

12 September 2019

Climate Change

The Role of Local Authorities

Oifig Réigiúnach um
Ghníomhú ar son na hAeráide
Rialtas Áitiúil
Réigiún an Oirthir agus Lár Tíre

Climate Action
Regional Offices
Local Government
Eastern and Midlands



Presentation Outline

1. Climate Change in Ireland
2. Impact on Local Authorities
3. Role of Climate Action Regional Offices
4. Emerging Climate Adaptation Strategies
5. All of Government Climate Action Plan
6. Future Challenges and Opportunities

Climate Change in Ireland

Climate Change in Ireland

Sub Heading



Higher Temperatures

Maximum, minimum and average temperatures are projected to rise 0.9-1.7°C



Frost

Decrease in the frequency of frost days



Rainfall events

The intensity of heavy events is likely to increase

Drought

Likely increase in drought conditions from low rainfall and increase in likelihood of heatwaves



Hotter days

The number of warm days is expected to increase and heatwaves are expected to occur more frequently.



Sea Level Rise

Sea levels will continue to rise for all coastal areas by up to 0.8m by 2100.



Ocean Temperature

Sea surface temperatures are expected to increase – 1.9°C by 2100



Sea level extremes

Higher Sea Levels will increase the risk of coastal hazards from storm surge and inundation



Wind

Expected increase in extreme wind speeds in winter

Climate Change in Ireland

Summary of observed impacts

Ireland's climate is changing in line with global patterns;

- Temperatures are rising across all seasons
- The timing and spatial distribution of precipitation (rain, sleet and snow) is changing
- Sea levels are rising
- The frequency and intensity of extreme weather events are changing



Impact on Local Authorities

Impact on Local Authorities

Waterways, Sallins – 27th November 2009



1D205737 Photo: © Peter Barrow Photography 30th November 2009 Between 9:35am and 10:45am Tel: 045-401070

Sallins

Impact on Local Authorities

Storm Emma



Impact on Local Authorities

Storm Ophelia

- Disruption to transport networks
- Fallen trees
- Water supply & waste water treatment (IW – SLA)
- Loss of power supply
- Clean up costs

12/09/2019

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INDEPENDENT.IE NEWS OPINION BUSINESS SPORT LIFE STYLE ENTERTAINMENT TRAVEL VIDEO PODCASTS


Wednesday 7 November 2018

News Hurricane Ophelia

FOLLOW CONTACT

Ophelia Nationwide: Local authorities begin to count the damage as the storm continues to hit part of the country

• 330,000 homes and businesses without power across the country - ESB
• Some homes won't have power restored for 10 days
• Clean-up operations will begin in earnest on Tuesday
• Bus Eireann services to resume on Tuesday



2 Q

Surfers watch as waves approach in the Atlantic on the eve of storm Ophelia in an area where the tide should be out in the County Clare town of Lahinch, Ireland October 15, 2017. REUTERS/Ciódagh Kilcoyne

Most Read Most Shared

'An absolute tragedy' - Tributes paid to three victims of Storm Ophelia [Hurricane Ophelia](#)

Luas services to be suspended until Wednesday morning [Hurricane Ophelia](#)

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Computer Owners Are Using This Simple Trick To Get Free Protection The Review Experts

Introducing the Dulux colour of the year 2019 - 'Spiced Honey'

Singles in Dublin Compare the Top 5 Dating Sites Top 5 Dating Ireland

Editor's Choice

Ian O'Doherty: 'Immigrant 'caravan' heading for the States puts our own illegals under US microscope'

Impact on Local Authorities

Summer 2018

- Drought
- Reduced flow in rivers
- Damage to roads



Lost village emerges from lake as water levels plummet at Wicklow reservoir

Pictures reveal a homestead and farming equipment in the man-made reservoir.



(An Garda Síochána)

Impact on Local Authorities

- Damage to critical infrastructure
 - Roads & bridges
 - Surface water drainage
 - Local Authority buildings and housing stock
- Flooding and water quality
- Disruption to local communities
- Changes to local bio-diversity
- Service disruption
- Additional costs

