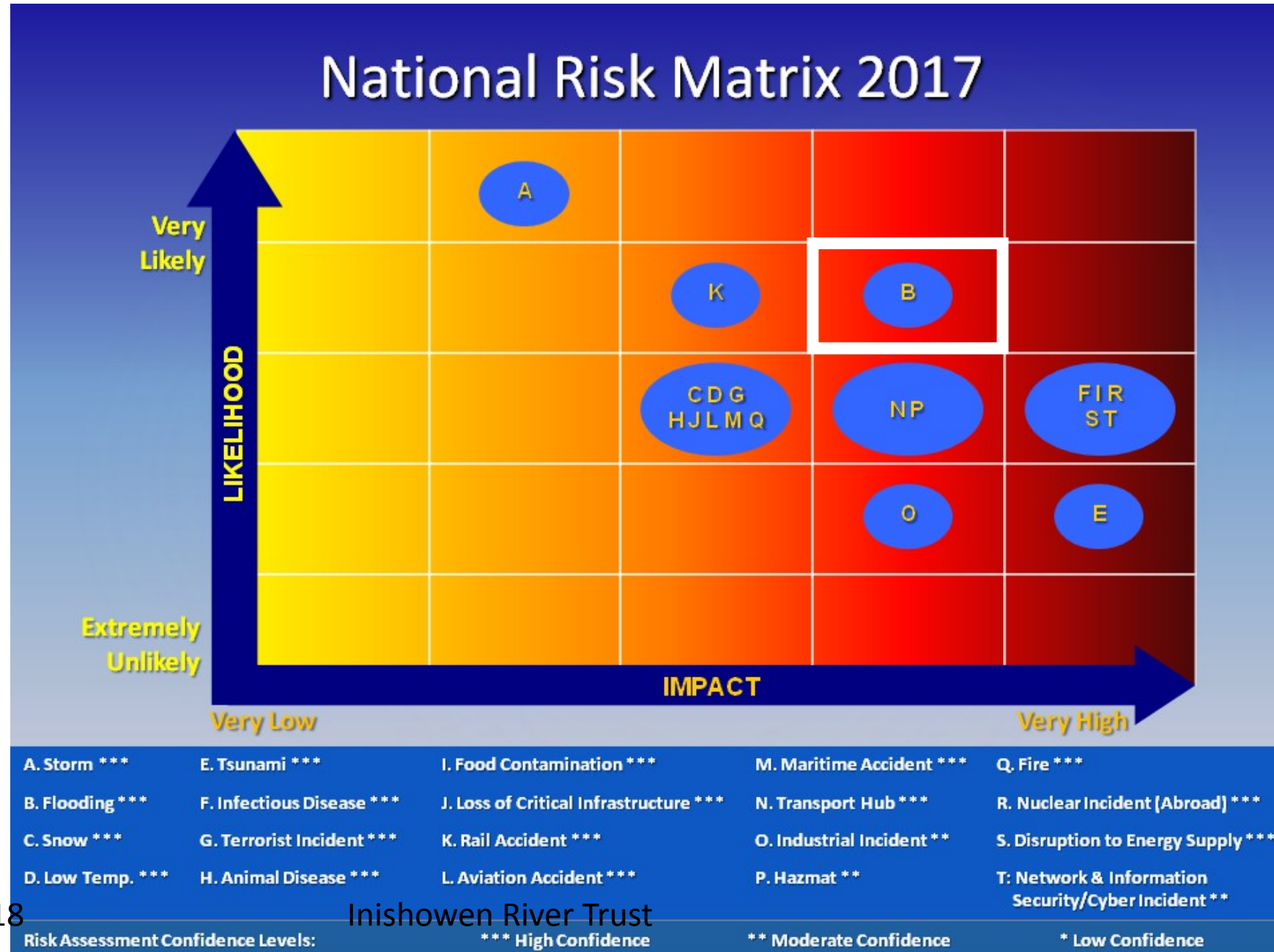# Flood Risk Management in Ireland

Conor Galvin MIEI CEng

Overview

- The OPW – Flood Risk Management Role

- The National CFRAM Programme

- Flood Risk Management Plans

  - Non-Structural measures

  - Structural measures

  - Inishowen

A National Risk Assessment for Ireland – Dept. of Defence

The Office of Public Works

National Flood Policy - Responsible for leading and coordinating the implementation

