

# Green Infrastructure & Climate Change 2019

# Climate Action Mayo

**Peter Hynes**  
Chief Executive  
Mayo County Council



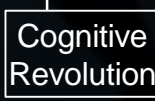
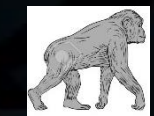
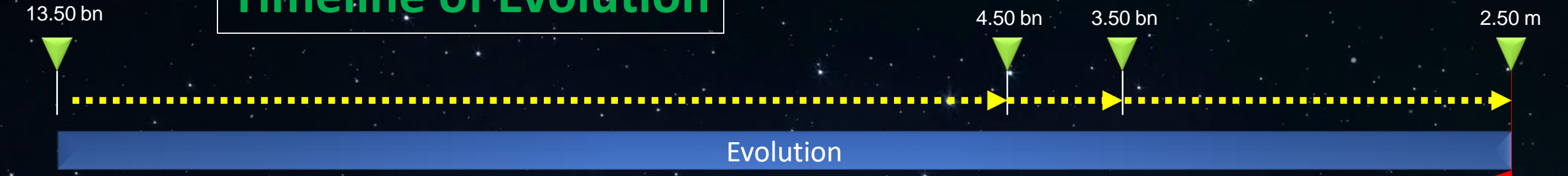


# INTRODUCTION

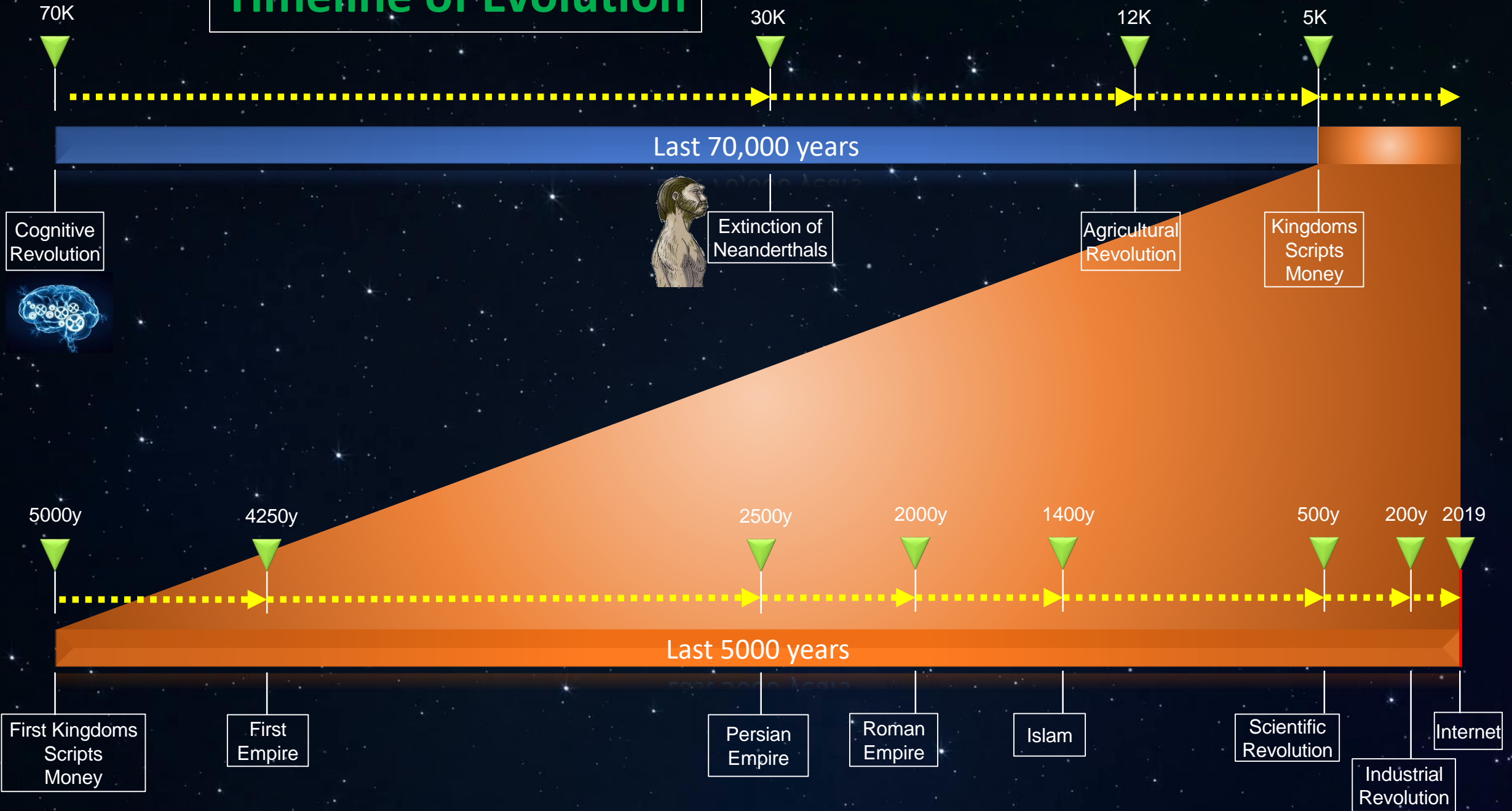


- **CONTEXT**
- **ROLE**
- **VISION**
- **JOURNEY**
- **FUTURE**

# Timeline of Evolution



# Timeline of Evolution





# CONTEXT



Mayo



# ARCHITECT

# PERSPECTIVE

W / E





# LOCAL GOVERNMENT

- PLACE
- PEOPLE





# VISION .... Mayo

- SUSTAINABLE
- INCLUSIVE
- PROSPEROUS
- PROUD





# CHALLENGES .... Global



- **CLIMATE CHANGE**
- **GLOBALISATION**
- **BREXIT**
- **TRUMP**

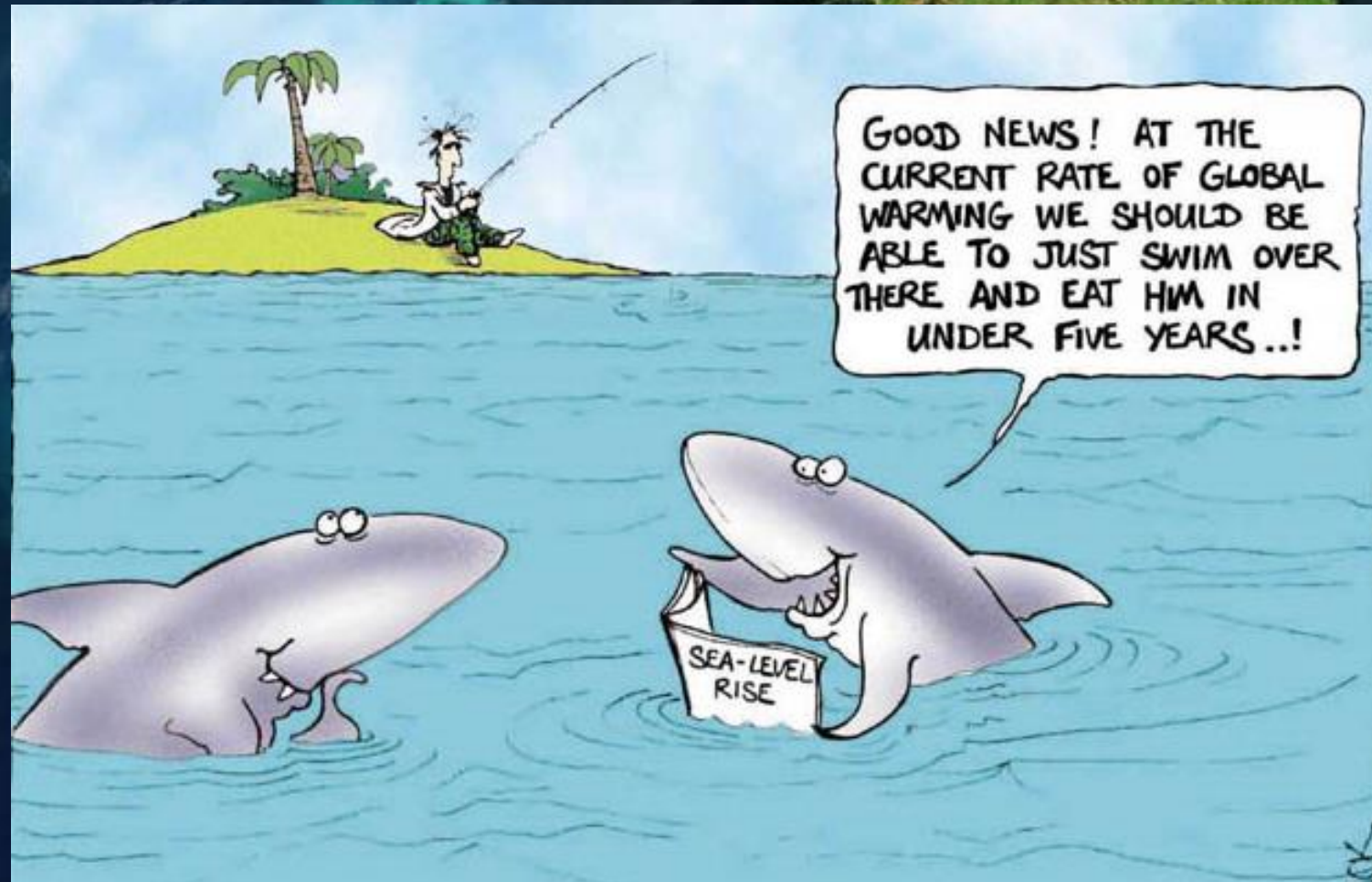


# CHALLENGES .... Global





# OPPORTUNITIES

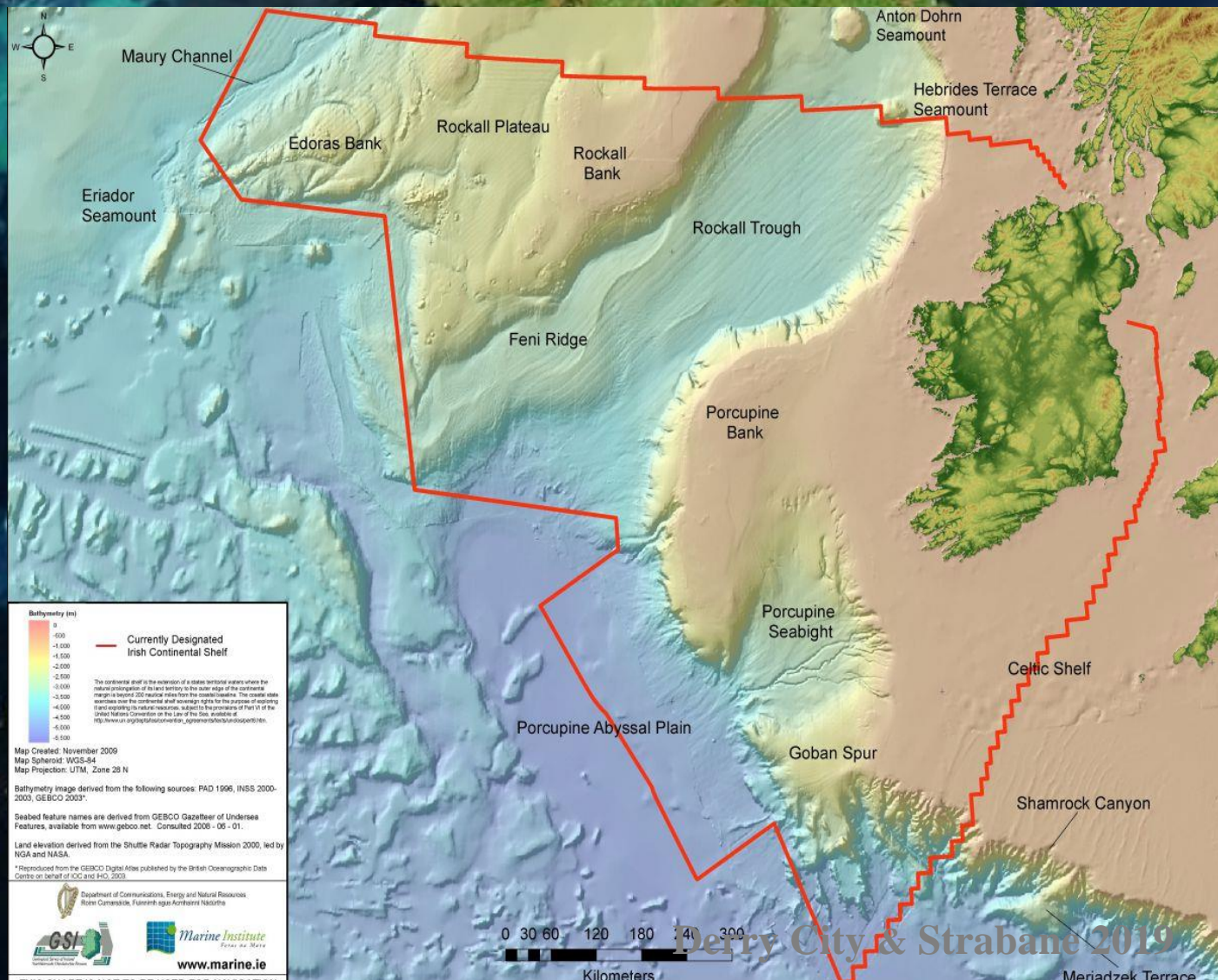




# PRIORITIES ..... Marine



*The Real Ireland*

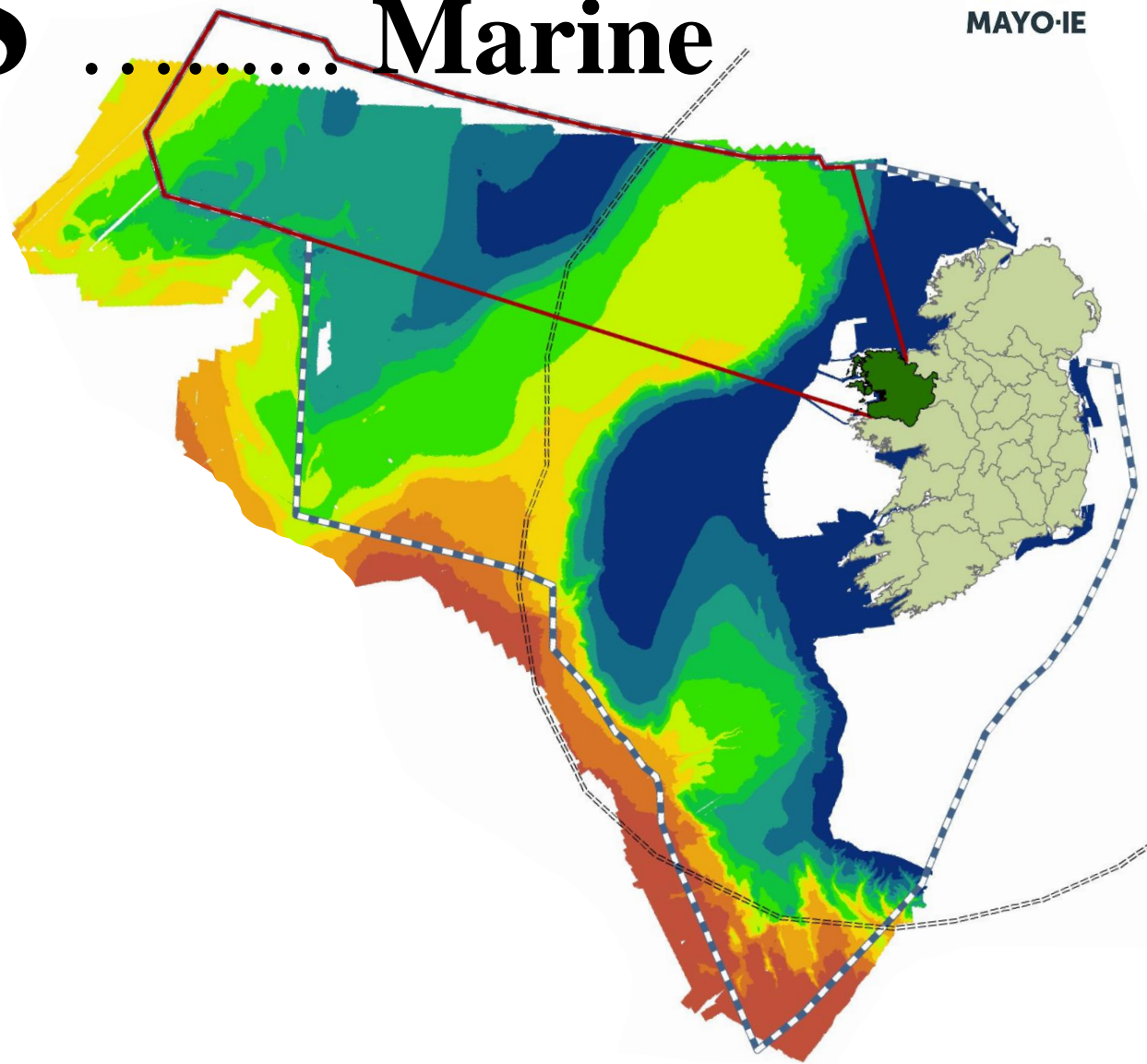




# PRIORITIES

..... **Marine**

