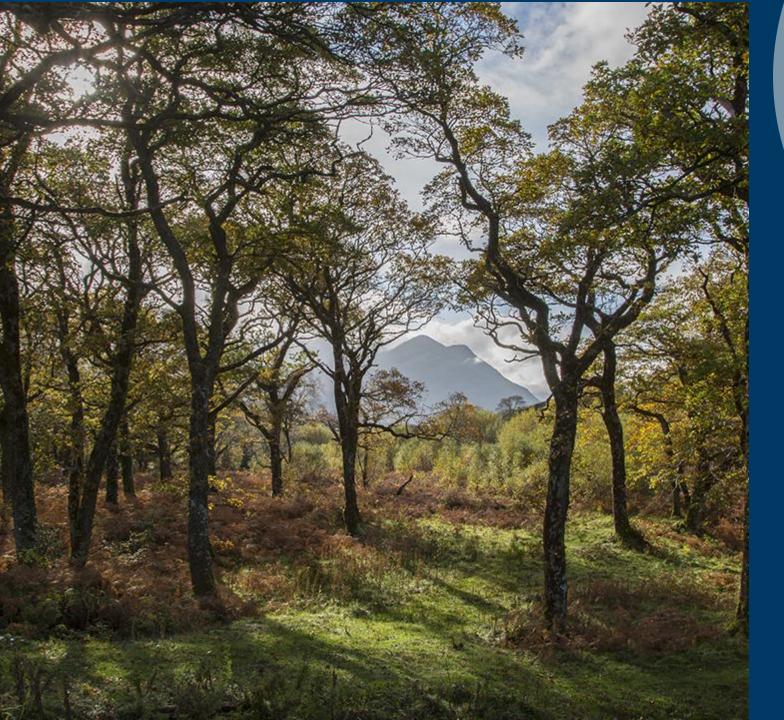


CLIMATE ACTION REGIONAL OFFICE ATLANTIC SEABOARD NORTH

PRESENTATION TO SEC WORKSHOP (GALWAY)

