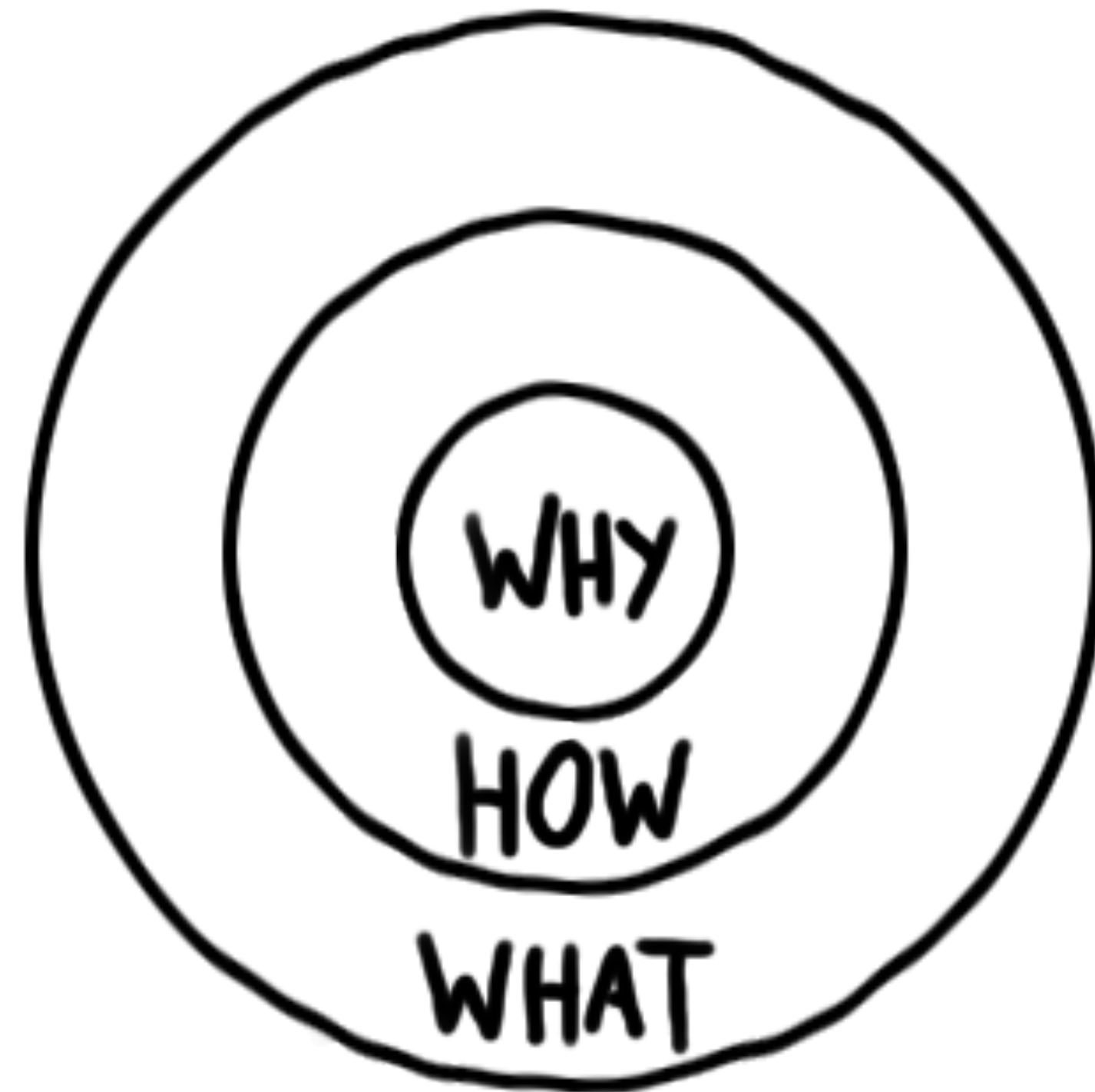


Role of local government in climate change adaptation and mitigation

Golden circle



Transport



Remote working

Cycling / walking infrastructure

Rapid EV charging network

Public transport infrastructure

Ban diesel / petrol vehicles

H2 transport infrastructure

Buildings



Building regulations

Energy efficiency regulations

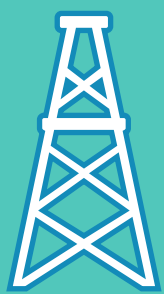
Low carbon heat incentives

Heat networks

Resilient design

Green finance

Power



Smart energy management

Demand side management

Renewable electricity

Decentralise

Deregulate

Land use



Nature friendly farming

Improving soil quality

Tree planting

Peatland restoration

Green infrastructure (NBS)

MITIGATION

Active travel

Public transport

Renewable energy

Circular economy

Energy efficiency

Land use

Habitat restoration

Tree planting

Public education

ADAPTATION

Flood resilient urban
design

Emergency response

Invasive species removal


Coastal management

Natural Health Service


Key Findings



An estimated five million visits are made to council-managed greenspaces each year.




