

**Workshop 3E:
Understanding how Transport affects Climate Change**





South West Mayo
 DEVELOPMENT COMPANY LTD
Comhacht Fíorbartha
 IonRiaráiltear Inbhaistí Eir Teo









MAYO CLIMATE ACTION AWARENESS WORKSHOPS







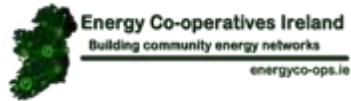








Climate Action Awareness Group



- South West Mayo Development Company Ltd.
- CARO (Climate Action Regional Office)
- Mayo County Council
- Moy Valley Resources IRD
- Mayo North East Development Company Ltd.



Comhairle Contae Mhaigh Eo
Mayo County Council



Energy Co-Op



Energy Co-operatives Ireland

Building community energy networks

energyco-ops.ie





OVERVIEW

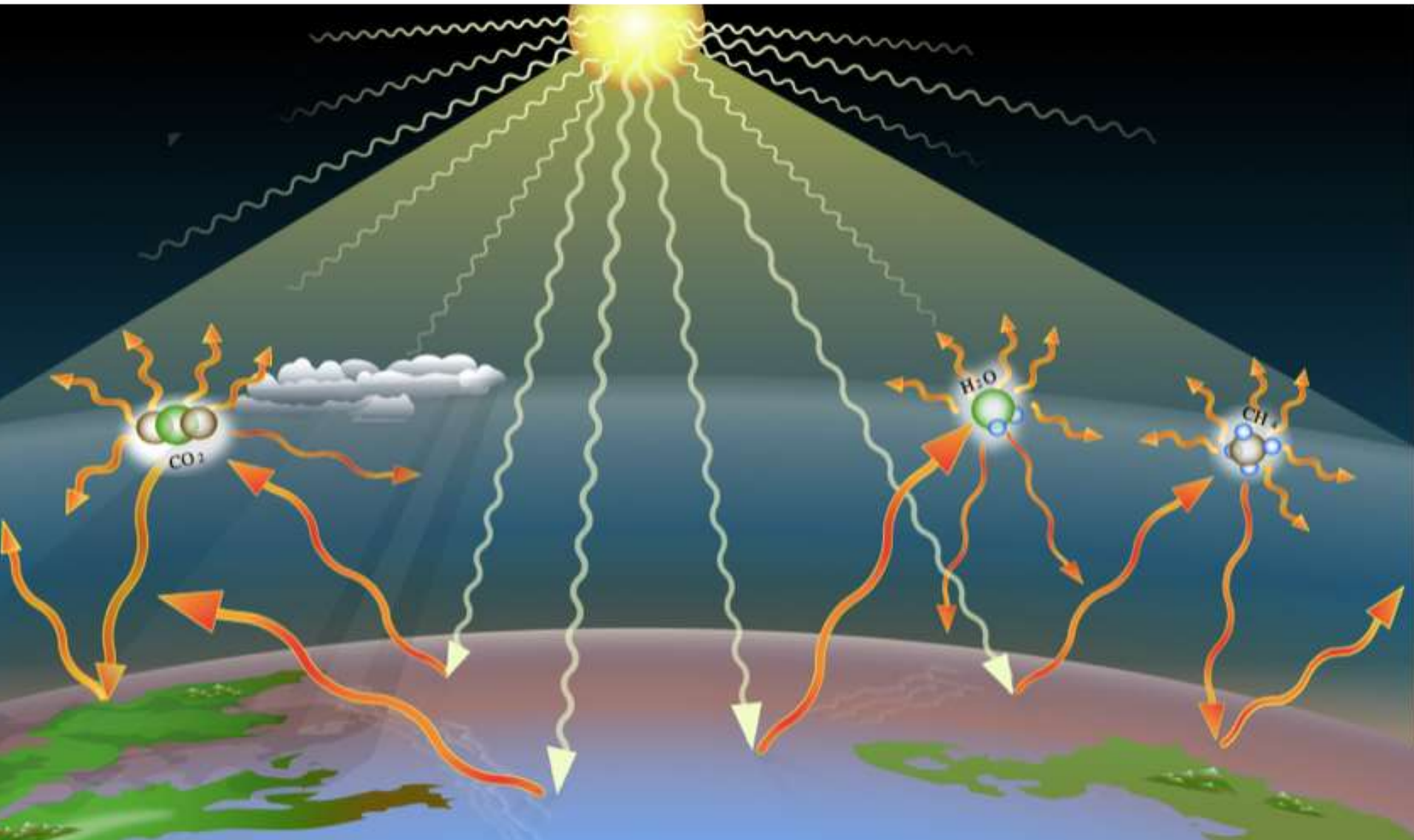
South West Mayo Development Company, as part of a Climate Action Awareness Group, are delivering a bespoke workshop programme 'Mayo Climate Action Awareness Workshops' in 5 Mayo Towns. These workshops will look at a number of topics related to climate change, the relative impacts and adaptation and mitigation actions that can be taken.

The format of these workshops will allow for educating and creating awareness of climate change issues and for interactive discussion around these issues and associated actions that can be taken individually or as a community. The training material will be a combination of both generic and specifically local information using local case studies directed at communities.

This programme will run over a period of 6 weeks, starting the 4th of February 2020 with 3 workshops running in 5 locations around the county. The first two workshops in each location will be common across all 5 locations, with the final workshop focusing on different themes in each location, but open to participants across the whole county.