LOCAL AUTHORITY CLIMATE ADAPTATION STRATEGIES

MAY 2019



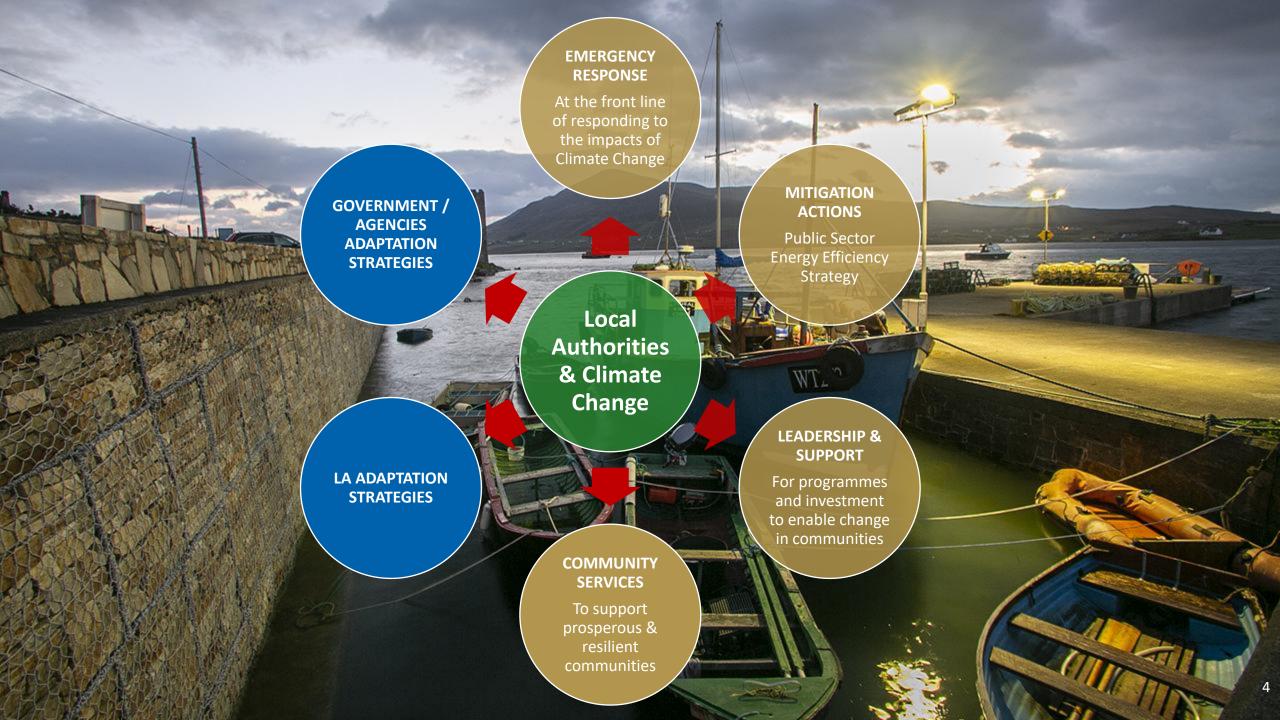


Local Authorities & Climate Change

Climate Action Regional Offices

Local Authority Climate Adaptation Strategies







CARO CLIM

CLIMATE ACTION REGIONAL OFFICE

- January 2018, DCCAE announced the establishment of LA Climate Action Regional Offices
 - Atlantic Seaboard North
 - Atlantic Seaboard South
 - Eastern & Midlands
 - Dublin Metropolitan
- Grouping based upon shared climate change risks.
 - Storm & Coastal Flooding
 - Fluvial Flooding
 - City & Urban Risks



CARO ROLES & OBJECTIVES

- Provide **expertise and capacity at local/regional level** to contribute effectively to the national transition to a low carbon and climate resilient economy.
- Ensure <u>efficient use of resources</u> in risk assessment, option assessment and adaptation strategy and action development.
- Enable a more <u>co-ordinated approach</u> for how Local Government liaises centrally with relevant Government Departments/Regional Assemblies/Agencies on climate related matters and with sectors in the preparation of Sectoral Adaptation Strategies under the NAF.
- **Centres of Expertise** with Academic Partnerships
- Develop common public education and awareness initiatives.
- Contribute to the **National Dialogue** on Climate Action on a local and regional basis

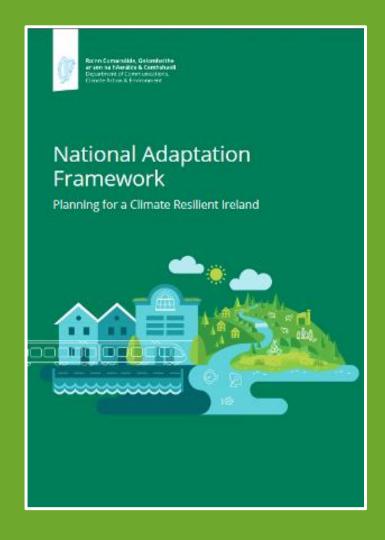


Why do LA's need to Adapt to Climate Change?

- Damage to critical infrastructure
 - Roads & bridges
 - Surface water drainage
 - Sewers / watermains (SLA IW)
 - Local Authority buildings and housing stock
- Flooding and water quality
- Disruption to local communities
- Disruption and changes to local heritage and biodiversity
- Disruption to services provided by the LA



NATIONAL CLIMATE CHANGE POLICY



- Low Carbon and Climate Action Act (2015)
 - National Mitigation Plan
 - National Adaptation Framework (NAF)
 - National Climate Change Advisory Council

Under the Climate Action and Low Carbon Development Act 2015, Local Authorities have statutory responsibilities to ensure that climate change adaptation plans are in place.

NATIONAL ADAPTATION FRAMEWORK

- Under the Framework, seven Government Departments (or Agencies, where appropriate) with responsibility for twelve priority sectors are required to prepare sectoral adaptation plans
- Sectoral plans to be submitted to Government for approval by 30 September 2019
- Local Authorities to prepare Local Adaptation Strategies also by 30 September 2019

Theme	Sector Level	Lead Department for Sectoral Adaptation Plans
Natural and Cultural Capital	Seafood	Department of Agriculture, Food and the Marine
	Agriculture	
	Forestry	
	Biodiversity	Department of Culture, Heritage and the Gaeltacht
	Built and Archaeological Heritage	
Critical Infrastructure	Transport infrastructure	Department of Transport, Tourism and Sport
	Electricity and Gas Networks	Department of Communications, Climate Action and Environment
	Communications networks	
Water Resource and Flood Risk Management	Flood Risk Management	Office of Public Works
	Water Quality	Department of Housing, Planning and Local Government
	Water Services Infrastructure	
Public Health	Health	Department of Health