Derry City and Strabane District Council's greenspaces supply more than £75 million in benefits (£500 per adult resident) each year.




The two greenspaces which create the most value are in the heart of Derry, offering easy access to residents and space for recreational visits.



For every £1 spent on the Council's greenspace maintenance and investment, it provides £22 of benefits per year.



Mental wellbeing accounts for more than half of the value provided by the Council's greenspaces.



Greenspaces in Derry and Strabane provide £26 million in physical health value, primarily driven by high-activity adult visitors, based on typical participation rates.



Residents in Derry and Strabane are willing to pay £2 million per year to live near greenspaces.



Greenspaces provide a range of additional benefits which are not monetised.

Derry City and Strabane District Council's Owned Green & Blue Spaces Natural Capital Account

Derry City and Strabane District Council supplies more than £75 million in benefits to residents each year through its 223 greenspaces.

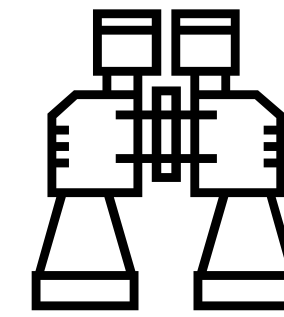
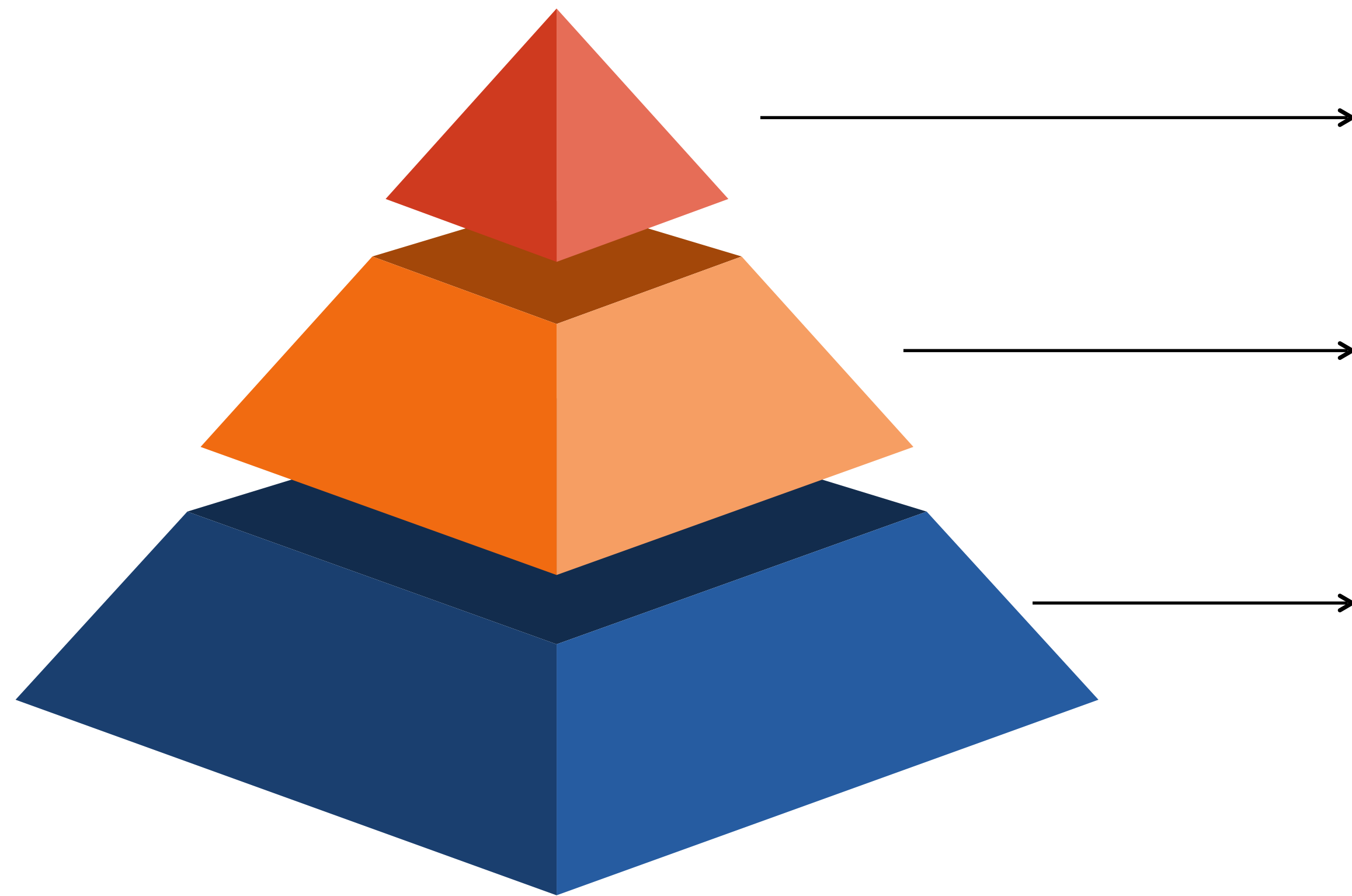
Greenspaces will provide £1 billion in benefits over the lifetime of Derry City and Strabane District Council's Green Infrastructure Plan (GI) (2019-2032). This value could increase if parks are enhanced to encourage more, longer and active visits.

