#### 22 September 2022

Climate Action Regional Office (CARO)
Atlantic Seaboard South

# Coordinating Local Government to deliver Climate Action





**Kevin Motherway Regional Coordinator A/Senior Scientist** 

Oifig Réigiúnach um Ghníomhú ar son na hAeráide Rialtas Áitiúil Cósta Atlantach Theas Climate Action Regional Offices Local Government Atlantic Seaboard South



### **CARO Establishment**

#### 5 year funding from DECC:

- Build on Experience & Expertise
- Drive Climate Action & Build Capacity within LA Sector
- Coordinate Engagement across
   Various Agencies and Government
   Departments
- Translate Sectoral Efforts to Local Level



### **CARO Programme Work**



Management & Governance



Adaptation



Mitigation



Communications & Citizen Engagement



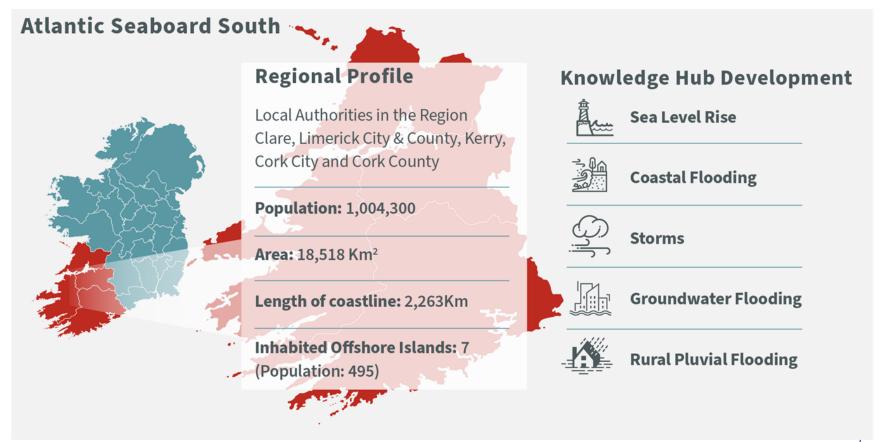
Training & Education



Knowledge Development



### **CARO Atlantic Seaboard South**



# **Climate Action**

Climate Mitigation + Climate Adaptation

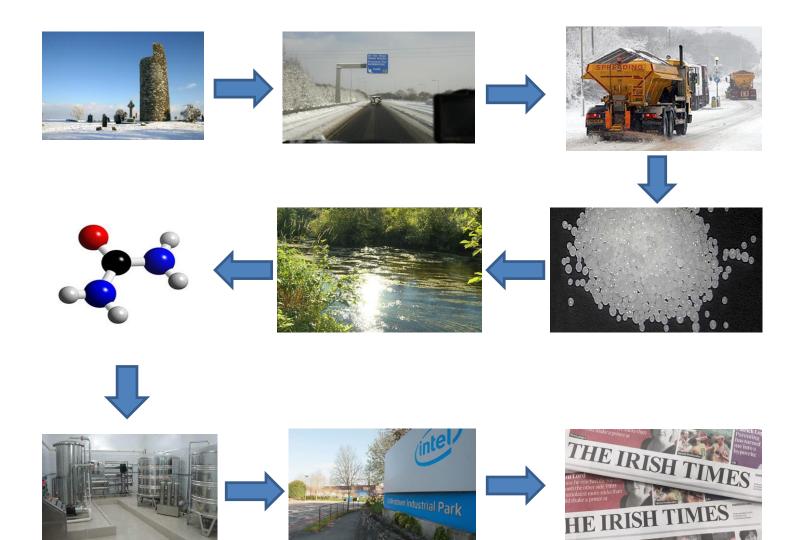




# **The Intel Parable**



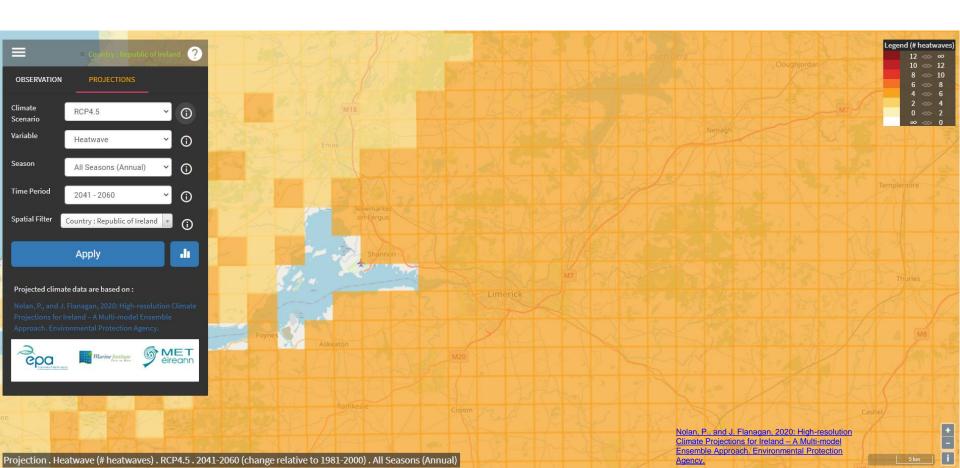




