



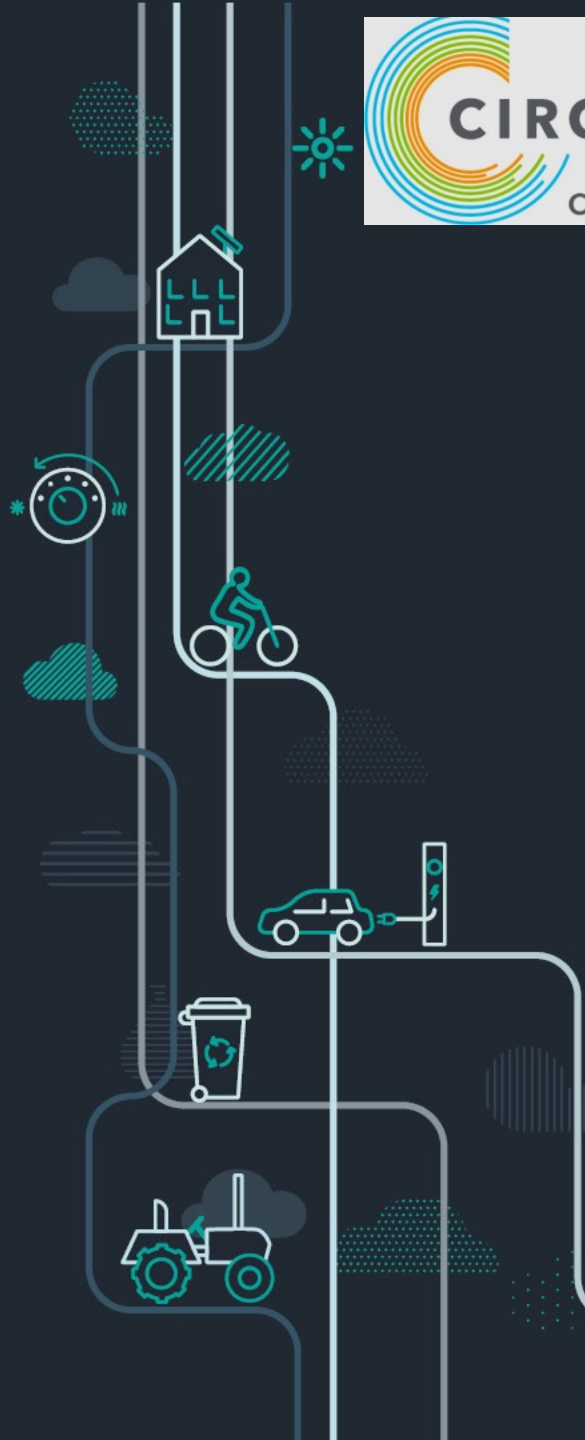
PEOPLE, PLANET, PROSPERITY
LEADING GOVERNMENTS USING
PROCUREMENT TO ACCELERATE
CIRCULAR ECONOMIES



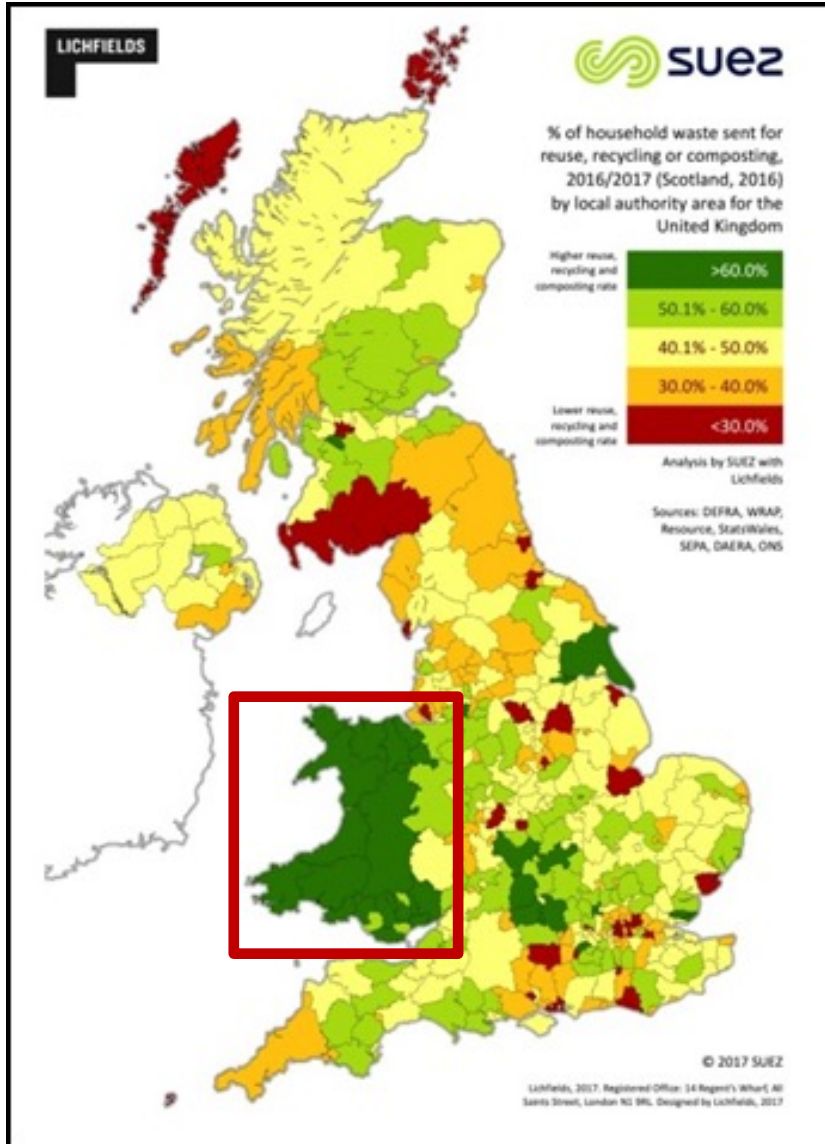
How the Welsh Government is leveraging public sector procurement to accelerate a circular economy

Dr Andy Rees OBE
Resource Efficiency & Circular Economy Division
Welsh Government

Cenedl fach, gydag uchelgais fawr • A small country with big ambition



Wales on the map!

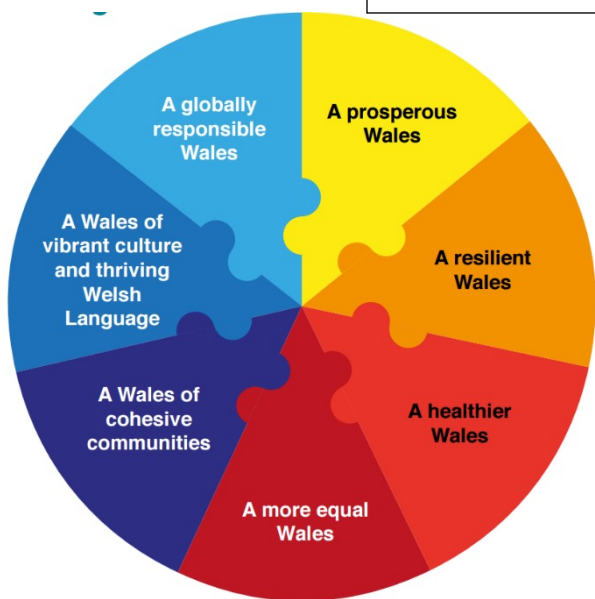


Wales:

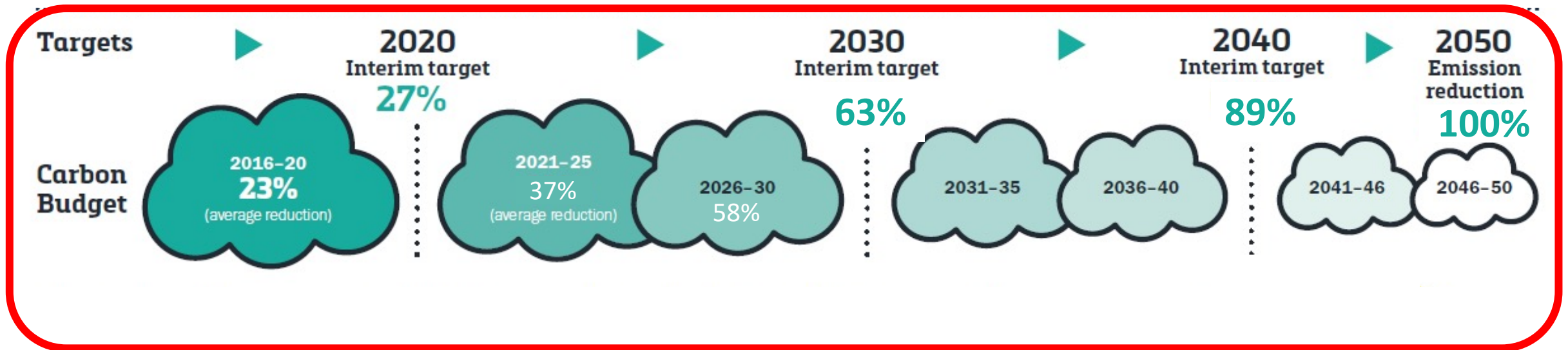
- ~3 million people
- 22 Local Authorities, with responsibility for the collection and management of household and some commercial waste
- Own Parliament and Government since 1999
- Sustainable Development duty
- Responsibilities include waste policy and delivery
- Powers to develop waste Acts and Regulations
- Ability to set environmental taxes
- Responsible for Landfill Disposals Tax for Wales from 2018

Well-being goals for Wales

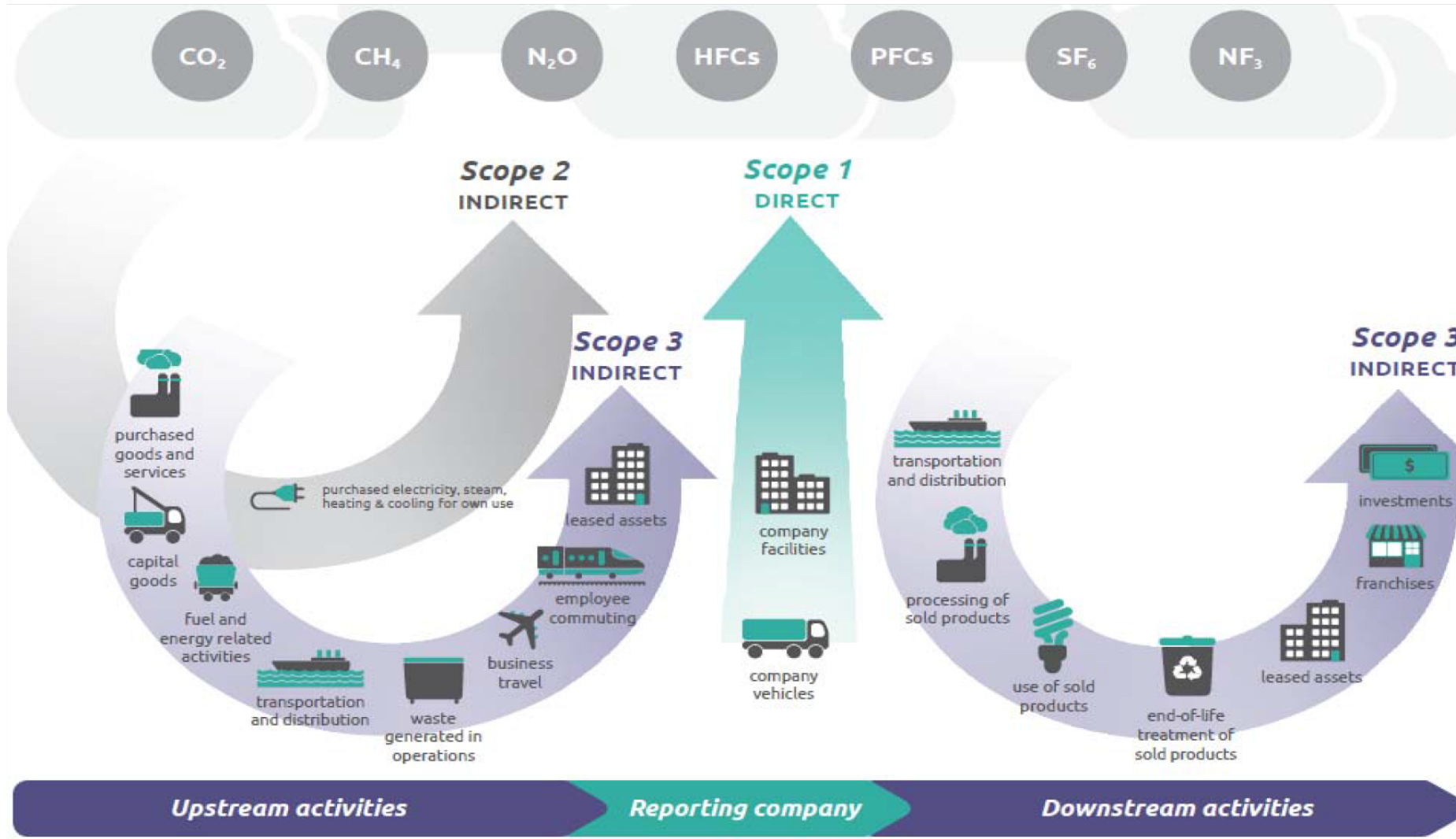
A prosperous Wales. An innovative, productive and **low carbon society** which recognises the **limits of the global environment** and therefore **uses resources efficiently** and proportionately (including **acting on climate change**); and which develops a skilled and well-educated population in an economy which generates wealth and provides employment opportunities, allowing people to take advantage of the wealth generated through securing decent work.



The pathway for Wales to meet net zero – Dec 2020 Committee on Climate Change (CCC) Advice