Mayo County Council

Draft Climate Adaptation Strategy

April 2019

Climate Change Adaptation Strategy

> Internal Workshop 1 -Dec 2018

Step 2 Assessing the Current Baseline on Past Events



Internal Workshop 2 -Jan 2019



Step 1
Preparing
the Ground

Adaptation Team



Critical Buildings and Infrastructure



Natural and Cultural Capital



Water Resources and Flood Risk Management



Health & Well Being and Services



& Low Temperatures
High Temperature &

Extreme Cold Weather



Sea Level Rise & Coastal Flooding

Low Rainfall



Strong Winds



Extreme Rainfall



Step 3
Identifying
Future Climate
Impacts,
Vulnerabilities
& Risk

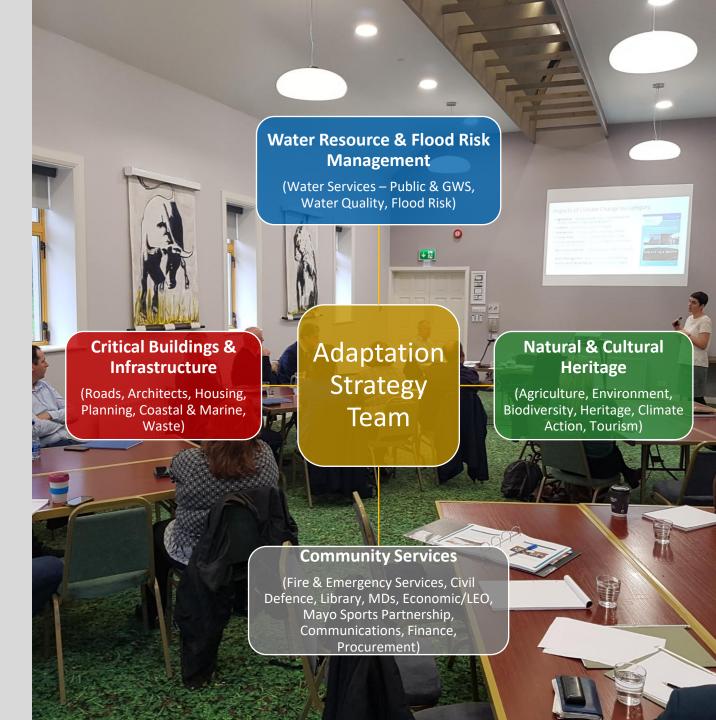
Internal Workshop 3 -Mar 2019

Step 4
Identifying,
Assessing and
Prioritising
Adaptaion Actions

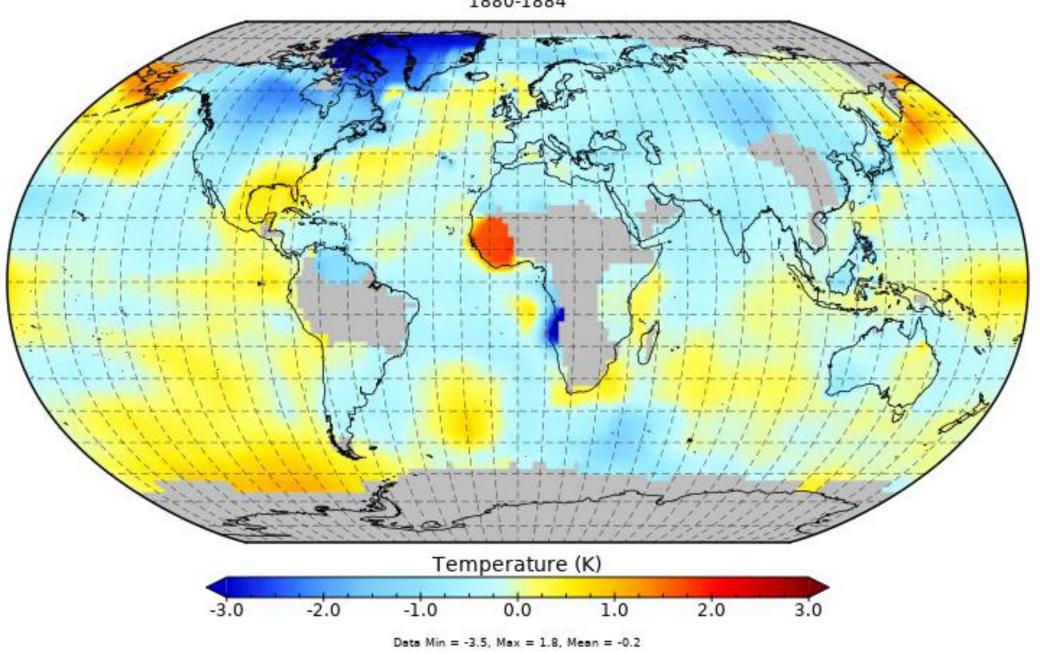


Step 5

Drafting, Implementing and Monitoring Strategy

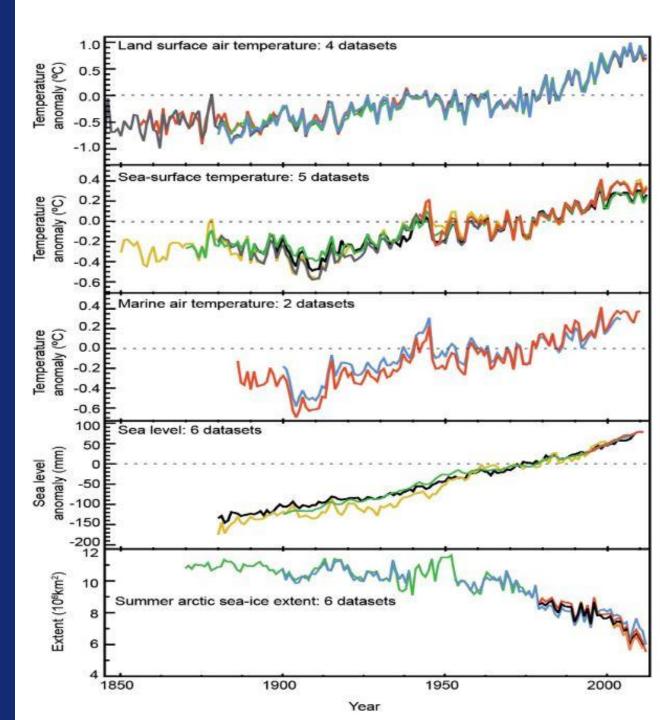


Annual Surface Temperature Anomaly base 1951-1980 1880-1884

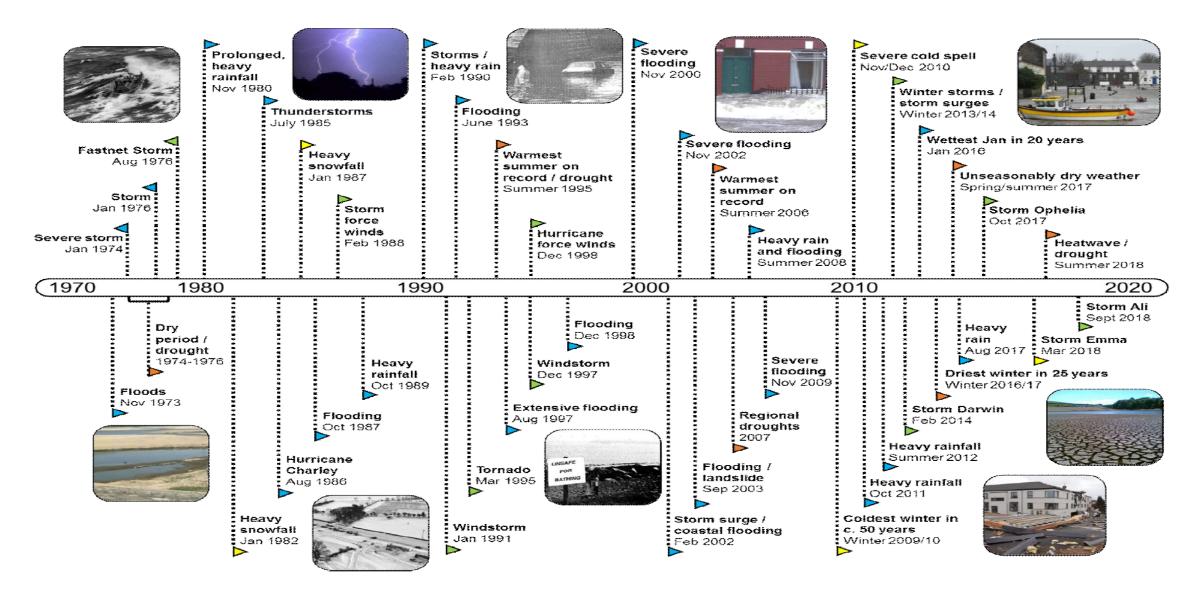


Changes are occurring across the Earth System

- Record high surface air temperatures
- Increased average number of hot days per year
- Decreased average number of cold days per year
- Increasing intensity and frequency of extreme events changing rainfall patterns
- Increasing sea surface temperatures and rising sea levels
- Increasing ocean heat content and ocean acidification
- Melting ice caps, glaciers and decreasing Arctic sea ice



Historic Climate Events in Mayo





















Key Long-term Climate Change Trends for Ireland

Temperature: continue to **increase everywhere and across all seasons**, with increases in the frequency and intensity of summer heat waves, extreme temperatures and drought;