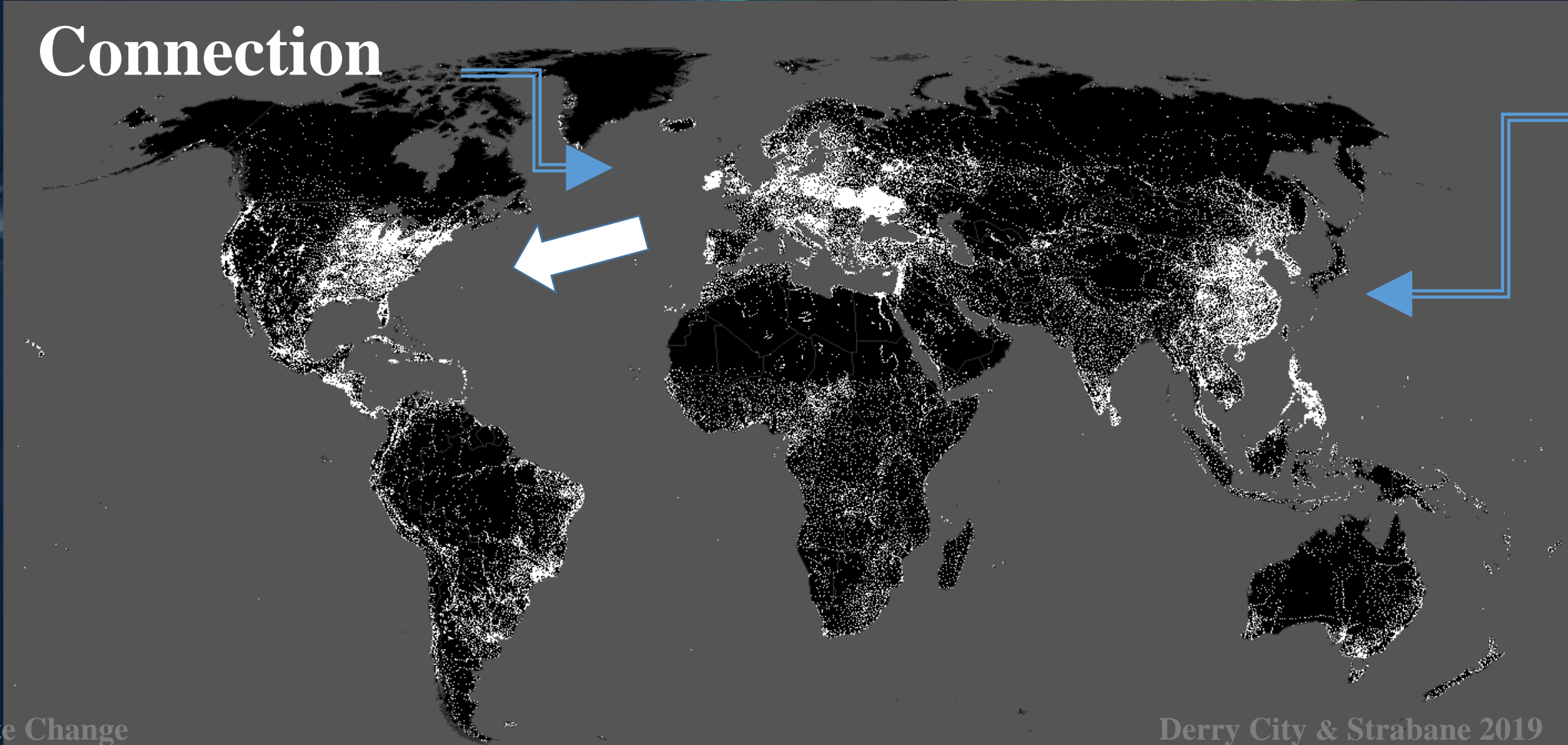
*The Real Mayo*



# PRIORITIES .... Global



## Connection





# PRIORITIES ..... National



- BALANCE
- TOWNS
- CONNECTION
  
- INVESTMENT



# PRIORITIES - People



## DIASPORA

Ireland ... 70,000,000  
Mayo ..... 3,500,000



# PRIORITIES - People



A central promotional graphic for Mayo-IE. It features a large, colorful, geometric 'M' logo at the top, followed by the text 'MAYO-IE' in a bold, dark blue font. Below this is the website address 'WWW.MAYO.IE'. At the bottom, there are three colored boxes: a green box with 'VISIT', a red box with 'CONNECT', and a dark blue box with 'INVEST'. Underneath these boxes are the phrases 'MANY PLACES', 'MANY PEOPLE', and 'MANY PARTS' respectively. The graphic is flanked by two vertical strips of colorful geometric shapes, each containing a small photograph: a landscape, a group of people, a person working, a factory, a building, and a ship.

