

# Leadership in Climate Action

LCDC Networking Event, Tullamore

9<sup>th</sup> November 2019

Dr Tara Shine and Madeleine Murray



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# Agenda

14.00 – 14.15	Introduction to climate change
14.05 – 14.40	Policy context
14.20 – 14.40	Community led climate solutions - Case studies
14.40 – 15.00	Visioning exercise (interactive)
15.00 - 15.10	Planning and leading local climate action
15.10 -15.30	Taking action to achieve your vision (interactive)
15.30 – 15.45	3 actions to lead on
15.45 -15.50	Wrap up



# Who we are



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# Pop Quiz



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# What is climate change?



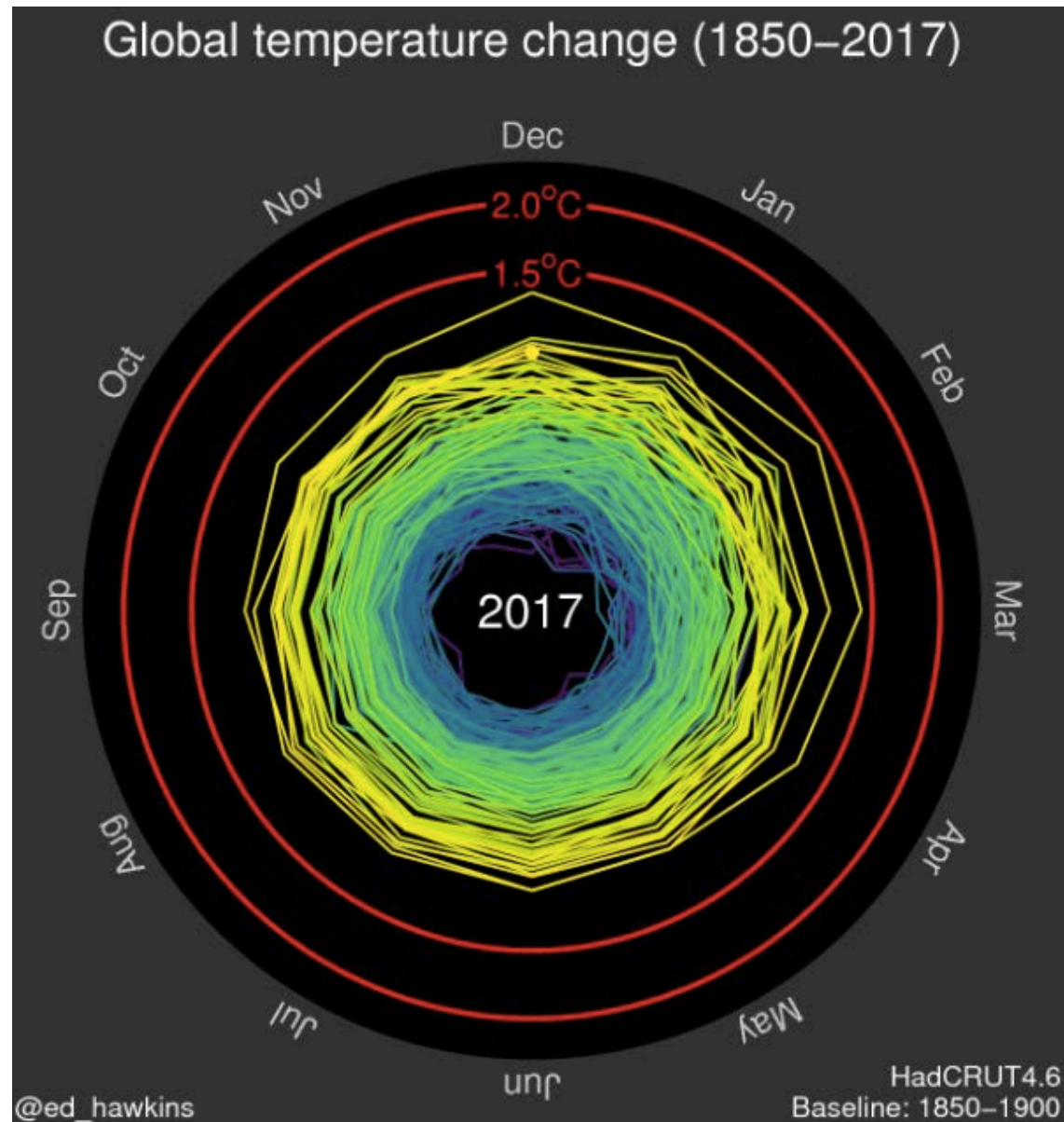
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# Weather versus Climate

**Climate change is caused by increasing global temperatures (global warming) which are disrupting natural processes**





[http://blogs.reading.ac.uk/climate-lab-book/files/2018/12/spiral\\_2018\\_WMO\\_large.gif](http://blogs.reading.ac.uk/climate-lab-book/files/2018/12/spiral_2018_WMO_large.gif)



An abstract background composed of numerous vertical stripes of varying widths and colors. The color palette includes various shades of blue (from deep navy to light sky blue), orange (from pale peach to vibrant orange), and red (from deep crimson to bright red). The stripes are arranged in a non-repeating, organic pattern that fills the entire frame.