There are more than five million visits to Derry and Strabane recreational greenspaces each year. Visitors benefit from mental wellbeing and physical health improvements.

These benefits are provided at low cost.

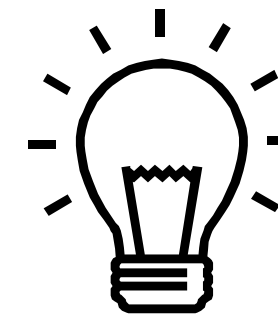
- It only costs £1 to deliver over £22 of benefits.
- Greenspaces provide over £500 of benefit per adult resident per year.

National Policy



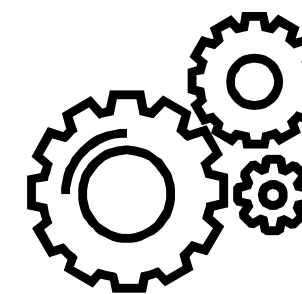
CLIMATE LEGISLATION

National target & carbon budgets. National Mitigation Plan and Adaptation Plan. National Indicators and progress reporting.



SECTORAL PLANS

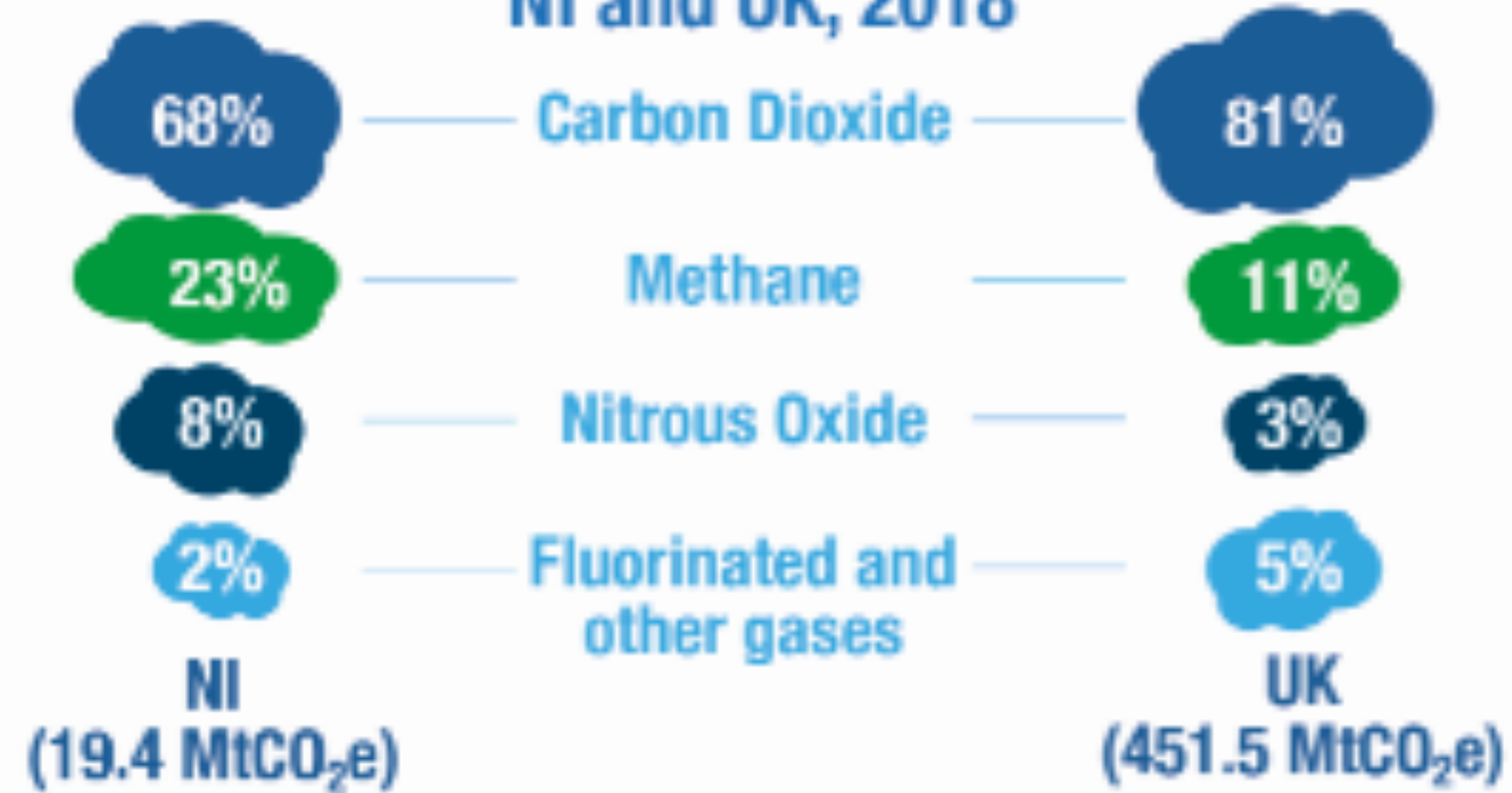
Policy reform across all major sectors, resulting in regulatory change (e.g. Building Regs) and national programmes (e.g. energy efficiency retrofit)