# PRIORITIES - Tourism



MAYO-IE

Heartbeat of The Wild Atlantic Way



# PRIORITIES - Tourism



WESTPORT

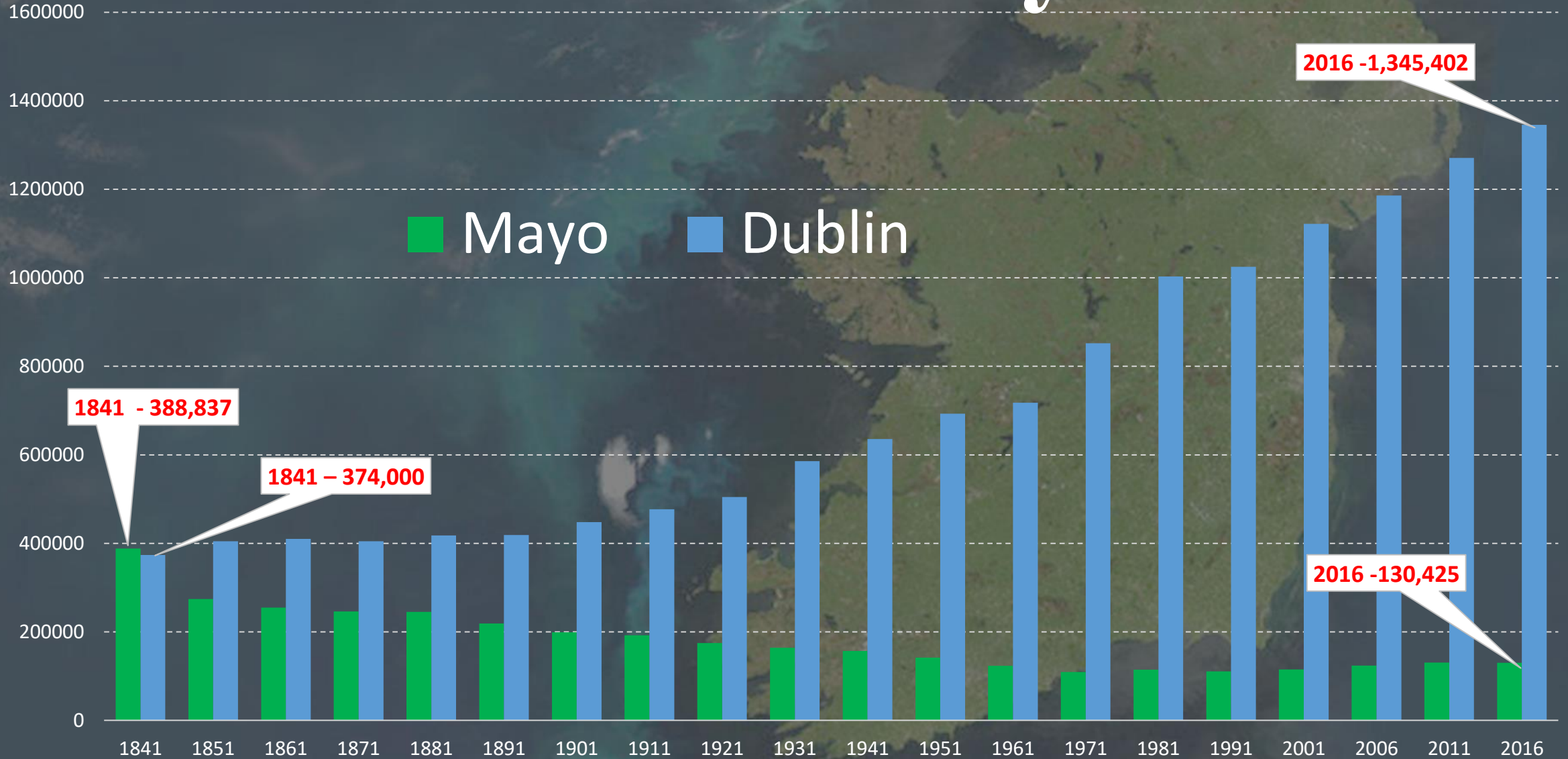


# Greenway





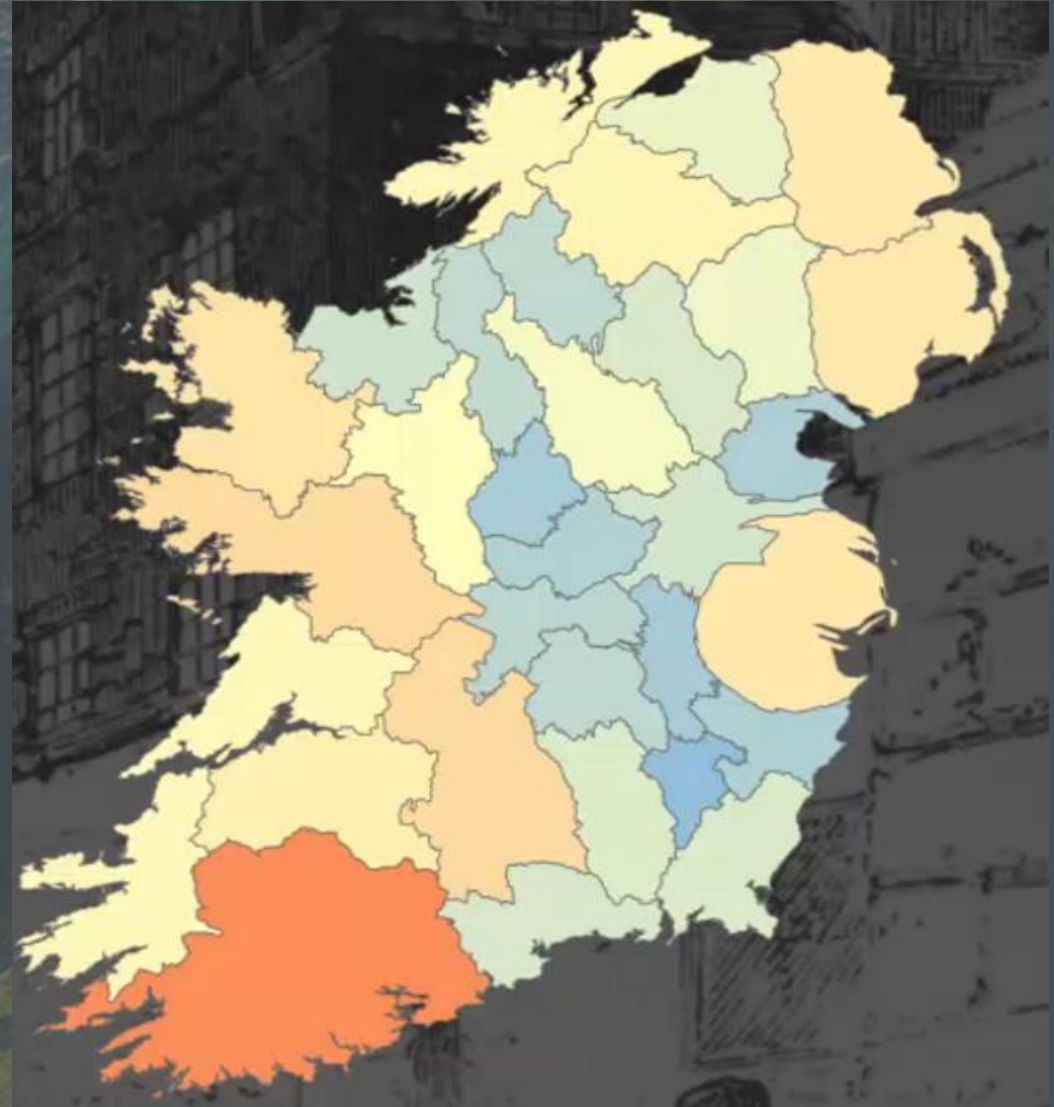
# BALANCE ... Mayo





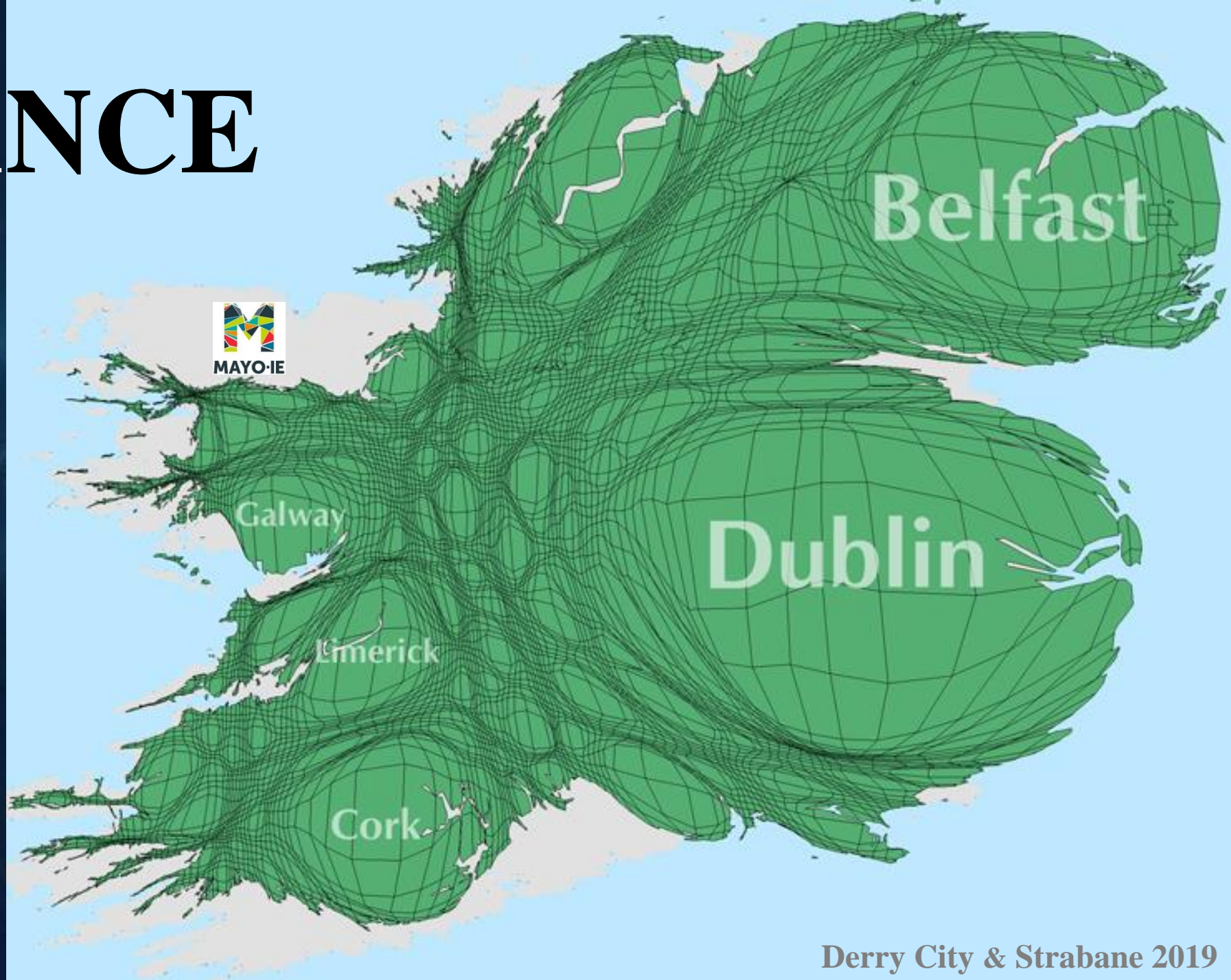
# BALANCE

1841



# BALANCE

# 2011





# IRELAND 2040

## Atlantic Economic Corridor



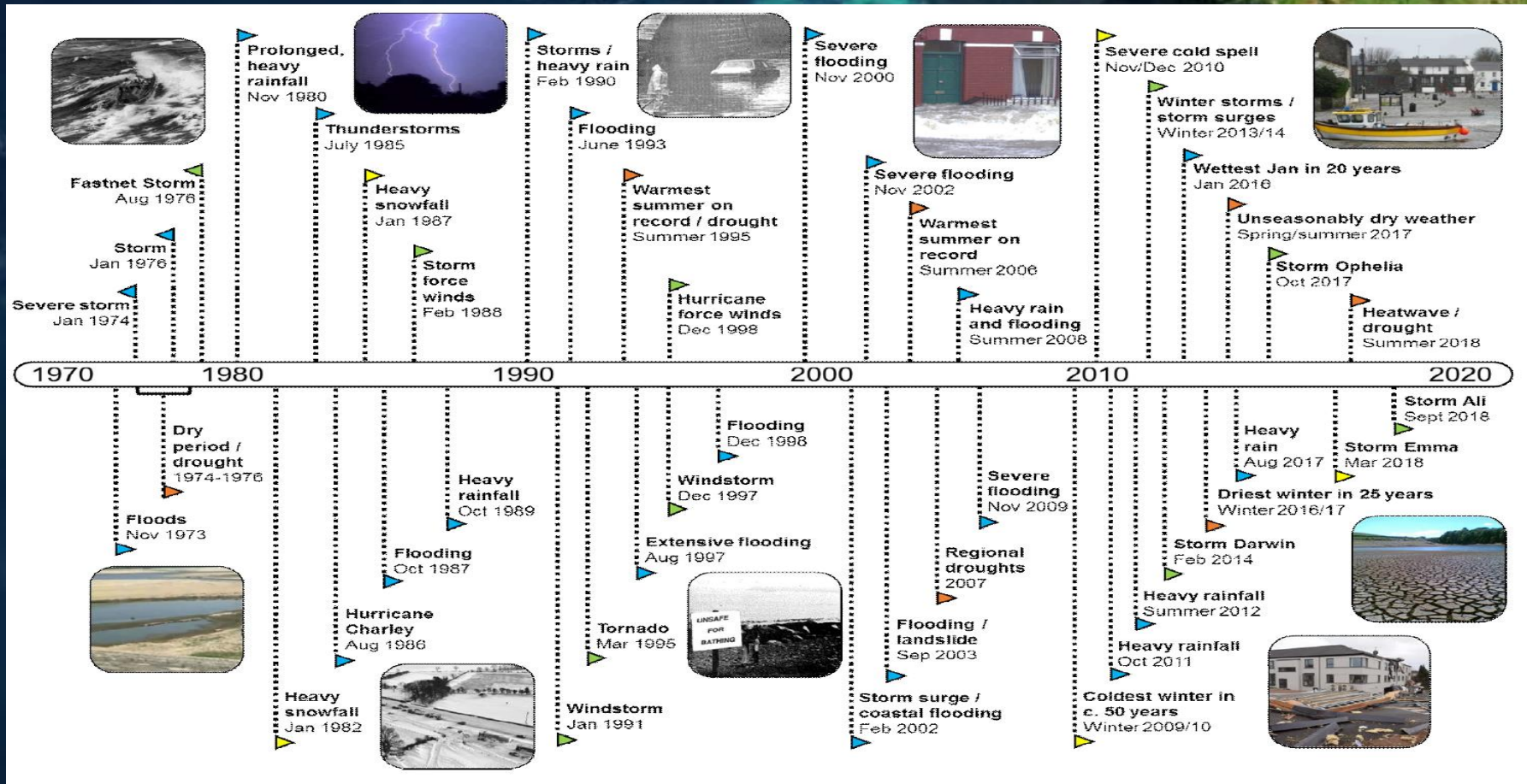
# CLIMATE JOURNEY



- WEATHER EVENTS
- ENERGY
- ASPIRATION



# WEATHER





# Pollathomas Landslides

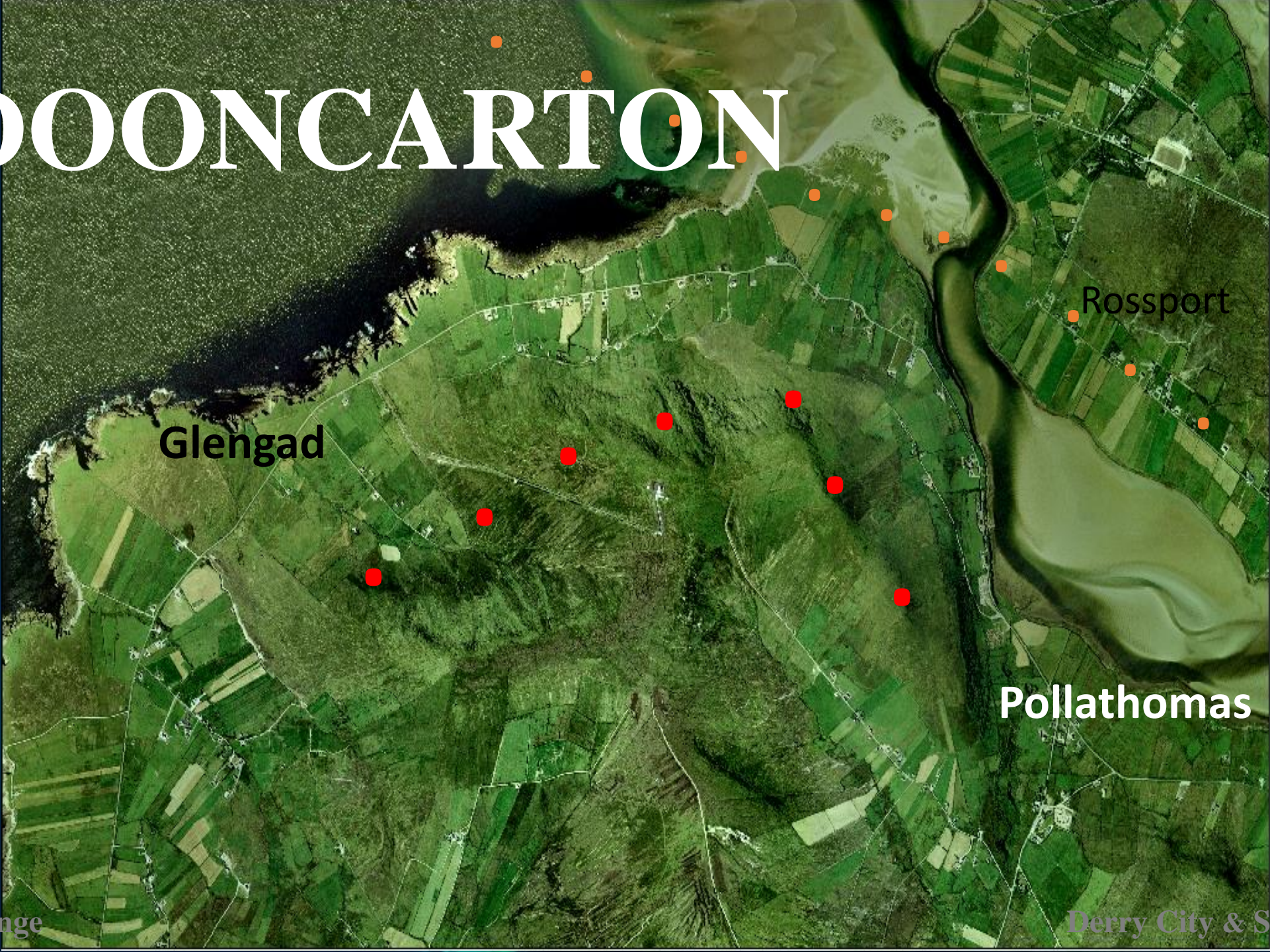


**INVER  
GLENGAD  
POLLATHOMAS  
CARNHILL**

**NIGHT SEPTEMBER 19<sup>th</sup> 2003**



# DOONCARTON



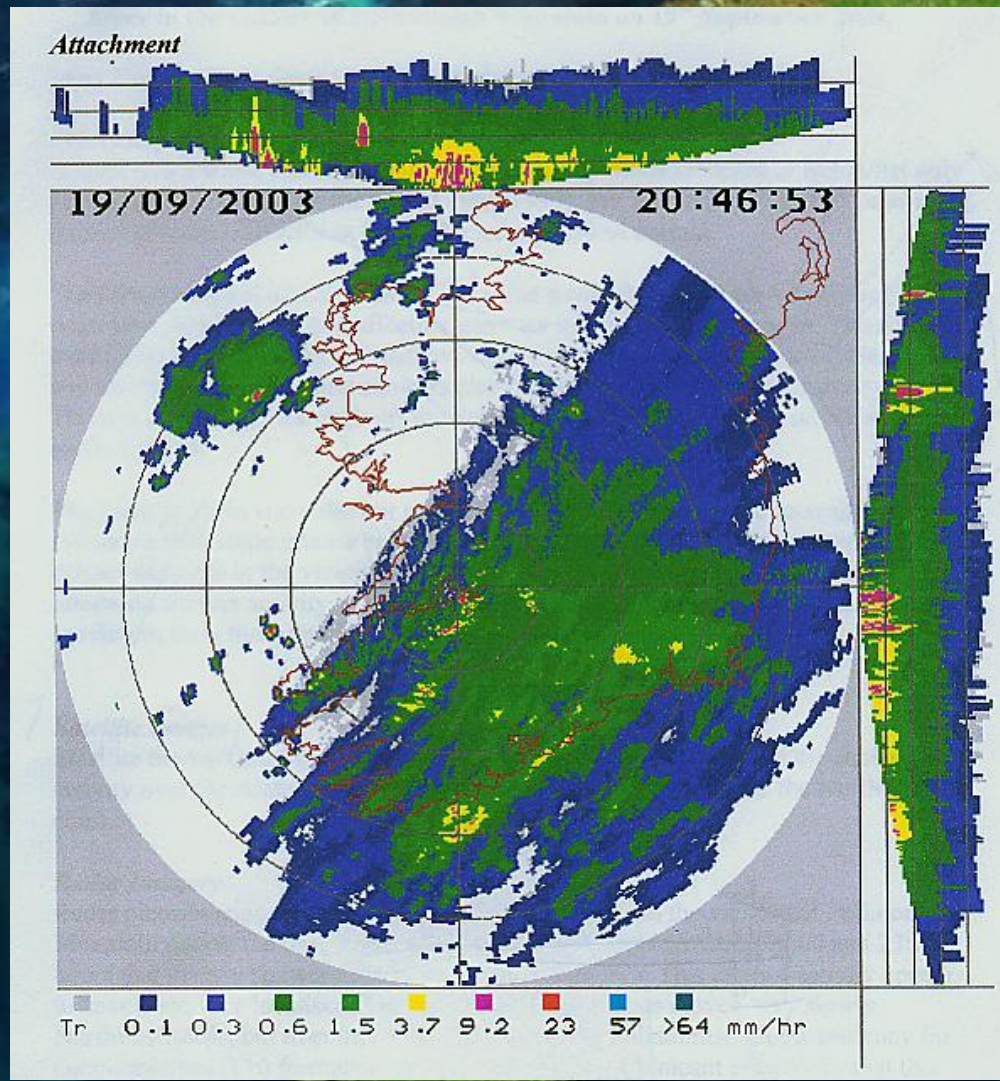
Glengad

Rosspport

Pollathomas



# DOONCARTON





# DOONCARTON







Climate Change

Derry City & Strabane 2019



# DAMAGE





# DAMAGE





# RESPONSE







# RESPONSE





# MEDIA

Climate Change

# Open Agenda

with Tom Shiel [tshiel@con-telegraph.ie](mailto:tshiel@con-telegraph.ie)

MORE THAN TWENTY LAND SLIPPAGES IN ALL AFTER A DOWNPOUR WHICH BEGAN WITH SNOW AND HAIL

## Light the mountain fell

THERE have been calls on the Government for the setting up of a Special Financial Fund for the Glengad/Inver/Pollathomas area in the wake of the devastating landslides on Friday night. An estimated package of several million euro is required to help repair the damage caused. No human lives were lost but the damage to infrastructure and property was tremendous. New river valleys were sculpted and bridges washed away. Isolated householders had to protect their homes as water inundated their property. Countless sheep were lost in the deluge.

The Parish Priest of Aughoo, Fr. Seán MacCormack reckons there were twenty land slippages in all triggered by a downpour lasting 30 minutes which began, bizarrely for September, with snow and hailstones. He explained: "The crown of two hills broke... water and mud surged down the hill in four directions. Thanks be to God nobody was killed or injured." Both the old and the new graveyards in Pollathomas resembled TV earthquake scenes over the weekend in the wake of the devastating landslides. An estimated four graves were stripped clean of remains. As one local put it: "The dead look as powdered as well as the living."

All weekend, people with relatives interred at Pollathomas have struggled over the damaged bridge past grinding mechanical diggers through the mud to inspect the cemeteries, praying that the resting place of their loved ones had not been disturbed.