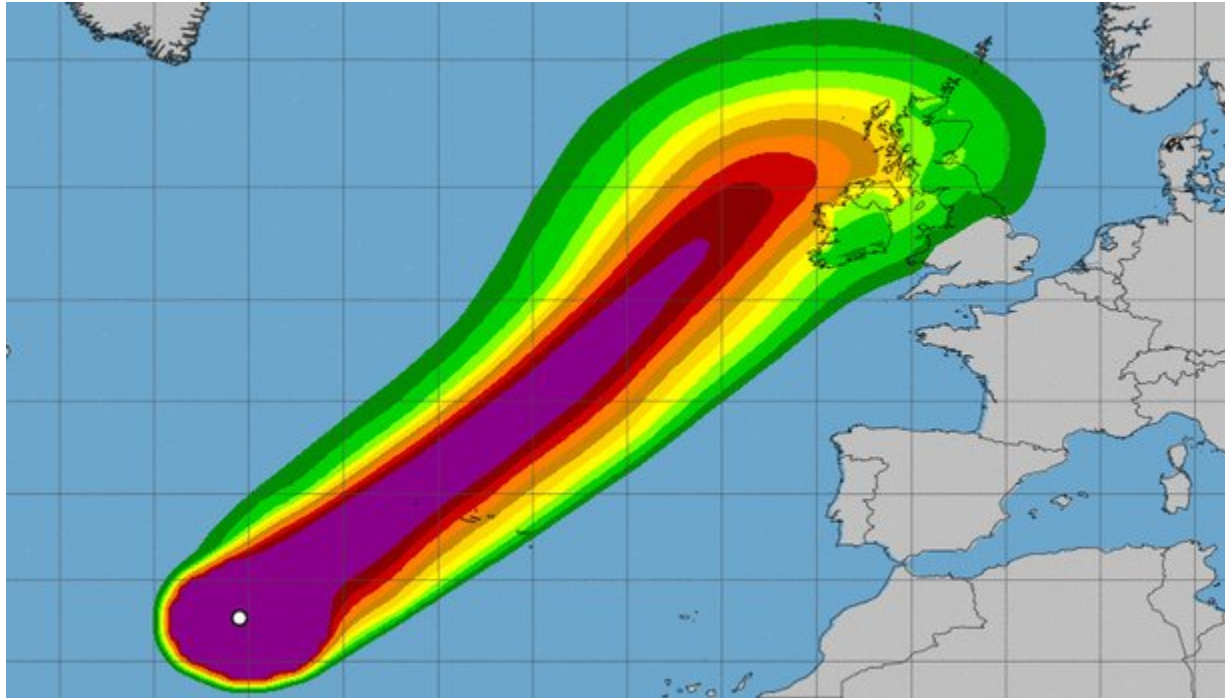
# Ireland's Future Climate

- Increase in the frequency and intensity of extreme weather
- Increases in average temperatures and in the occurrence of heatwaves
- Increase in the frequency of heavy precipitation
- Rising sea levels