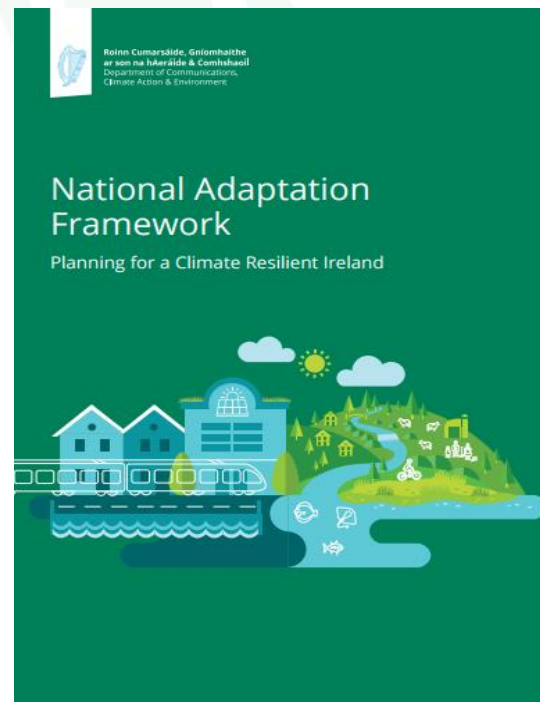
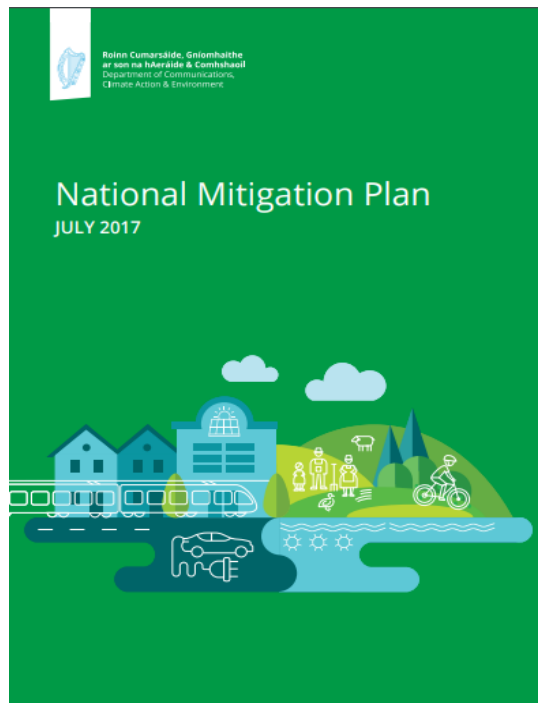


Role of Regional Climate Action Offices

Role of Climate Action Regional Offices

Policy Position

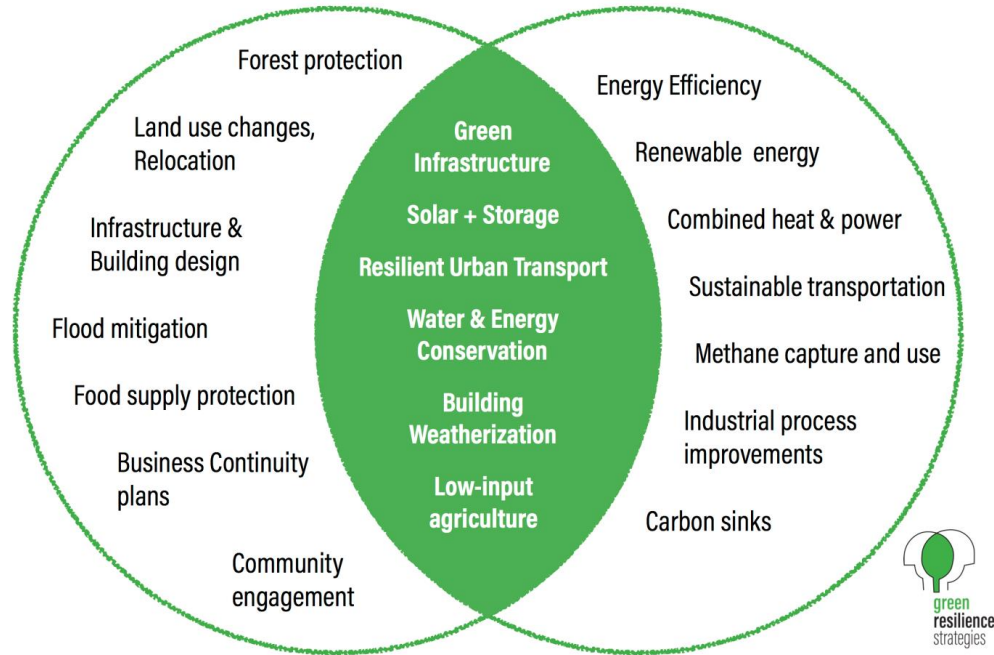
Climate Action and Low Carbon Development Act 2015



Role of Climate Action Regional Offices

Policy Position

Adaptation + Mitigation



Role of Climate Action Regional Offices

Policy Position

- **National Adaptation Framework** January 2018
- 12 Actions identified, including:
 - Approve local adaptation strategies – 30th September 2019
 - Regional governance approach
 - Establish regional climate action offices to coordinate LA response to climate change

Role of Climate Action Regional Offices

County & City Managers Association

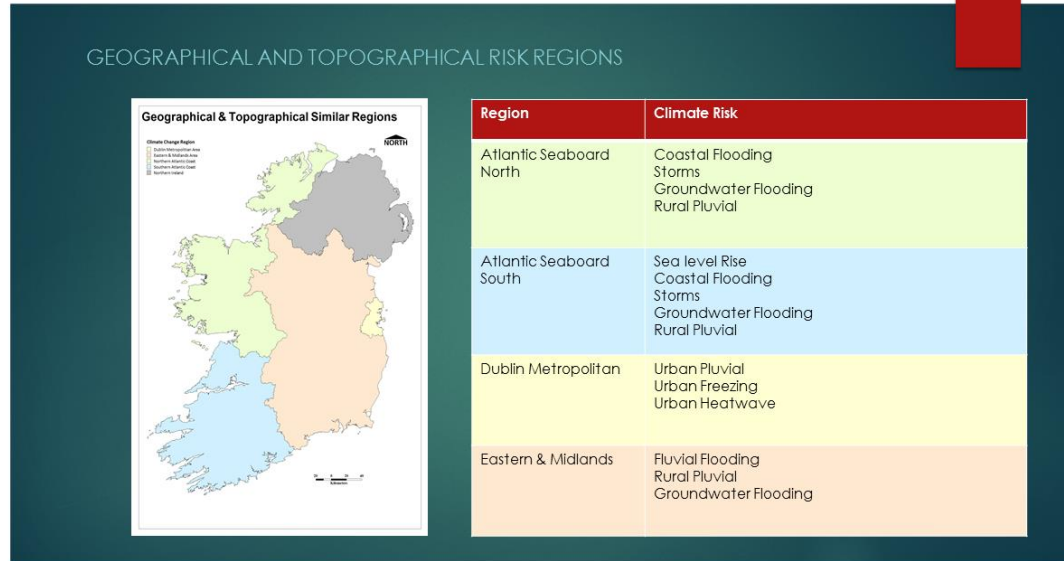
CCMA & LGMA business case:

- Coordinate
- Reporting and Governance
- Facilitate/Foster
- Identify & address weaknesses
- Create effective linkages
- Develop Centres of Excellence
- Regional Specialisms

Role of Climate Action Regional Offices

County & City Managers Association

- 4 geographical/topographical regions
- Based on climate risk



Role of Climate Action Regional Offices

Atlantic Seaboard North

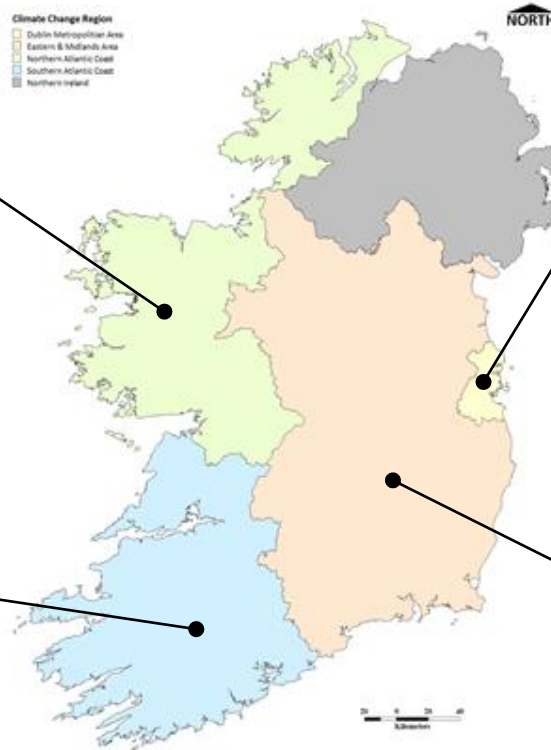
Mayo County Council

Atlantic Seaboard South

Cork County Council

Geographical & Topographical Similar Regions

Climate Change Region
Dublin Metropolitan Area
Eastern & Midlands Area
Northern Atlantic Coast
Southern Atlantic Coast
Northern Ireland



Dublin Metropolitan

Dublin City Council

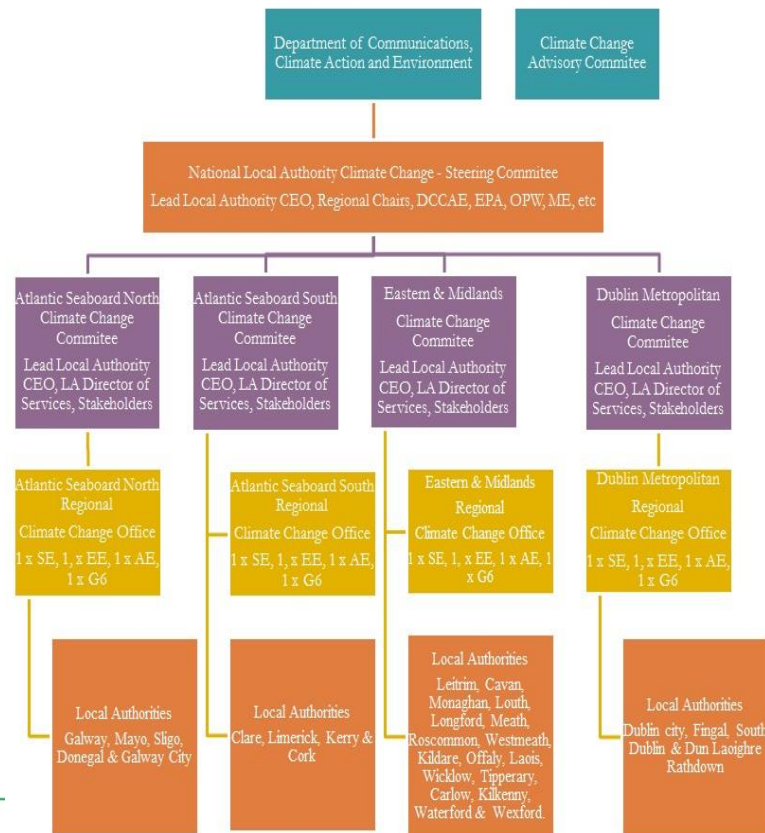
Eastern & Midlands

Kildare County Council
Kilkenny County Council*

Role of Climate Action Regional Offices

County & City Managers Association

- Jan 2018, €10 million in funding over 5 years announced for Regional offices
- SLAs with DCCAE
- Governance structure in place
- SLAs with Local Authorities
- Regional liaison with Central Government & other sectors
- Develop 'Centres of Excellence'