Global Warming – Greenhouse

Greenhouse Gases collecting in the atmosphere trap heat



Global Climate Indicators

Indicators which show the changing conditions which humans are causing

Surface
temperature

Atmospheric CO₂

Ocean
acidification

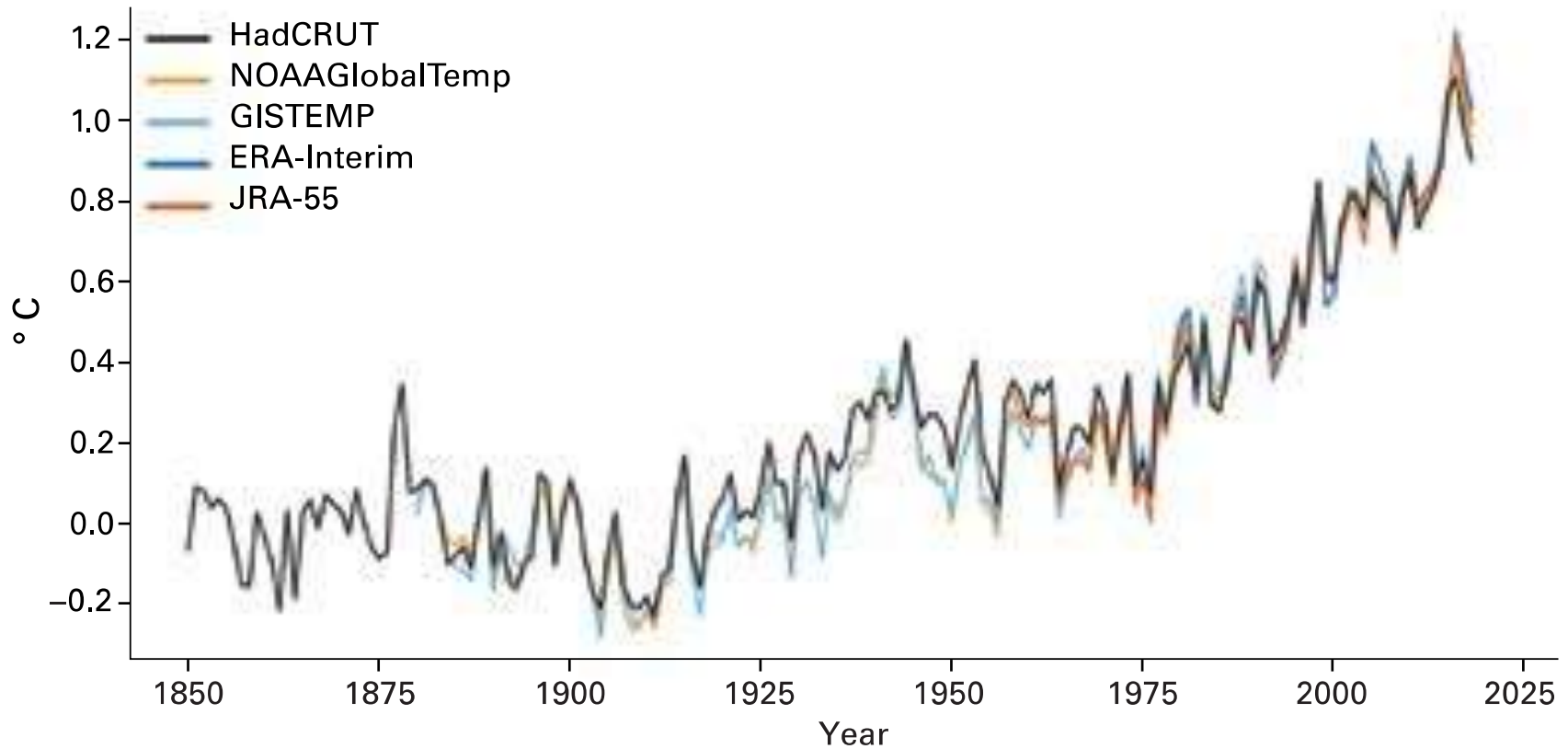
Glaciers

Ocean heat

Sea level

Arctic and
Antarctic
sea-ice extent

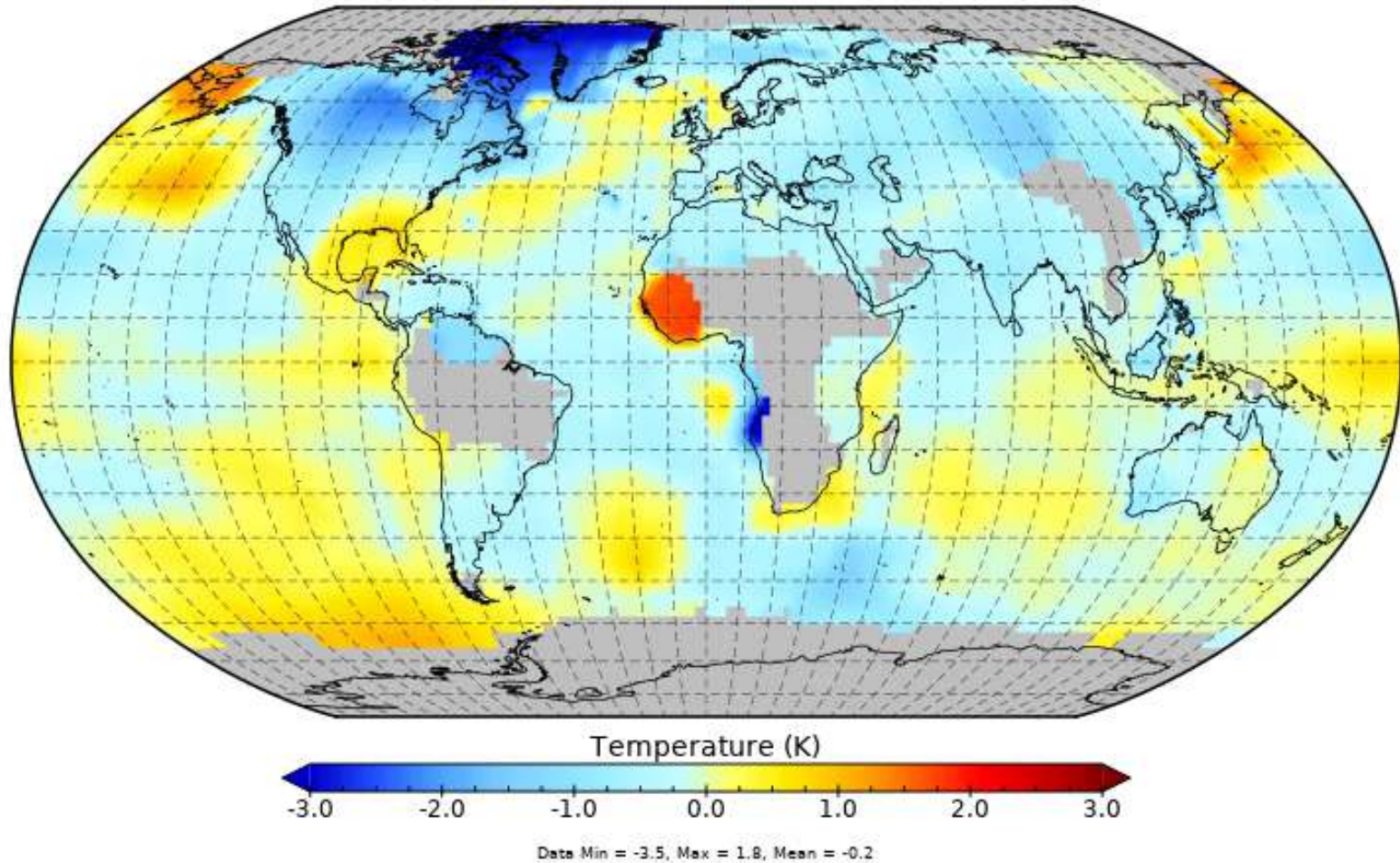
Global Mean Surface Temperature



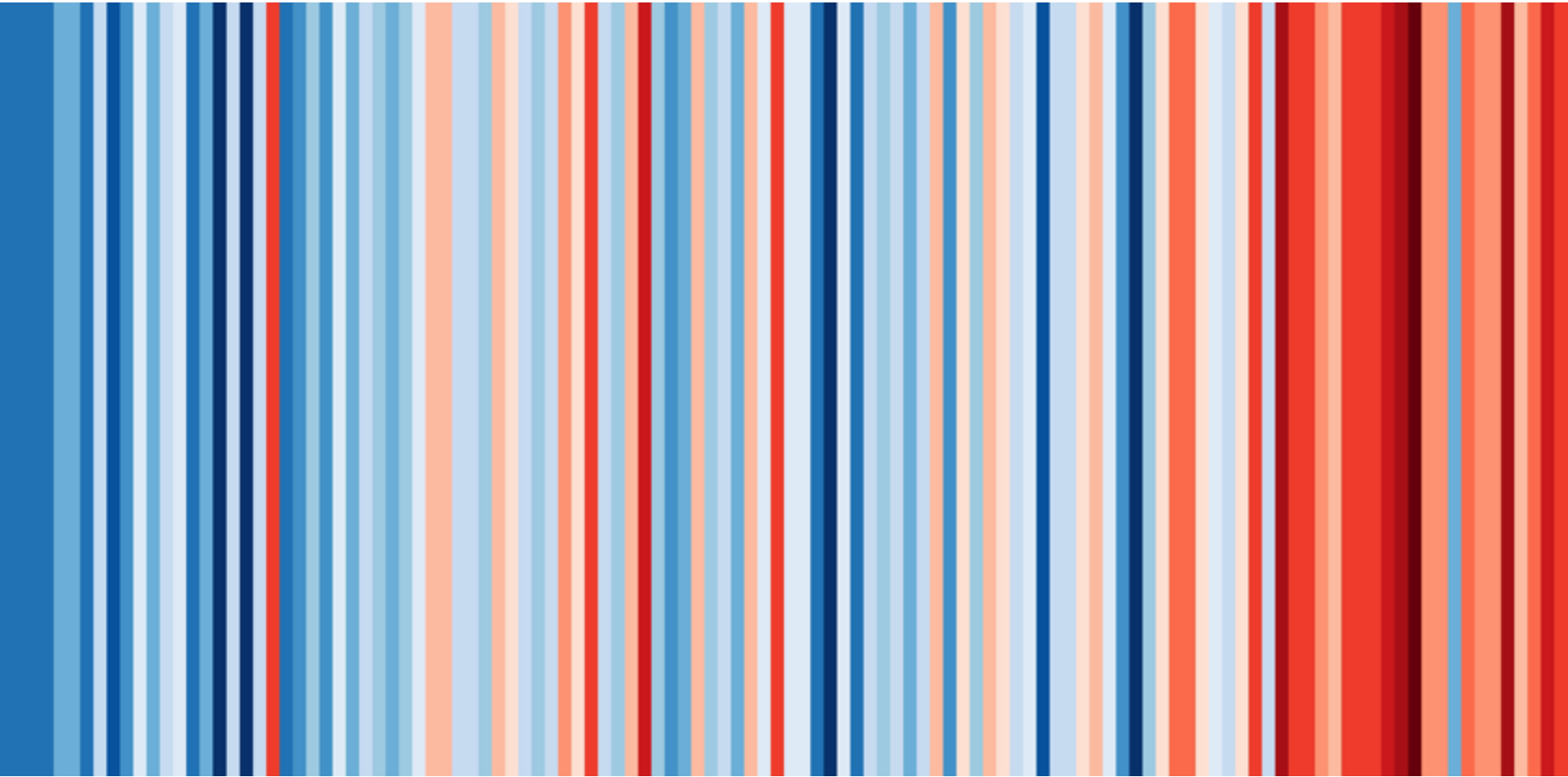
- Combines land & marine data
- In 2015 a record level of 1°C higher than in 1850
- Industrial revolution

Global Mean Surface Temperature 1880-2017

Annual Surface Temperature Anomaly base 1951-1980
1880-1884

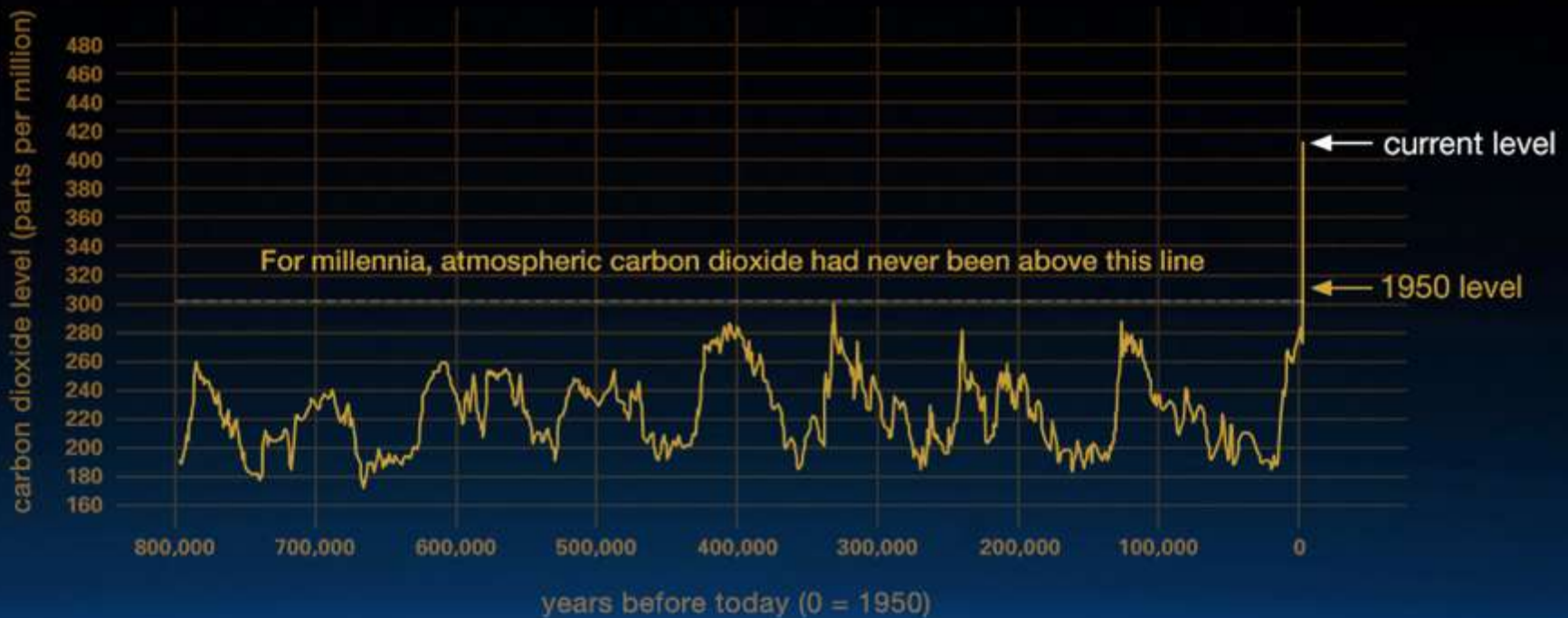


Annual Average Temperatures for Ireland



- The first line on the left is the temperature in 1801 and the temperatures increases as we move across to the 2018 temperature (far right)
- Berkeley Earth data <https://showyourstripes.info/stripes/EUROPE-Ireland--1901-2018-BK>

CO₂ Concentration in the Atmosphere

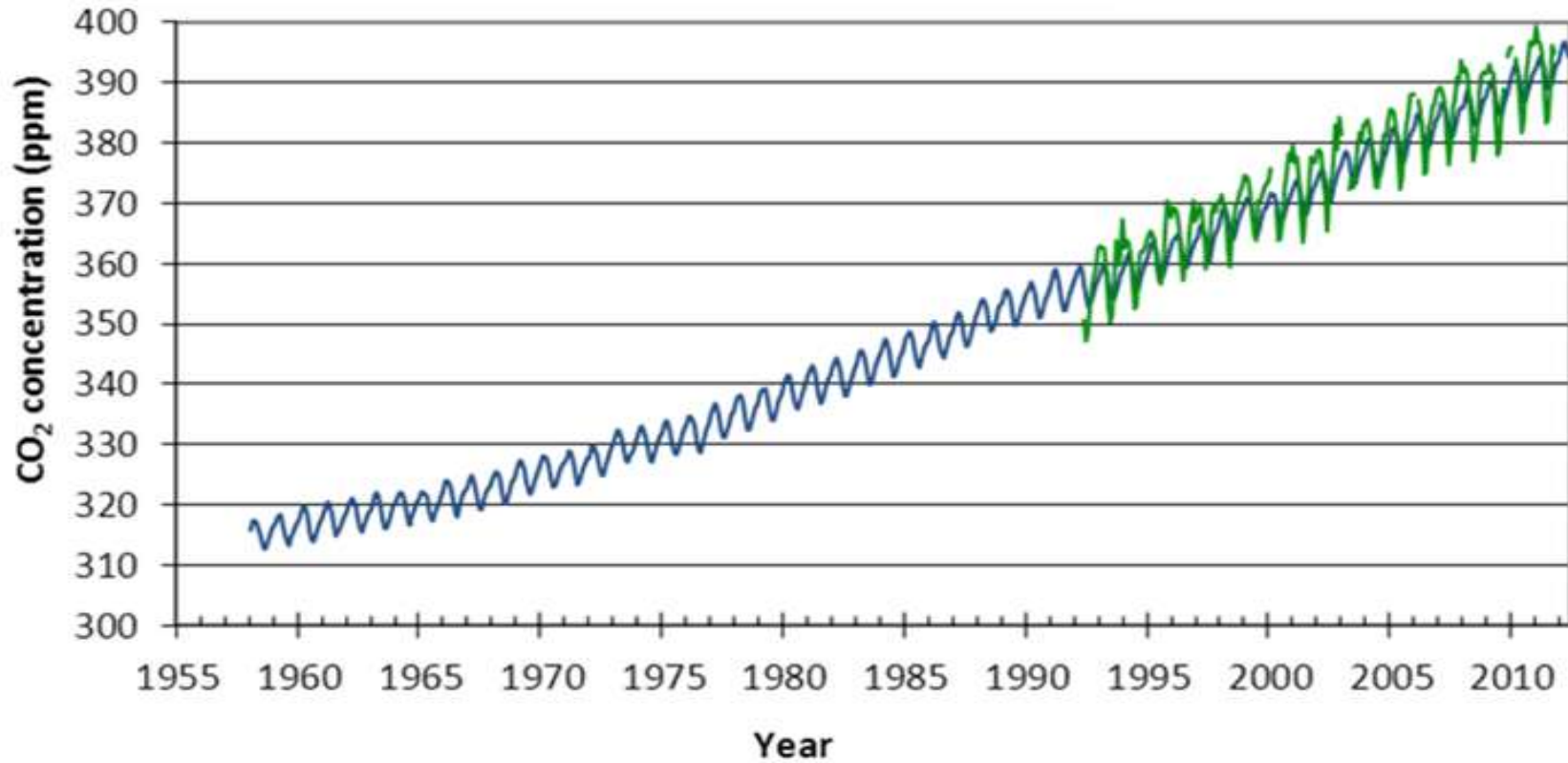


- Graph shows scale of the CO₂ spike over 800,000 years
- Record highs >400 ppm
- Other Greenhouse Gases also like: CH₄, H₂O and N₂O