Precipitation: decreases projected for spring and summer and **increases for winter**. An increase in the occurrence of **extreme rainfall events** is likely.

Wind: little change in average wind speed and direction. However, **frequency of extreme wind conditions** are expected to increase, particularly during winter;

Sea Levels: continue to **increase** and by up to 0.81m by 2100, with increases in the frequency and intensity of coastal inundation and erosion.



Impacts of Climate Change

- **Biodiversity** invasive species, phenology changes
- Coastal Areas erosion, sea level rise, storm surge
- Critical Infrastructure physical damage from extreme events, sea level rise etc.
- Marine and Fisheries biogeographical ranges of species distribution
- Agriculture heat and water stress, increased winter rainfall, diseases, longer growing season
- Forestry pest species, summer drought
- Water Management water supply, quality, flooding
- Human Health & Wellbeing physical injuries, death, infectious diseases





A Climate Ready Mayo

A county that understands how climate change will affect the region, our businesses and communities, and actively working together to reduce our exposure to climate risks and to capture new opportunities

Goal 1

Increase the resilience of Critical Infrastructure

& Buildings to climate change by planning and implementing appropriate adaptation measure

Goal 2

of our Natural &
Cultural Capital to
climate change by
planning and
implementing
appropriate adaptation
measure

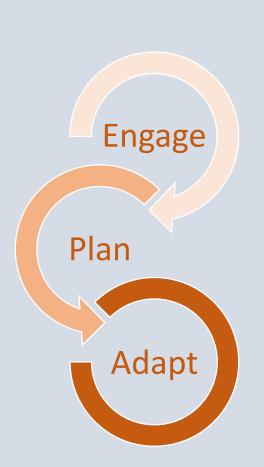
Goal 3