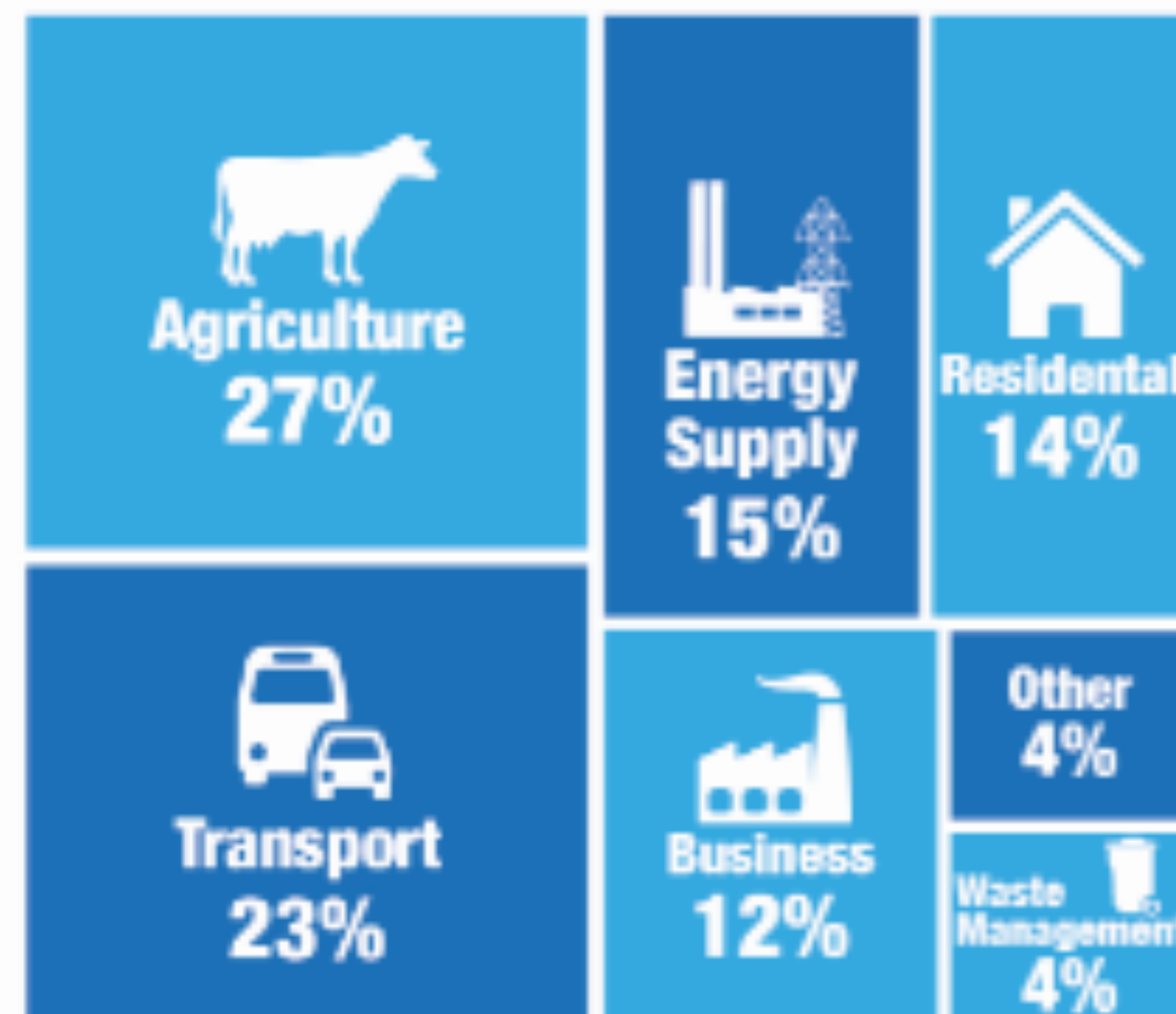
LOCAL GOVERNMENT PLANS

Local authority adaptation and mitigation plans. Local authority performance indicators.

Composition of greenhouse gas emissions (%), NI and UK, 2018



Agriculture was the largest emitting sector of NI greenhouse gas emissions in 2018



Numbers are rounded and may not add to 100.

Box 1.1. Overview of devolved matters for key sectors

The balance of powers that are reserved (i.e. issues upon which only the UK Parliament can make laws):

- **Economic and fiscal:** Mostly reserved
- **Energy** (apart from nuclear): Fully devolved
- **Planning:** Fully devolved
- **Local government and housing:** Mostly devolved (including domestic and public energy efficiency and fuel poverty).
- **Industry:** Mostly reserved.
- **Transport:** Vehicle standards and taxation is reserved. Demand side measures are mostly devolved.
- **Agriculture and land use:** Mostly devolved.
- **Waste:** Fully devolved.

Source: Northern Ireland Office (2018) *Devolution settlement: Northern Ireland*.