Atmosphere CO₂ Concentration in Mace Head

Carbon Dioxide (CO₂) (1958-2012)
monthly mean concentration

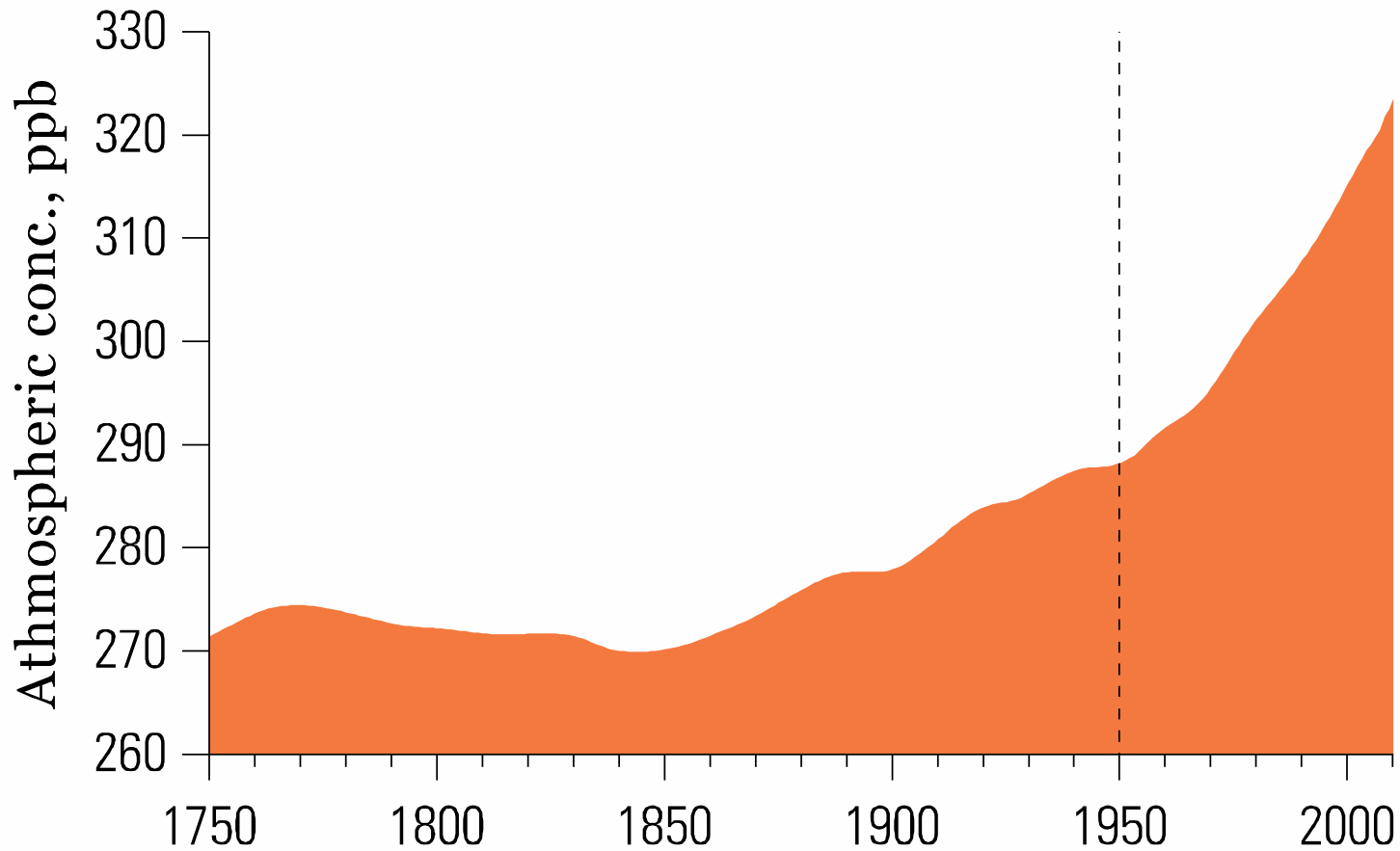
— Mauna Loa (Hawaii) — Mace Head



(Dwyer,2013)

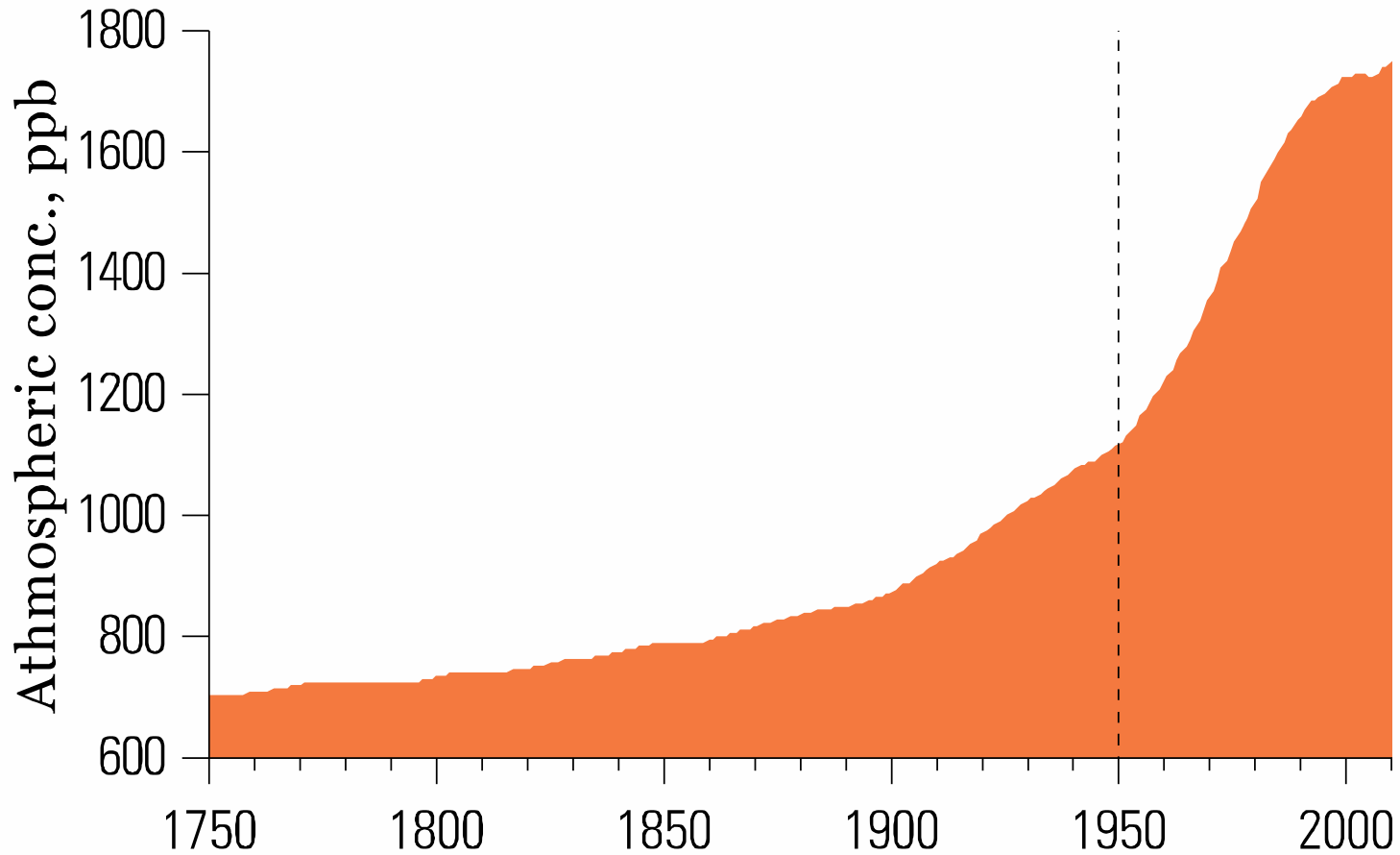
Nitrous Oxide Concentrations in Atmosphere