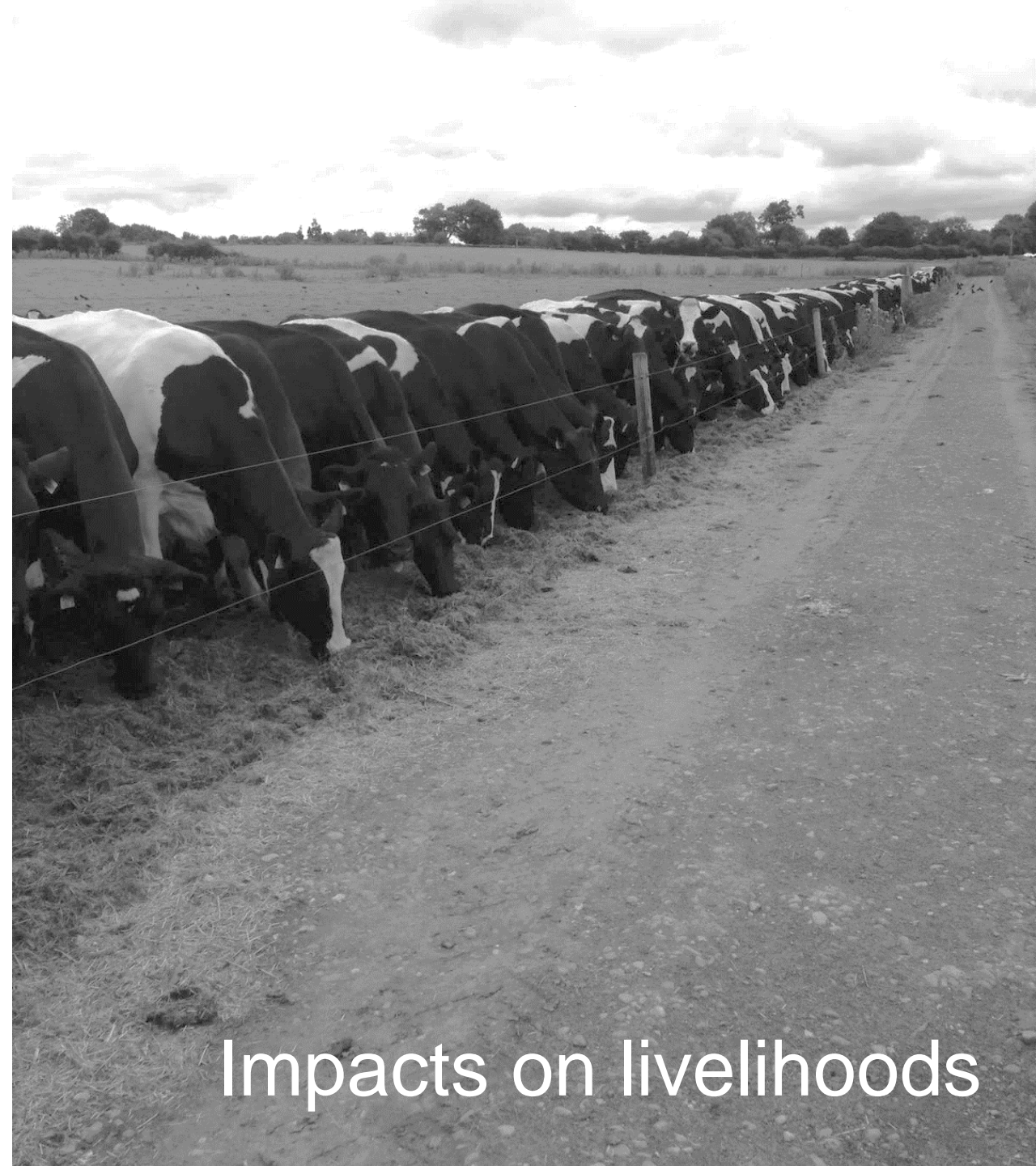




# More frequent and extreme weather events



Lorenzo - the most northerly and most easterly large hurricane ever to form over the Atlantic Ocean.



Impacts on livelihoods



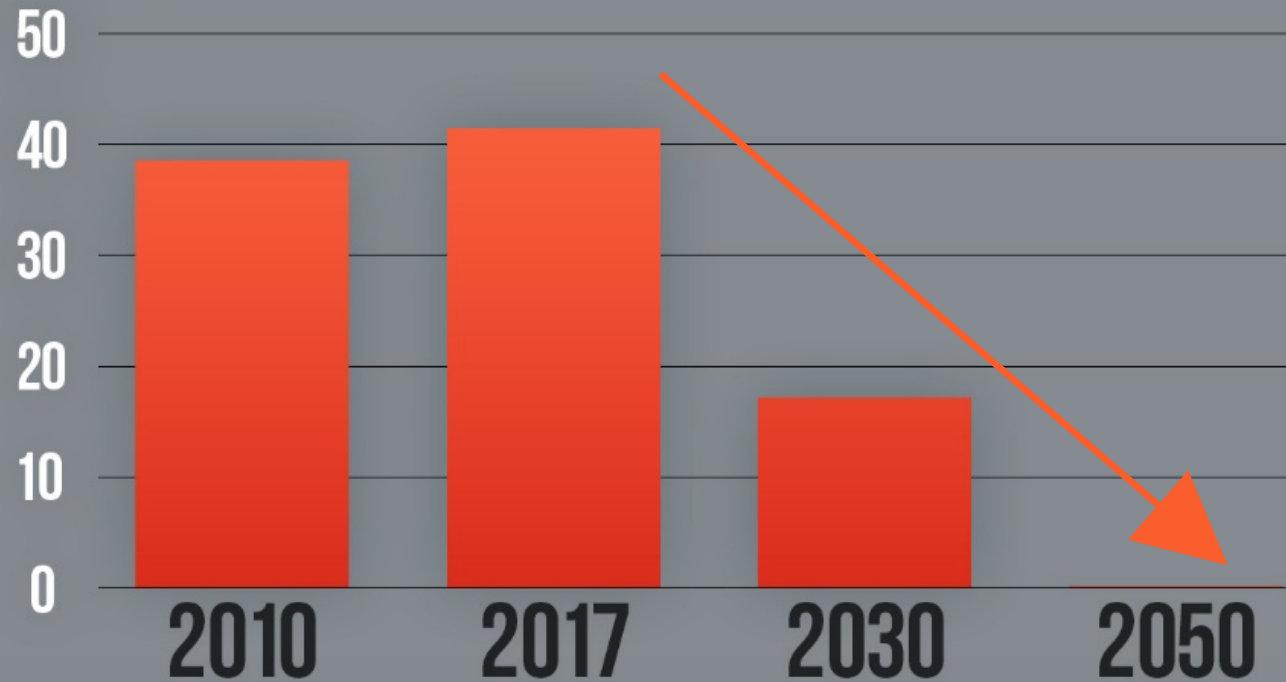
# Risks to business




# BIG CHANGES NEEDED

Limiting Global Warming to 1.5°C Will Require Deep Emissions Cuts

(GtCO<sub>2</sub> per year)