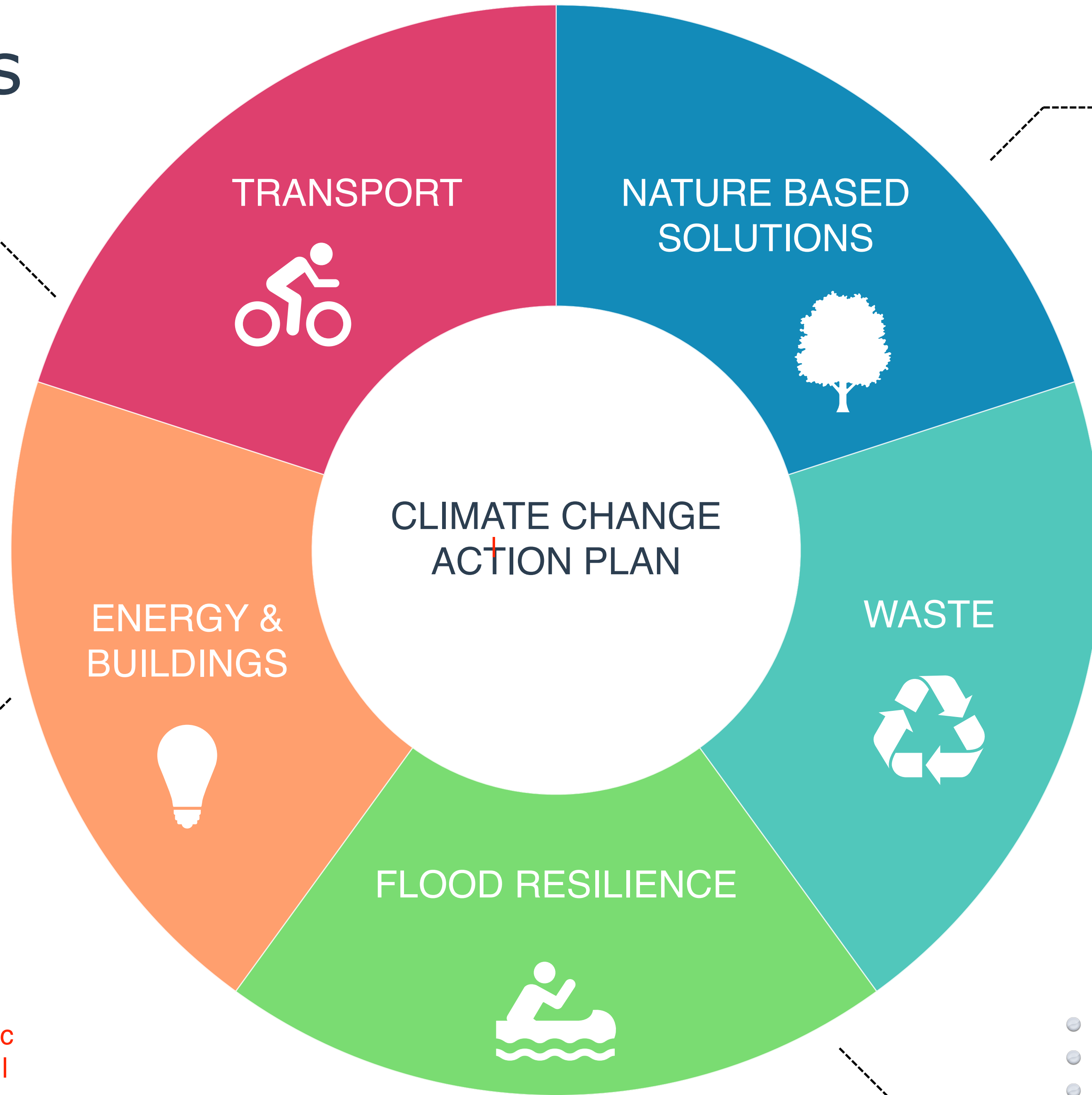
Local Policies

- Bike loans
- Greenways
- Pedestrian only zones
- Green public transport & incentives
- Low Emission Zones
- EV infrastructure
- Car clubs
- Parking incentives

Planning | Town Centre Management | Air Quality | Community Planning

- Energy efficiency
- Renewable energy generation & storage
- Smart Energy Management
- Low carbon heating
- Behaviour change
- Green loans

Planning | Building Control | Economic Development | Environmental Health | Community Planning



- Protect / preserve green spaces
- Afforestation
- Creating new green space - green roofs / walls