EU Floods Directive - National authority for the implementation of the EU Directive on the Assessment and Management of Flood Risks [2007/60/EC]

Inter-Departmental Flood Policy Coordination Group - Coordinates the sectoral activities of other Departments and Agencies

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The National CFRAM Programme

Objectives

- Identify the communities at significant flood risk

- Map the flood hazard in those communities

- Quantify the flood risk

- Plan how we will manage that risk

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The Office of Public Works

CFRAM Studies

6 River Basin District scale studies

300 communities studied

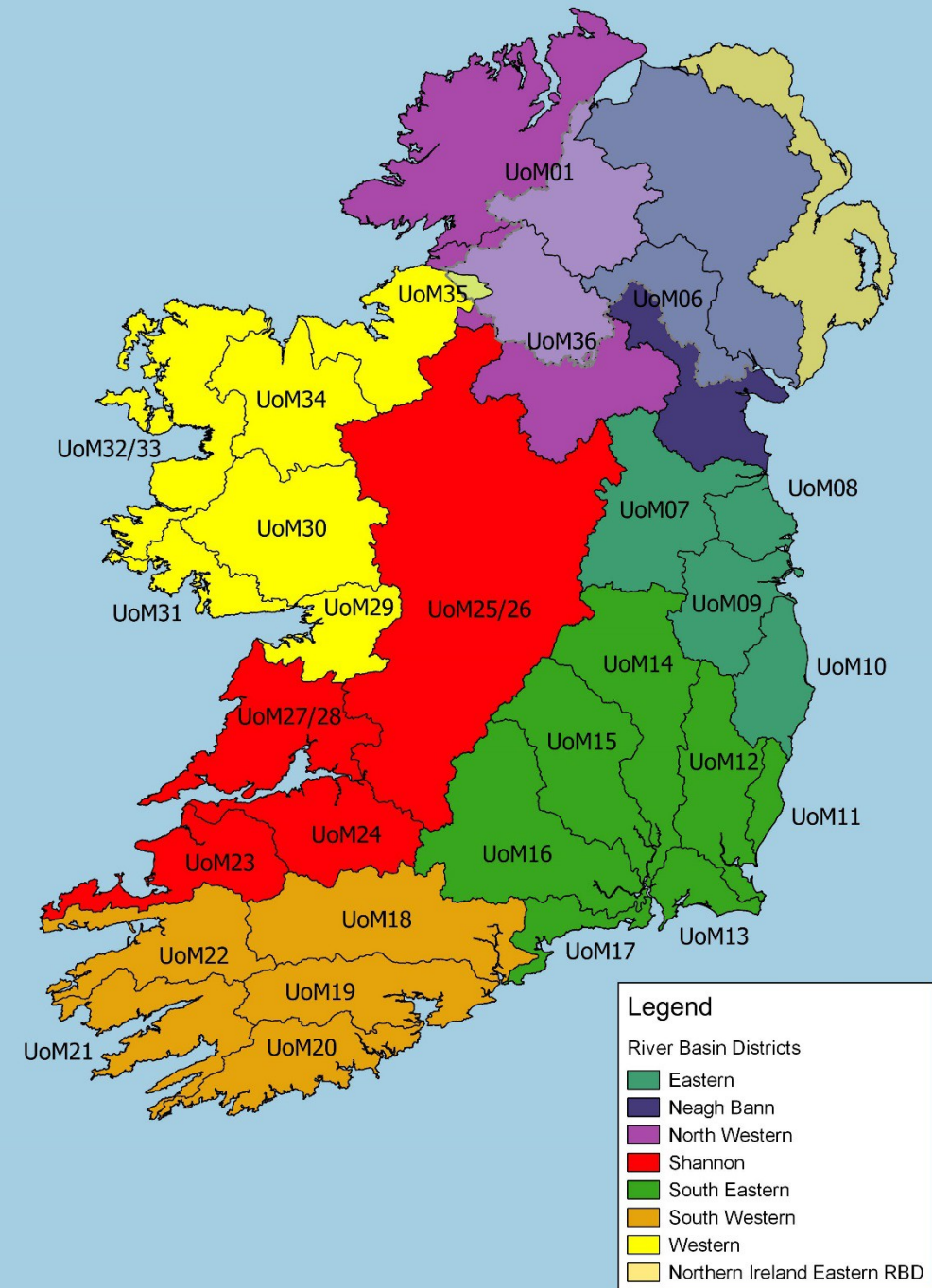6,700 km's of Watercourse Surveyed

Stakeholder Consultation

- 500 Public Consultations Days