**ON FOOT**

David Coyle and his sister, Tracy, came on foot from Glengad because the road was impassable to vehicles. They found that their grandfather, Jack Coyle, was interred although the plot on either side looked as if a car had disturbed them. Jack was one of the first to be buried in the new graveyard. David said: "It was complete after other folk that his grave was left untouched."

Mary Ruddy from Mullingrove inspected the graveyard on Saturday with members of her family fearful of what she would find there. "I found my parents' grave," she explained.

"It is covered in mud but the headstones are okay. Thanky, John Walsh from Mullingrove checked this head as he looked from the graveyard at the newly disturbed slopes of the mountain. "It was a bad place to build a



Pollathomas Graveyard which was destroyed by a landslide after torrential rain. Photo: Keith Heneghan / PHOCUS

**LANDSLIDE STRUCK AS COUPLE DROVE HOME FROM PUB QUIZ**

**"Car was caught like a toy in a bathtub"**

MEMBERS of an extended family had a lucky escape from drowning when their cars were trapped in a torrent of mud and water.

Tenagers Siobhan McGrath and Anthony McGuire were driving home from a pub quiz when the wall of water and mud struck.

"We thought we were going to die," an emotional Siobhan related afterwards. "We sat in the car hugging each other. We thought the water would never see each other again."

Siobhan's mother, Teresa, and her partner, Patrick Flannery, were in a car behind the young couple when the torrent struck. "Their car was like a toy in a bathtub," Teresa McGrath commented. "Their car kept turning and turning in the sea. We thought it would go into the sea."

Patrick Flannery abandoned the car to help the youngsters and all four made their way on foot to safety. Teresa McGrath said they could barely see through the windows. "The ground was the force of the hailstones and rain," she explained. "The graveyard wall collapsed. Siobhan and I were in the car ahead of us. They got caught in the sea. They got tangled in the turning in the sea. We thought they would never get out of the sea. Their car was like a toy in a bathtub."

McGrath said the young couple were saved because something caught their car preventing it falling into the sea. "The scene was frightening. We were facing by us as well as trees and boulders."