Types of emissions – Green House Gas Protocol



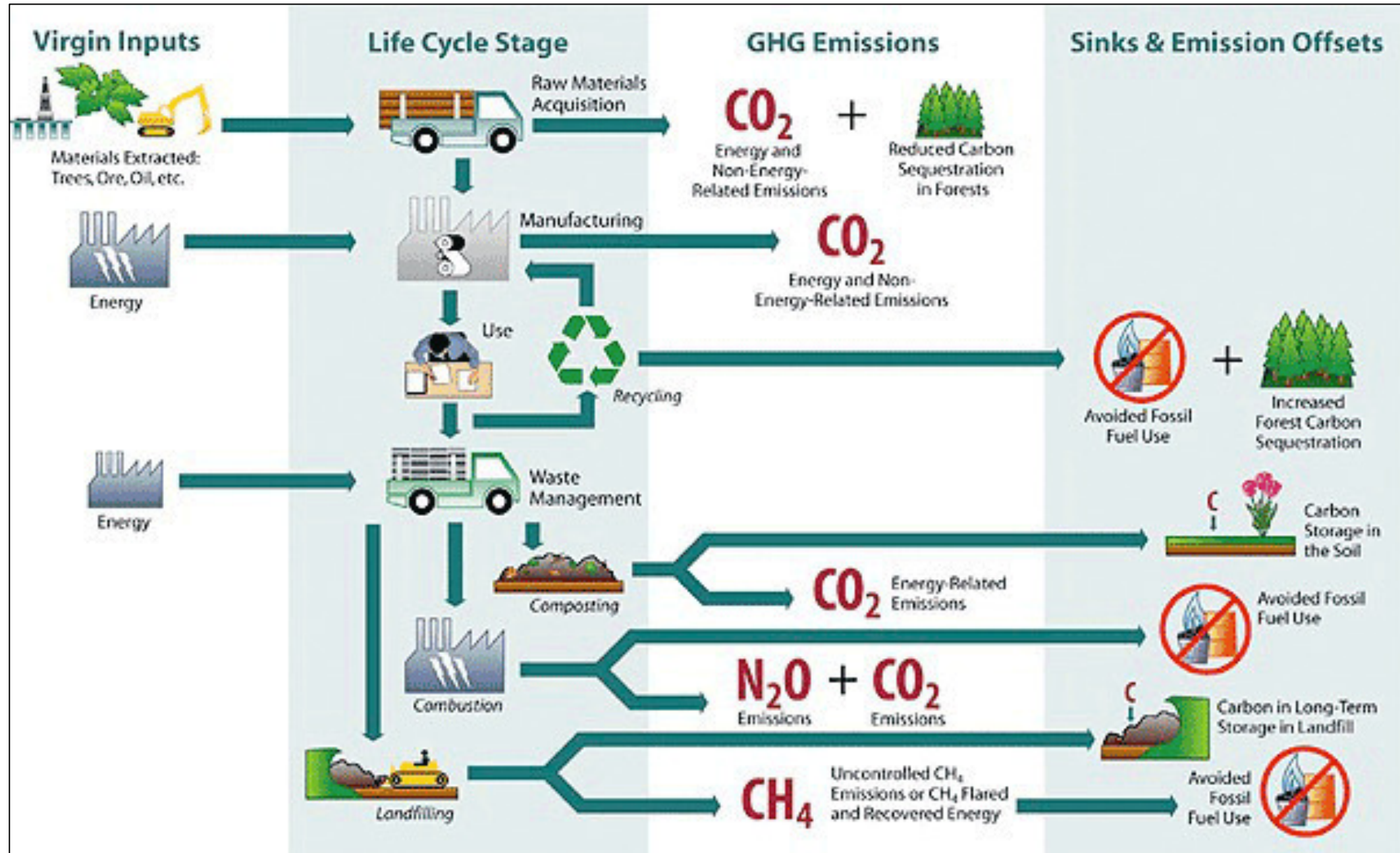
Greenhouse Gas Protocol:

a) Scope 1: “Direct emissions from own or controlled sources”;

b) Scope 2: Indirect emissions from the generation of purchased electricity, steam, heating and cooling consumed by the reporting company; and

c) Scope 3 “All other indirect emissions that occur in a company’s value chain.”

The full product and waste life cycle emissions of greenhouse gases



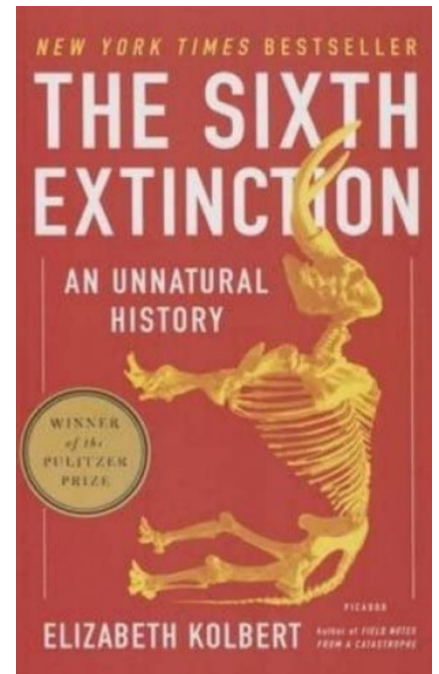
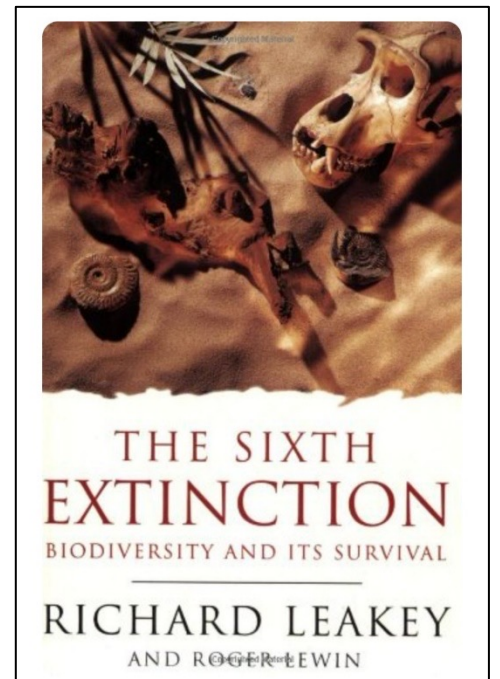
What is 'embedded carbon'?

What do we mean by low carbon products?

Embedded carbon is the carbon footprint of a material. The carbon footprint is the sum of all the carbon dioxide emissions associated with the energy used to process the raw materials and then manufacture and transport the product. Using low-carbon products reduces the strain on our natural resources, and can actually save money relative to mainstream equivalents. Additionally, the supply of such products is more likely to remain stable. Low embedded carbon products could include Welsh timber or seasonal food products sourced from the region.

The “sixth extinction” – catastrophic loss of species

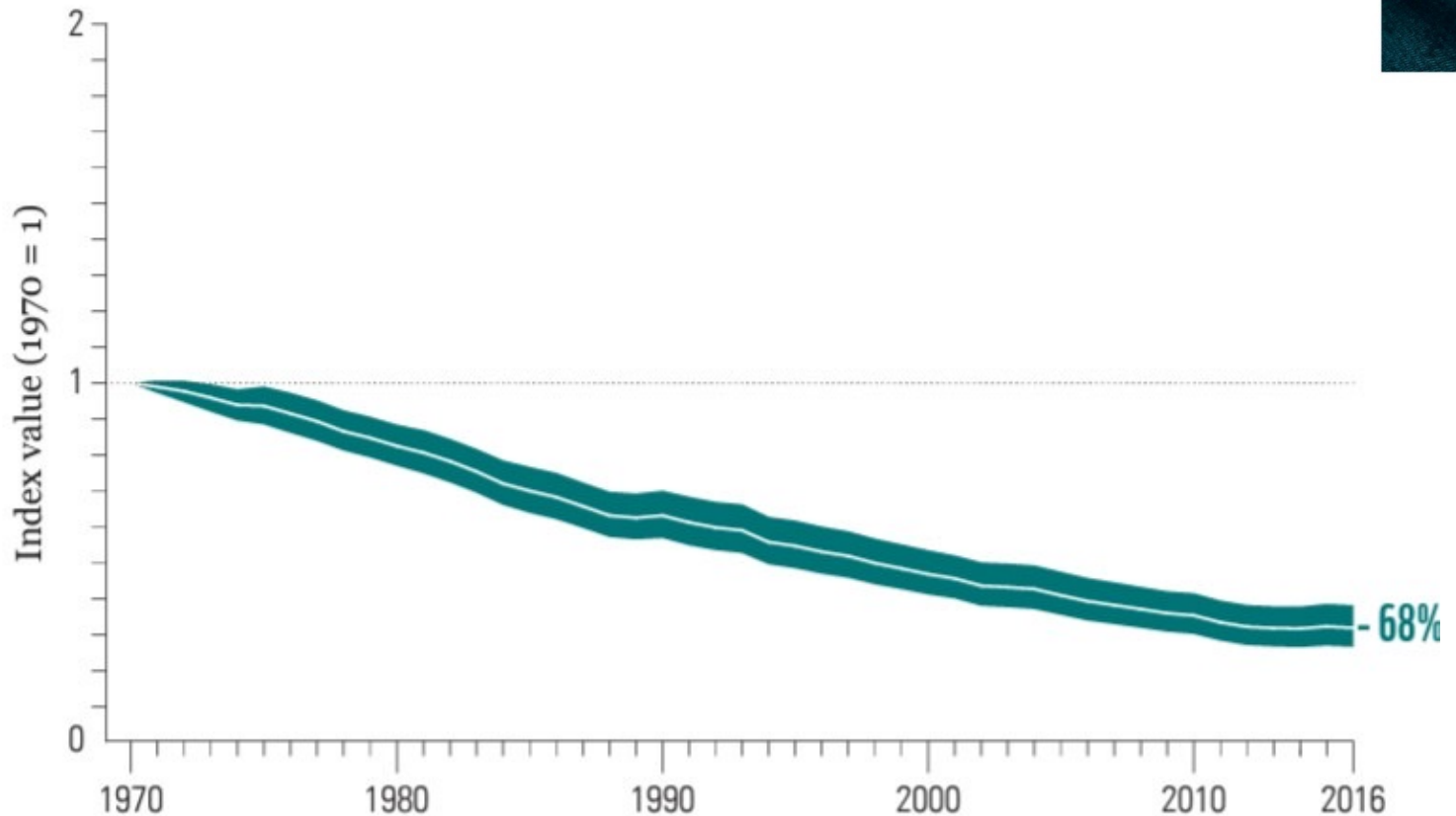
The impact of the ‘stuff’ we buy
and throw away