- 2 Statutory Consultations

- 300 Stakeholder Meetings

Plans for each unit of the 36 Units of Management

Inishowen River Trust

Flood Risk Management Plans

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Flood Risk Management Plans

The Plans set out the strategy, including a set of measures, for the cost effective and sustainable, long-term management of flood risk
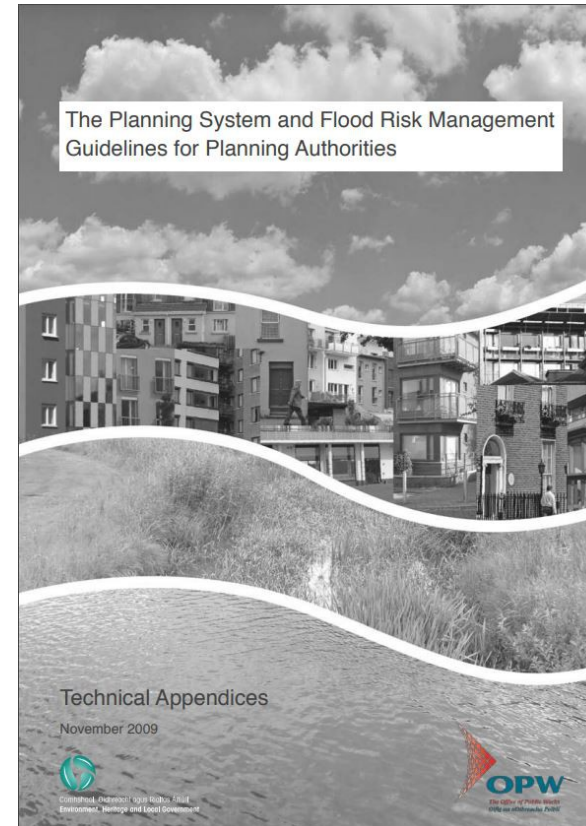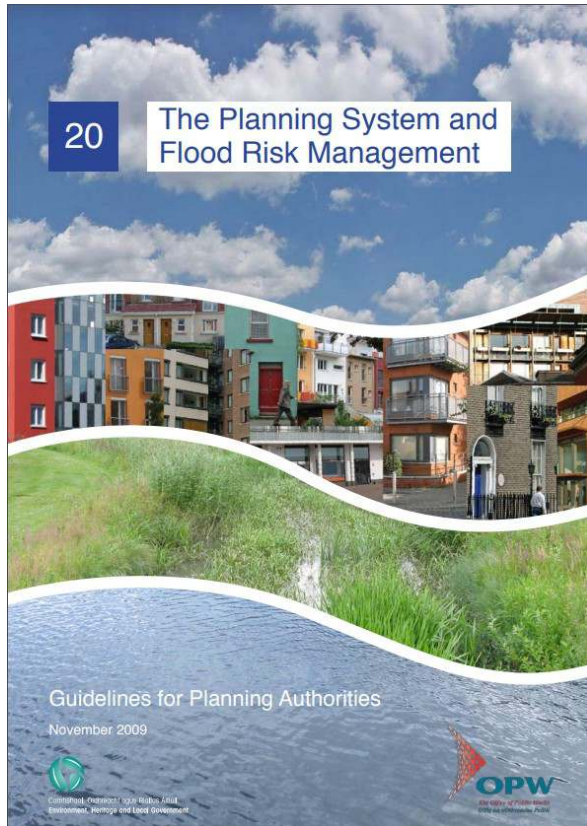
The Plans include:

- Non-structural flood risk **prevention** and **preparedness** measures that are applicable nationally

- Structural flood **protection** measures for communities at significant flood risk

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Flood Prevention

- Sustainable Planning and Development Management

- Sustainable Urban Drainage Systems (SUDS)