1.5°C is equal to 2.7°F  
Source: IPCC Global Warming of 1.5°C Report

CLIMATE  CENTRAL

We are already seeing the consequences of 1°C of global warming – 1.5°C is significantly more safe than 2°C  
*IPCC Special Report on Global Warming of 1.5°C*



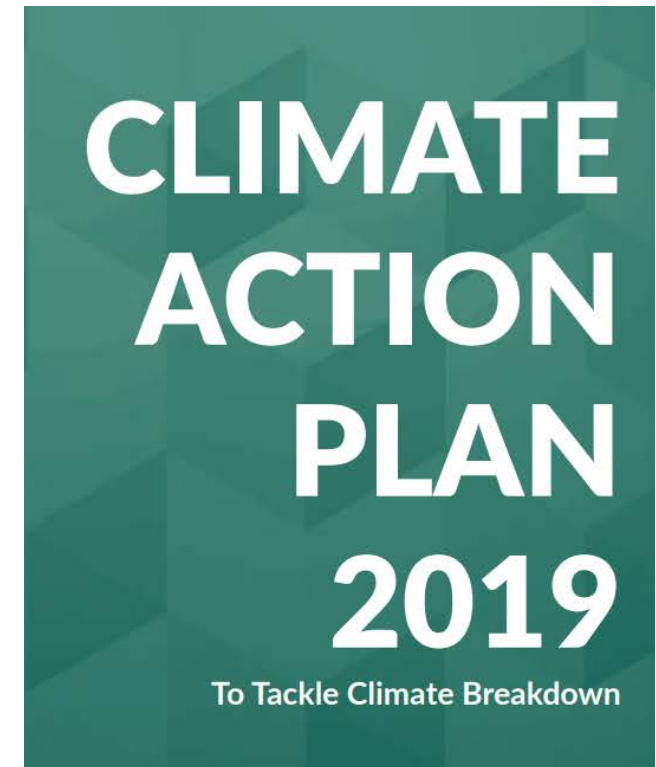
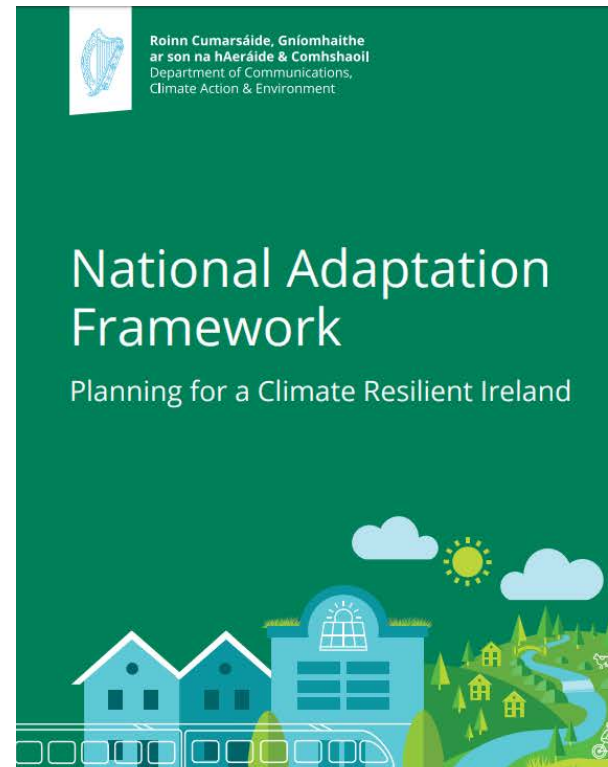
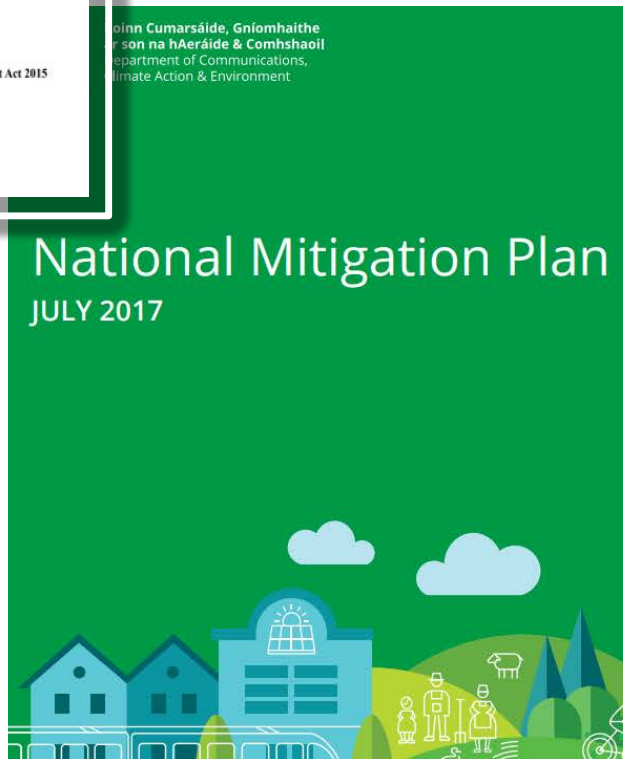
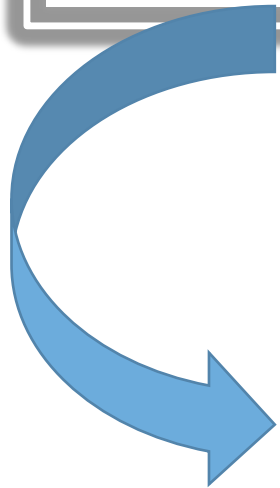
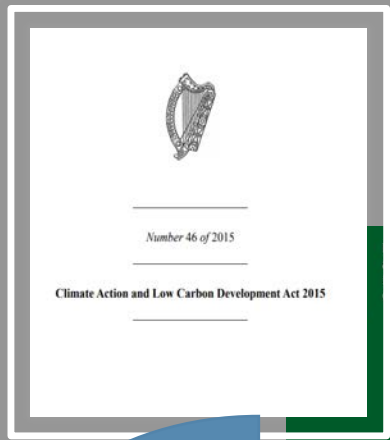
# Policy context