Catastrophic decline in key indicator species



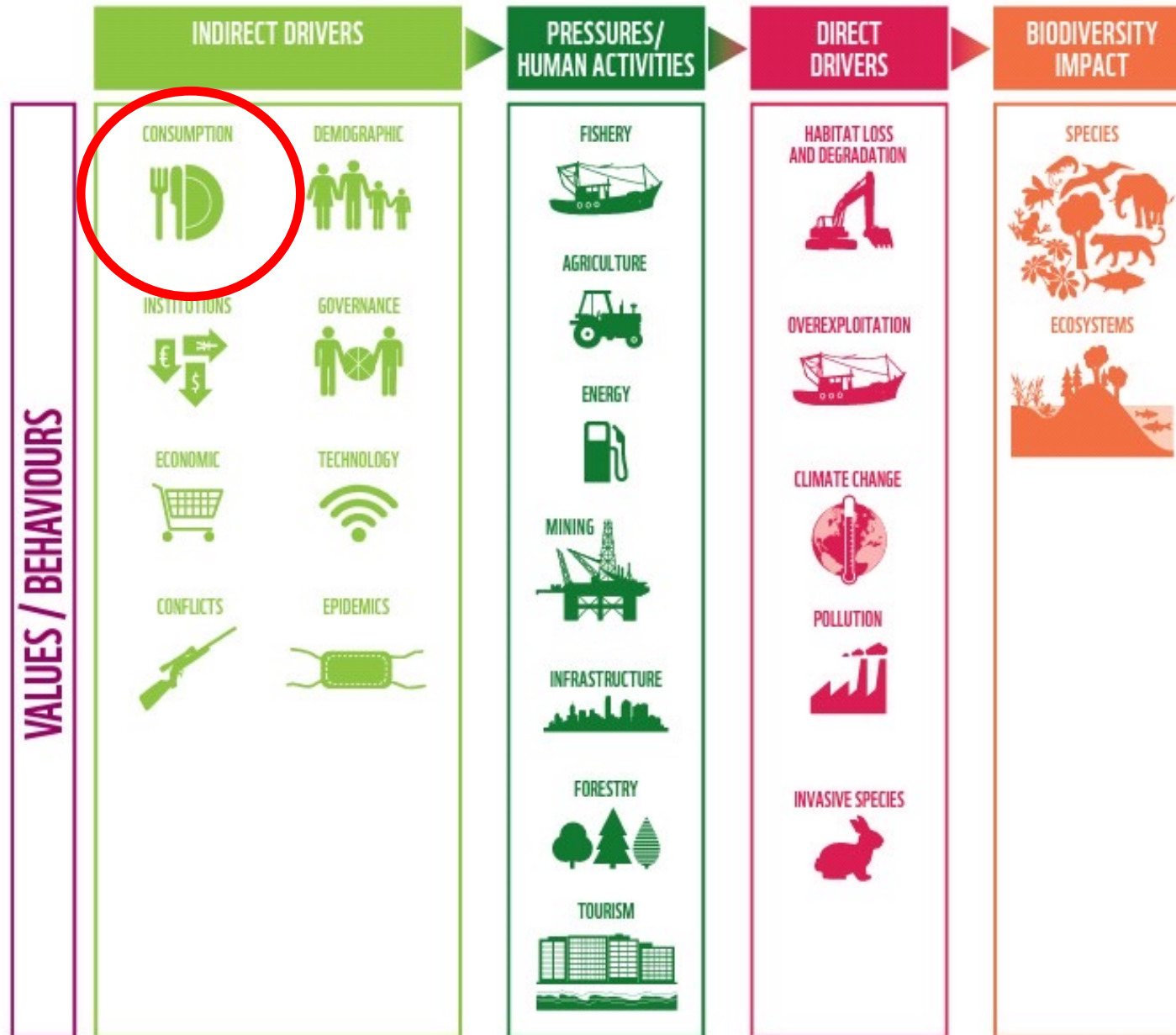
Figure 1: The global Living Planet Index: 1970 to 2016
Average abundance of 20,811 populations representing 4,392 species monitored across the globe declined by 68%. The white line shows the index values and the shaded areas represent the statistical certainty surrounding the trend (range: -73% to -62%).
Source - WWF/ZSL (2020)¹⁰⁷.



Key

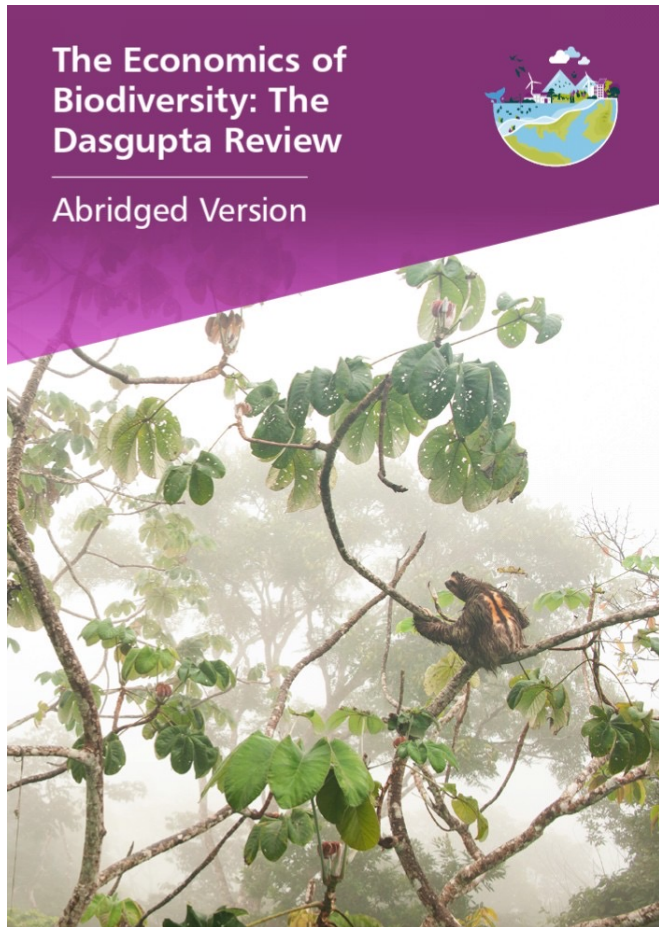
- Global Living Planet Index
- Confidence limits

Threats to nature and the drivers and pressures behind them

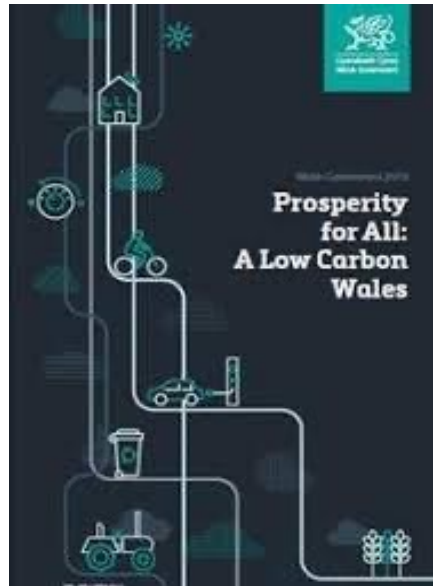


The Dasgupta Review on the Economics of Biodiversity (loss)