"We got out of the car because Siobhan's mother, Teresa, and her partner, Patrick Flannery, were in a car behind the young couple when the torrent struck. "Their car was like a toy in a bathtub," Teresa McGrath commented. "Their car kept turning and turning in the sea. We thought it would go into the sea."

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Locals press a car buried by the landslide in Pollathomas after torrential rain on Saturday evening. Photo: Keith Heneghan / PHOCUS

**Landslides ripped through graveyard**

FROM the window of his upstairs study at Pollathomas, Fr. Sean Noone had a grandstand view of the unfolding drama. He explained: "It was half nine... there was a torrential rain... It was coming down in bucketsful... I saw this car with its hazard lights flashing over by the graveyard."

Fr. Noone, who has written a book, "Where the Sun Sets" a history of the parish of Ballycroy, Belmont, Kilmommon and Killybeggs, said the downpour lasted from about half nine until half past twelve.

Council workers told Fr. Noone the bridge at Pollathomas had gone as had the bridge at Inver. Landslides ripped through Inver and the graveyard. In the former, remains were taken from a number of graves into Grahwacaddon, which is also known as Longshan Bar.

"The people of the area are very distressed when they visit the graveyards," Fr. Noone explained. "Thank God for the sunshine early Saturday," he continued. "I saw people in the graveyard who have been buried since the last rain in recent years."

Deputy Jerry Crowley has called on the Government to set up a Special Financial Fund for those affected.

Dr. Crowley, who visited the scene at the weekend, said he had been absolutely astounded by the scale of the natural disaster.

He stated: "Having visited the area and seen first hand the terrible damage done it is a miracle that no lives were lost." "The vast of tractors tossed down over hills, massive deep gorges ploughed over by water torrents and long strips of mountainside at sea level, cracked buildings and upturned burial grounds, together with blocked roads and bridges and a shocked population is more keeping with a horror movie than a rural Irish landscape."

Councillor Frank Lenaghan, who also visited the area, paid tribute to the work of the emergency services and Mayo County Council in the wake of the disaster.

The local authority had acted extremely quickly in opening the vital coastal route from Pollathomas to Glengad.



Adrian Connor, Peggy Connor, Paddy McGrath, Evelyn Murphy, and Bridie McGrath start the clean up on the road outside McGrath's Pub in Pollathomas. Photo: Keith Heneghan / PHOCUS

**Village devastated by Famine was badly affected**

Bannacullin (Top of the Wood) was one of the villages worst affected by the famine. It is reached by a road which winds around by the back of the graveyard. The road was made impossible in several places by the mudslides. A woman in her nineties, Margaret Lannon, was one of those rescued from her home. One of her neighbours, Martin Moran was also taken out to a hospital.

Martin, who initially refused to leave, was spoken to by local Supt Tony McInerney and other rescuers early on Saturday morning.

Explained the Supt: "Martin told me he had never heard anything like the rain which fell late on Friday night. He described it as 'like bullets hitting the roof'."

He said the rain was so heavy that it was impossible to see anything.

Fr. Noone's excellent work of history, "Where the Sun Sets", explains that Bannacullin has an acreage of 243 acres. In the period 1841 to 1851, as Famine raged, the population of the village fell from 108 to a mere 7.

By 1855 there was no house inhabited in the hamlet.

But by 1911, the population had recovered to 48.

Paddy McGrath's well known public house is situated in this hamlet.

Fr. Noone recalls that a tailor called Martin Lannon, who he met in the graveyard, had been rescued from the village by the Garda Síochána on the night of the landslide.

**Derry City & Strabane 2019**



May Sweeney, age 10 tries to get past Pollathomas Graveyard. Photo: Keith Heneghan / PHOCUS

A girl gets carried through the mud at Pollathomas Graveyard. Photo: Keith Heneghan / PHOCUS



# MEDIA

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## PP SAYS TAOISEACH SHOULD HAVE VISITED Radar, gas links in Mayo landslides is rejected

BY TOM SHIEL

POSSIBLE links were raised yesterday (Tuesday) between a radar installation and preparatory works for the Corrib Gas pipeline with the massive series of landslides in Erris.

But Mr. Peter Hynes, Director of Services with Mayo County Council described claims by Maura Harrington, one of the principal objectors to the Corrib Gas Terminal at Bellanaboy Bridge, as "absolute speculation".

Mr. Hynes said all the evidence was that the landslides were caused by the long dry summer which caused cracks in the mountain peat and allowed a vast amount of water from a cloudburst through to the bedrock beneath.

"Frankly there is enough concern out there without people making groundless allegations and adding to what is already a serious situation", Mr. Hynes told listeners to the Marian Finucane Show on RTE Radio.

Ms. Harrington, who was also a guest on the Marian Finucane 'special', broadcast live from the affected area, claimed the radar mast, which was completed in 1997 as a beacon for transatlantic aircraft, had been built on a geological fault. This had been shown in a geological survey.

Ms. Harrington also claimed that along the Pollathomas to Glengad road, which had been badly affected by landslides



Mr. Peter Hynes

authority who would respond in due course. He denied there had been any extensive blasting in the area. Ms. Harrington said that if the Corrib Gas pipeline had been installed where the County Council had wanted it to go and

gas was being brought in under wellhead pressure the community would have been annihilated.

The Parish Priest of Aughooose, Fr. Deaglán MacConghamhna spoke on

the Show and said the landslides were the greatest natural disaster the country had ever seen yet the Taoiseach, Mr. Ahern had not visited the area to "smile upon us as he did in Dublin".

### Andy's personal triumph

FORMER publican Andy Chapman has overcome huge personal adversity to lead his beloved Swinford F.C. to soccer glory.

Andy was confined to a wheelchair due of injuries sustained in a traffic accident a number of months ago.

He displayed outstanding character by staying on as manager of the club and leading them to the Mayo League Division One title at Charlestown on Sunday. Full report in our soccer pages.



## Entertainer's 'legacy' to hospital and cancer care agencies



Mrs. Maura Cuffe, centre, wife of the late Mick Cuffe, opening the room dedicated to Mick at Mayo General Hospital, Castlebar along with his parents Margaret and Tom Cuffe. Photo: Frank Dolan. Inset is the late Mick Cuffe

BY TOM SHIEL

ONE OF the best humoured cancer patients ever to be treated at Mayo General Hospital has given something back for the care he received there. Sales of a tape made by the late entertainer Mick Cuffe, who died last year from throat cancer in the hospital's B-Block, realised in the region of €27,000.

About half of the money has been used in various ways for the benefit of the hospital whilst the rest was distributed between such groups as the Irish Cancer Society; Mayo/Roscommon Hospice; Mayo Cancer Support Association and St. Luke's Hospital. Some €8,000 was spent on the purchase of a special high-tech bed for B-Block patients and a further €4,000 was devoted to the provision of a special clinic

area, the "Mick Cuffe Room" where patients and their families can have rest and privacy in a homely environment. A further €1,000 went to the purchase of Medical Books which are displayed in the hospital's Day Service Unit where Mick Cuffe underwent tests during his illness. Members of Mick Cuffe's family including his widow, Maura, attended a ceremony on Monday evening when the "Mick Cuffe

Maura explained that she was very happy and her face showed it. She said: "It is Mick's legacy and I am very proud of him. The money has been well spent. I know it would have pleased him". She told the hospital staff: "Mick had a huge respect and appreciation for all the staff. It is nice today to be in a position to give something back to the hospital and staff about the money he left for FREE promotion. Right results

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# RESPONSE





# VISIT





# VISIT





# VISIT





# VISIT





# RESTORATION



**BRIDGES**



# RISK





# RISK





# RISK



MAYO-IE



**NOTES**

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MAIN HEAD

Rev.	Date	Description	By

**Client:** MAYO COUNTY COUNCIL

**Project:** NORTH MAYO LANDSLIDE

**Title:** LAYO UT PLAN SHOWING PROPERTY ZONING AND REMEDIAL WORKS IN DOONCARTAN, GLENGAD, BARNACUILLE AND POLLATHOMAS

**Scale:** 1:5,000

Climate Change
Derry City & Strabane 2019



# KINETIC BARRIERS





# KINETIC BARRIERS





# RESTORATION





# RESTORATION





# LEENANE





# LEENANE



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## Bridgeless in Leenane County Mayo cut off



*Usually busy bridge was traffic-free at time of collapse*

The country's summer of rain, 2007, provided a spectacular incident in the Connemara village of Leenane last week when torrents of water and mud being washed downstream from the hills and mountains of the surrounding area carried a felled tree which then became jammed in the bridge's arch.

The huge pressure was too much for the bridge which, it is understood was built under the direction of Alexander Nimmo in the 1820's as part of the 1822 famine relief works at that time. After over one hundred and eighty years of service, one of the arches collapsed under the pressure and was swept away. Observers in Leenane at the time reported hearing a loud crack. Miraculously, there was neither pedestrians, cyclists or any vehicles on the bridge at the time, and no one was injured.

All that remains in the gap is the recently constructed wooden footbridge and some pipes. **Cont'd Back Page**

There was a large number of tourists in Leenane at the time of the collapse but, miraculously, the bad weather had discouraged them from wandering about.

It is believed locally that Nimmo's first bridge on the same location failed and required re-building with an additional eye.

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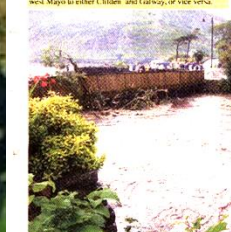
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## The bridge at Leenane

**Cont'd From Page 1**  
 The bridge was a vital link in the tourist trail linking Connemara to Westport, O'Connell Park, Clare Island and Clew Bay.  
 There have been many calls in the past, both from users of the public road and local officials, to Galway County Council and the National Roads Authority asking that the route N59, along with all its bridges, be upgraded as a matter of urgency. One local businessman commented that the roadway was a disaster and that tourists, "national as well as British" to driving on the bridge as it forces driving into ditches when constrained by hedges and coaches on narrow sections of road. If this bridge was in County Dublin or Wicklow, the army would have a Bailey bridge built as a temporary replacement the following day," he said. A temporary replacement bridge, offering one-way traffic, has been almost completed at the time of writing and will be open to traffic for the weekend.  
 Locals who speak five Gaeilge are hopeful that the authorities will be both prompt and sensitive in their response to the problem. "The prompt initial response to the collapse of the N59 by Galway County Council and the National Roads Authority is appreciated."  
 Galway County Council has said it will be "some time" before a replacement bridge is built as the remaining part of the structure is unsafe and will have to be removed. Bridge reconstruction is being carried out by the many people who use the bridge on a regular basis, travelling from south west Mayo to either Clifden and Galway, or vice versa.



Above and left, more images of the shrunken bridge on the N59 at Leenane, and right how it looked in quarter, dinner, time.

Photos by John S. Holmes.

"We hope that the eventual replacement bridge that will be in harmony with the architecture of the village and the surrounding landscape as it serves the traffic needs of the area over the generations to come.  
 It is a structure that will be familiar to tourists-givers around the world, having featured prominently in the 1990 film of John H. Keane's screenplay 'The Field'.  
 Locals and tourists now travelling between Westport and Clifden are now being forced to detour via Maam, Connemara, Clifden, Cong and Ballyvaughan.  
 Nimmo, who built the bridge, was a Scottish engineer, and came to Ireland in 1811 and remained here until his death in 1832. During his time here he worked for a number of government bodies on key projects throughout the country before assuming full responsibility for public works in what was known as the western district".  
 During his time in Ireland he conducted surveys for the bog commission in Kerry and Galway, he surveyed two miles of the coastline for the fishery board, he directed the construction of some 250 miles of road in the western district, and supervised the erection of more than 40 piers along the west coast.  
 Nimmo founded Roundstone village and designed the old pier along with many other piers still in use around the west coast today. One of his best known structures is Nimmo's Pier which provide protection to the Claklagh fishing fleet at the mouth of the Corrib river in Galway. Nimmo died in Dublin at the early age of 40.



The new & service boat from the Connemara Ferry helping people to cross the flooded Killary in the absence of the bridge. Photo John S. Holmes.