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# Policy





# Climate Action Plan



‘Local Community Development Committees will also be used to step-up how we mobilise and support urban and rural communities to reduce carbon emissions. In particular, they will have a key role in stepping up activities by assisting in scaling up from an individual project based approach to more coordinated and structured approach locally’

Climate Action Plan page 137



# Climate Action Charter for Local Authorities



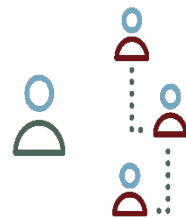
Climate proof all decisions  
e.g. transport, infrastructure,  
planning, regulation



Green Procurement



Enable citizen engagement  
Young people



Source funding  
Training and capacity building



Partner with community  
groups, schools, local  
enterprise



# SUSTAINABLE DEVELOPMENT GOALS

**1** NO POVERTY



**2** ZERO HUNGER



**3** GOOD HEALTH AND WELL-BEING



**4** QUALITY EDUCATION



**5** GENDER EQUALITY



**6** CLEAN WATER AND SANITATION



**7** AFFORDABLE AND CLEAN ENERGY



**8** DECENT WORK AND ECONOMIC GROWTH



**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**10** REDUCED INEQUALITIES



**11** SUSTAINABLE CITIES AND COMMUNITIES



**12** RESPONSIBLE CONSUMPTION AND PRODUCTION



**13** CLIMATE ACTION



**14** LIFE BELOW WATER



**15** LIFE ON LAND



**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



**17** PARTNERSHIPS FOR THE GOALS





# Where are we in the rankings?



Economic – 11<sup>th</sup>



Environmental – 13<sup>th</sup>



Social – 10<sup>th</sup>

OVERALL SCORE 11<sup>th</sup>

# Ireland's National Implementation Plan for the SDGs

Emphasises role of LCDCs in integrating the SDGs into local plans



Renewable energy projects in community spaces



Deep retrofit of community spaces, active lifestyles, public transport



Local Authority Climate Change Adaptation Strategies



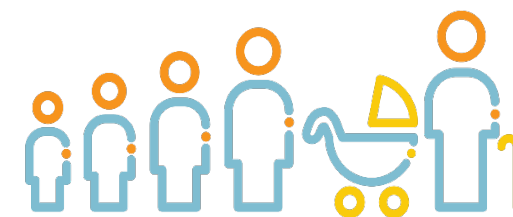
Habitat restoration (rewet bogs), nature based solutions (floodplains and coastal management)



# Case studies – what good looks like



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# Samsø, Denmark – carbon neutral island

- Started in 1998 – population of 4,000 people
- District heating, wind turbines (off shore and on shore), biomass boilers.
- Rise in eco-visitors → creation of local jobs.
- Fossil fuel free by 2030
- Gas fuelled ferry to be replaced with wind charged batteries & island generated biofuel

Why it works? Community buy in – shared ownership

*‘If you can see the turbine from your window, you could sign on as a co-investor’*



“We are national policy in practice”