NITROUS OXIDE

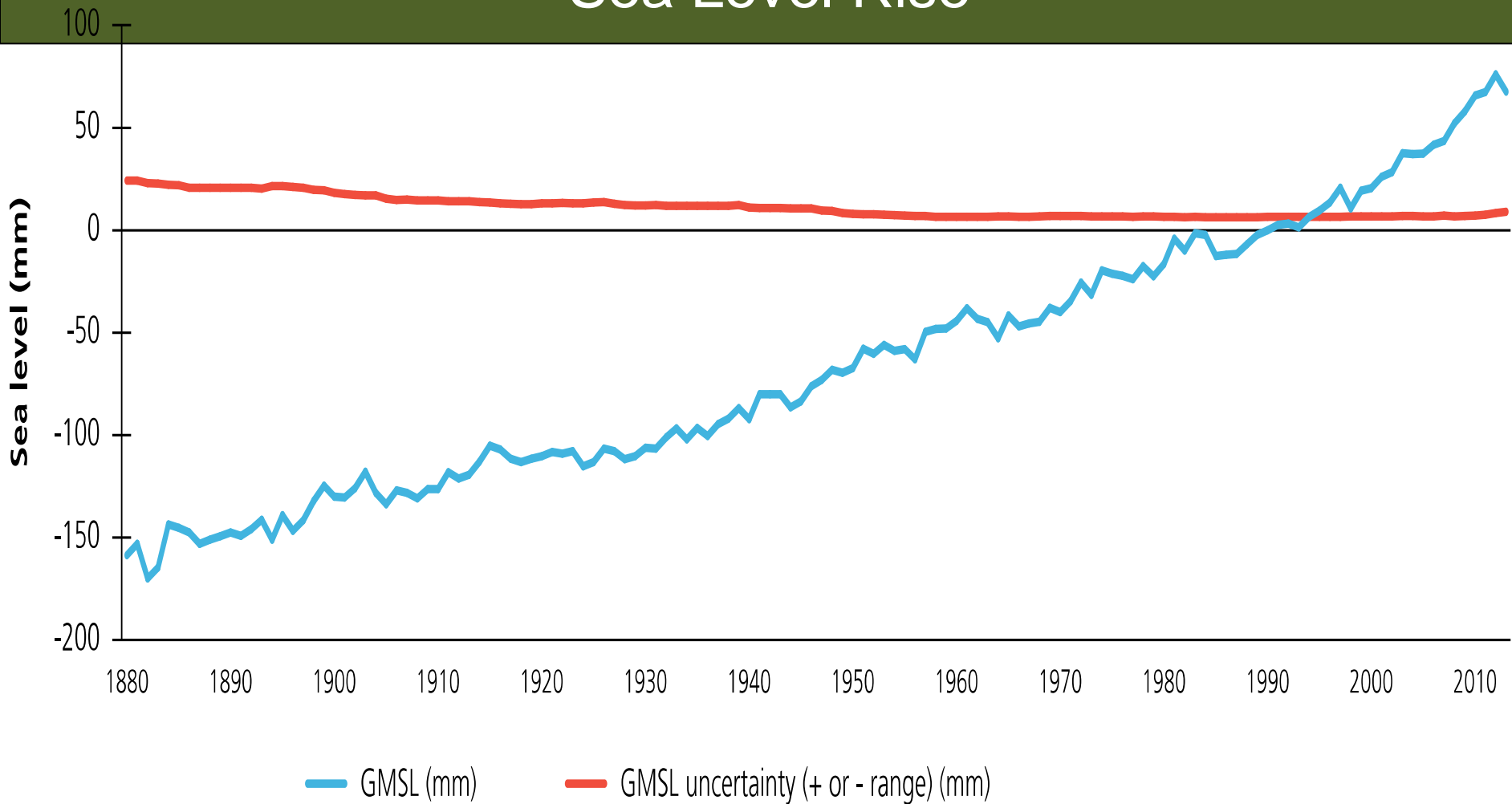


Methane Concentrations in Atmosphere

METHANE



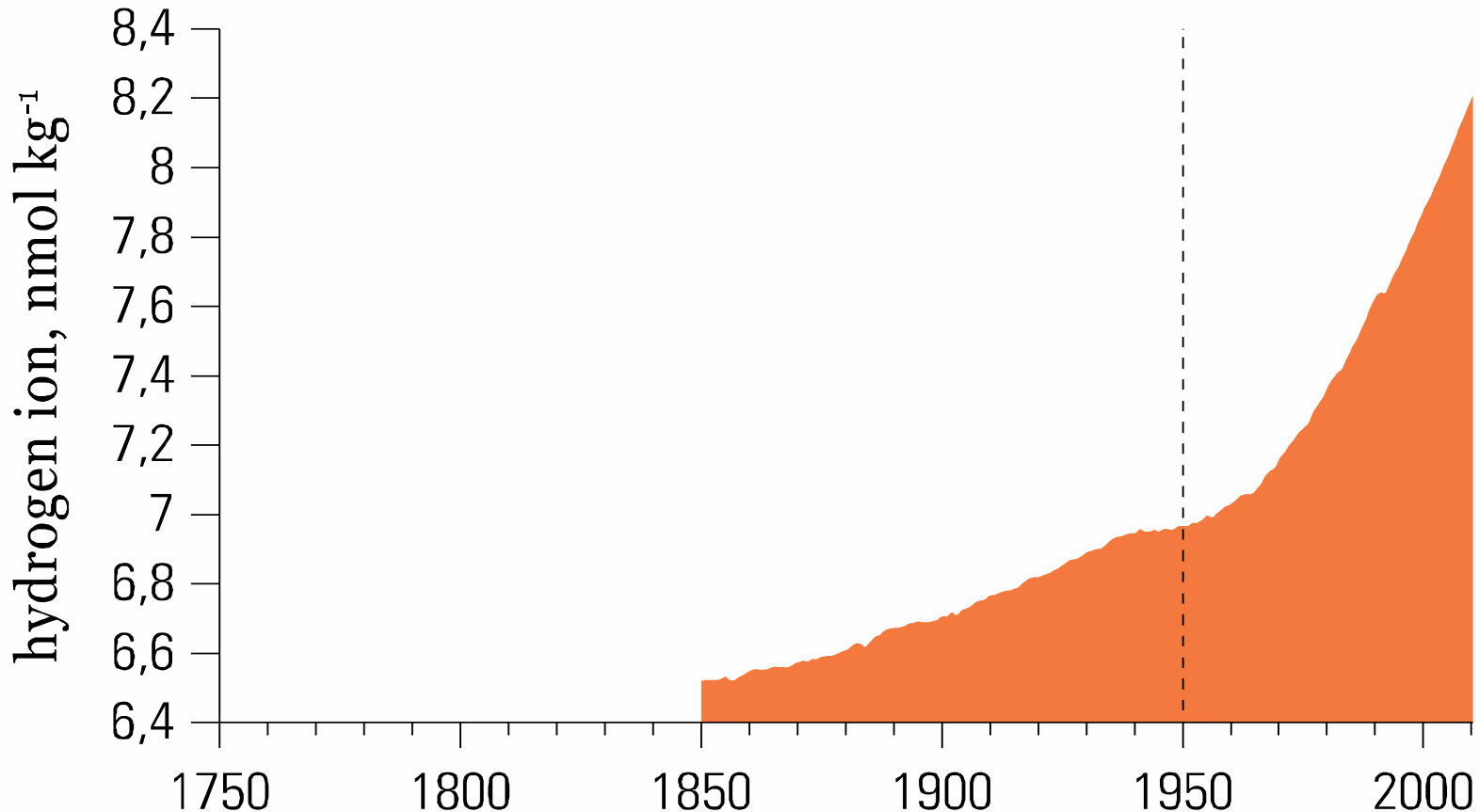
Sea Level Rise



- Heat trapped by oceans leads to thermal expansion
- Global sea level rise of 2 cm each decade in the last century
- Since 1993, average sea level by just over 3 cm per decade

Ocean Acidification

OCEAN ACIDIFICATION



- CO₂ combines with sea water making it acidic
- Changing the chemistry of our oceans

Ice Melt



- Muir Glacier disappears (1941-2004)
- National Snow and Ice Data Centre (link below)
- Photos by W.O. Field and B.F. Molnia

http://nsidc.org/data/glacier_photo/index.html

Iceland Mourns Loss of Glacier

Bréf til framtíðarinnar

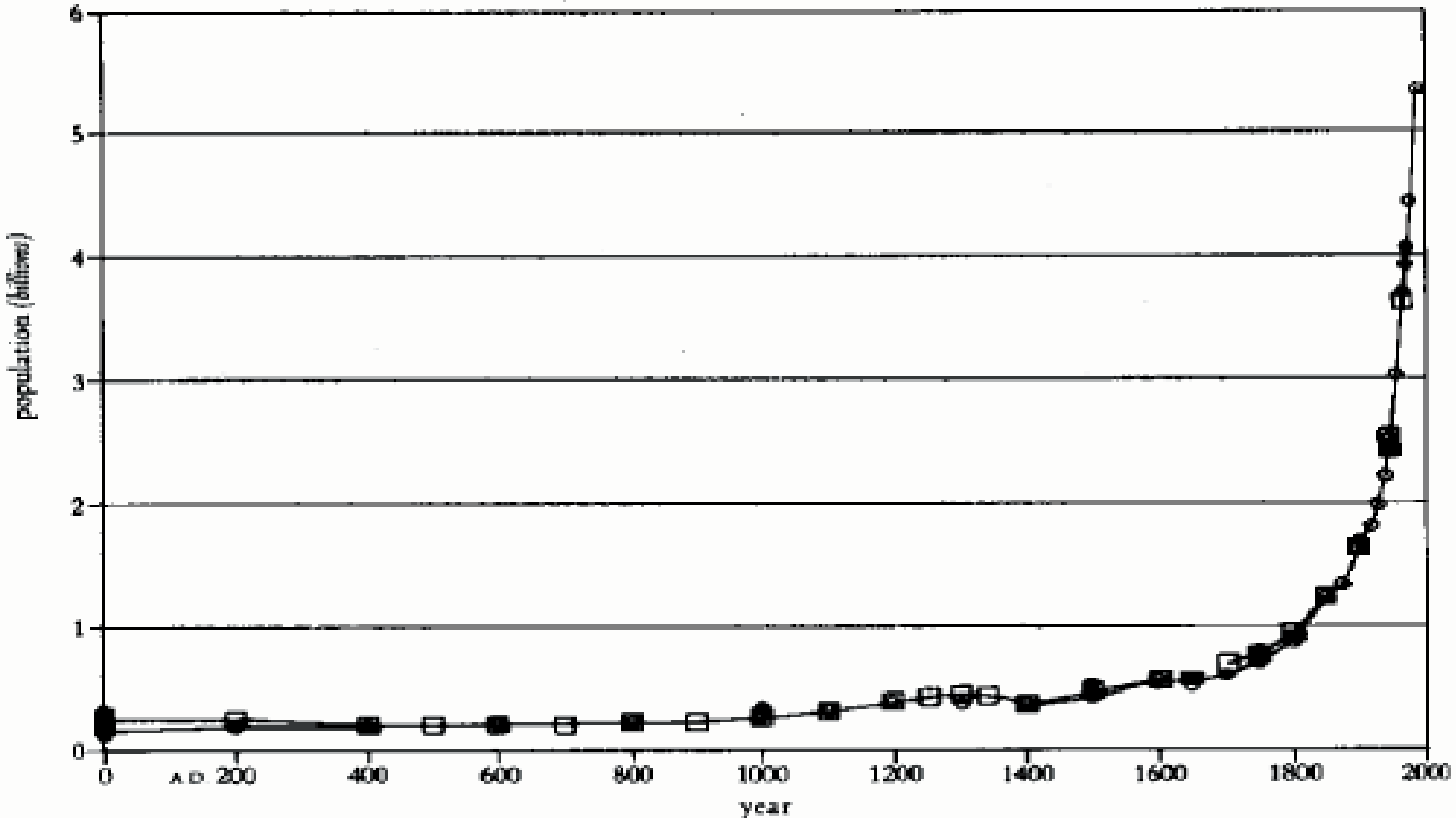
Ok er fyrsti nafnkunni jökullinn til að missa titil sinn.
Á næstu 200 árum er talið að allir jöklar landsins fari sömu leið.
Þetta minnismerki er til vitnis um að við vitum
hvað er að gerast og hvað þarf að gera.
Aðeins þú veist hvort við gerðum eitthvað.

A letter to the future

Ok is the first Icelandic glacier to lose its status as a glacier.
In the next 200 years all our glaciers are expected to follow the same path.
This monument is to acknowledge that we know
what is happening and what needs to be done.
Only you know if we did it.

Ágúst 2019
415ppm CO₂

Population Pressure 2000 years – The Anthropocene



Includes agricultural revolution, industrial revolution now > 7 billion

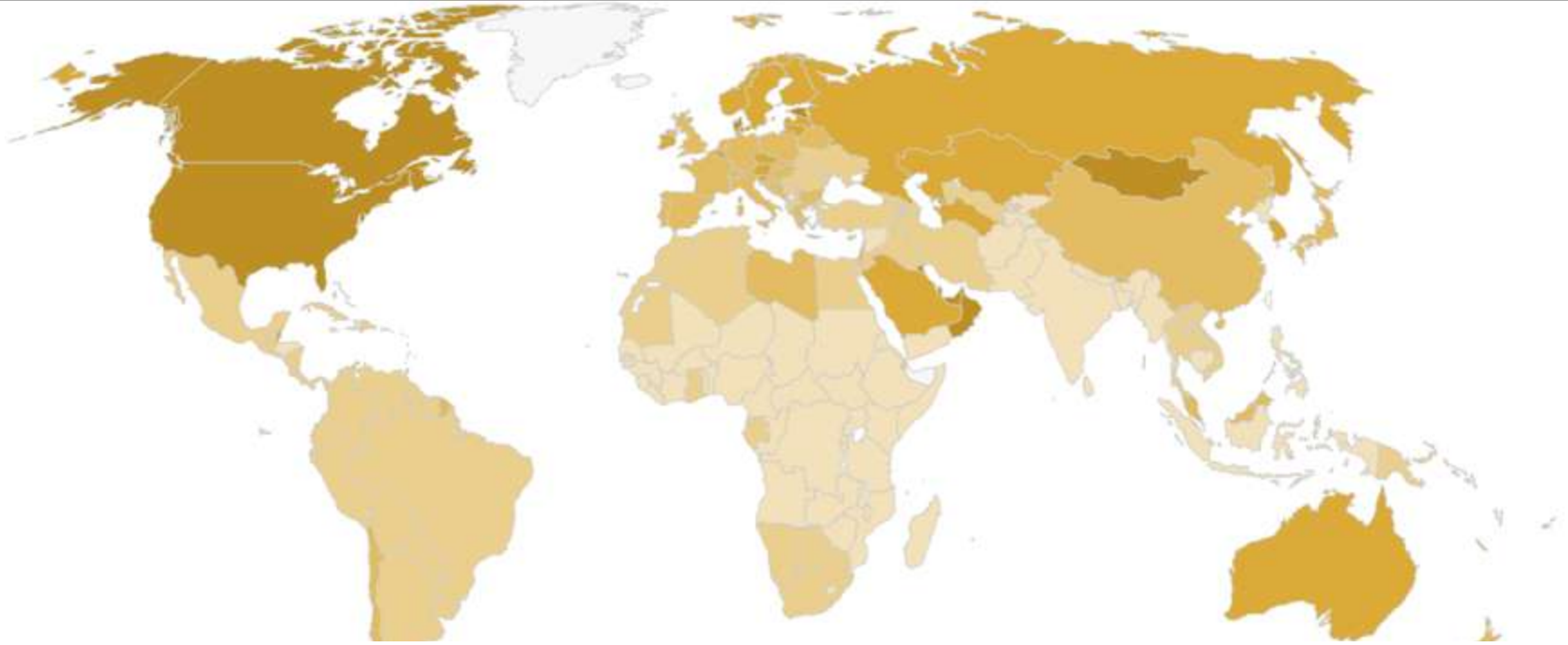
Ecological Footprints

Workshops focussed on ecological footprint of household energy, waste, food and water use.