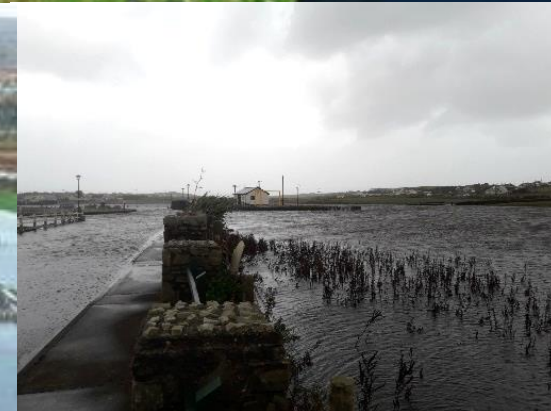


# TEMPEST





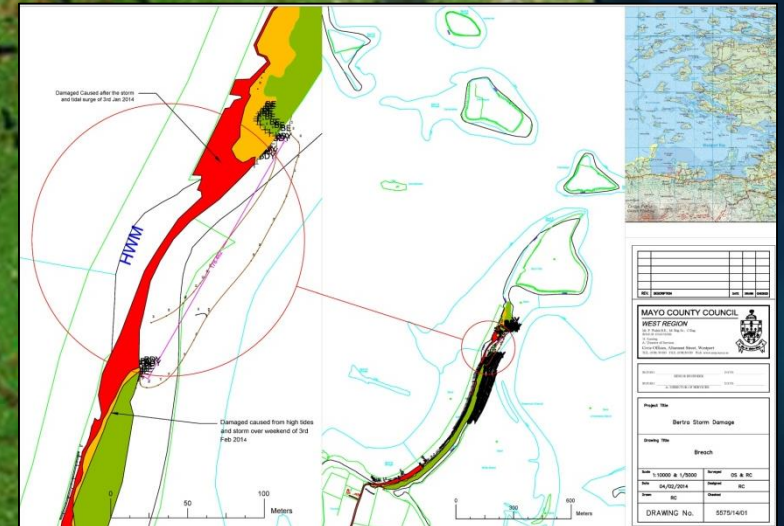
# FLOODING





# EROSION

## Bertra Beach 2014





# ENERGY

- WIND
- WAVE
- BIOMASS



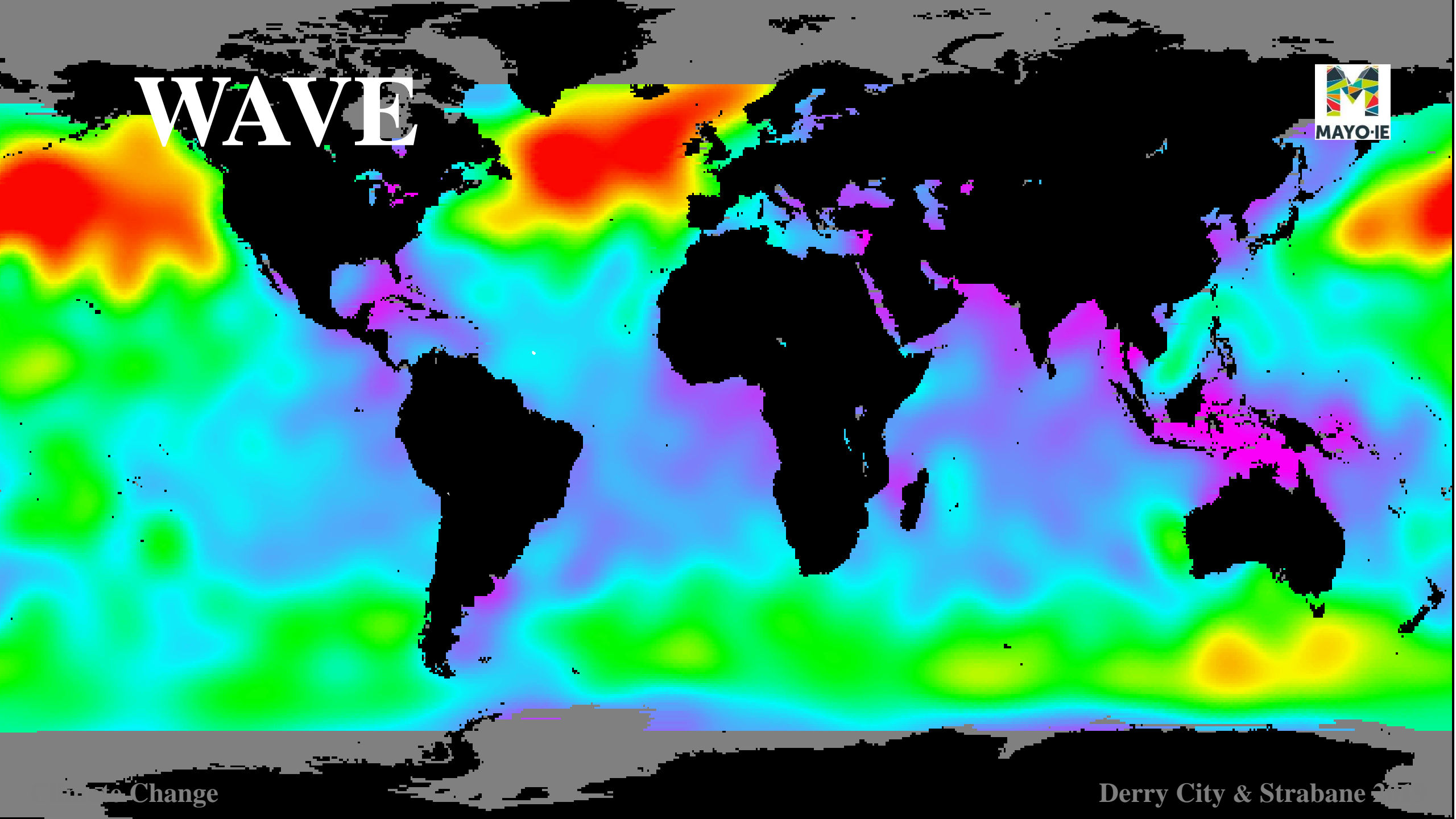


# ENERGY





# WAVE






# JOURNEY



**2016**



MAYO-IE

Environment, Climate  
Action and Agriculture  
Section



**2017**

**Climate Action Team**  
Climate Action Officer  
Energy Officer  
Flood Risk Manager



**2018**  
Adaptation  
Mitigation



**2018**  
Climate Action  
Regional Office



# VISION



- Coherence
- Co-ordination
- Effective Leadership



# APPROACH





# CONTEXT



## International and European Policies & Agreements

### United Nations Framework Convention on Climate Change – 1992

The UNFCCC is an international environmental treaty adopted on 9 May 1992. It entered into force on 21 March 1994 with the objective of “stabilizing greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system”

### Kyoto Protocol - 1997

The Protocol is based on the principle of common but differentiated responsibilities: it acknowledges that individual countries have different capabilities in combating climate change, owing to economic development, and ergo puts the obligation to reduce current emissions on developed countries on the basis that they are historically responsible for the current levels of greenhouse gases in the atmosphere by Ireland.

### EU Adaptation Strategy -2013

White Paper on adapting to climate change in 2009 which was followed by publication of a strategy on adaptation in April 2013. The EU Adaptation Strategy has an overall aim of contributing to a more climate resilient Europe.

### Paris Agreement - 2015

The Paris Agreement was adopted in 2015. The aims of the Agreement are to hold the increase in the global average temperature to well below 2°C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5°C above pre-industrial levels 195 Parties to the UNFCCC.

## National Policies & Agreements

### Climate Action and Low Carbon Development Act 2015

#### National Mitigation Plan (2017)

The first National Mitigation Plan (2017) represents an initial step to set us on a pathway to achieve the level of decarbonisation required.

#### National Adaptation Framework (2018)

In The NAF sets out the potential implications of climate change for Ireland and specifies the national strategy for the development of adaptation measures by key sectors and by local authorities.

#### Climate Change Advisory Council

The Climate Change Advisory Council has several reporting obligations, including with regard to ‘Annual’ and ‘Periodic Reviews’ of progress towards meeting the national transition objective;

### National Planning Framework – Ireland 2040

The transition to a Low Carbon and Climate Resilient Society is one ten key national strategic outcomes which will guide the implementation of the new National Planning Framework. The National Development Plan 2018-2027 brings almost €22 billion between Exchequer and non-Exchequer resources, to addressing the transition to a low-carbon and climate resilient society.



# Nations Unies

## Conférence sur les Changements Climatiques 2015

COP21/CMP11

### Paris France





# APPROACH



# CLIMATE READY MAYO

Engage | Plan | Adapt





# APPROACH



**Engage** The first key step in our approach is improving our understanding and communication of the risks from a changing climate across the Local Authority.



**Plan** The planning process will include details on how our climate is changing, potential impacts and opportunities and the identification of areas at risk



**Adapt** The success of this plan will be measured by our ability to develop and implement co-ordinated responses to climate risk where needed. Many adaption actions are already underway at Mayo County Council.



# APPROACH



Oifig Réigiúnach um Ghníomhú ar son na hAeráide  
Climate Action Regional Office  
Rialtais Áitiúil | Local Government  
Cósta Thuaidh an Atlantaigh | Atlantic Seaboard North

## Atlantic Seaboard North Office

- Regional Coordinator: David Mellett
- Senior Staff Officer: Anne Ronayne
- Executive Scientist: Maria O'Connell
- Assistant Engineer: Liam Scott

## Centre of Excellence

- Storm and coastal flooding risk & Sea Level Rise





# ADAPTATION

- PREPARATION
- BASELINE
- FUTURE RISK
- PRIORITIES
- IMPLEMENTATION





# TEAMS



<b>Critical Buildings &amp; Infrastructure</b>	Roads
	Architects
	Housing
	Planning
	Coastal & Marine
	Waste

## Water Resource & Flood Risk Management

Public W& WW Services
Group Water Schemes
Water Quality
Flood Risk Management



## Natural & Cultural Capital

Agriculture
Environment
Biodiversity
Heritage
Climate Action
Tourism

## Community Services

Fire Services
Emergency Response
Civil Defence
Library
Municipal Districts
Economic/LEO
Mayo Sports Partnership
Community
Human Resources
Information Systems
Communications
Finance
Procurement & Efficiency





# PREPARATION



**Water Resource & Flood Risk Management**  
(Water Services – Public & GWS, Water Quality, Flood Risk)

**Critical Buildings & Infrastructure**  
(Roads, Architects, Housing, Planning, Coastal & Marine, Waste)

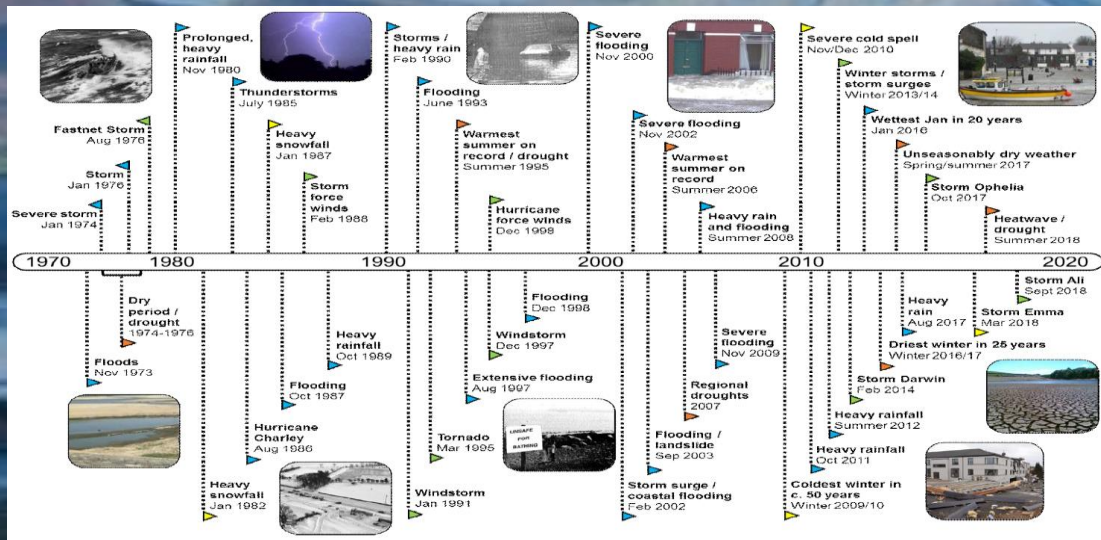
**Adaptation Strategy Team**

**Natural & Cultural Heritage** (Agriculture, Environment, Biodiversity, Heritage, Climate Action, Tourism)

**Community Services**  
(Fire & Emergency Services, Civil Defence, Library, MDs, Economic/LEO, Mayo Sports Partnership, Communications, Finance, Procurement)



# BASELINE



**Case Study 1**

**Extreme Precipitation, November 2009**  
November 2009 is notable for the high rainfall recorded and the consequent severe flooding experienced in many parts of the country

**Case Study 2**

**High Temperature (and low Precipitation), Summer 2018**  
Heat and drought conditions in the summer of 2018 affected many parts of the country.