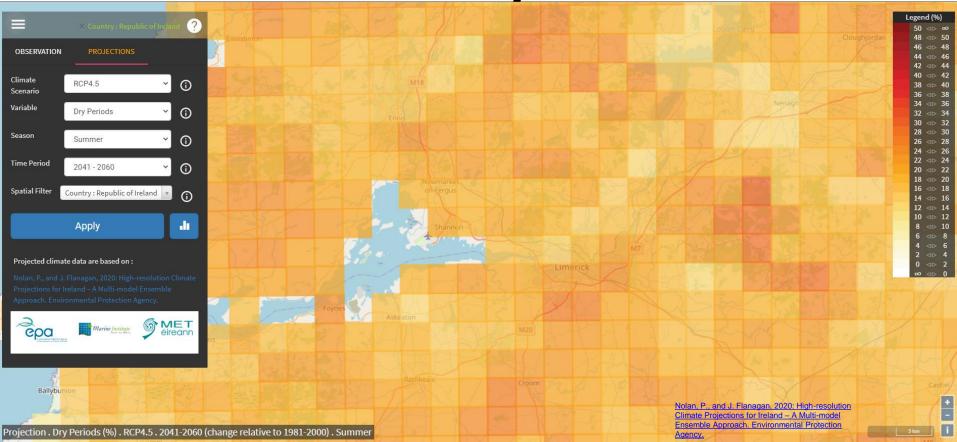
# www.climateireland.ie



# 2041-2060: 5.3 Heatwaves each Summer



2041-2060 Dry Periods (>5 days of <1mm) increase by 27%

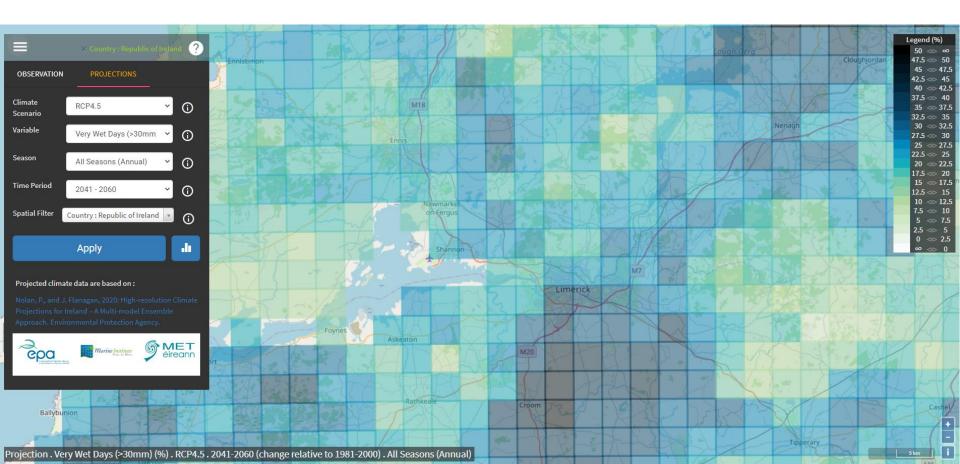


# 2041-2060 Growing Season Start 21 days Earlier

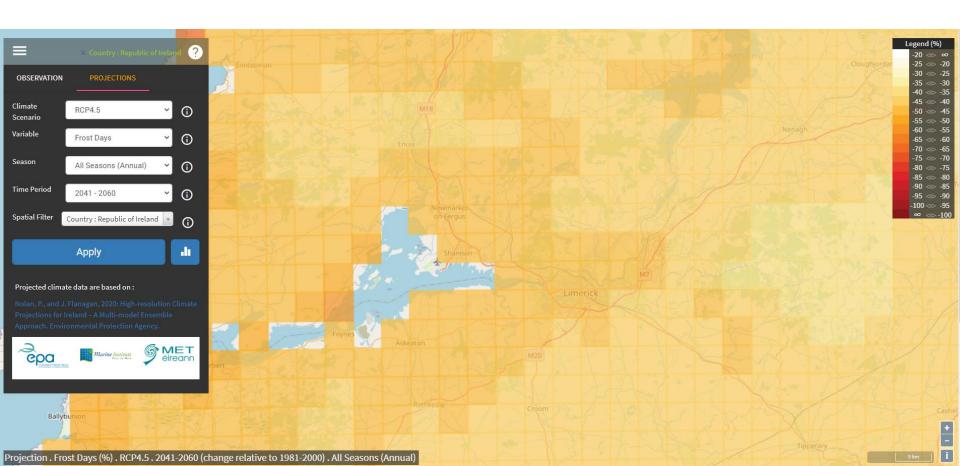
Foynes: lasts 13.4 % longer, 34 day longer grazing season

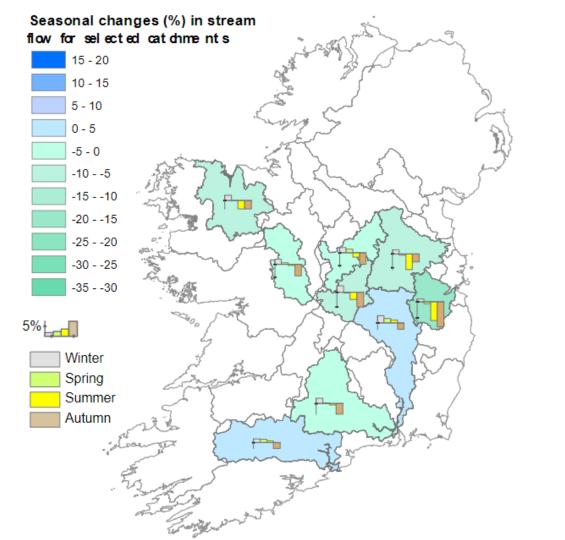


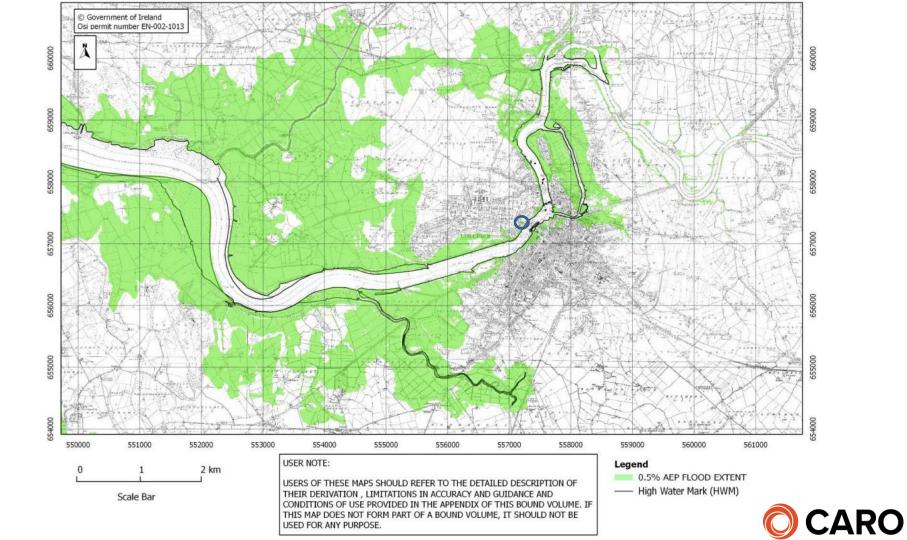
# 2041-2060 Annual Very Wet Days (>30mm) +35%