So we cover some basic introductory material again before we cover the transport ecological footprint.



National Consumption - Country Ecological Footprints



ECOLOGICAL FOOTPRINT PER PERSON

The Ecological Footprint per person is a nation's total Ecological Footprint divided by the total population of the nation. To live within the means of our planet's resources, the world's Ecological Footprint would have to equal the available biocapacity per person on our planet, which is currently 1.7 global hectares. So if a nation's Ecological Footprint per person is 6.8 global hectares, its citizens are demanding four times the resources and wastes that our planet can regenerate and absorb in the atmosphere.

ECOLOGICAL FOOTPRINT PER PERSON OF COUNTRY'S POPULATION (in global hectares)



> 6.7



5.1 - 6.7



3.4 - 5.1



1.7 - 3.4



< 1.7

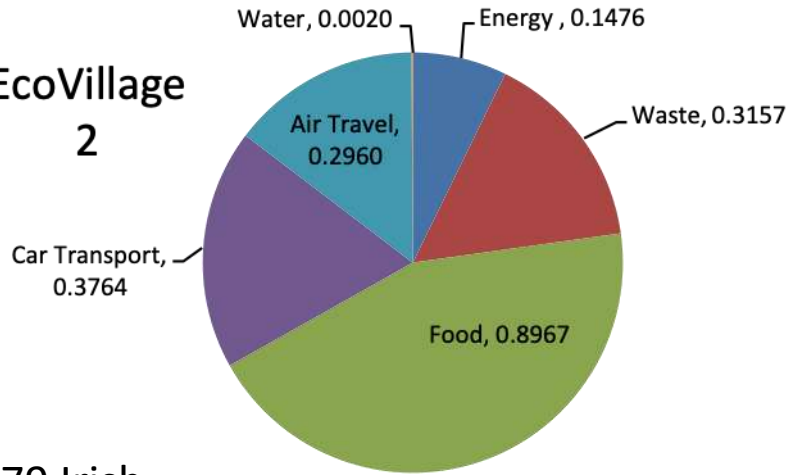
<https://www.footprintnetwork.org/licenses/public-data-package-free/>