Role of Climate Action Regional Offices

2019 Work Programme



1 Establish Regional Offices



2 Local Authority Adaptation Strategies



3 Projects, Research and Regional Specialisms



4 Training and Education



5 Communication



6 Mitigation

Role of Climate Action Regional Offices



Establish Regional Offices

- Offices established
- Staff Structure
 - Regional Coordinator
 - Regional Executive (2 EM CARO – partner LA)
 - Regional Assistant
 - Senior Staff Officer
- Governance Structures in place
- DCCAE Work Programme agreed

Role of Climate Action Regional Offices



Local Authority Adaptation Strategies



- Workshops
- Mentoring
- Templates / Presentations
- Regional SEA/AA Screening
- Aligning sectoral actions

Role of Climate Action Regional Offices

A yellow oval button with the word "Expert" in black text.

Develop Projects, Research and Regional Specialisms

- Regional Specialisms
- 3rd Level Institutions
 - Research Post Doc – MU/OPW
- Funding Streams
 - EPA research call
 - Climate Action Fund
 - EU Funding – Regional Assemblies



Role of Climate Action Regional Offices



Training and Education

- Training Plan - Mapping gaps and training needs
 - Elected Members
 - Local Authority Staff
 - Communities
 - Technical & behavioural change training
- Training Partners
 - AILG
 - ESTG
 - IPA
 - 3rd Level Sector
 - Technical training partners (SEAI, OPW etc.)

AILG

Association of Irish Local Government
Aontas Rialtas Áitiúil na hÉireann

IPA



Environmental Services Training
Group

Role of Climate Action Regional Offices



Communication

- National Dialogue on Climate Action
 - Collaborating with EPA
 - Engagement & Awareness
 - Form networks
 - Input into policy
- Pilot Events
 - Athlone - 23rd June 2018
 - Tralee – 10th November 2018
 - NDCA at county level - Kildare – 2019 / 2020



Role of Climate Action Regional Offices



Mitigation

- All of Government Climate Action Plan
- Challenging targets for each sector
- Develop LAs as leaders
- EU Covenant of Mayors
- ISO 50,001

 **Rialtas na hÉireann**
Government of Ireland

Tionscadal Éireann
Project Ireland
2040

Climate Action Fund

28 November 2018

On completion of the Assessment Stage of the First Call for Applications for support under the Climate Action Fund, the following seven projects have been approved as eligible for support by the Minister for Communications, Climate Action and Environment, Richard Bruton T.D.

These projects will now proceed to the Validation Stage of the process. Projects that do not satisfactorily complete this stage will not progress to be supported by the Climate Action Fund.

Organisation / Lead Applicant	Project Name	Maximum Support Approved
ESB eCars	ESB Electric Vehicle High Power Charging Infrastructure Development Project	€10,000,000
Gas Networks Ireland	GRAZE Gas – Green Renewable Agricultural Zero Emissions Gas	€8,474,340
Irish Rail	Hybrid Drive for Inter City Railcar (ICR 22000) fleet	€15,000,000
Dublin City Council	Dublin District Heating System	€20,000,000
South Dublin County Council	The South Dublin County Council Tallaght District Heating Scheme	€4,447,952
Road Management Office	Local Authority Public Lighting Energy Efficiency Project	€17,470,000
3 Counties Energy Agency CLG	Driving HGV Efficiently into Brexit	€1,373,400
Total		€76,765,692

 **Roinn Cumarsáide, Gníomhaíthe ar son na hAeráide & Comhshaoil**
Department of Communications, Climate Action & Environment



Emerging Climate Change Adaptation Strategies

Emerging Climate Change Adaptation Strategies

Purpose of the Strategy

- Part of the **National Adaptation Framework** - role at local level to:
 - Ensure comprehension of the key risks and vulnerabilities of climate change
 - Bring forward the implementation of climate resilient adaptation actions in a planned and proactive manner
 - Ensure climate adaptation considerations are mainstreamed into all operations and functions of the local authority.