Local Development Plan | Planning

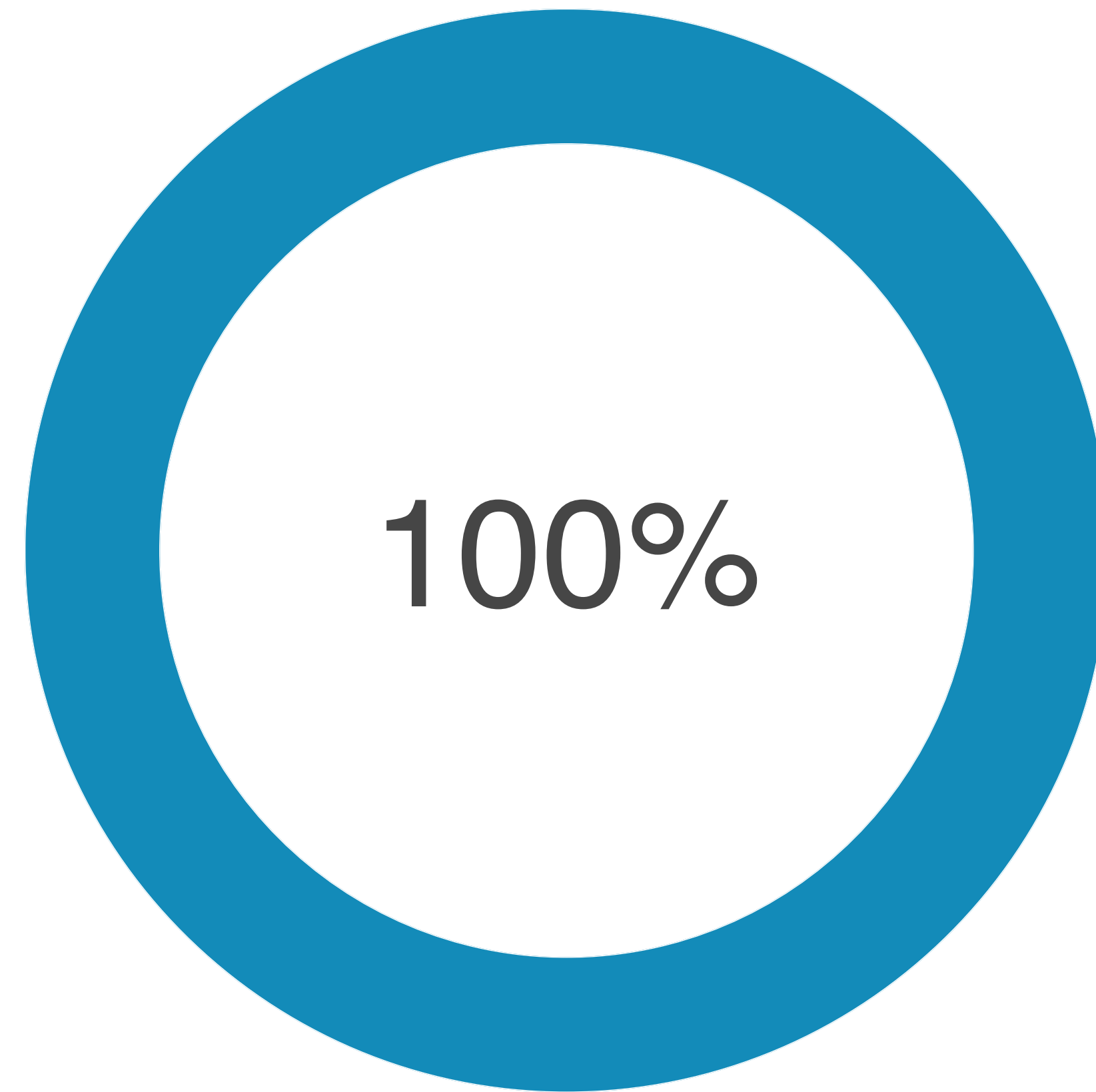
- Resource management (CE)
- Low carbon waste infrastructure

Waste management

Planning | Emergency planning

- Planning restrictions
- SuDS (NBS)
- Community resilience forums

Q. Do you have the capacity within the Council to deliver the climate emergency declaration targets?



Source: APSE

No

sustainable NI

GREEN ECONOMY VS BROWN ECONOMY

Renewables:

- 21st Century development model
- Cheaper to build & lower operational costs
- Shorter payback periods
- Good economic proposition
- Clean
- Facilitates equitable just transition

Coal & Gas:

- 19th Century development model
- Expensive to build & high operational costs
- Longer payback periods
- Bad economic proposition
- Polluting
- Do not facilitate equitable transition

“£1m invested in green economy creates 3x jobs than £1m invested in brown economy” - IMF

“1/3 of carbon reductions expected to come from energy efficiency, which results in direct cost savings” - IEA

£552 million

Belfast spent a total of **£552 million** last year on all of its energy and fuel bills

4.7%

That means that **4.7%** of everything that is earned leaves the area to pay the energy bill

£105 million

If it invested in all of the profitable energy efficiency and low carbon options, total energy bills would be cut by **£105 million** a year

£46 million

Households in the area would save **£46 million** a year from their energy bill.

£19 million

Schools, hospitals, offices, shops and restaurants in the area would save **£19 million** a year from their energy bill.

£9 million

The area's industry could cut its fuel costs by **£9 million** a year.

1,579 years

Doing this would lead to the creation of an extra **1,579 years** of employment in the area.

23.0%

This would mean the area's carbon emissions would fall by **23.0%** over and above what is already expected.

Priceless

And that would mean a **happier, healthier, more prosperous** and more **resilient** area for all!