Increase the resilience of our Water Resources and Flood Management to climate change by planning and implementing appropriate adaptation measures

Goal 4

Increase the resilience
of our <u>Community</u>
<u>Services</u> to climate
change by planning and
implement appropriate
adaptation measures
and supporting
opportunities

Objectives to Meeting the Adaptation Goals



Engage

Improve education, awareness-raising and capacity on climate change, adaptation (and mitigation), impact reduction and early warning across the Local Authority departments, businesses, communities and individuals

Plan

Integrate climate change measures into policies, strategies and planning, as well as the identification of areas at risk to inform planning and decision-making

Adapt

Strengthen resilience and adaptive capacity, and develop and implement co-ordinated responses to climate risk where needed

Adaptation Actions

Action Timeframes

The Adaptation Actions will be implemented in the Short (5 years or less), Medium (greater 5 and less than 10 year) and Long term (greater than 10 years).



Many of the early Actions are centred around awareness, training and updating policies, procedures and plans to take account of climate projections and impacts.



What Happens Next?

April May June July August September

- Draft to Elected Members
- Graphic Design Work
- AA/SEAScreening

- Public Consultation (5-6 weeks)
- Statutory Consultation of AA/SEA Screening
- Assessment of Submissions
- Input from Sectoral Adaptation Plans
- Revisions to the Strategy

- Presentation to new Council
- Adoption of Strategy, or Any necessary changes to the draft Strategy
- Adoption of Strategy





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