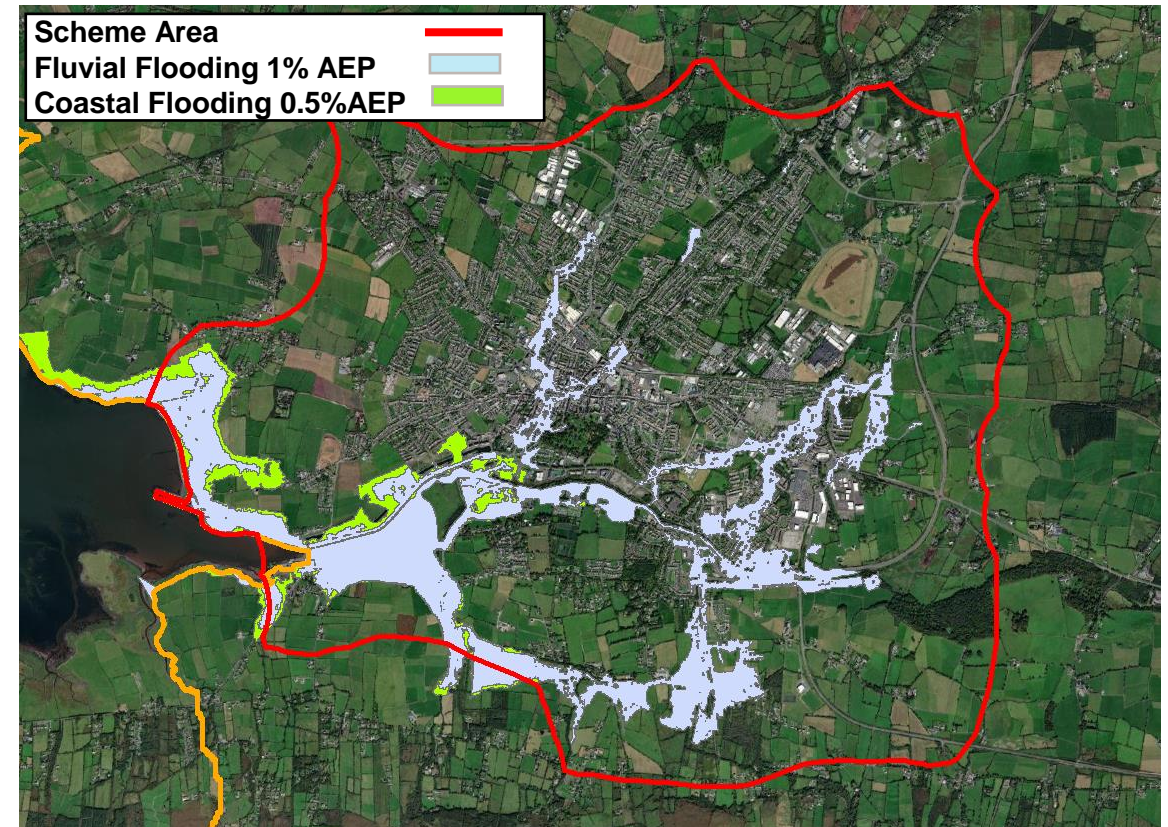
- Historic Flood Defences

Up to 10km of existing embankments along in the scheme area requiring geotechnical assessment, some of which were constructed as part of flood risk management measures in the 1990s with others being historical 19th century embankments, constructed to be used as walkways and towpaths.

- CFRAM Study

The OPW CFRAM study, completed 2018, identified flood risk within Tralee. A preliminary scheme was identified.

This FRS will build upon the outcomes of the CFRAM without being bound to its designs