Figure 21 Summary of Options for Change

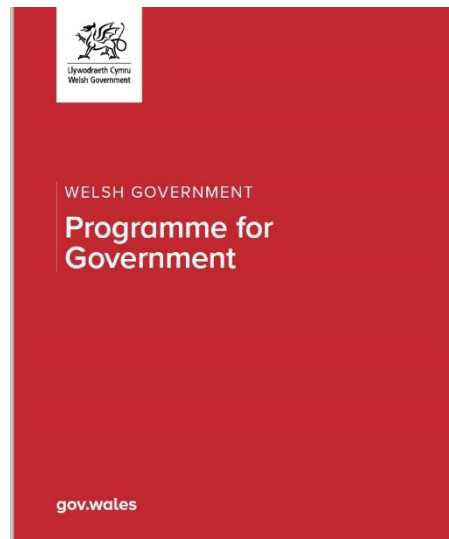
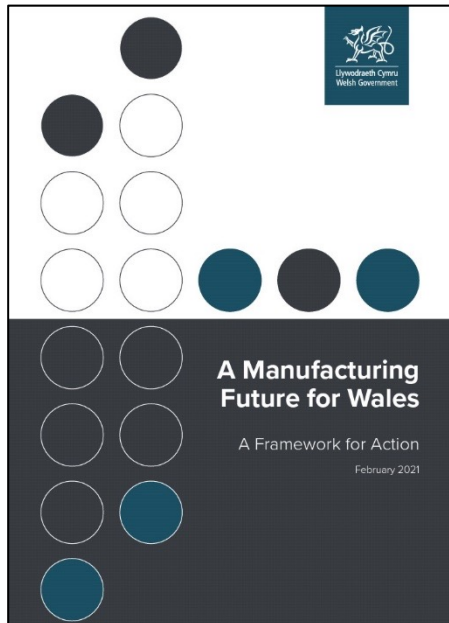


What have we set out to do? – joining up



Circular Economy and Net Zero Carbon objectives and actions set out in:

- Natural Resources Policy
- Economic Action Plan 2017
- Prosperity for All: A Low Carbon Wales
- Manufacturing Action Plan 2021
- Planning Policy Wales 2021
- Procurement Policy Statement 2021
- Programme for Government 2021
- Circular Economy Strategy for Wales (March 2021)



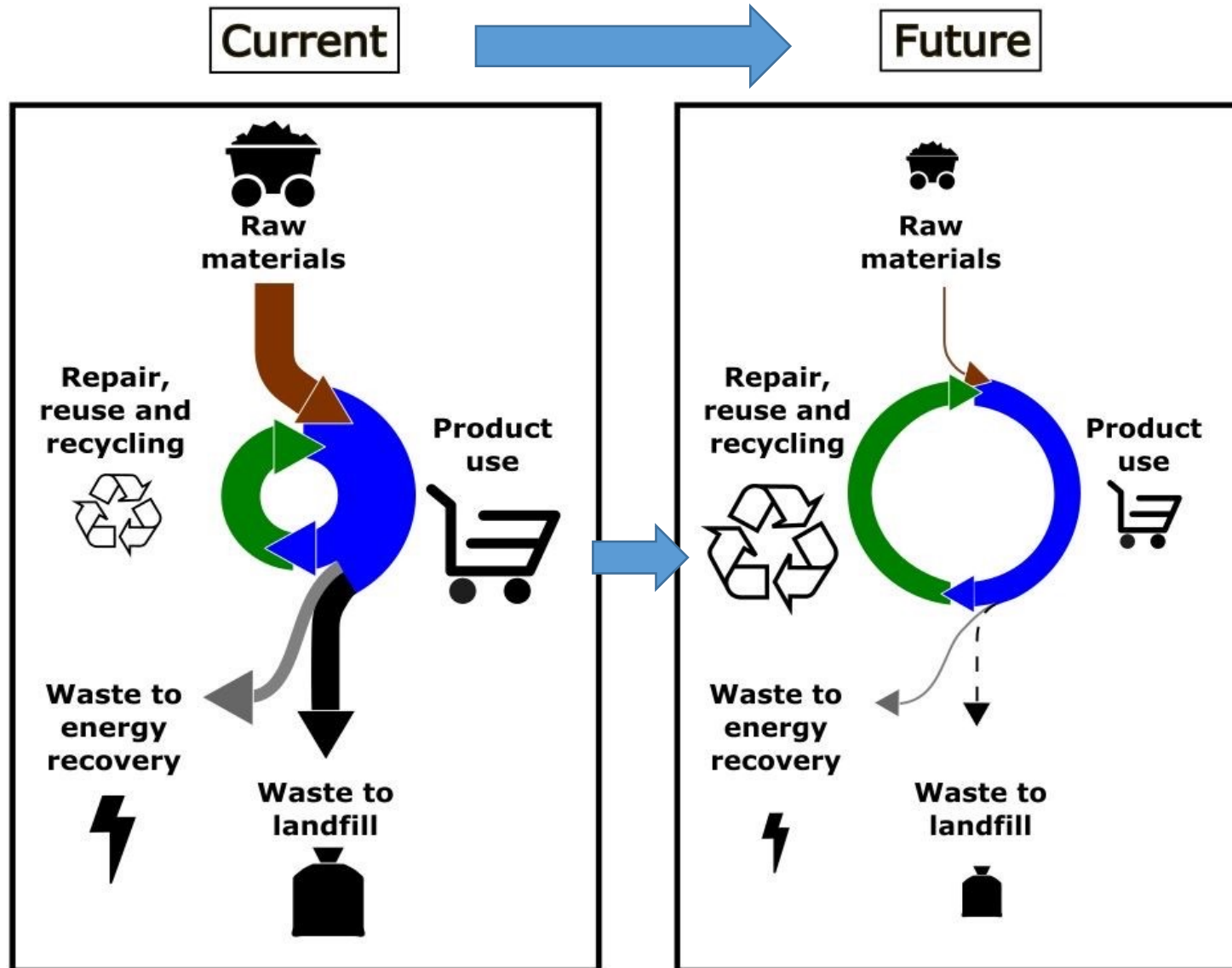
Our pathway in Wales to 2050



The strategic objectives have been set:

- A net zero carbon Wales by 2050
- Use only our fair share of the earth's resources by 2050 ('one planet' resource use)
- Zero waste (100% recycling) by 2050
- A transition to a more circular economy where we keep resources in use and avoid waste as part of our journey towards one planet resource use and zero carbon

Our ultimate goal for 2050 – using only our fair share of the Earth's resources - One Planet



Why the 'one planet' target?

- Moral imperative – it's what is fair
- Well-being of Future Generations Act – 'A Globally Responsible Wales'
- Almost half of our overall global carbon emissions relate to the products we have purchased – embedded 'Scope 3' carbon emissions
- Global competition for natural resources
- Self sufficiency and resource efficiency increase resilience
- We only have one planet – it sustains us with the oxygen, water and food we need to survive

How we will get there: The Six Core Themes



How we will get there: Eight Headline Actions



1

We will support businesses in Wales to reduce their carbon footprint and become more resource efficient.



2

We will provide the tools to enable community action.



3

We will phase out unnecessary single use items, especially plastic.



4

We will eradicate avoidable food waste.



5

We will procure on a basis which prioritises goods and products which are made from remanufactured, refurbished and recycled materials or come from low carbon and sustainable materials like wood.



6

We will strive to achieve the highest rates of recycling in the world.



7

We will reduce the environmental impact of the waste collection from our homes and businesses.



8

We will take full responsibility for our waste.