Emerging Climate Change Adaptation Strategies

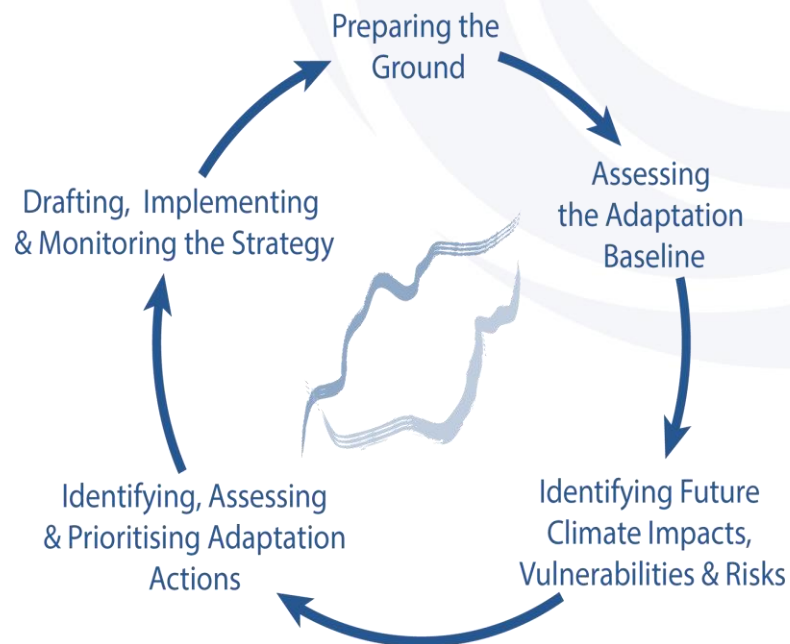
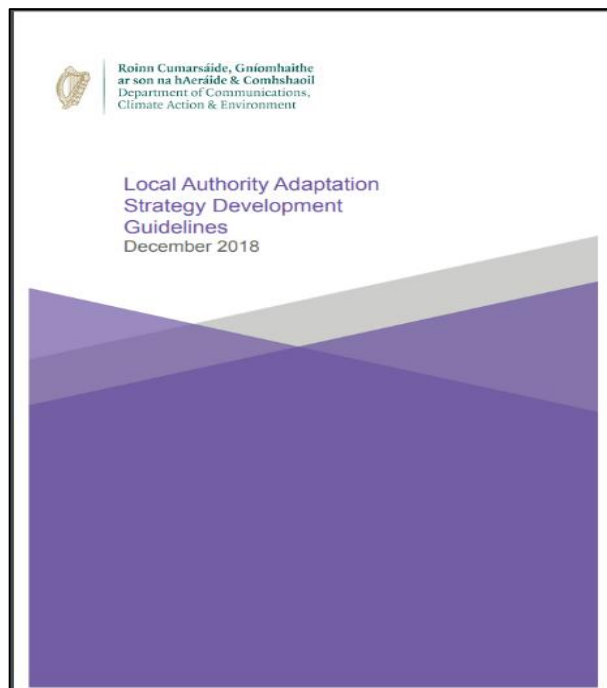
Preparing the Strategy – establish a Climate Action Team

Fire Services	Civil Defence	Planning	Community & Enterprise
Environment	Library & Arts Services	IT /GIS	Roads & Transport
Heritage & Biodiversity	Finance	Housing / Architectural Services	Water Services
	Parks	Local Enterprise Office	



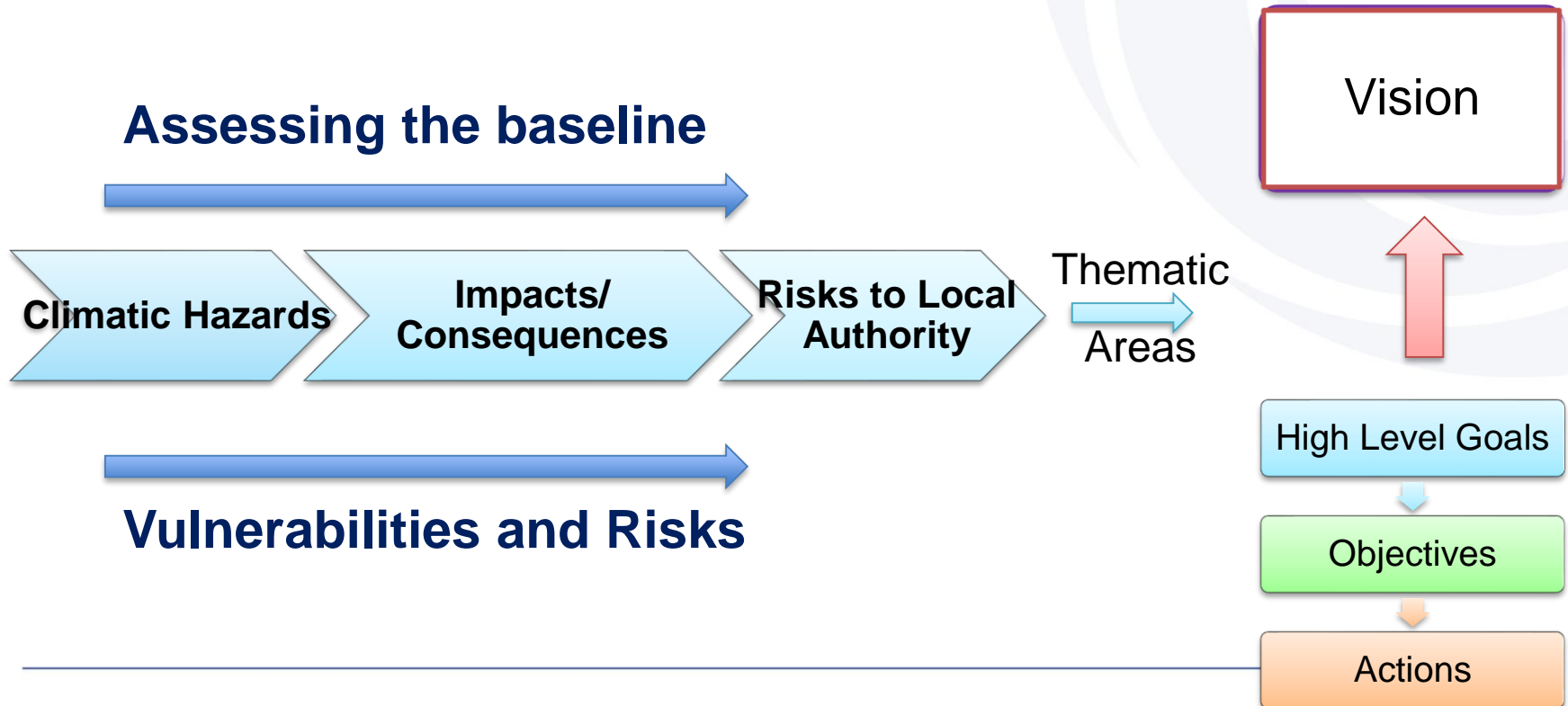
Emerging Climate Change Adaptation Strategies