**Case Study 3**

**Strong Winds (and Extreme Precipitation), December 2015**  
Strom Desmond, 5th December 2015, was an extra tropical cyclone bringing heavy rains and severe gales with gusts up to 81mph.

**Case Study 4**

**Sea Level Rise & Storm Surge, Winter 2013/2014**  
The winter of 2013/14 was severely affected by a run of winter storms, culminating in serious coastal damage and widespread flooding.

**Case Study 5**

**Low Temperature, February/March 2018**  
Storm Emma and "The Beast from the East" pushed continental polar air across Ireland, bringing freezing temperatures and snow.



# BASELINE

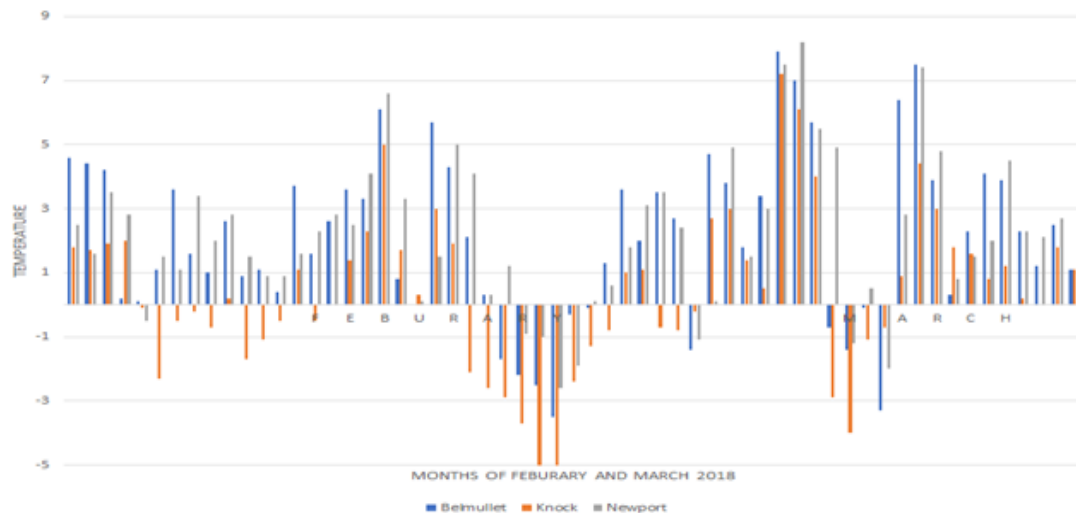


Name & Date of Event: February/March 2018, Storm Emma & “Beast from the East”. During the third and four week of February easterly winds pushed continental polar air across Ireland. Snow showers crossed the country on the 27th and led to significant accumulations particularly in eastern and southern counties on the last day of the month.

In March an exceptionally cold Polar (continental) easterly airstream covered Ireland. In addition, Storm ‘Emma’ tracked northwards from the Bay of Biscay during the first week of March. It yielded widespread snow, ice and low temperatures. It was very cold with widespread air and ground frosts.



Daily Minimum Temperatures for selected Synoptic Stations in Mayo, Feb and March 2018.



*"The jet stream is currently disrupted so we are getting storms from different regions. "Precipitation at the north of the storm will be met with the Siberian winds sweeping in from the east - and this will create snow." Forecaster Joanna Donnelly 2018*

### Impacts:

- Transport disruption on all roads, Knock airport, Irish Rail and Bus Eireann. Snow Ploughs, salt gritters and extra resources required.
- Water treatment plants in many parts of Mayo are struggling to keep up with water supply demands with many people leaving taps running to avoid pipes freezing.
- Minor power outages
- The freezing temperatures and snow impacted the farming community
- Civil Defence required to vulnerable populations
- Great Community spirit was highlighted during this event both locally and nationally







# RISK - OPPORTUNITY

- CRITICAL INFRASTRUCTURE
- COASTAL and MARINE
- BIODIVERSITY
- CULTURE and HERITAGE
- TOURISM
- WATER & WASTEWATER
- WATER QUALITY
- FLOOD MANAGEMENT
- EMERGENCY SERVICES
- CORPORATE SERVICES
- COMMUNITY & ENTERPRISE

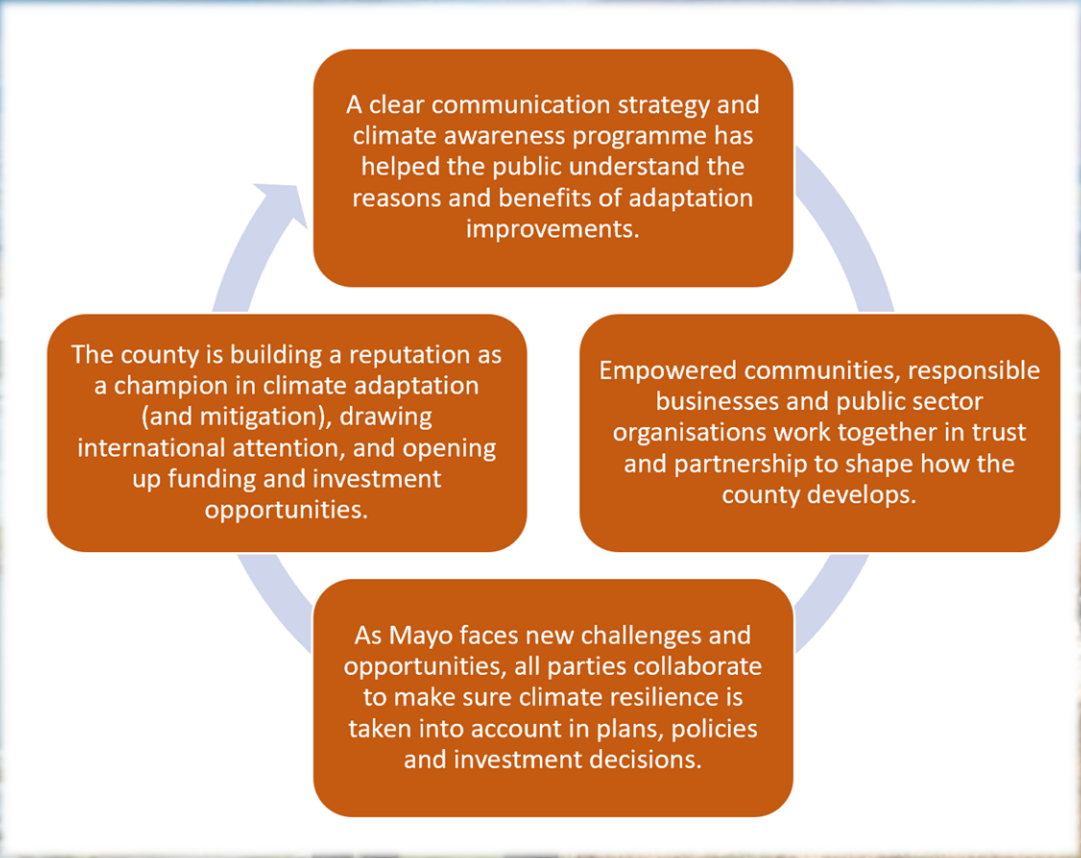




# OUTCOME



**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.**





# GOALS



## 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

Maintain the authority's ability to provide an acceptable level of service in the face of climate impacts

### Goal 2

Increase the resilience of the built and natural environment to climate change by planning and implementing appropriate adaptation measure

### Goal 3

Promote opportunities associated with climate change



# OBJECTIVES



## Objectives



### 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

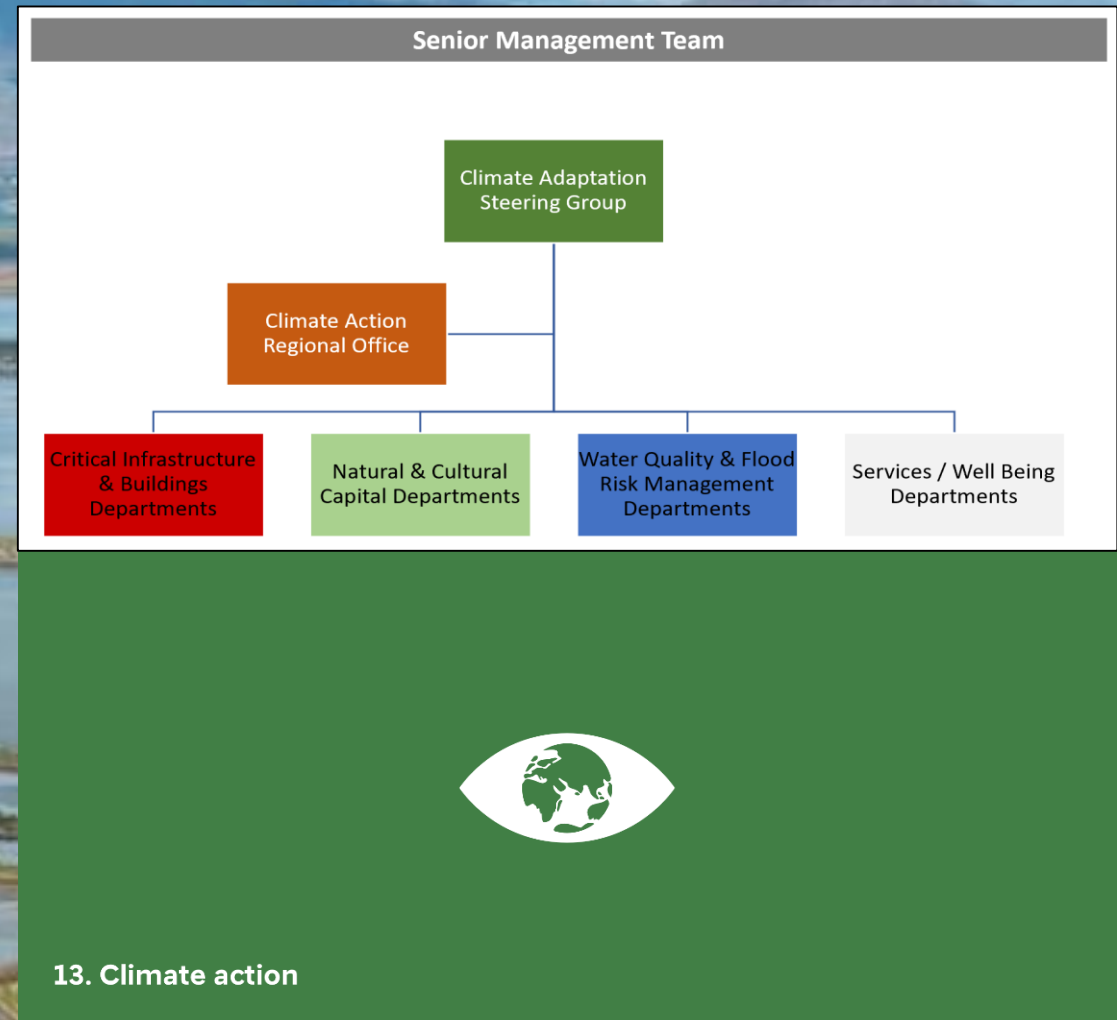
Integrate climate change measures into policies, strategies and planning, as well as the identification of areas at risk to inform planning and decision-making

### Adapt

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



# DELIVERY





# AGRICULTURE




**A SUSTAINABLE  
AGRICULTURAL  
STRATEGY  
FOR MAYO**




The block contains the coat of arms of the County of Mayo and the Mayo.ie logo.