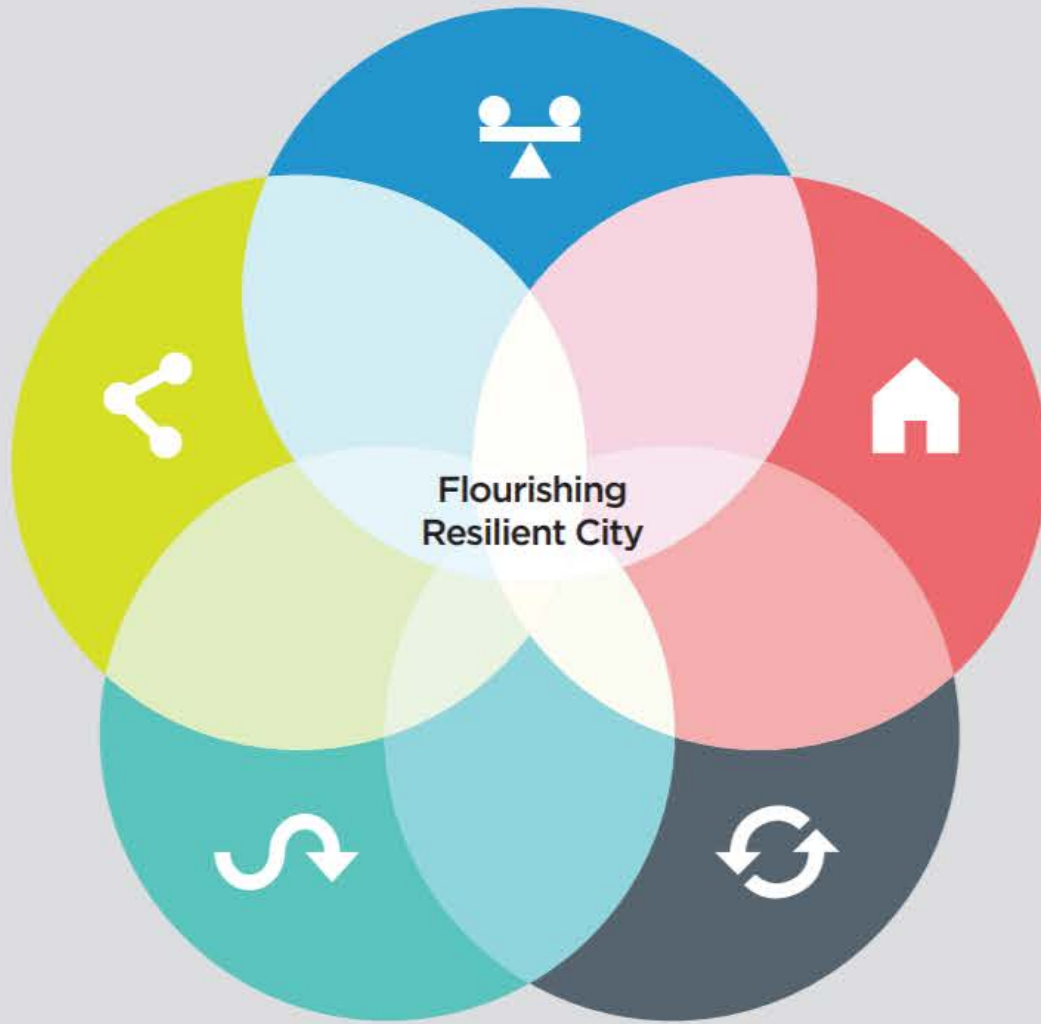


# Resilient cities – Br

Stephen Hilton, Bristol Futures, *'A resilient city is a place where we all care for each other and **nobody falls through the gaps**'*

Mayor of Bristol – *'resilience has to run through our approach to health, education, **business & infrastructure** – as well as environmental and social justice'*

**It's all about people & unexpected things like equality, diversity, connected communities, enterprise and innovation ....much more than infrastructure**



### **Fair**

Every person living in Bristol has the assets and opportunities to enjoy a good quality of life.



### **Liveable**

The city centre and neighbourhoods are great places for people of all ages to live, work, learn and play.



### **Sustainable**

The city and region prosper within environmental limits through adopting new behaviours and technology.



### **Agile**

Bristol citizens and leaders make effective decisions based on shared priorities and real-time information.



### **Connected**

A strong network of local communities and organisations promotes trust, cooperation and shared action across the city.