- Voluntary Home Relocation

- Preparation of Local Adaptation Planning

- Land Use Management and Natural Flood Risk Management Measures
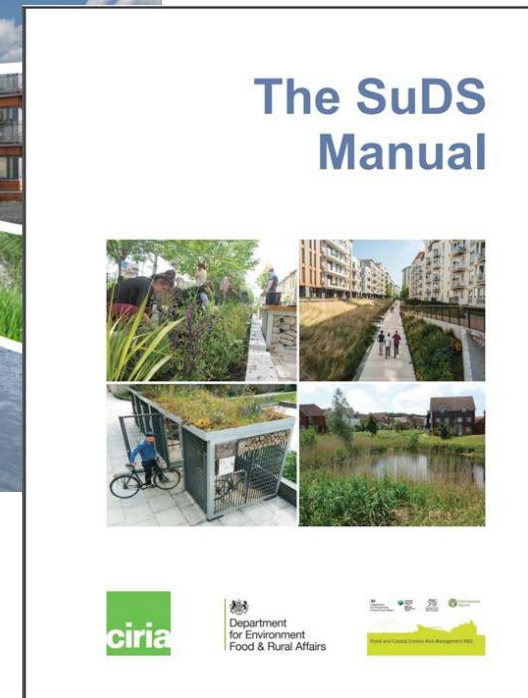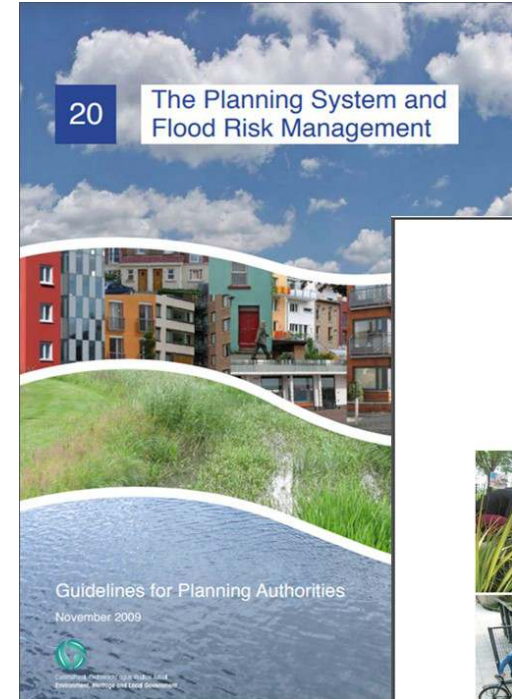
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Sustainable Planning & Development Management

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Sustainable Urban Drainage Systems

Planning authorities should:

- Reduce hard surfacing

- Requires the use of SUDS

Voluntary Home Relocation

- Primary residential properties that flooded during December 4th 2015 to January 13th 2016

- No alternative feasible measures

- Significant probability of reoccurrence

- Unable to obtain flood risk insurance

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Land Use Management and Natural Flood Risk Management

The OPW will work with the EPA , local authorities and other agencies to identify measures that will have both water quality and flood risk management benefits

- Part of the project-level assessment – community scale

- More broadly at the catchment scale

Flood Preparedness

- Flood Forecasting System

- Emergency Response Planning

- Promotion of Individual and Community Resilience

- Individual Property Protection

- Flood-Related Data Collection

Flood Forecasting System

- National & Catchment Scale to start with

- 5 year + programme

- Met Eireann National Flood Forecasting Centre

Individual and Community Resilience

Be Winter Ready Campaign

www.winterready.ie

Individual and Community Resilience

Flooding Plan, Prepare, Protect

Practical Guide
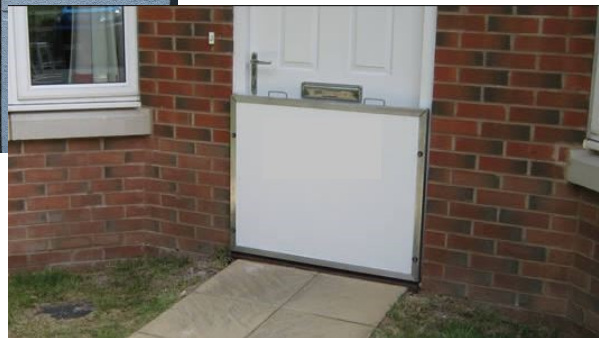
- Before
- During
- After

www.flooding.ie

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Individual Property Protection

Pilot study – Crossmolina (Initiated 2016)