Country	Sector	Subsector	Description	Date	Status	Amount (USD)	Amount (local)	Type	Source document	Further coverage
 European Union	Agriculture		The European Commission's plan includes an increase to the budget for the European Agricultural Fund for Rural Development, given the role farmers have in the "green transition".	27/05/2020	Proposed	\$16.8bn	15.0bn	Spending	eur-lex.europa.eu	
 Germany	Buildings	Energy efficiency	Extra funding for a CO2-focused building renovation programme, with an additional €1bn in 2020 and 2021 taking the annual totals to €2.5bn.	03/06/2020	Agreed	\$2.2bn	2.0bn	Spending	www.bundesfinanzministerium.de	www.cleanenergywire.org
 Germany	Buildings	Adaptation	Support for smaller municipalities to access the national climate protection initiative, with extra funds during 2020 and 2021.	03/06/2020	Agreed	\$0.1bn	0.1bn	Spending	www.bundesfinanzministerium.de	
 European Union	Buildings	Energy efficiency	Aim under the European Commission's proposal would be to "at least double" the annual renovation rate of existing building stock through regulatory and financial support, such as doubling th...	27/05/2020	Proposed	-	tbc	Spending / Regulation	eur-lex.europa.eu	www.euractiv.com
 South Korea	Buildings / Industry		For the green transformation of living infrastructure, 5.8tn won will be spent by 2022 and 89,000 jobs will be created, according to the government's plan. This will go towards transitioni...	01/06/2020	Proposed	\$4.8bn	5,800.0bn	Spending	www.gov.kr	www.koreatimes.co.kr
 European Union	Employment	Green jobs	The European Commission's plan includes a proposal for an €32.5bn boost for the Just Transition Fund to "alleviate the socio-economic impacts of the transition". This would bring the total a...	27/05/2020	Proposed	\$36.5bn	32.5bn	Spending	eur-lex.europa.eu	www.euractiv.com
 European Union	Employment	Green jobs	New public sector loan facility in the European Commission's proposal "that forms the third pillar of the Just Transition Mechanism", supported by €1.5bn from EU budget and €10bn in lending ...	27/05/2020	Proposed	\$12.9bn	11.5bn	Loan	eur-lex.europa.eu	
 Germany	Energy	Electricity bills	Cutting the renewable energy levy on electricity bills, currently €0.068/kWh, to €0.065/kWh in 2021 and €0.06/kWh in 2022. According to Clean Energy Wire, the levy could otherwise have increased next ...	03/06/2020	Agreed	\$12.3bn	11.0bn	Spending	www.bundesfinanzministerium.de	www.cleanenergywire.org
 Germany	Energy	Renewable electricity	National solar capacity cap to be immediately abolished and the expansion target for offshore wind raised from 15 to 20GW in 2030. A national rule restricting the development of onshore wind within 1,...	03/06/2020	Agreed	-	-	Policy	www.bundesfinanzministerium.de	www.reuters.com
 Germany	Energy	Hydrogen	National hydrogen strategy backed by investment in domestic hydrogen production, transport and use. Includes 5GW of renewable production capacity by 2030 and potentially another 5GW by 2035.	03/06/2020	Agreed	\$7.9bn	7.0bn	Spending	www.bundesfinanzministerium.de	www.cleanenergywire.org
 Germany	Energy	Hydrogen	International hydrogen strategy based on exporting German technology to countries with geographical resources for cheap production, and supporting the development of hydrogen transport options.	03/06/2020	Agreed	\$2.2bn	2.0bn	Spending	www.bundesfinanzministerium.de	
 European Union	Energy	Renewable electricity	Proposed "strategic investment facility" would focus on renewables, as well as "energy storage technologies, clean hydrogen, batteries, carbon capture and storage and sustainable energy...	27/05/2020	Proposed	-	tbc	Spending	eur-lex.europa.eu	www.euractiv.com

Key points (local government)

- Climate change planning has started
- Councils ahead of central government on climate delivery
- Councils well placed to understand opportunities in their local areas
- Councils could develop local area energy plan - energy and spatial planning should be integrated
- Councils could set renewable energy targets in Local Development Plan but national planning policy framework must change
- Councils have critical role in ensuring buildings are 'fit for the future' - new build and retrofit
- Councils can implement clean air zones and incentives for clean transport
- Waste infrastructure will need to be 'carbon capture storage' ready
- LAs well placed to develop local resilience plans

Key points (local government)

- Insufficient capacity within councils at present
- Anything not statutory is at risk, especially post COVID
- Climate legislation needed, with statutory duty on councils to act
- Climate change not given sufficient attention in local plans e.g community plans, local development plans
- Building regs & national planning policy hinder local climate progress
- No monitoring of local area GHG emissions at present
- No enforcement of sustainable development duty at present
- Emissions reductions pathways not co-ordinated across NI

Key points (central government)

- Nature based solutions are low-cost, win-win
- National economic assessment needed on climate action
- Embed fairness as a core principle
- Green Growth needs sufficient weighting over other executive strategies
- More central - local government coordinating needed
- Need to consolidate 'green growth' with COVID economic recovery
- Need to climate proof all future public investments
- COVID window of opportunity - next 3 years critical - GO FOR IT!!

Thank you

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