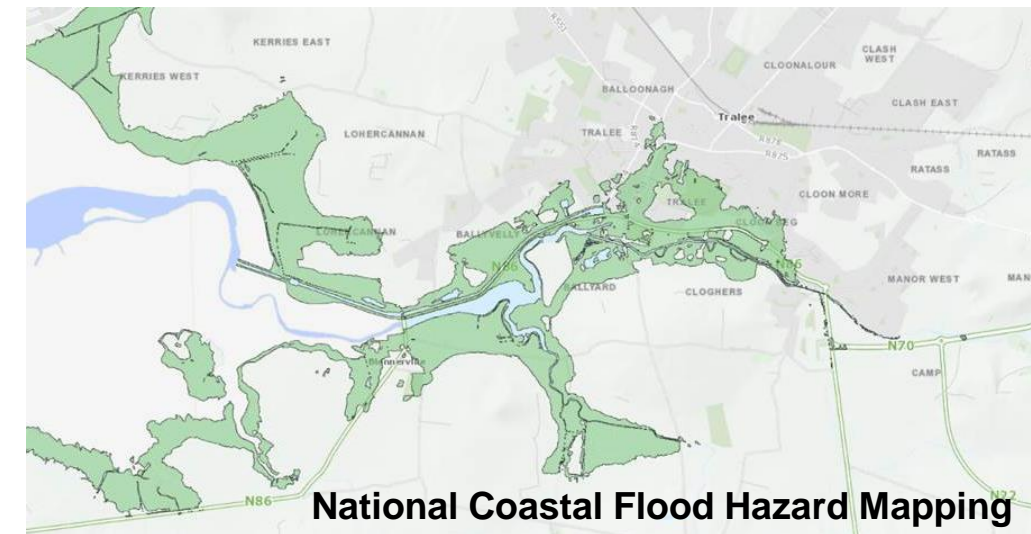
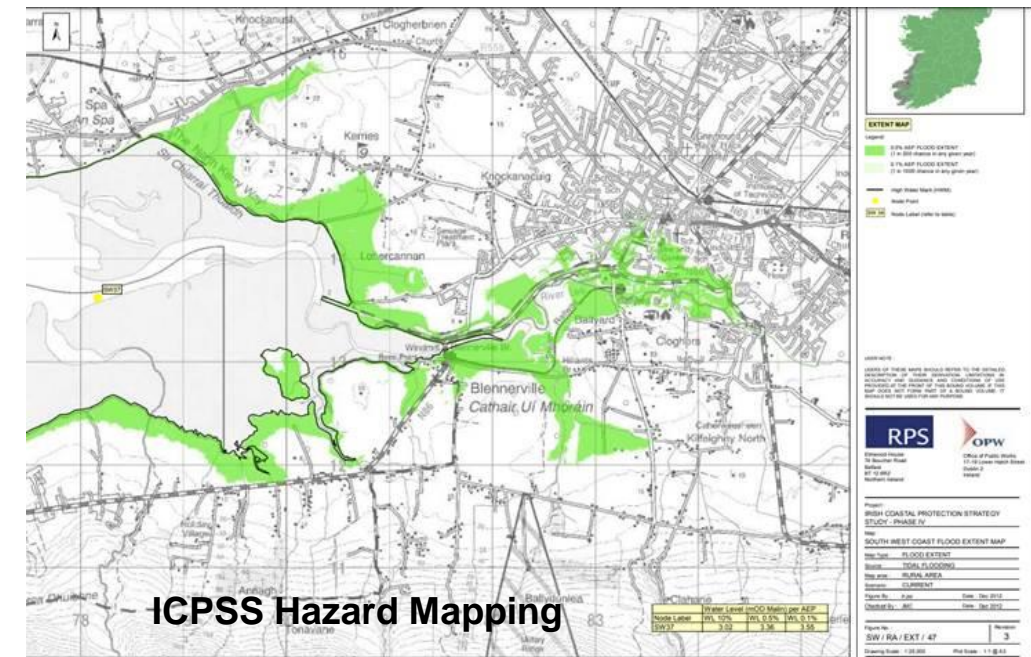


CFRAM Present Day Flood Extents (excl Climate Change)

Tralee Flood Relief Scheme

Project Background (contd.)

- Other Studies undertaken by OPW include relevant to Tralee include:
 - ICPSS Phase 4 (2012)
 - National Coastal Flood Hazard Mapping
- In summary, multiple studies indicate that there is a flood risk in Tralee and this project seeks to address this.



Project Team

- OPW KERRY COUNTY COUNCIL**

Project Director
Grelan McGrath

Project Consultation
Project Liaison/ Project Communications
Dan O'Boyle

Project Manager
Brendan Brice

Senior Engineer
Stephen Patterson

Project Engineer
Michael Minihane

PSDP
Jim Leahy

QA/QMS
Stephen Ko

BIM
Kathleen Tobin

CLIENTS & STAKEHOLDERS
Early Owners
IFI
Tenants / Operators
NPWS
Stateholders
An Taisce
EPA
Irish Water
Irish Rail
Etc.

GOVERNING BODIES
ASP - Part 10
KCC - Part 8
OPW - ADA
OPW - Section 95/047
DHPLG - Foreshore

Scheme Development Team

 - Hydrology Lead
Uzair Mansoor
 - Hydraulics Modeller
Lead
Stephen Patterson
 - Scheme Analysis & Development
Lead
Mark Wilson
 - Hydrologist
Neil Buchanan
 - Hydrologist
Neil Buchanan
 - Hydrologist
Neil Buchanan

Environmental / Planning Team

 - Environmental Lead
Aileen Fitzgerald
 - Planner
Michelle Bennett
 - Project Ecologist
Paula Kearney
 - Archaeologist
Tony Cummins
 - Geomorphologist / Hydromorphologist
Mark Magee
 - Environmental Scientist
Karen O'Brien

Scheme Design Teams

 - Detailed Design Lead
Kieran Ruane
 - Landscape Architect Lead
Raymond Holbeach
 - Geotechnical Lead
Clan McGuinness
 - Structural Engineer
John Ellis
 - Detailed Designer
Michael Minihane
 - Geotechnical Engineer
David Mills
 - Senior Technician
Dennis Cronin
 - Junior Technician
Claran McKenna

Scheme Delivery Team

 - Employers Representative
Colm O'Sullivan
 - Construction Phase Management
Sean Murphy
 - Quantity Surveyor Lead
Tony Kennedy
 - Construction Phase Support
Doug Burgoyne