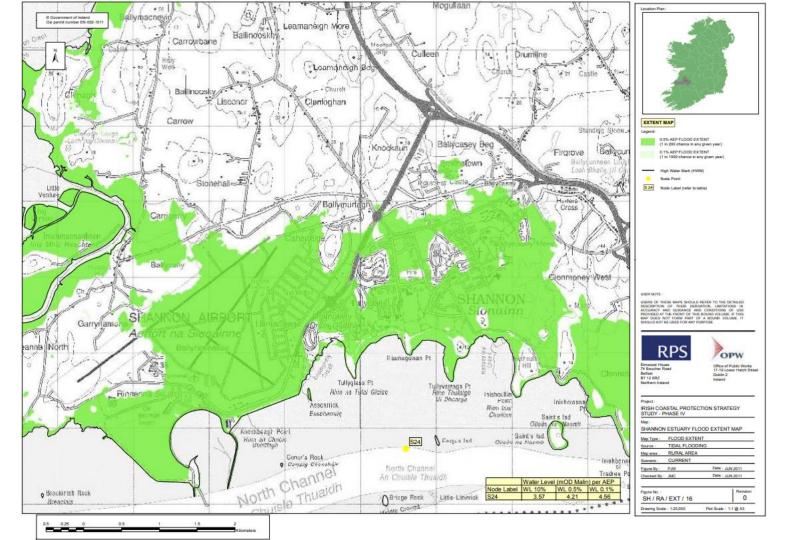


# 2041-2060 Frost Days: -45.9%









# Climate Action: Regional & Local Roads





- Loss of road function
- Damage to road infrastructure
- Flooding
- Increased emergency events
- Service outages (e.g. power)
- Other social, environmental & economic consequences



CARO is assisting the Local Authority sector by providing guidance and training to adapt to Climate Change impacts by:

- Increasing infrastructure resilience
- Reduce carbon emissions
- Limiting loss of road function
- Enhancing management systems and processes
- Identify "Lifeline roads"



# Climate Adaptation: Coastal Erosion & Change



Loss of wildlife and habitats



Loss of dwellings & infrastructure

**Local Authority Challenges identified** 

- Anecdotal increased infrastructure and protected areas at risk
- No national inventory of at risk infrastructure
- Resources Needed to address Coastal Change at LA level
- Skills development needed in LAs
  - Recognising and identifying issues
  - Securing Resources to manage issues
    - Nature based solutions
    - Sustainable infrastructure
  - How to draft coastal management plans



# A-AAGORA Horizon Project: Coastal Vulnerability

4-year Project with partners from Germany, France, Portugal, Norway, Finland, Romania and the UK.

#### €10M Budget

- Ecological Solutions to manage Coastal Vulnerability
- Demonstrator sites
- Working with Local/Regional Authorities
- Communities

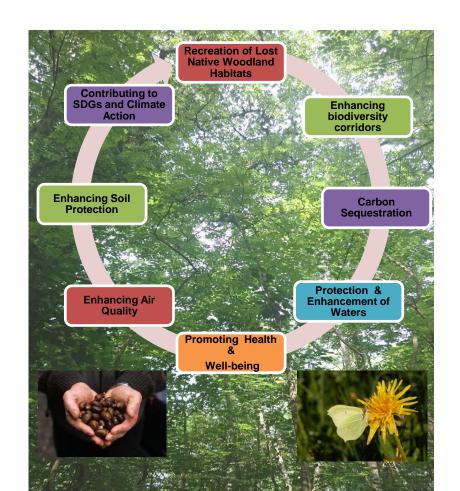


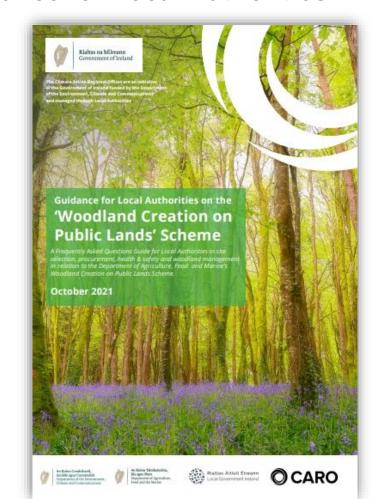


"This project will help guide County Cork and other coastal regions throughout the EU to address the challenges together while developing innovative and sustainable solutions that address adaptation and importantly enhance our resilience to a changing climate."