# AMBASSADORS



**Declaration of Commitment  
to the  
Climate Action Ambassador Programme**

The \_\_\_\_\_ section of  
Mayo County Council  
supports the  
Climate Action Ambassador Programme

Line Manager: \_\_\_\_\_ Ambassador: \_\_\_\_\_  
Date: \_\_\_\_\_ Date: \_\_\_\_\_

**MANY PEOPLE  
MANY PLACES  
MANY PARTS**



**McGRATH  
RECYCLING**  
Office Base

011315  
2928  
No:  
09-03022-04  
Hire  
Bins



**COOL  
PLANET  
EXPERIENCE**



**PC Shutdown  
Santa's in Town**

He knows when they are sleeping,  
he knows when they're awake,  
he knows if you've shutdown or not,  
so shutdown for goodness sake!



Optimising Power @ York

**Pull the Plug**

Supplementary electric heaters  
are one of the most expensive and  
environmentally damaging heat  
sources to run.



Optimising Power @ York



# MONTH



TAKE PART **EARTH** EARTH HOUR BLOG EARTH HOUR'S IMPACT

Earth Hour 2019 will be at 20:30 - 21:30 on **Saturday, 30 March**  
All times are in Ireland Time.

Others climate awareness sustainable lifestyles renewable energy csr deforestation sustainable food oceans

TIMESCAPE  
© OpenStreetMap contributors

OUR EARTH, OUR FUTURE

**EARTH DAY**  
APRIL 22

**MAYO DAY**  
4th May  
2019





# COMMUNITY



*Not such a Storm  
in a Teacup!*

*A meeting about the effect of growing storm  
activities on Achill Islands Communities*



Sustainability: where to next for  
your community or group?



**Westport Woods Hotel**  
**14<sup>th</sup> March 6:30-9:00pm.**

**What is this?** An event to guide you and your community on a sustainable energy pathway. Advice and guidance will be provided on programs and supports that you can plug into to support your local initiatives.

**Who is it for?** This event is for communities, their residents and their groups who would like real-world, practical and specialist advice on improving their sustainability especially in relation to local energy use and generation. We will have Mayo County Council, their climate change unit, communities presenting on their sustainability initiatives, the Western Development Commission, and mentors for the Sustainable Energy Communities Program on hand to give advice.

**Organising team:** Sustainable Communities Research Group (Trinity College Dublin) & Energy Cooperatives Ireland.

**Supporting organisations:** Community Futures, Environment Unit, Mayo County Council, Sustainable Energy Communities program, SEAI, and Western Development Commission, amongst others.



@SubZeroCarbon



@EnergyCoopsIreland

[Research Website \(click\)](#)

[ECI Website \(click\)](#)

This project was established through individual collaboration with over 200 Irish communities on Sustainable energy projects. An example is Emly in Tipperary – serial winners of National and International Sustainability competitions (see picture). We are currently mentoring 25 sustainable energy communities in the West. **We are hoping we can help you too.**



**We can help you**

If your group or your community are interested in energy or sustainability projects then we can help you. From energy conservation projects like for example insulation schemes to renewable energy and sustainable transport solutions – we work in this area and we can help you and your community to achieve more. Communities we have supported include Templederry, Ballymun, Birdhill, Inis Mór, Inis Oirr, Emly, Ballina, Killaloe, Claremorris and many others.

For More Information, email [info@energyco-ops.ie](mailto:info@energyco-ops.ie) or call 086 678 4063

**Mulranny as a Sustainable Energy Community**

**Public Event**

**11 am, Saturday 30<sup>th</sup> September 2017**

**Ross Suite, GN Mulranny Park Hotel, Mulranny.**

**Are you concerned about increasing energy usage in your home? Are we paying too much to heat and light our community buildings? Could your business be more energy efficient?**

**Find out how we can work together to create an  
Energy Master Plan for Mulranny**

**Schedule of Speakers**

- **11.00 – 11.15 – Registration**
- **11.15 – 11.20 – Welcome – Carol Loftus**, Chairperson, Mulranny GreenPlan Group
- **11.20 – 11.40 – Ruth Buggy**, Sustainable Energy Communities & Smart Grid Programme Manager - The SEC Network, supports available and a Community Energy Master Plan.
- **11.40 – 11.55 – Laura Dixon**, Climate Action Officer, Mayo Co. Council - Climate Change; Mayo County Council takes action.
- **11.55 – 12.20 – Paddy Crowe**, Inis Oirr Island Co-Operative  
"Making the islands self-sustainable is our aim. We have done everything from insulating the houses to using solar panels. Being green in as many ways as we can."
- **12.20 – 12.30 – Caroline Goucher**, Westport SEC & Westport Eco-Congregation on 'Volunteering in your Community'.  
**12.30 – 12.50 Tea/Coffee Break**
- **12.50 – 13.05 – Dr Orla Nic Suibhne**, Údarás na Gaeltachta  
Better Energy Community Programme within the Gaeltacht: 2014-2017.
- **13.05 – 13.20 – Sarah Duffy**, RECENT – Increasing Energy Knowledge in Rural Communities
- **13.20 – 13.40 – Alma Gallagher**, Manager, Clár ICH, Claremorris, Co. Mayo – The Better Energy Warmer Homes Scheme
- **13.40 – 14.00 – Questions & Answers** with our Speakers  
**Followed by a light lunch**

**Spot Prizes  
All Welcome!**



# ENERGY



### Register of Opportunities

Prioritise the opportunities, e.g. cols D, E, M, N. Use the **Optional** Opportunity Prioritisation tool in cols N-V for more detailed opportunity prioritisation

Asset	Opportunity	Estimated Annual Savings			Category	Electrical / Thermal / Fleet
		Fuel Type	[kWh]	[€]		
IS	automatic shutdown of computers at night/weekend	Electricity			Technical	Electrical
LEisure Centre	recondition CHP	Natural Gas			Technical	Thermal
	recondition CHP	Electricity			Technical	Electrical
all buildings	lighting controls	Electricity			Technical	Electrical
all buildings	Energy usage included in CE monthly report				Organisational	Combination
all buildings	organisational strategy to include energy				Organisational	Combination
		Transport Fuels			Organisational	Fleet

	Title: Mayo County Council Energy Policy
	Author: Energy Mgmt Team
	Date: 7 <sup>th</sup> December 2018
	Revision: 1

Mayo County Council undertakes a commitment to make efficient use of energy during our activities at each of administrative centres with the purpose of: promoting environmental responsibility; preserving natural resources; reducing carbon emissions to help mitigate the effects of climate change. Management will lead and promote energy efficiency, ensuring that the policy is appropriate to the nature and scale of our organisation.

**Aim**  
In this energy policy the aim is to provide a framework to improve the energy performance of Mayo County Council by regular review and continuous improvement.

- Objectives**
- To achieve this aim Mayo County Council is committed to;
- Ensuring all legal requirements relating to energy use, consumption and efficiency are met and where possible exceeded.
  - Setting energy objectives and targets and reviewing these annually as part of a continuous improvement process.
  - Promoting investment in energy efficient products, design, services, refurbishments and new build projects and providing the required resources to achieve the energy objectives and targets.
  - Informing our employees, suppliers, contractors and the public of our energy policy.
  - Providing the necessary training and support required to implement our energy efficiency and low carbon objectives.

Date: 07.12.2018  
Chief Executive, Mayo County Council



# TRANSPORT



**Smarter Travel  
Workplaces Partner**

**As a partner in the Programme, we commit to undertaking the following with assistance from the National Transport Authority:**

- Survey employees on their commuting habits
- Encourage employees to use more sustainable transport
- Develop and implement an action plan of sustainable travel initiatives
- Support personnel to implement the action plan by providing a part-time person to give support to a team of volunteers
- Dedicate financial and non-financial resources to supporting initiatives
- Monitor the performance of the action plan through an employee travel survey

*Anne Graham*  
**Anne Graham**  
 Chief Executive  
 National Transport Authority

*Peter Hynes*  
**Peter Hynes**  
 Chief Executive  
 Mayo County Council

smarter travel >>>  
 >>> workplaces

Udaras  
 Naisiunta Iompair  
 National Transport Authority

For more information see: [www.smartertravelworkplaces.ie](http://www.smartertravelworkplaces.ie)



**EUROPEAN MOBILITY WEEK**  
 16-22 SEPTEMBER 2018

**Mayo County Council Events**

Mon 17<sup>th</sup> Mobility Yoga, 1.15 - 2pm,  
 Practical Training Centre, 5 Euro

Tues 18<sup>th</sup> Car Pool Tuesday

Wed 19<sup>th</sup> Walk on Wednesday  
 Lunchtime 30 min walk -  
 leaving Aras reception at 1.15pm

Thurs 20<sup>th</sup> Cycle on Thursday  
 Dr. Bike - Free Bike Check-up  
 10am - 12pm outside Canteen  
 Cycle to Turlough at 4.30pm  
 meet at Aras Bike Shelter

Fri 21<sup>st</sup> Culture Night Bike Buffet

Join In, Take a Pic, Win a One For All Voucher!

**M MAYO.IE** **Mix and Move!**

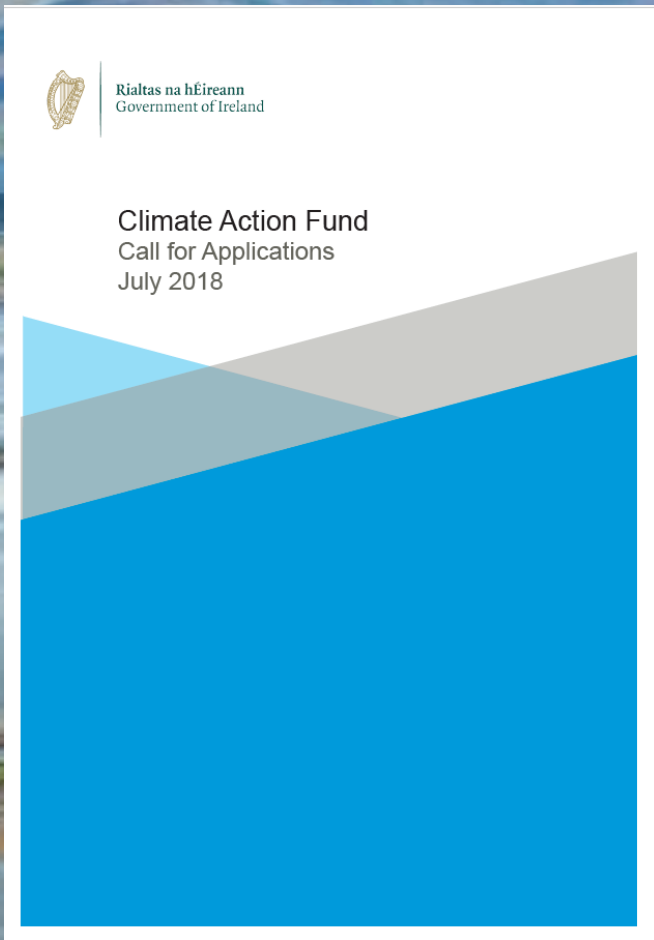


# TRANSPORT



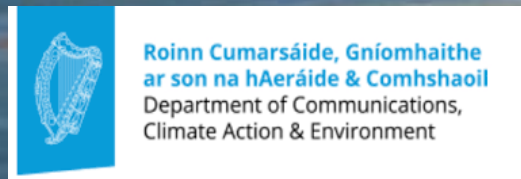


# RESOURCES





# COLLABORATION





# FUTURE .... NOW !!!



Do what you can, with what you have, where  
you are.

(Theodore Roosevelt)





GO MAYO ..... 2019 .....



Go raibh maith agaibh ... !!









Derry City & Strabane  
District Council  
Comhairle  
Chathair Dhoire &  
Cheantar an tSrátha Báin  
Derry Citty & Stràbane  
Districk Council

Derry City and Strabane District Council

# Green Infrastructure & Climate Change Conference



12th March 2019  
Guildhall



## CLIMATE

Adapting to Change

Collaborative

Learning

Initiative



Northern Periphery and  
Arctic Programme  
2014-2020



EUROPEAN UNION  
Investing in your future.  
European Regional Development Fund

#GIConf19.

[www.derrystrabane.com/GI](http://www.derrystrabane.com/GI)