Why is public sector procurement a big deal – example National Health Service (NHS) Wales Decarbonisation Strategic Delivery Plan 2021



NHS Wales Decarbonisation Strategic Delivery Plan

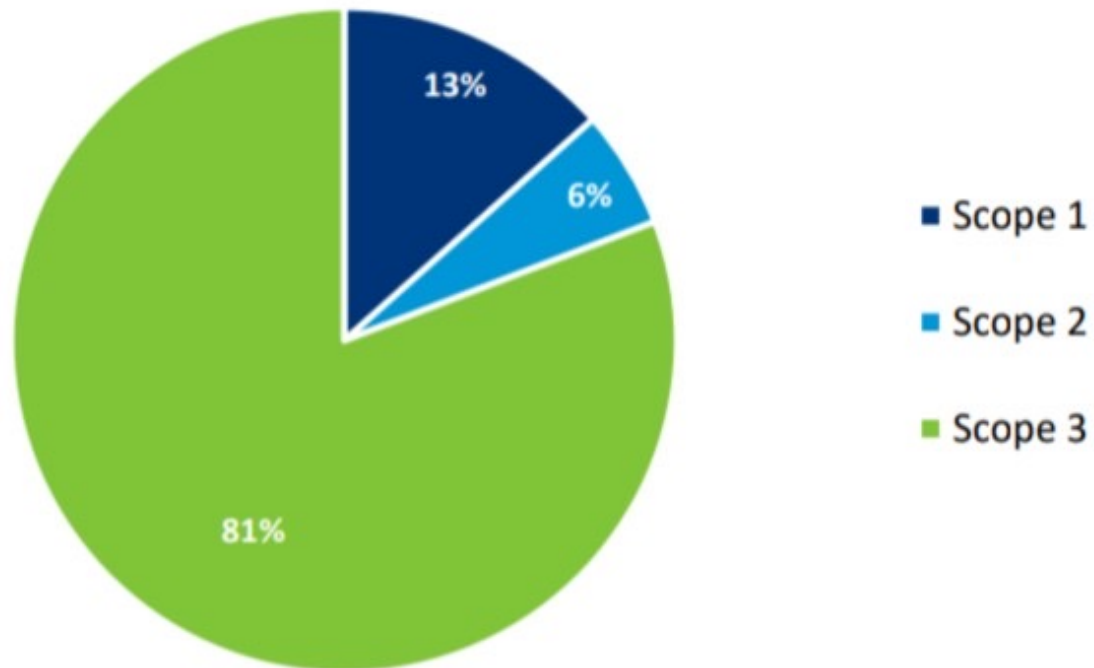
2021-2030

(including Technical Appendices)