- Part of the Local Flood Action Plan

- Flood defence gates for doorways

- 76 properties protected

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Flood Protection

- Enhance Existing Protection Works

- Flood Defences

- Increasing Channel Conveyance

- Diverting Flood Flows

- Storing Flood Waters

- Implementing Channel Maintenance Programmes

- Maintenance of Drainage Schemes

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Progress the project-level development and assessment of a Flood Relief Scheme
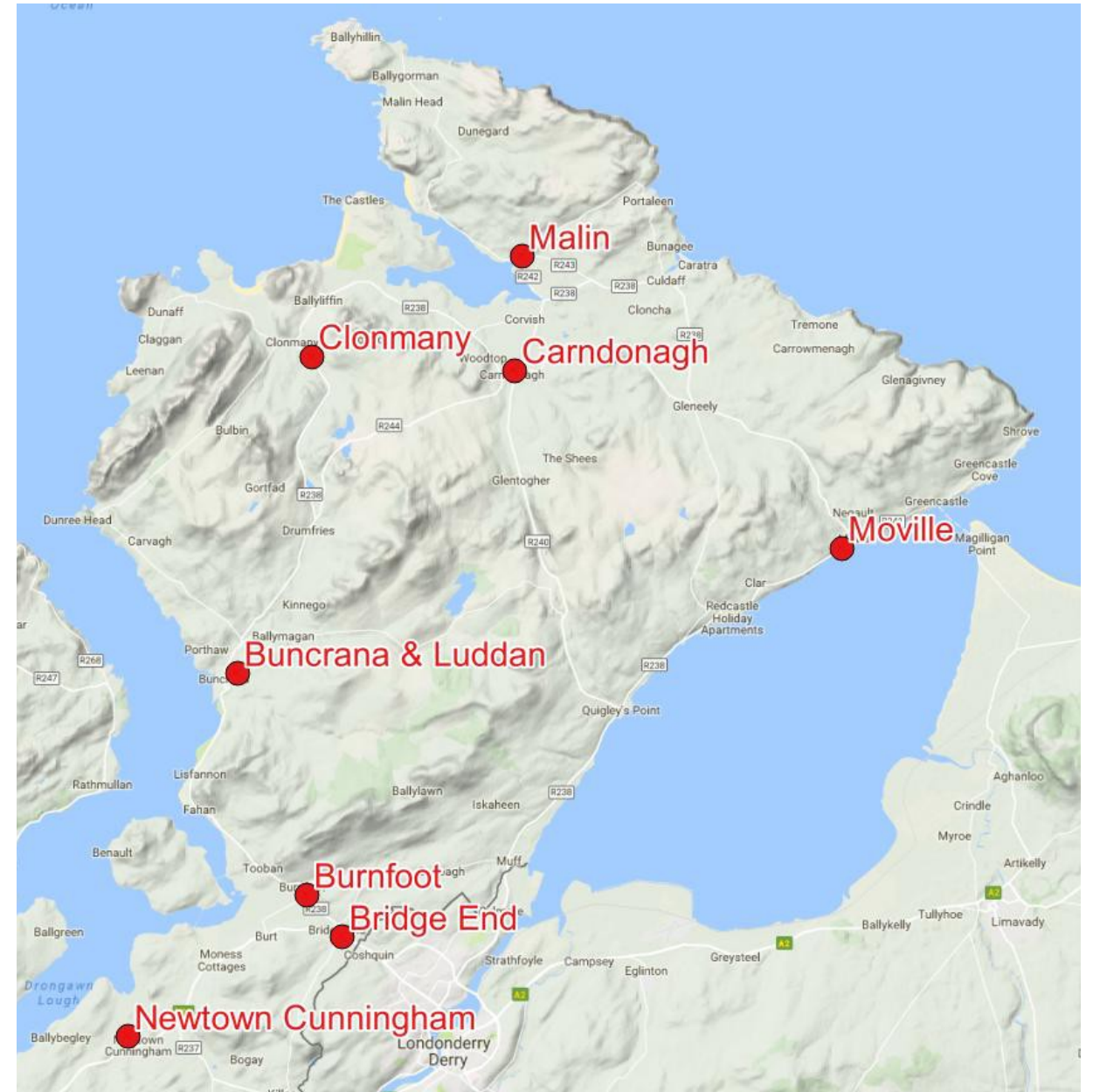- Carndonagh
- Buncrana & Luddan

Undertake a Detailed Assessment of the Costs of the Potential Measure
- Burnfoot
- Moville

Detailed analysis determined a Low Level of flood risk
- Bridge End
- Newtown Cunningham
- Clonmany
- Malin

Flood Risk Management in Ireland

www.opw.ie
www.flooding.ie
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