Tim Lucey, Chief Executive Cork Co. Co.

#### **Woodland Creation on Public Lands Guidance for Local Authorities**





# **Dublin Local Authority Climate Action Plans**

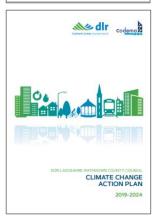
#### Main aspects

- Each plan is unique to its functional area for 4 LAs.
- Unified in approach to climate change adaptation and mitigation, and commitment to lead by example.
- 5 key areas:
  - Energy and Buildings
  - Transport
  - Flood Resilience
  - Nature-Based Solutions
  - Resource Management









### **Progress on NBS actions in Climate Action Plans (2021)**

Dublin Metropolitan CARO Region for 4 LA plans (2019-2024)

Local Authority	No. of NBS Actions	Complete	Ongoing	Postponed	Not started	New
Dun Laoghaire Rathdown	39	1	27	3	6	2
Dublin City	41	2	35	0	4	0
Fingal	19	0	16	0	3	0
South Dublin^	33	2	29	0	2	0

# **Conserving carbon sinks and habitats**





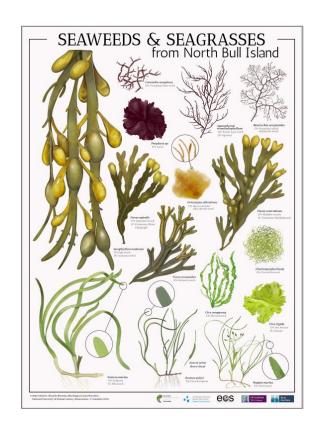


# **Conserving carbon sinks and habitats**

Wetlands – saltmarshes threatened globally







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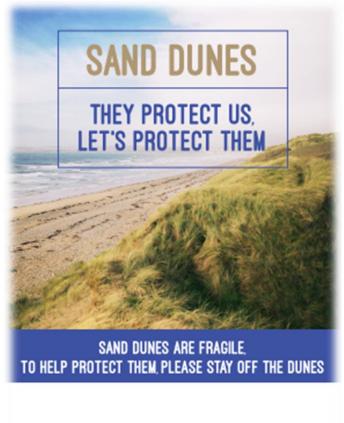




### Restoring degraded ecosystems





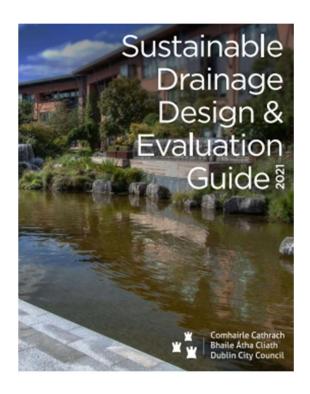






# Sustainable Urban Drainage Systems (SUDS)

Controlling storm water quantity and quality





### CARO Pilot Green Roof project with UCD, IGBC, DLR and FCC

To measure the ability of green roofs in Dublin to control for the urban heat island effect (promote transpiration) and to slow stormwater runoff





# LA Climate Mitigation: Energy Management

- 33% reduction by 2020 achieved
- 50% reduction by 2030 on-track
- Energy Performance Officers assigned
- Fleet efficiency management and electrification programme
- New LED Public Lighting
- Retrofit of Local Authority Housing Stock
- In CARO ASBS Region:
  - Energy and carbon savings equivalent to planting 2.2 million trees
  - kWh reduced equivalent to 9,000 Houses
  - ISO 50001 international accreditation standard for energy management
- CARO Providing energy management tools to assist Local Authorities in achieving savings in fleet management, housing, offices and other buildings







"It matters what you do
Matters what you say
It matters that you lead the way
It matters what you think
It matters what you know
There is no other place to go"

This is our home Magne Furuholmen



# Go raibh míle maith agaibh go léir.....

# Thank you all

Oifig Réigiúnach um Ghníomhú ar son na hAeráide Rialtas Áitiúil Cósta Atlantach Theas Climate Action Regional Offices Local Government Atlantic Seaboard South