Published March 2021

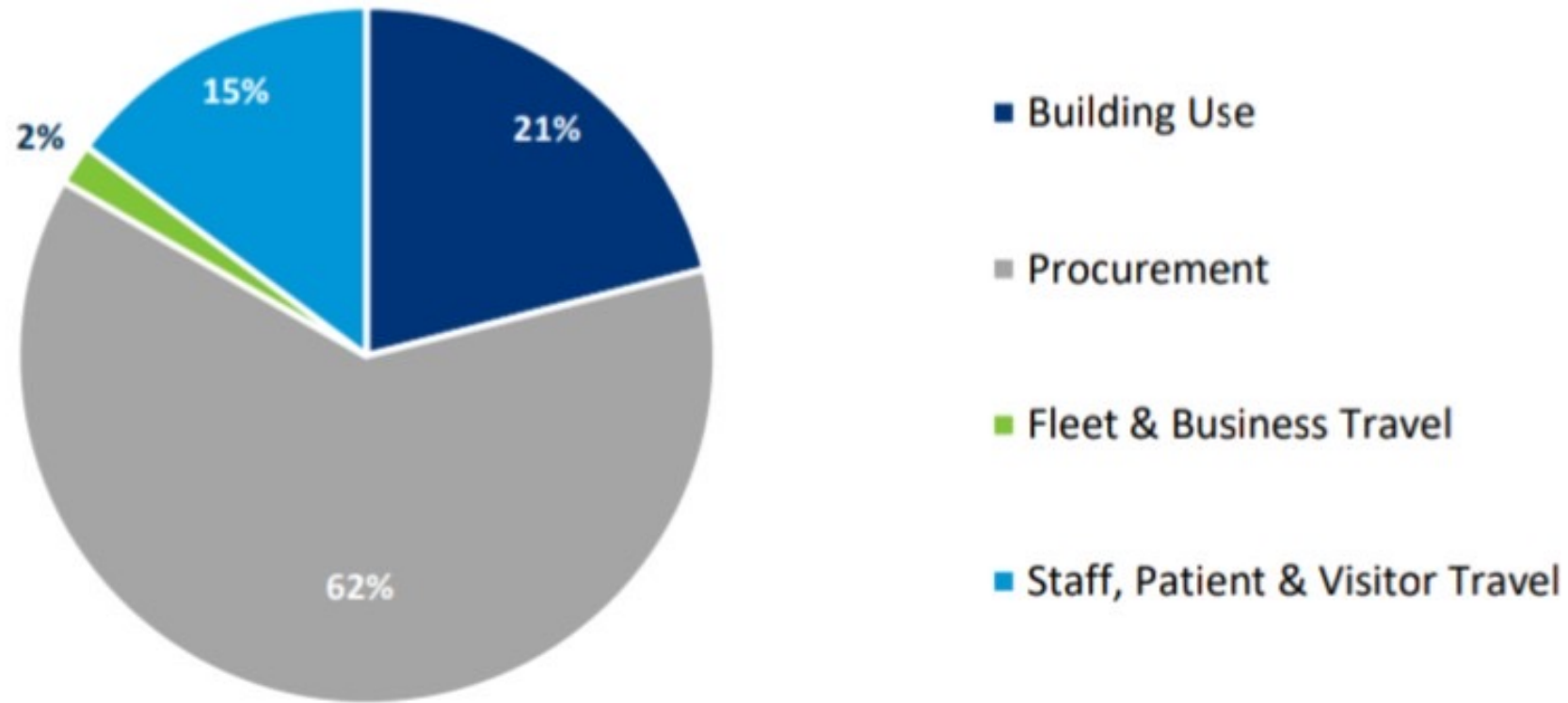


NHS Wales Carbon Footprint by Scope 2018/19

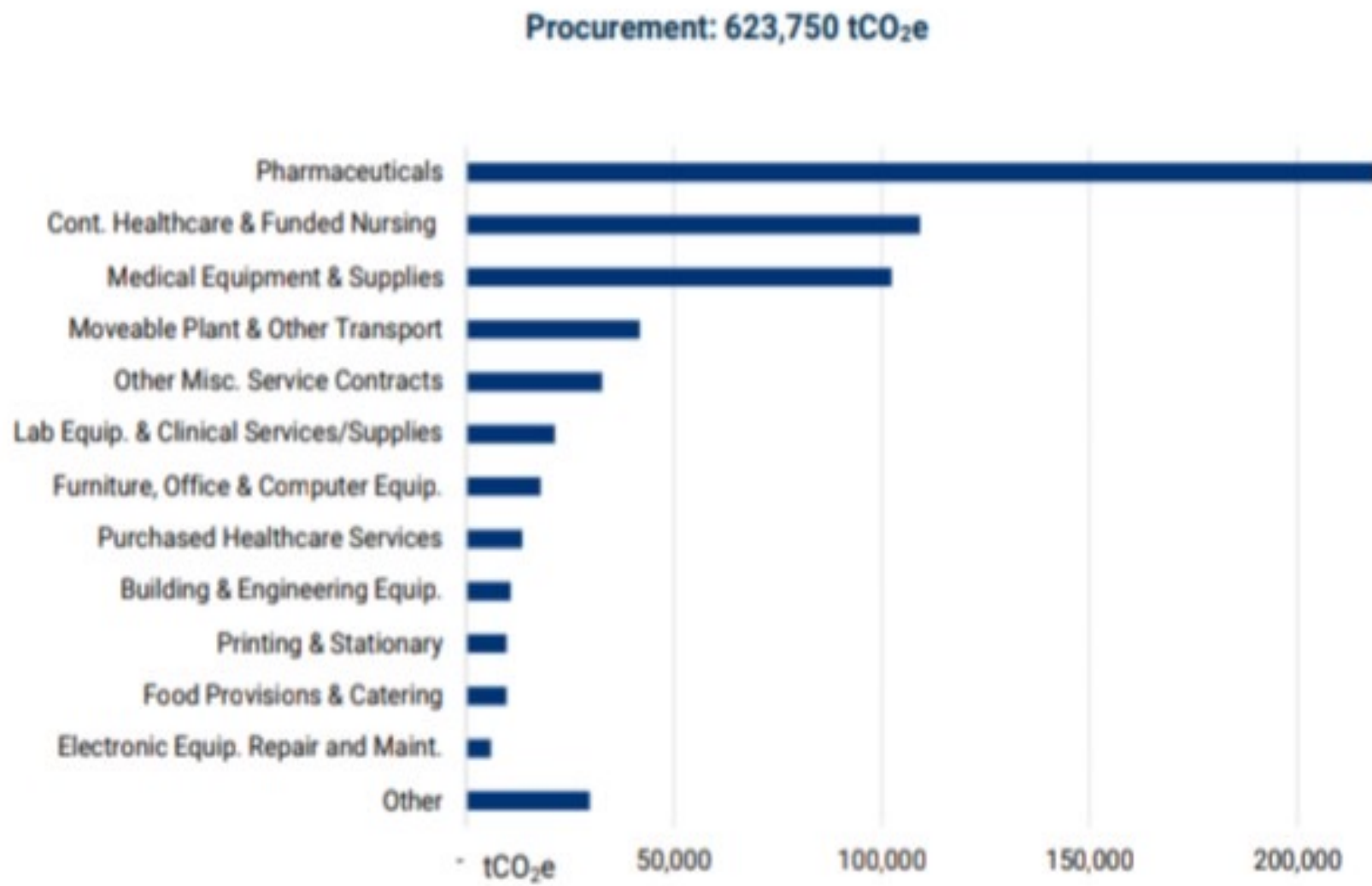


NHS Wales Decarbonisation Plan 2021

NHS Wales Carbon Footprint by Category 2018/19



NHS Wales Decarbonisation Plan 2021



1. Driving innovation and materials use

In addition to our headline actions, we will also:

1) Prioritise the use of sustainable and low carbon materials in construction in Wales to support progress towards whole life net zero carbon for construction projects.

2) Build on the experience of the foundational economy focus on local and regional procurement, ask all public sector bodies funded by the Welsh Government to follow a sustainable materials procurement hierarchy, including achieving a minimum level of recycled content by value.

3) Adopt a whole-life approach to financial, carbon and overall environmental costs in public sector procurement. We will aim to reduce the material and consumption carbon footprints of core services such as health and social care, and education.



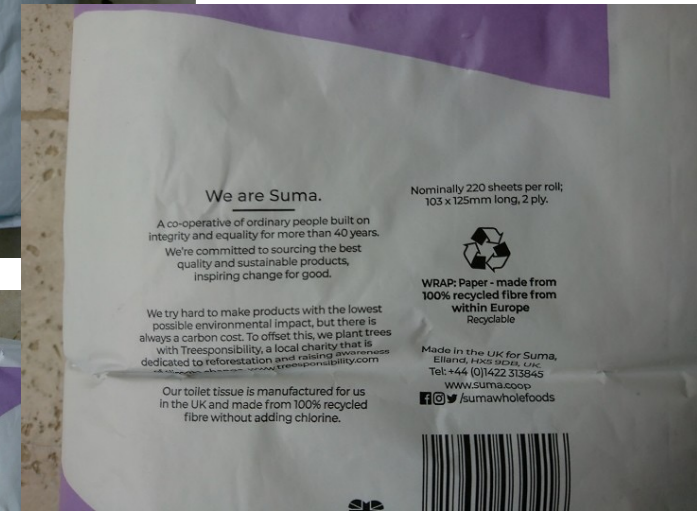
Beyond Recycling

A strategy to make the circular economy in Wales a reality

Welsh Government

Driving
innovation
and
materials
use

Easy wins – high recycled content!



2. Upscaling reduction and reuse – production/ manufacturing and resource efficient business models

In addition to our headline actions, we will also:

1) Promote sharing, waste prevention and re-use and support the re-use, repair and remanufacturing sectors to grow in our communities and town centres. .

2) Pilot a re-use platform which will allow those in re-use markets to connect with the public and third sectors to access refurbished, recycled and remanufactured goods rather than buying new products.

3) Increase the public sector's donation of surplus equipment, including to other countries who cannot readily access such equipment and who can benefit from its use.

4) Produce less waste during the construction, refurbishment and at the end of the life of public sector buildings.



RE-THINK ALL THE RE-S! – Eg: Re-use, re-pair, re-manufacture, re-engineer, re-purpose, re-fill etc



Paint 360 Best Practice for Paint

In the UK an estimated **55 million litres of paint** a year is sent to landfill or incinerated. Paint is too valuable resource to waste. Paint360 contract emulsion has a minimum 95% recycled content.

Waste paint is re-engineered into a quality product to compete with leading brands on quality and price available nationally

1 litre saves enough embedded carbon to drive a transit van 5 miles carbon free

Paint is received nationally from House Waste Recycling centres at our dedicated waste paint transfer station. Every can is opened stirred and tested for quality. Sorted by type, colour, brand and recorded for traceability.

Social enterprise focused - we are committed to creating job opportunities for young people with barriers to employment as the core of our workforce.

Available through **Travis Perkins**. Save money, lower carbon and increase **closed loop recycling**

Logos: Wates, VOO, BCF, paint360



CYNWYSYDDION CLUDFWYD
ECOGYFEILLGAR
ECO-FRIENDLY
TAKEAWAY CONTAINERS

Cynhwysydd Cawl
Soup Container
£3.25

Cynhwysyddion cludfwyd sy'n addas ar gyfer bwyd poeth ac oer
Take out containers suitable for hot or cold food items
£4.60

Theme 3: Building on our recycling record

We will bring forward regulations to require all non-domestic premises to separate key recyclable materials like households already do.

Separate recycling containers will be required for:

- 1) Food waste
- 2) Paper and card waste
- 3) Metal and plastics waste
- 4) Glass waste
- 5) Textile waste
- 6) Small waste electronic and electrical equipment

Food waste to sewer will be banned.