# Dingle Project

Aim: Future-proof the electricity network for the benefit of homes, farms and businesses in Dingle

- Electrify heat and transport
- 5 Ambassadors
- Experiencing the future
- Dingle Sustainable Energy Community
- Projects: smart agriculture, sustainable transport, rural regeneration and bioenergy, eco-tourism



# Dingle sustainable transport project

**Partners:** Dingle Hub, Kerry County Council, North, East and West Kerry Development (NEWKD), Local Link Kerry (LLK), National Transport Authority, Gas Networks Ireland, ESB networks, MaREI

Public transport	Electric Vehicles
Electric or biofuel	Charging and parking for EVs on the Peninsula
Online booking	1 million tourists per year
Bus shelters	Pilot study
Testing from 2020	Grid upgrade



# Aran Islands



**Fuinneamh  
Oileáin Árann  
Aran Islands Energy**

## **Co-op Recycling Project**

- Eliminated three landfill sites
- Created a community-run kerbside recycling system for dry packaging and compost
- Local reuse of waste glass, timber and construction materials

## **Aran Islands Energy Cooperative**

- Aim: energy independent by 2022
- Test new technologies - energy conservation, renewable energy production, smart grids & transport
- Retrofit houses
- Local wind energy? Hydrogen?
- SEAFUEL: EU project investigating the use of Hydrogen generated using desalinated water as a transport fuel in island communities.



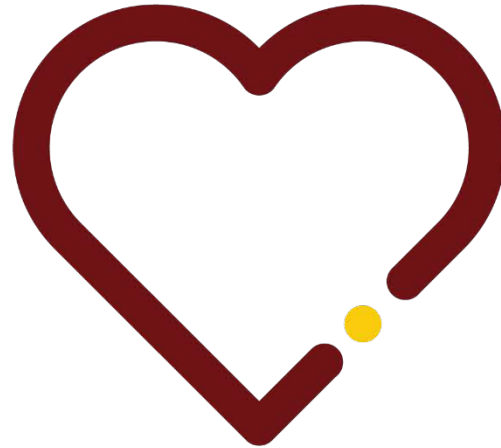
# Visioning exercise



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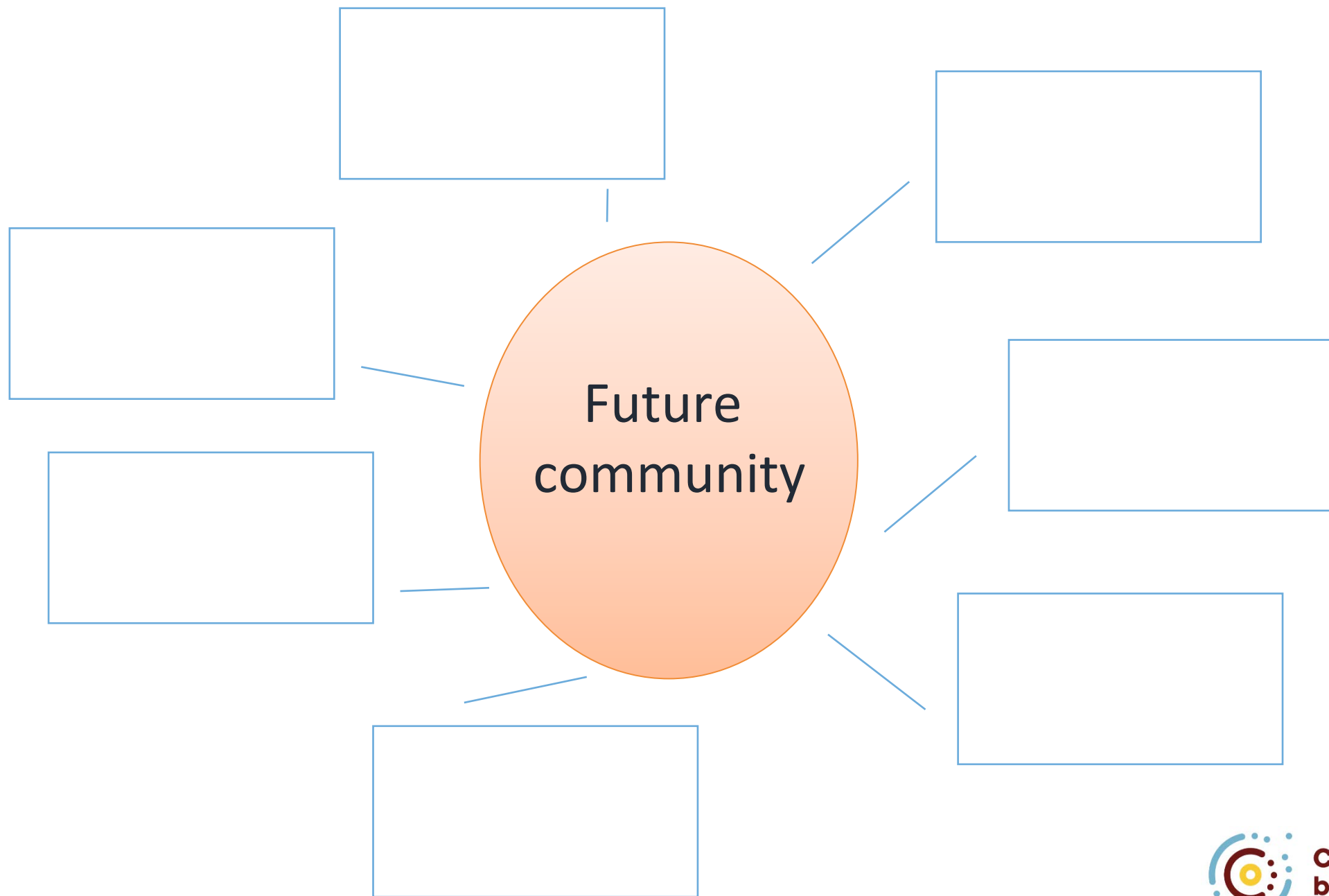
# Your ideal rural or urban community