Preparing the Strategies - Guidelines



Emerging Climate Change Adaptation Strategies

Preparing the Strategies



Emerging Climate Change Adaptation Strategies

Approve Local Adaptation Strategies by 30th September 2019



Next Steps:
Implementation
Progress Reporting

Emerging Climate Change Adaptation Strategies

Roll for Elected Members

- Understand strategy purpose and role it has in expanding service delivery
- Ensure Climate Change considerations are integral in decision making processes
- Support staff in implementing actions and initiatives as they strive to build organisational resilience
- Support the continued gathering of evidence base

Emerging Climate Change Adaptation Strategies

Roll for Elected Members

- Seek & maintain Climate Action as an agenda item
- Land use & planning – climate considerations & policies
- Budgets & track implementation progress
- Leadership role within communities – support behavioural change
- Promote development of “Sustainable Energy Communities”
- Propose & promote climate action projects – mitigation & adaptation

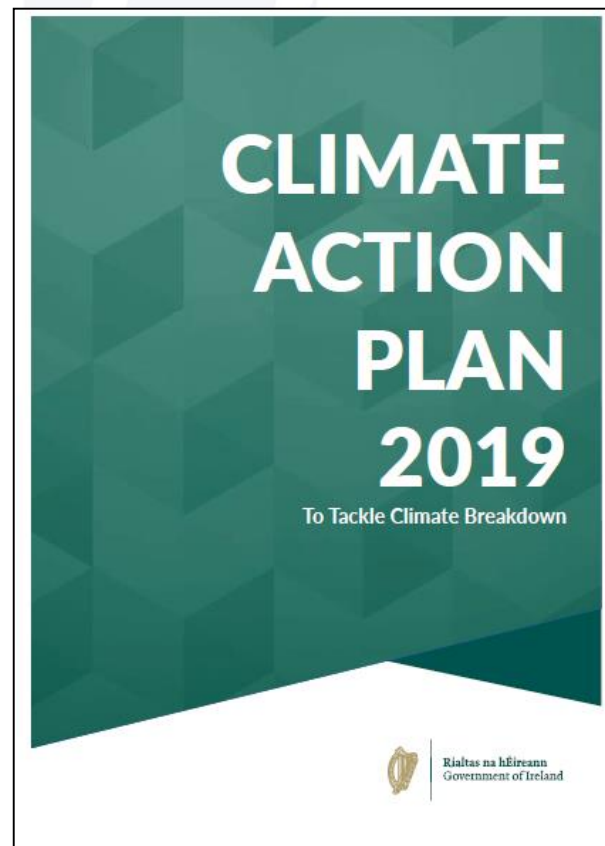


All of Government Climate Action Plan

All of Government Climate Action Plan

Roll of Local Authorities

- Published 17th June 2019
- 183 Actions
- Will be for basis for legislation –
 - Action No. 4 - *Publish Climate Action (Amendment) Bill 2019*
- ‘Steps necessary for Delivery’ listed in ‘Annex of Actions’
- Plan will be updated every 12 months (p.13)
- “25% of public investment in coming decade is linked to climate action” (p.9)