Personal Consumption, Making the Data Real

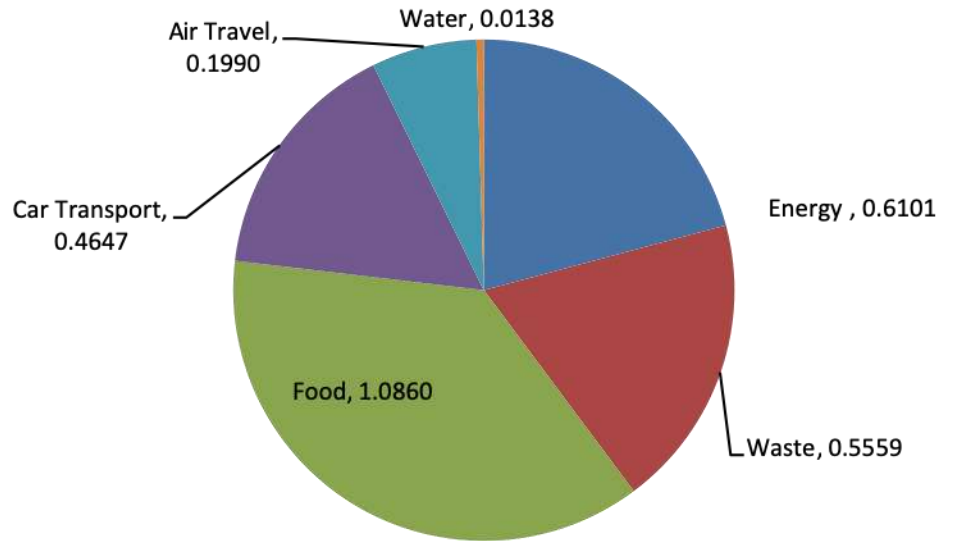


Ecological Footprint (gHa) 82 Irish Settlements

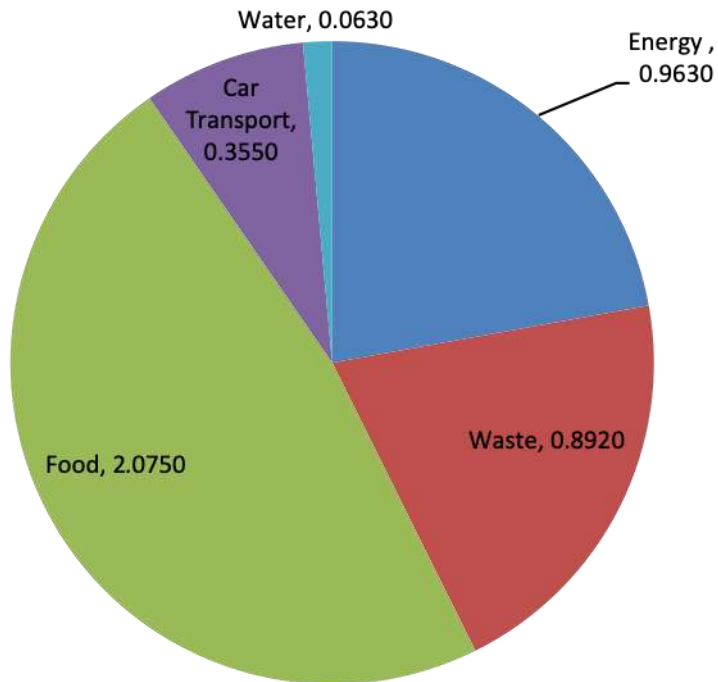
EcoVillage
2



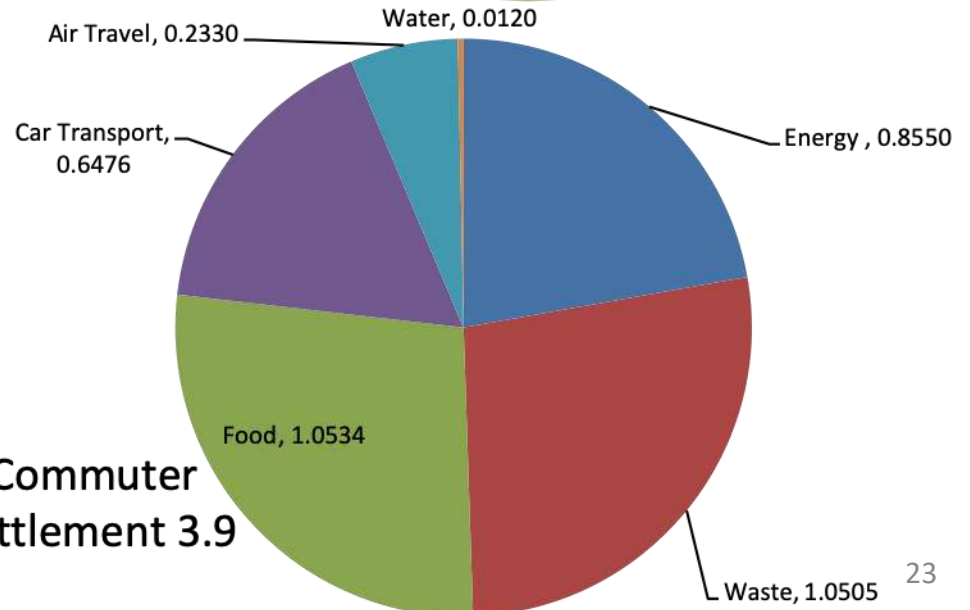
Ballina 2.9



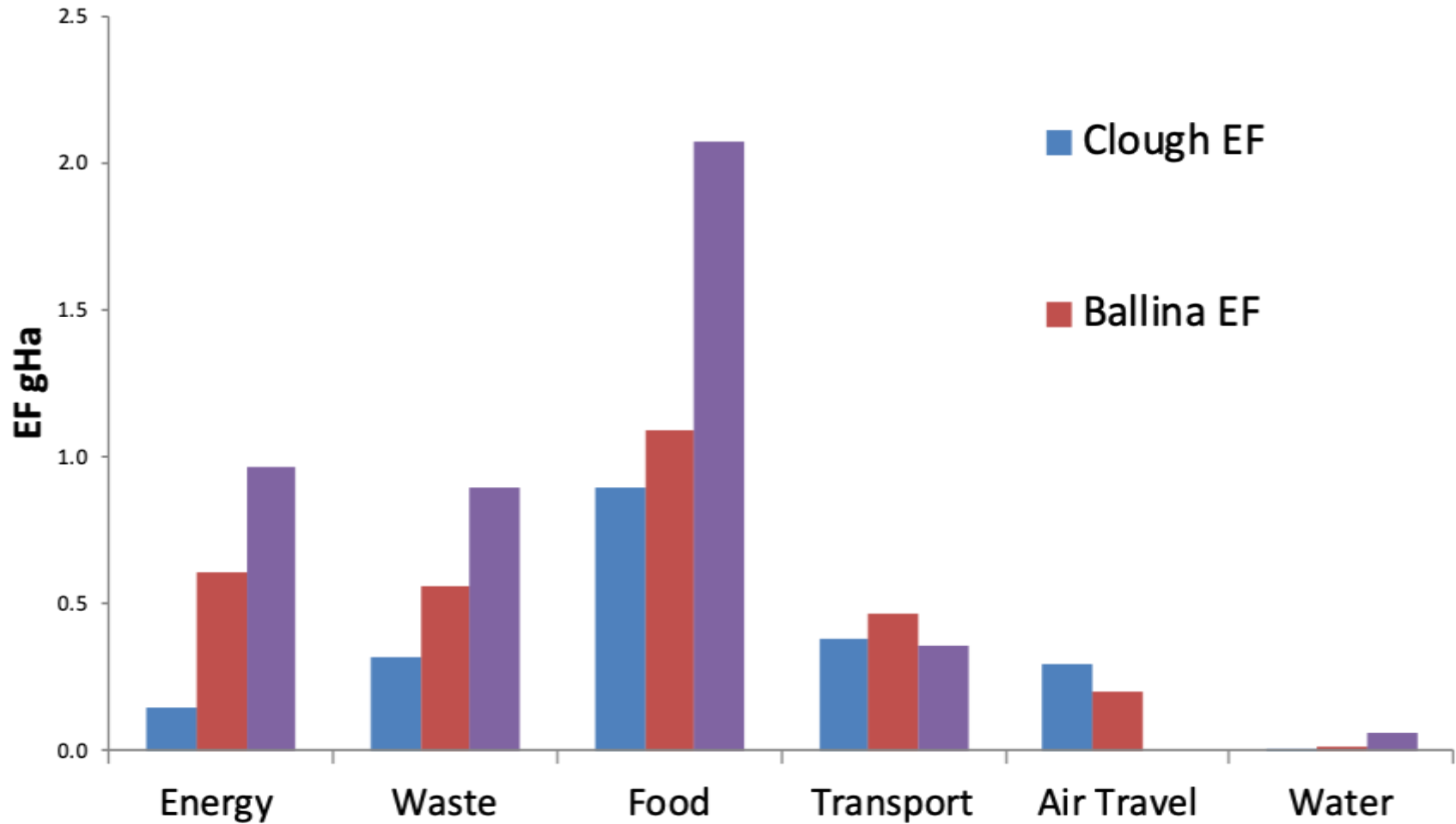
79 Irish
settlements 4.3



Commuter
Settlement 3.9

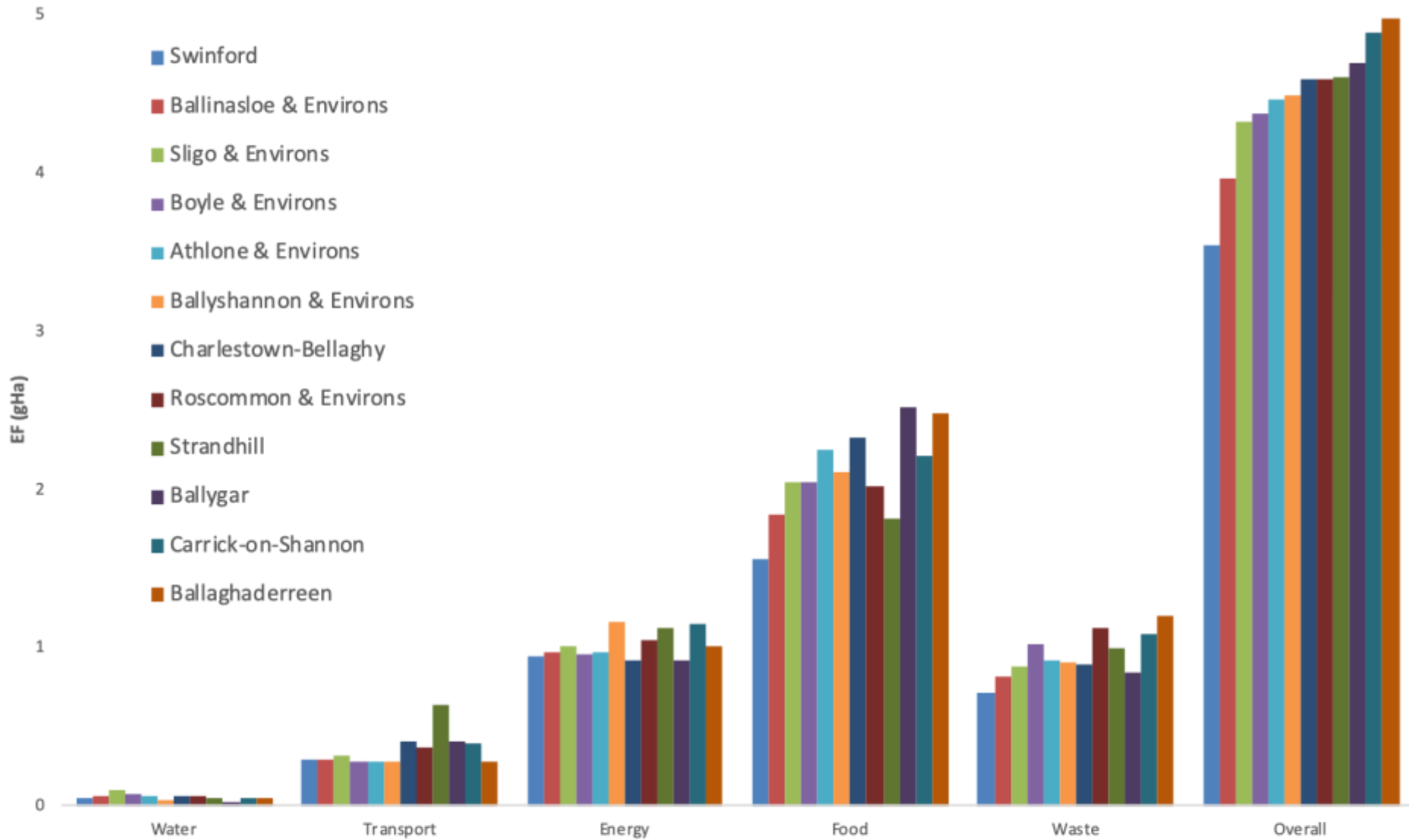


Ecological Footprint (gHa) 82 Irish Settlements



Local Ecological Footprints (Foley, 2006, Carragher & Peters, 2018)						
Settlement	Water	Transport	Energy	Food	Waste	Overall
Swinford	0.04	0.29	0.94	1.55	0.71	3.53
Ballinasloe & Environs	0.06	0.29	0.96	1.84	0.81	3.96
Sligo & Environs	0.09	0.31	1.01	2.04	0.87	4.32
Boyle & Environs	0.07	0.28	0.95	2.04	1.02	4.37
Athlone & Environs	0.06	0.28	0.96	2.24	0.92	4.46
Ballyshannon & Environs	0.03	0.28	1.16	2.11	0.9	4.48
Charlestown-Bellaghy	0.06	0.4	0.91	2.32	0.89	4.58
Roscommon & Environs	0.06	0.36	1.04	2.01	1.12	4.59
Strandhill	0.04	0.63	1.12	1.81	0.99	4.6
Ballygar	0.02	0.4	0.91	2.51	0.84	4.69
Carrick-on-Shannon	0.05	0.39	1.15	2.21	1.08	4.88
Ballaghaderreen	0.04	0.27	1	2.47	1.19	4.97
Average	0.05	0.35	1.01	2.10	0.95	4.45
Proximity to Hubs generally reduces car travel and waste dependency						

Local Ecological Footprints (Foley, Carragher & Peters)



Car Lock-in

- ¾'s of ALL journeys use the motor car
- Just 6.1% of journeys have a passenger

Mode of travel	2012	2013	2014
	%	%	%
Private car - driver	70.4	69	69.1
Private car - passenger	6.1	5.8	5.3
Walk	13.6	15.4	14.8
Bus	3.9	3.8	4.4
Cycle	1.2	1.3	1.6
Rail / DART / Luas	1.3	1.5	1.4
Taxi / hackney	0.8	0.9	0.9
Lorry / motorcycle / other ¹	2.7	2.5	2.5
All modes of travel	100	100	100

Context for these footprints

- Density of the built form is low
- Frequency of rural bus services and poor shelter
- Poor predictability of buses
- Busy trains are efficient
- Low footprint



- Trains have poor national coverage

Context for Transport

- **Lock in to the motor car (commuter towns with double EF)**
- **Lock in to convenience** – virtually no passengers
- Recent **strong private competition** on major bus routes
- **Busy buses are efficient low transport footprint**



Context for Transport

- Locally produced **biodiesel & bioethanol - disincentivised**
- Approximately **10%** of what we buy in forecourt is biofuel
- **EV charging network** is currently unpredictable
- Charged/charging car where you need to be, **chargers busy**
- **Some not working**
- Can charge at **home**
- **EV cost is high**
- **Running costs are low**
- **Maintenance is low**
- **Car tax is low**
- **Solar PV charges car**



Transport Footprint (Foley, 2006, Carragher & Peters, 2018)

- Vehicle ecological footprint based on **km travelled, passenger numbers, and uplift** due to: maintenance of vehicle, scrapping of vehicle, road laying and maintenance.
- **Degraded land** factored in due to road and parking space
- **Average distance travelled per year is about 18,000km**
- Car EF for this is **1.3gHa**
- Bus EF for this is **1.18 gHa** (due to low passenger numbers)
- Train EF is **0.49 gHa** (some trains run beyond their design numbers)
- If buses had more passengers their EF would be lower
- **Public transport can be close to a third of the impact of the car!**

Flights

Aeroplane approximately 700km/h, **faster and travels further.**

Distance is critical as emissions are often not felt.

Low infrastructure (airport) so distances have significant impact.

Distances estimated using an electronic calculator called Mapcrow, calculates linear one way distance (<http://www.mapcrow.info>).

Fuel Tank Sizes

Car 50 L

Boeing?

100 L

1000 L

10,000 L

100,000 L

200, 000 L



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Car 50 L

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100 L

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10,000 L

100,000 L

200, 000 L

4000 times bigger, 200 passenger, 1000L each



Flights

Travelling in **economy** class reduces your footprint

No bags reduces it too

Number of passengers is critical too, this reduces pkm impacts relative to other modes

Two uplift factors one for maintenance and manufacture (1.45), and another for the extra fuel entailed in international travel (1.68) providing an uplift factor of 2.44 (Carragher, 2011)



travels 14 times further in an hour



1 hour – 50km

1 hour - 700km

Flights

One trip to Sydney can increase your transport footprint 8 fold

Destination	Distance km	Total gHa
London	938	0.06
Rome	3764	0.23
Sofia	4942	0.30
Canaries	5830	0.36
San Francisco	10156	0.74
Florida	11432	0.84
South Africa	19538	1.43
Sydney	34408	2.52

Reducing your Transport Footprint

On average a bus or train has 10 times less impact on the environment than a car per km therefore we need to walk, bus, bike and use trains more - these are sustainable choices.

Actual carbon emission figures vary according to the type of vehicle and the number of people using it. **Intercity coaches are best** – as low as **20g of CO₂** per passenger kilometre. These coaches travel long distances and often carry large numbers of passengers. This makes them the best form of travel if one wants to avoid carbon dioxide.



Reducing your Transport Footprint



Our air travel is much more polluting than our car journeys. As well as carbon dioxide, **jet engines emit oxides of nitrogen and huge quantities of water vapour** which are powerful warming agents. The contrails (stream of water vapour) in the picture are **released at an extremely damaging part of the atmosphere.** As a result of these extra emissions, it is now thought that air travel emissions are about **three times as bad** as the simple carbon dioxide output might suggest. Our flight footprint calculations are conservative and take the CO₂ emissions and degraded land into consideration only.

One return flight to the US will double the emissions of a year's car use

Reducing your Transport Footprint



There is no end to the growth of cheap air travel, it is immensely popular and many **governments are willing to build airports to accommodate air travel**. The consequence of unconstrained growth of aircraft emissions, **even at the relatively modest rate of 2.5 per cent compounded a year, is to double aircraft emissions in the next 30 years.**

Ferrys: **18g CO2 per pkm**

Short haul flights: **91g CO2 per pkm**

Long haul flights: **109g CO2 per pkm**

shorter distances travelled



Reducing your Transport Footprint

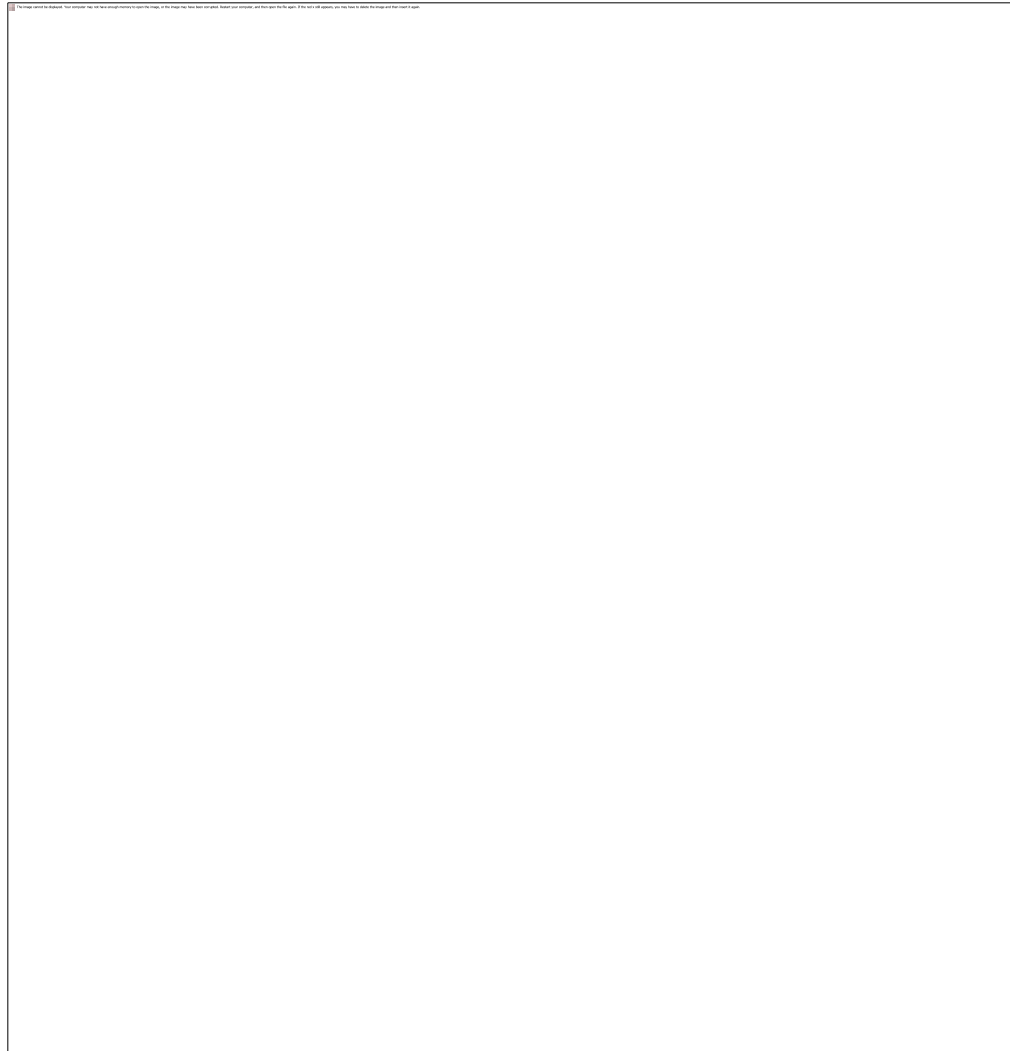


Some of the quotes of people using ferries instead of planes are: **‘It was a fun holiday’**, ‘The ferry was nice and spacious’, ‘We saw a lot more than we would on an air trip’, ‘We had some time in Nice and Lille, including a good breakfast on the way back with another family we'd met’, ‘The view of Nice and the Cote D'Azur from the boat was wonderful’ **‘We never had a moment's sense of being herded through the travel process’** & ‘There was plenty of time at every stage’.