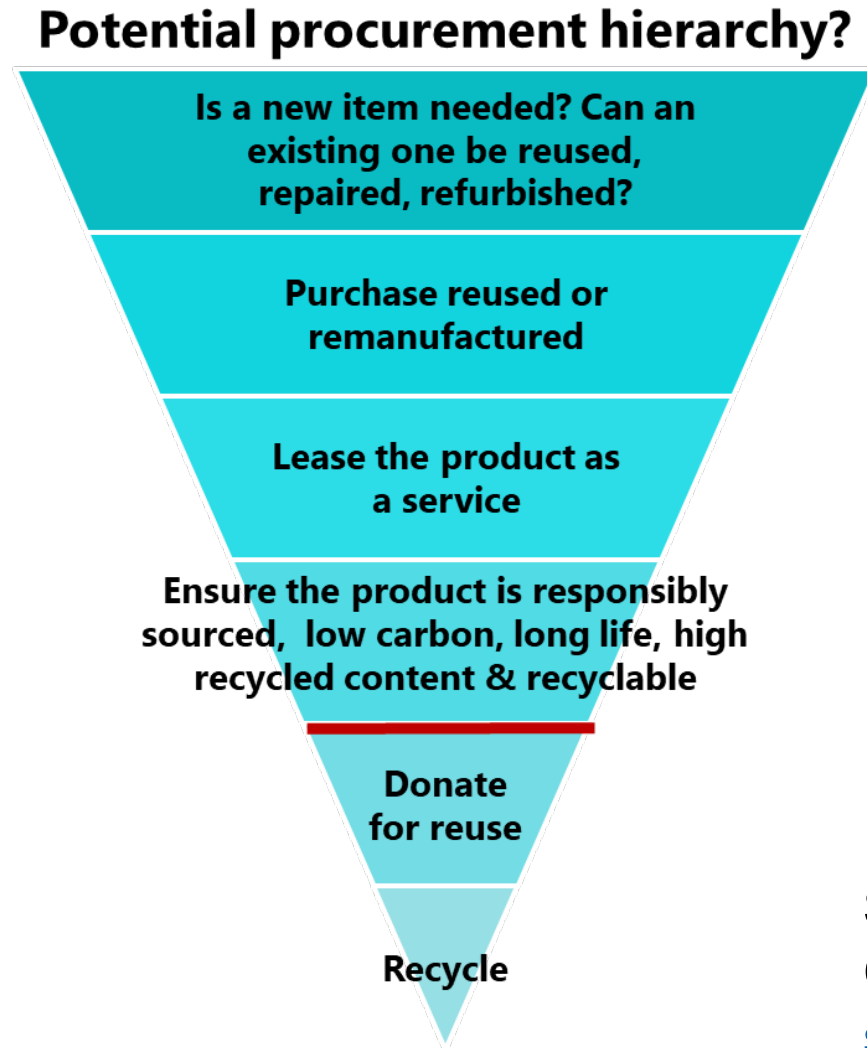
Morriston Hospital, Swansea



Welsh Government office, Cardiff

Theme 6: Aligning government levers

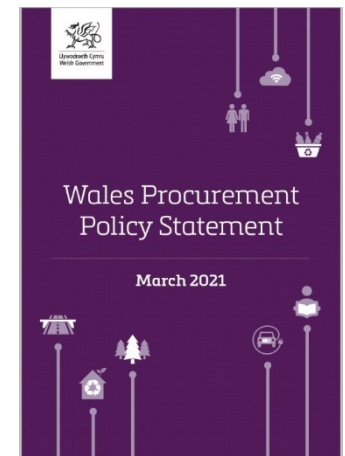
Public sector procurement



Support, guidance and case studies available from WRAP Cymru - <https://wrapcymru.org.uk/taking-action/public-sector>

Welsh Government support for a CE approach in the public sector

- Wales Procurement Policy Statement 2021
- Waste and Resources Action Programme (WRAP) Cymru sustainable public procurement programme
 - One-to-one support
 - Case studies
 - Guidance
 - <https://wrapcymru.org.uk/taking-action/public-sector>
- Circular Economy Fund for the public sector (£40 million in 2020/21) – 180 projects funded
- Embedding a CE approach in public sector leaders and practitioners – £3.5 million Circular Economy Innovation Communities project



Circular Economy
Innovation Communities

Building support / capacity on circular economy thinking and leadership within the public sector in Wales



Circular Economy
Innovation Communities

Circular Economy Innovation Communities – EU European Social Fund funded project

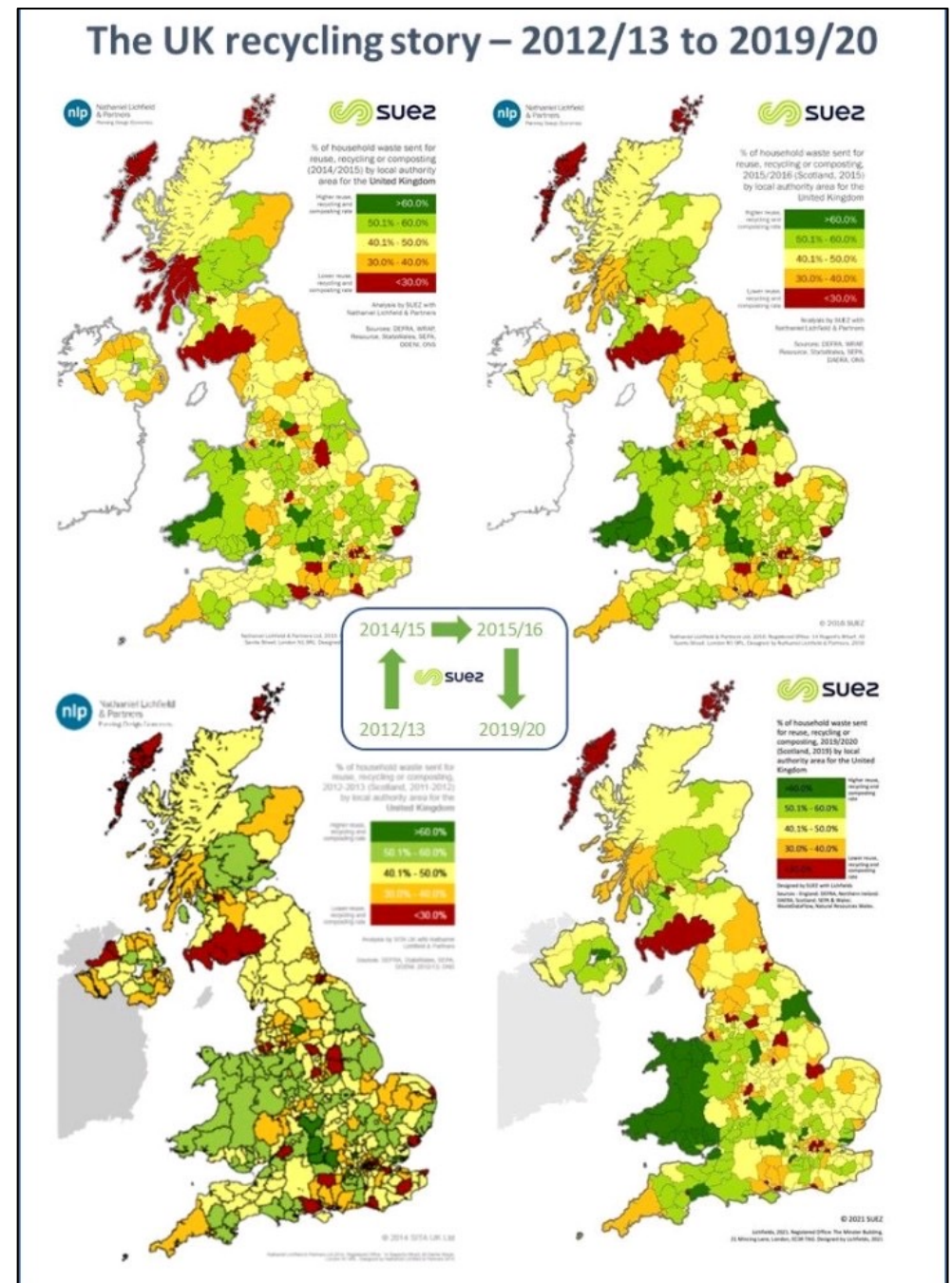
Supporting public services managers to develop new service solutions to enhance productivity and deliver Circular Economy (CE) benefits.

A fully-funded 10-month programme comprising workshops, site visits, action learning, peer learning and expert support to enable managers to co-create new products or service solutions and to implement with support. The programme will:

- Create inter-organisation collaborative innovation networks to support regional working and enable public service organisations to solve existing problems
- Enhance circular economy knowledge of public service organisations to meet Welsh Government Future Generations Act Goals and address the greatest challenge of our generation
- Enhance innovation knowledge and skills to drive productivity and develop organisational capacity

<https://www.swansea.ac.uk/som/business/ceic-programme/>

Building on success!



Thank you for listening

Any queries / comments to:

BeyondRecycling@gov.wales



Helpu Cymru i leihau
ei Hôl Troed Carbon
Help Wales reduce
its Carbon Footprint



reduce arbed
reuse ailddefnyddio
recycle ailgylchu