SUPPORT TEAM
Engineering Technicians, Environmental Scientists

Tralee Flood Relief Scheme

Project Scope

Stage I: Options Assessment, Scheme Development & Design

- Data collection & review
- Public Consultation
- Geotechnical Review & Ground Investigations
- Environmental Assessments
- Hydrology & Hydraulic Assessment
- Preliminary Identification of Viable options
- Environmental Impact Assessment



Tralee Flood Relief Scheme

Project Scope

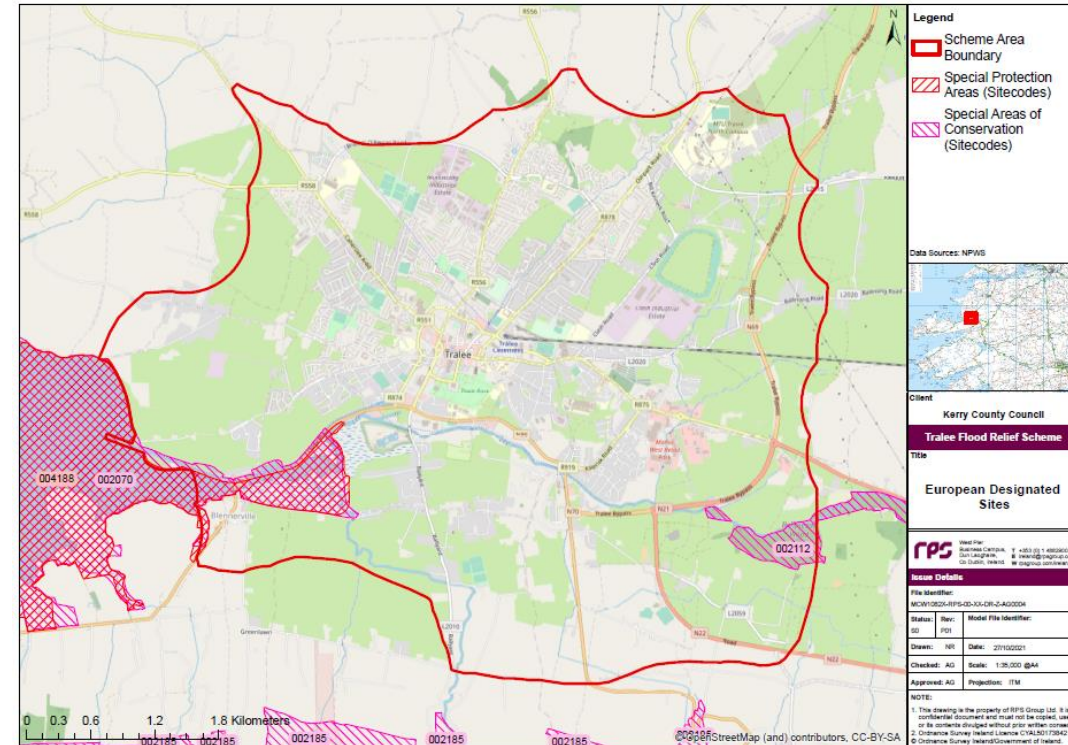
Stage II: Planning & Confirmation Process

- Public & Stakeholder Engagement
- Planning Permission
 - Planning Development Act
- Foreshore Consent
- Section 9, 47 & 50 Consent

Stage III: Detailed Construction Design and Tender

Stage IV: Construction

Stage V: Handover of Works



Tralee Flood Relief Scheme

Key Tasks & Milestones

Stage I

- | | |
|----------------------------------|---------------|
| • Opening Public Consultation | November 2021 |
| • Environmental Constraints | March 2022 |
| • Hydrology Report | October 2022 |
| • Geotechnical Study | October 2022 |
| • Hydraulics Report | May 2023 |
| • Emerging Scheme Consultation | May/June 2023 |
| • Preferred Scheme Design Freeze | December 2023 |
| • EAIR / NIS | June 2024 |



Tralee Flood Relief Scheme

Key Tasks & Milestones

Stage II

- Planning / Confirmation Q4 2025

Stage III

- Detailed Design Q2 2026
- Tender Q4 2026

Stage IV

- Construction Completion Q4 2029

Stage V

- Handover of Works Q4 2030



Tralee Flood Relief Scheme

Current Activities

Geotechnical Review

- Data gathering
- Initial assessment of the existing embankments

Environmental Assessment

- Data gathering
- Initial walkover surveys & Invasive Species surveys
- Establishing environmental constraints impacting the progression of the scheme

Hydrology & Hydraulics

- Data gathering
- Survey scope development to inform model build



Tralee Flood Relief Scheme

Public Consultation #1 – November 2021

Public Consultation: Shall be to seek the initial view from the public and other interested parties in relation the options to manage the flood risk in the area, to highlight points of local importance that might constrain the design and/or viability of any potential flood alleviation measures, and to collate information on any flood events that have occurred since the CFRAM Study was undertaken.

Virtual Environment: To minimise COVID-19 risk the initial Public Consultation will take place online.

An online platform, hosted on the project website (<https://www.floodinfo.ie>) will be developed in which the public and other interested stakeholders can access proposals, interact with visualisations, share feedback and connect with the Project Team.



Questions?