Irish Transport Policy Since the Millenium with Policy References on right

EU-related: New Passenger Car Labelling on fuel economy rating (1999/94/EC)	2001	YES
EU-related: Promotion of Biofuels or other Renewable Fuels for Transport	2005	YES
Speed Limits	2005	YES
Transport 21- Capital investment in Infrastructure	2006	YES
Advice to Fleet Managers	2007	YES
How Clean is Your Car?	2007	YES
Emissions based vehicle registration tax and annual motor tax for private cars	2008	YES
Mineral Oil Tax (excise duty change)	2008	YES
EU Standard, 3% biofuel with 10% by 2020	2008	YES
Increase aviation efficiency through international cooperation	2008	YES
Smarter Travel Plan (investing in infrastructure)	2009	YES
National Cycling Policy Framework (increase cycling 2% to 10%)	2009	YES
EU Standards new cars 130 g (2015), 95 g CO2/km (2020)	2009	YES
Eco-driving bus & train. Efficient scheduling.	2009	YES
Private car scrappage scheme - up to €1500	2010	YES
Eco-driving Awareness Campaign	2010	YES
Electric Vehicles - €2,000-5,000 grant	2011	YES
Biofuel Obligation Scheme	2011	
EU Standards new Light Duty Vehicles 175g (2017), 147 g CO2/km (2020)	2017	YES

Recent Irish Policy – Climate Action Plan, 2019



Funding for Greenways

<https://www.gov.ie/en/news/bb7931-ministers-announce-funding-call-for-more-greenways/>

Case Study 1 – Zero Transport Emissions

Knocknacarra Cycle Bus, email: galwaycyclebus@gmail.com

Healthier

<https://www.facebook.com/pg/Galwaycyclebus/photos/?ref=page>



A dedicated school cycle bus serving the community of Knocknacarra.

Services during school term

Others: Dublin Cycle Bus, Ballina School Walking Bus

Issues with safety and car curtailment

Emissions effectively zero

Aluminium bikes have high manufacturing emissions

Lobby for improved cycle ways

A flyer for the Galway Cycle Bus. At the top, it says "Galway Cycle Bus" in blue and black text, with a colorful circular logo to the right. Below that, it says "Family school cycle". There are two small photos: one of a person on a bicycle and one of a group of people with bicycles. The date "Friday 27th September" and location "Cappagh Park" are listed. It says "Gathering from 8.05am, Departing at 8.15am". Below that, it says "An invitation to all students, parents, grandparents, neighbours and teachers to join us on our Cycling Bus for just one day!". At the bottom, there are four logos: "Cycle to school", "Cycle to work", "Park'n'cycle", and "Cycle in safety!". Below these are logos for "Galway Bay Cycling Club" and "Green Schools".

881,000 bikes in Amsterdam; more than one per person

Case Study 2 – Zero Transport Emissions

Community Bikes, Clonakilty



Case Study 3 – Zero Transport Emissions

Mheitheal Rothar, Galway City



Facebook: @AnMheithealRothar

Case Study 4 – Rural Transport – When you Need it

Clare Accessible Transport



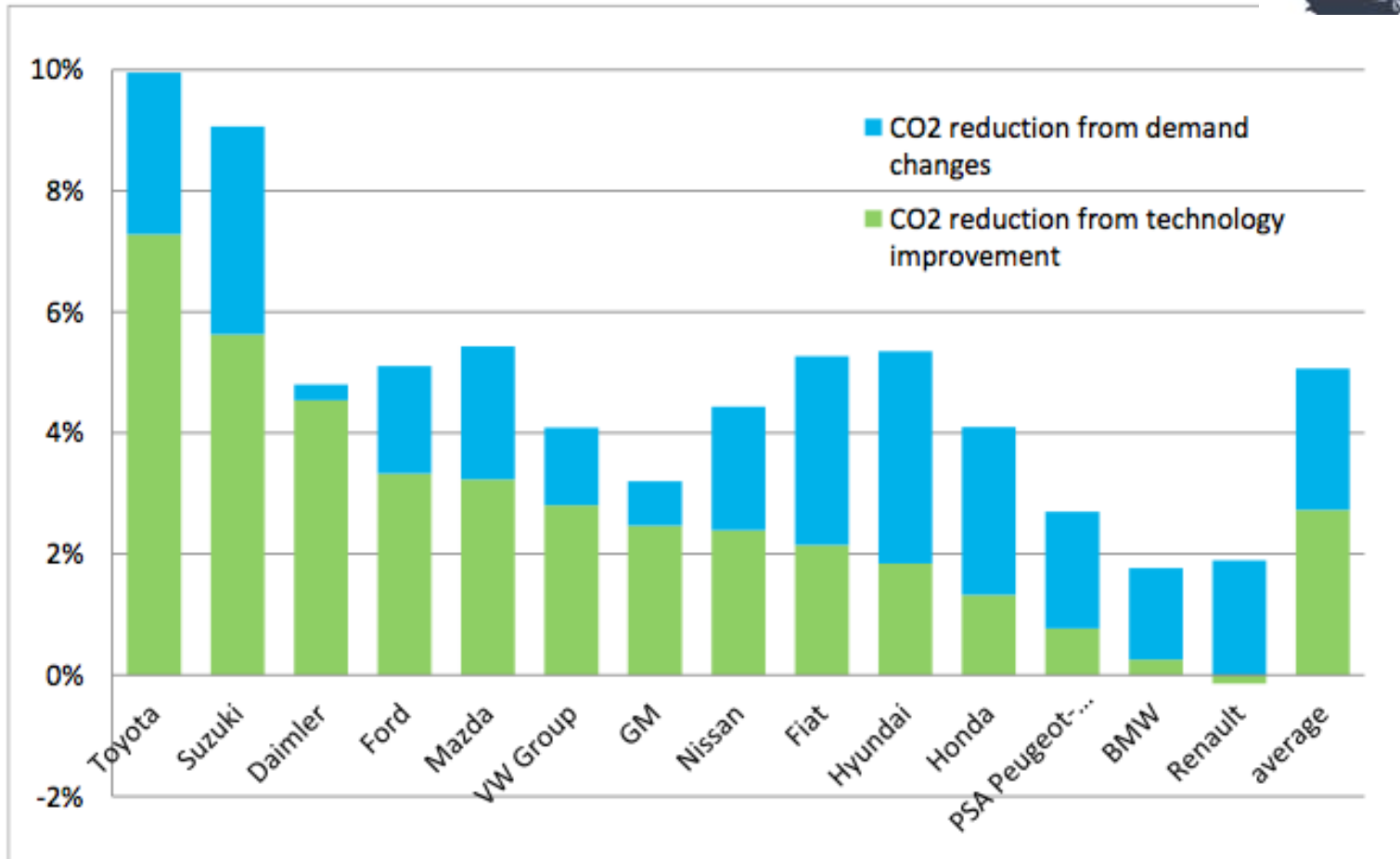
<http://clarebus.ie>

<https://locallinkmayo.ie>. - anybody used this?

Breakout Session – What is your Travel Footprint?



Decrease of emissions - 2 ways



Source: Transport & Environment 2010

Cleandrive and Eco-Driving



<https://ec.europa.eu/energy/intelligent/projects/en/projects/clean-drive>

The next 3 slides carry some of the eco-driving measures from Cleandrive – an Intelligent Energy Europe project

Reducing your Transport Footprint



Reducing the most **inefficient journeys – 3 miles or under**

Benefits the pocket and walking or cycling benefits the health

Save a tonne of CO2 and **€1000 per year by sharing your journeys,**
Cloughjordan share journeys and cars.....

For cars which turn off at traffic lights – its **best not to deactivate this**

For cars that do not automatically turn off when idling, switch off if you
will be stopped for more than **9 seconds**

Reducing your Transport Footprint

Plan ahead by combining trips (shopping, school runs etc.), use less congested routes & avoid rush hour



An energy-aware driving style can save 13% on fuel and emissions

Inflate tyres correctly to manufacturer's recommendation

Avoid harsh acceleration or heavy breaking also slowing down in good time saves fuel, **smooth style around bends**

Cars are parked 95% of the time, do you need a second car? In

Belgium neighbours buy the second car between 2 houses

Reducing your Transport Footprint

The **sun-roof** fully open consumes up to **4%** more fuel, half-open - **3%**

A roof rack can increase fuel consumption by **40%** and a **cycle rack with two bicycles** by **10% - 15%**

Use **air-conditioning** sparingly – it increases fuel costs



Rear screen heater's increases fuel consumption by **3% - 5%**, so **switch it off when the window is demisted**

Front windows half open consume more fuel at higher speeds so use the air vents instead

Reducing your Transport Footprint

Do not carry **unnecessary weights in the boot**, clean it out!

The average new car emits **120g** of carbon dioxide for every kilometre.

SUV's can emit a staggering **330g** carbon dioxide per km.

Work from home, whenever possible, and use video conferencing

Why consume 2 litres of petrol to but one litre of milk?

Before the days of fossil fuel Rudolf diesels engine ran on **vegetable oil**

& **Henry fords** first model T car ran on **bioethanol**.

Currently **10%** of our fuel mix is imported biofuel

Compare cars on sust-it.net



Reducing your Transport Footprint

Case Study I: The Foleys, Shoreside, Ballina- and their Sustainable Transport choices

Our last 3 surveys told us that Caroline and Liam have made sure that carbon dioxide emissions from their transport habits are smaller than most others in Ballina. Their small emissions have been due to their careful use of the train and buses for some of their weekly transport. In the past Caroline has used buses for 70 miles per week and trains for about 250 miles per week. This conscientious sustainable behaviour also saves time as she was able to work, read or even rest while in traffic free transit. There are times when buses and trains do not fit into our busy schedule but a small increase in their use would really help reduce our transport emissions in Ballina and bring with it the obvious benefits in terms of reduced global warming, increased social and health benefits and traffic relief. The choices made by this family have meant that their travel has caused only 20g of carbon dioxide emissions per mile instead of maybe 300g of carbon dioxide emissions per mile in an SUV car. This is 15 times better for the environment!

Case Study II: The Bourke Family, Grange Road, Ballina

For Fiona and Ger not many of their weekly car trips are inefficient, at 3 miles or under, and this reduces car fuel use and emissions. Close to 2/3's of our time while driving is spent in the car alone whereas only 1/6 of the driver's time is spent alone in the Bourke family. These transport habits are extremely sustainable and they produce over 5 times less emissions than other Ballina residents. Also walking about 10 miles or so a week saves on fuel and emissions for their family.

Buying a Low Emissions Car

Search...