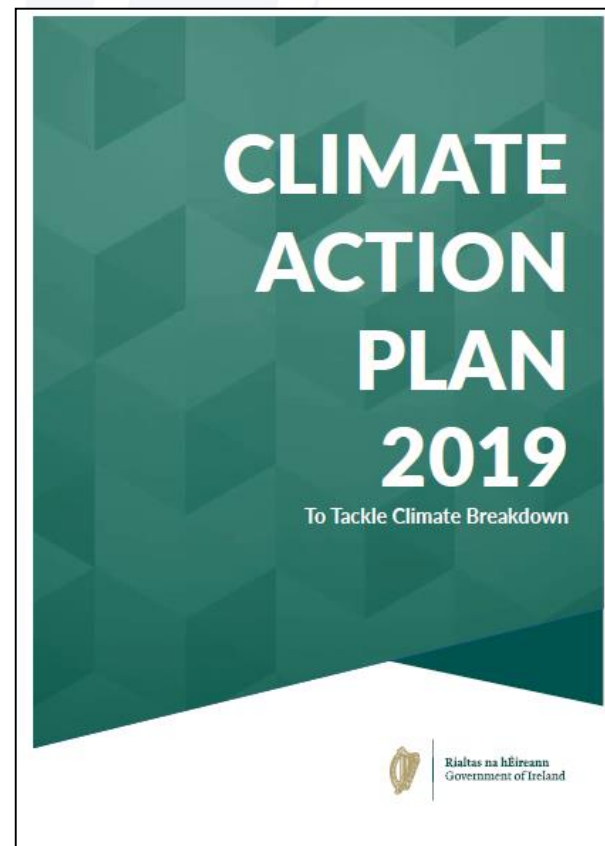


All of Government Climate Action Plan

Roll of Local Authorities

- Governance

- Climate Action Delivery Board overseen by the Department of the Taoiseach
- An independent Climate Action Council to recommend the Carbon Budget and evaluate policy
- Strong Accountability to an Oireachtas Climate Action Committee
- Carbon Proofing all Government decisions and major investments



All of Government Climate Action Plan

Summary of Actions



Electricity

70%

Electricity generated from renewable sources by 2030



Phase-out Coal and Peat electricity generation



Homeowners to generate their own electricity and sell back to the grid under scheme for **micro-generation**



Transport

Increase the number of EVs by 2030 to circa



1 million

Build EV charging network to stay ahead of demand

Expand our network of cycle paths and 'Park and Ride' facilities, helping ease congestion

No diesel-only purchases for public buses in our cities from 1 July 2019



Agriculture

Deliver GHG emissions reduction identified by Teagasc by creating new, sustainable opportunities for family farms



8,000 ha

on average, of newly planted forest per year

40,000 ha

at least, of improved grasslands on drained organic soils per year



Buildings



500,000

existing homes to upgrade to 'B2' equivalent BER by 2030

600,000

heat pumps installed by 2030 (of which 400,000 will be in existing buildings)



New retrofitting delivery model, which will group retrofits together, leverage smart finance, and ensure easy pay-back methods



Waste and the Circular Economy



Reduce the percentage of municipal waste sent to landfill to **10%** by 2035

Reduce food waste by 50% by 2030



By 2030

Recycle 70% of packaging waste



Recycle 55% of plastic packaging waste

Eliminate non-recyclable plastic and impose higher fees on the production of materials that are difficult to recycle

Ban specific single-use plastic convenience items including polystyrene food, cup, and drink containers



Citizens and Communities

Engage Communities across the country through:

- Establishing a **Community Outreach Programme**
- Driving action through the **National Dialogue on Climate Action**
- Increase the number of Sustainable Energy Communities to **1,500**
- Develop **flagship low-carbon projects** in all Local Authorities



Establish a Just

Transition Review Group, which will identify specific transition needs among cohorts of workers, enterprises, communities and specific groups of people



Enterprise and Services

Embed **decarbonisation** and waste management measures across **all enterprises and public service bodies**



Mobilise low carbon **centers of excellence** in our regions and across sectors

Plan for the delivery of quality employment and enterprise in the **new areas of opportunity**



International Action

Double the percentage of **Overseas Development Aid** spending on climate finance by 2030



Public Sector

Reduce emissions from the public sector by

30% by 2030



Every public body will adopt a **Mandate for Climate Action in 2019**

Improve energy efficiency of public sector buildings

50% by 2030



To be Enshrined in Law

Carbon proofing all government decisions and major investments



Climate Action Delivery Board overseen by the **Taoiseach** to monitor delivery

Strong accountability to an Oireachtas Climate Action Committee

5 Year Carbon Budget

Independent Climate Action Council to recommend the Carbon Budget and evaluate policy



Carbon Pricing

Trajectory of Carbon Pricing to create **behaviour changing incentives** and avoid locking in carbon intensive technologies

All of Government Climate Action Plan

Roll of Local Authorities – Example of Actions

Action No	Action
145	Develop a strategy to achieve at least a 30% reduction of CO ₂ eq. emissions by 2030 and a 50% improvement in public sector efficiency
146	Strengthen incentives and supports to enable managers and Energy Performance Officers to deliver new 2030 targets
147	Introduce a Climate Action charter for each Local Authority through the use of Ministerial direction
148	Mandate the inclusion of green criteria in procurements using public funds

All of Government Climate Action Plan

Roll of Local Authorities – Example of Actions

Action No	Action
149	Enable the deployment of electric vehicles (EVs) in public sector fleets
150	Support the development of Local Authority Climate Action leadership and capacities – training of EMs, Snr Management, Staff
165	Extend flagship low-carbon projects to other towns and villages (e.g. Portlaoise Low-Carbon Town)
182	Build local and regional resilience to the climate change – Local Authority Climate Change Adaptation Strategies

All of Government Climate Action Plan

Roll of Climate Action Regional Offices

- Maintain existing regional structure as a mechanism for LAs to deliver actions
 - Regionalised mitigation & adaptation projects
 - Pilot projects to be rolled out across regions
- Provide technical advice, training and regional support
- Provide direction to LAs to achieve energy management standards
- Build on existing relationships with Gov Depts and state bodies
- Productive relationships with 3rd Level Institutions
- Development of regional specialisms

Future Challenges and Opportunities



Future Challenges and Opportunities

Local Government Climate Action

- Buy in at a local level
- Climate Action Charter
- Business opportunities & innovation
- Cross sectoral collaboration
- Funding and resourcing
 - Training & capacity building
 - Staff
- Implementation of Actions
 - Regionally led and local level
- Mitigation – emission reduction targets

The logo for the Association of Irish Local Government (AILG) features the acronym 'AILG' in a large, dark blue, serif font. The letters are closely spaced, with the 'I' and 'L' being particularly prominent. The background of the slide features faint, light blue concentric circles.