- People
- Health
- Education
- Transport
- Sense of community
- Public services



- Jobs
- Safety
- Communications
- Free time
- Leadership
- Equality





# Planning and leading local action on climate



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## Capacity

Knowledge & information



## Motivation

Values & inspiration



## Behavioural Change



## Opportunity

Infrastructure & leadership



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# Collaborative leadership

Seek out a diversity of opinions and ideas

Co-create strategies and solve problems

Partners are engaged and have ownership

Common  
purpose

Open  
communication

Partnership  
skills

Good is good  
enough

Ask for help



# Find the right partners

## Food Waste

- Food Cloud
- Stop Food Waste
- Regional Waste Authorities
- Retailers
- Hospitality

## Repair

- Men's Shed
- Repair Cafes
- Revamp furniture recycling (Kerry)
- Tradespeople

## Retrofit

- SEAI
- Tipperary Energy Agency
- Credit Unions
- Specialist contractors








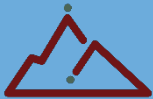










**Taking action to  
achieve your vision**



<div>Energy</div> <div></div>	<div>Transport</div> <div></div>	<div>Buildings and planning</div> <div></div>	<div>Agriculture, land &amp; nature</div> <div></div>	<div>Waste and consumption</div> <div></div>	<div>Citizen engagement and just transition</div> <div></div>

# 3 actions you can take

- **This week**
- **Before Christmas**
- **Q1 2020**



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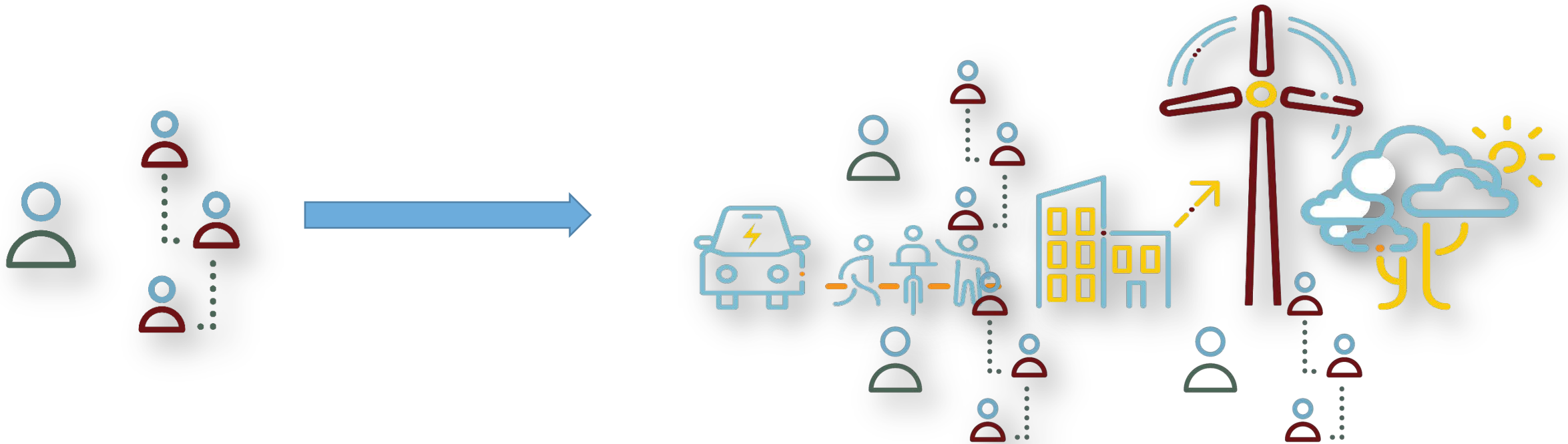


# The future



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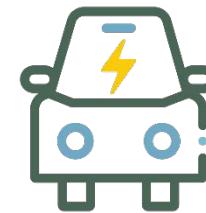
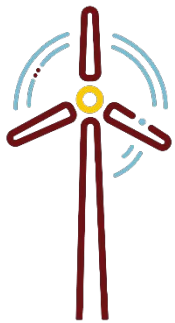
# Community action powers systemic change



# What you do matters







# People are allergic to change, you have to get out there and sell the idea

Grace Hopper, Navy Admiral & Computer Scientist, born NYC 1906







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**Thank you**

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