Appliances

Technology

Save Energy

Motoring

UK Travel



Annual running cost
£395.32



All vehicles running costs* - miles per gallon (mpg), fuel efficiency/emissions

Vehicle type:

All

Fuel type:

All

Set fuel costs & mileage

*calculation criteria

Journey Cost Calculator



Manufacturers: All

Engine: All

Ranked by fuel efficiency

CO₂ g/km

Vehicle tax

Cost / mile

Cost / year

1

<https://www.sust-it.net/miles-per-gallon-mpg-fuel-efficient-cars.php>

Electric Vehicle Running Costs and Grants

- EV - **lowest car tax** at €120
- EV – for every €10 it costs to run a diesel its just **€2.60 to run an EV**
- EV and plug in hybrid **grants** <https://www.seai.ie/grants/electric-vehicle-grants/> can be €2-5,000, depends on cost of EV
- EV **home charger grant** – up to €600
<https://www.seai.ie/grants/electric-vehicle-grants/electric-vehicle-home-charger-grant/>
- EV **business cars** <https://www.seai.ie/blog/electric-car-for-business/>

Electric Vehicle Running Costs and Grants

- EV Car comparison resource (EVs and Hybrids)
 - **sust-it.net**
 - <https://www.seai.ie/grants/electric-vehicle-grants/grant-eligible-cars/>
- Range anxiety early Nissan Leaf 2012 – 140km per charge
- **New Leaf (385km), Hyundai Kona, Kia Soul > 400km on a charge.**
- **Peugeot 106, Opel Corsa and Renault Zoe less expensive <300km**
- Always leave home with **enough charge to get back**
- **Charging is free** (except for fast charge), as is the **parking, tolls** too soon!

Mayo County Council Electric Vans (CARO, 2019)



January 2019, CEO of Mayo County Council, **Peter Hynes**:
“..... I am proud that we are moving on to the next phase of the transformation of this organisation to being more **energy efficient, greener, more environmentally aware and more environmentally friendly**”.

12 EV's on Inis Mor



Population 845

Hybrid Urban versus Rural

Worldwide Harmonized Light-Duty Vehicles Test Procedure

Toyota Prius

Battery Range: 63km

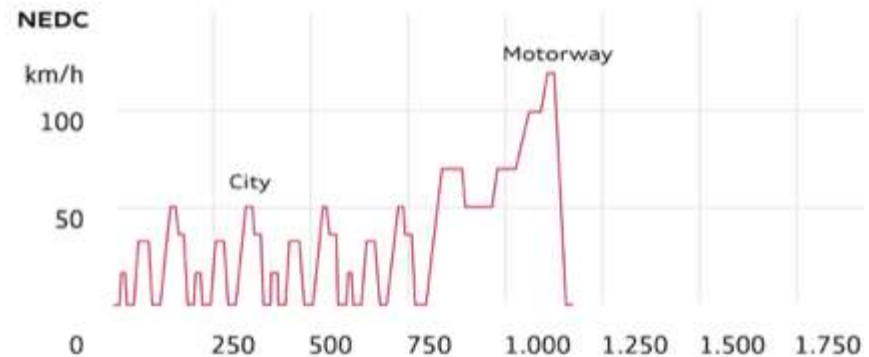
Petrol: 1798cc

Kerb weight: 1317kg

Renault Megane

Kerb weight: 960kg

New WLPTP Testing



Hybrid performs best under the WLTP conditions. But if it was just motorway driving do you think the hybrid which is **38% heavier** would be more efficient?

Buy a car with a low CO₂ per km but also **low weight** if you drive large distances mostly, for urban driving hybrids are very good.



**DRIVE
FOR
GREEN**



Route - Ireland (Mayo) – UK – France – Belgium – Netherlands – Germany – Denmark – Sweden – Finland - Russia – Kazakhstan
– Mongolia – China – Russia – USA – Canada - Greenland – Iceland – Ireland (Mayo)

*It will be fantastic to have an opportunity to **showcase your business’s commitment to Climate Action and Sustainability** in an innovative, exciting and positive way!



National and Regional TV

Late Late Show

Radio and Newspapers

Social Media Influencers of 10,000,000+ followers

Guarantee



THE IRISH TIMES





Intelligent Energy Europe Project

<https://ec.europa.eu/energy/intelligent/projects/en/projects/bio-nett>

Developed local biofuel chains, Rapeseed Oil farms and refining, PPO in MWRA, South Tipperary, Limerick and Cork. The Biofuels Obligation Scheme and its licensing favoured import, not indigenous oil, and has killed the farms and the processing plants.

Biogas plant in Murcia uses wastewater to produce methane and runs 4 vehicles at 420km each.



Biogas in Kalmar (60,000 people) runs 15 buses and enough for 300 more cars

Case study for a Hydrogen car in Ireland

‘A Hydrogen Roadmap for Irish Transport 2020-2030-Hydrogen Mobility Ireland’.

The report presented in Dublin to Richard Bruton, TD, Minister For Communications, Climate Action and Environment gives the green light to hydrogen vehicles including **30 buses, 50 cars and 10 trucks being on Irish roads by 2023.**

Here is the Hydrogen car which We drove with the **Minister of DCCAE** – he was impressed!

Projects like **GENCOMM**

<https://www.nweurope.eu/projects/project-search/gencomm-generating-energy-secure-communities/#tab-4>



Case study for Hydrogen Solutions on the Aran Islands

Fostering renewable energies and energy efficiency



[Project website: http://www.seafuel.eu](http://www.seafuel.eu)

- **Feasibility on Valentia Island**
- **Feasibility on Inis Mor**

Feasibility for Hydrogen Solutions on the Aran Islands



The Orkney Hydrogen Economic Strategy

SEAFUEL



Local authority Orkney Islands Council

Local authority area population 22,000

Services Environmental Health; Roads; Social Work; Community Development; Organisational Development; Economic Development; Building Standards; Trading Standards; Housing; Waste; Education; Burial Grounds; Marine Services (acts as harbour authority for islands' 29 piers and harbours)

Orkney Island Case Study

<http://www.seafuel.eu/wp-content/uploads/2019/10/Orkey.pdf>

Cloughjordan Ecovillage, Tipperary

- Car inhibition, impeding – narrow roads, slow progress
- Inconvenient - shopping
- Planning
- EVs
- Train Station
- Go-car
- Journey sharing
- Car sharing



Sliabh Beag Community Hotel, Monaghan – Why Fly?



Reducing tourist distances, keep recreation local

Community Fund – supports Sustainable Transport

2020 call has opened its €20 million fund, if your community needs homes and community buildings retrofitted then review this link: <https://www.seai.ie/grants/community-grants/project-criteria-and-funding/>

2019 call results

In 2019, SEAI supported 57 projects under the Communities scheme. €25.3million is the total government funding invested. This will help support energy efficiency upgrades in 698 homes and 570 non domestic buildings. Total project costs will come to €65.8 million.

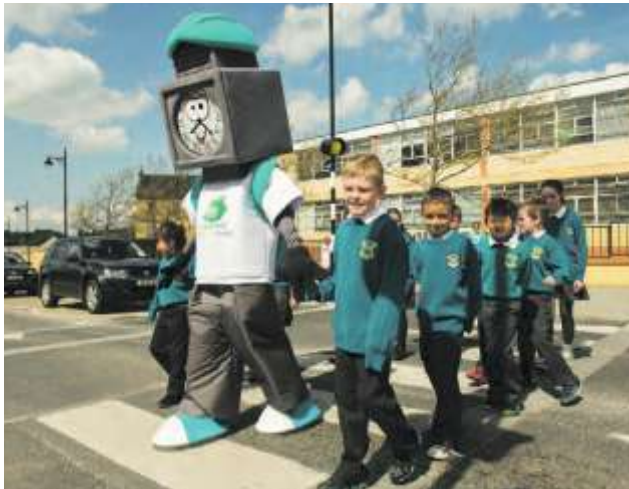
Cumulatively the programme has now supported upgrades in 18,200 homes and 2,570 non-domestic buildings.

34,676 tonnes CO₂ emission reductions annually

122.5 GWh total energy credits saved (obligated energy suppliers)

Case study – Smarter Travel

- Westport was chosen as a winner in a national Smarter Travel competition and allocated funding
- **€5.3 million** funding to transform Westport 2012- 2016.
- **Changing infrastructure, and developing campaigns and incentives to change attitudes and perceptions.**
- **Aimed to reduce car transport**



Case study – Smarter Travel



<http://www.westportsmartertravel.ie>

Case study – Smarter Travel

WESTPORT Town Council and Mayo County Council, by way of a plan to adapt and redesign the natural and built environment, won a bid for Westport to become a Smarter Travel Demonstration Town. This provided the resources to further utilise an old railway line linking the town centre to the Quay area.

The end result today is greenways and pathways encircling the town linking residential areas to schools, work places and the commercial centre. These new greenways have set a precedence in reshaping the design of urban areas to promote health and well-being. The greenways offer a viable alternative to the car in preference of cycling and walking.

Not since the 1970's has a safe, convenient and useful method of transport existed since cars and trucks took over the roadways of Ireland.

Darren Cawley



Use the Westport Town Greenway for enjoyable and safe trips to town by foot and by bike.

Download the Westport Town Greenway map here



<http://www.westportsmartertravel.ie>

Case study – Smarter Travel

A PERSONAL STORY

FOR me personally I cannot overstate the benefits of cycling both on a standard bike and an electric one. In recent years I have suffered from various health problems and also had a major accident. Truthfully, cycling has been an absolute lifeline. It's been my physio and my favourite leisure activity. Recently I've been testing out the electric bike and find it particularly beneficial on the days when my pain level is highest. I would recommend cycling to everyone.

- Richard Bermingham



► Noel Gibbons, Mayo Road Safety Officer, enjoying a cycle around Westport with his daughter Aisling.



▲ Ben Cooper leads the Legends Cycle into Louisburgh last week.

Breakout Session – What can we do to reduce transport footprints?



Breakout Session – What can we do?

What can individuals and communities do to reduce their transport footprints?

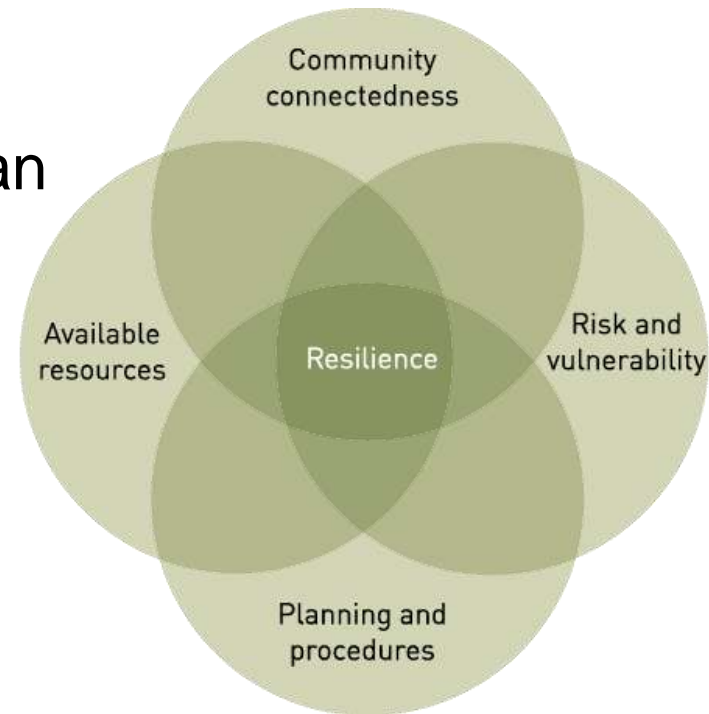


Your ideas?

Breakout Session – What can we do?

Resilience is strengthened when you work with your Local Authority and generate and submit to plans, local, regional and national:

1. Community Futures Plans
2. County Development Plans
3. Climate Mitigation Strategy Plan
4. Local Economic and Community Plan
5. Biodiversity Management Plan
6. Peatland Management Plan
7. Conservation Action Plan (CANN)
8. Surface Water Management Plan
9. Neighbourhood Climate Action Plan
10. Business Continuity Plan
11. Community Resilience Plan
12. Invasive Species Management Plan





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