Association of Irish Local Government
Aontas Rialtas Áitiúil na hÉireann

Future Challenges and Opportunities

Local Government Climate Action

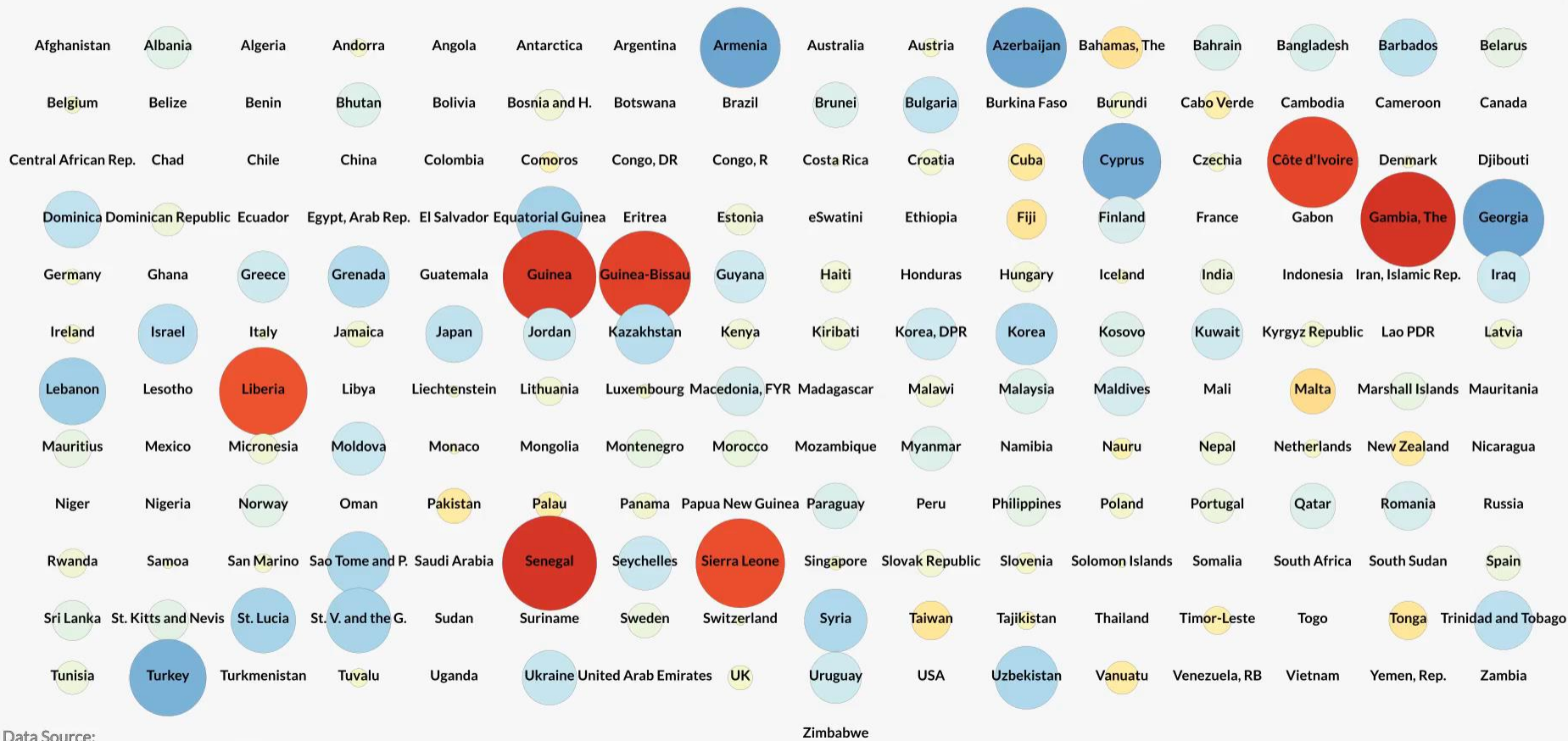
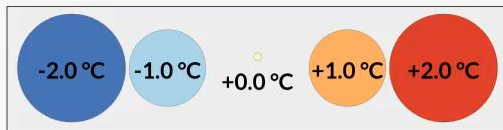
- Creating Economic & Business Opportunities from Climate Change
- October 9th Tullamore Court Hotel
 - Innovation
 - New technologies
 - Circular Economy
 - Green Finance
 - Sustainable tourism
 - Clean power
 - Remote working



Temperature Anomalies by Country


Years 1880 - 2017

1880



Data Source:
 NASA GISS, GISTEMP Land-Ocean Temperature Index (LOTI), ERSSTv5, 1200km smoothing
<https://data.giss.nasa.gov/gistemp/>
 Average of monthly temperature anomalies. GISTEMP base period 1951–1980.

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 Antti Lipponen (@anttilip)



Thank You! Questions?