



Are we prepared?



Programme



10:00 Welcome coffee/tea

10:30 Conference opens with Alderman Alison Gowman,
Sheriff and Deputy Keith Bottomley and Kate Neale

11:00 Session 1: Is the city prepared for reporting and responding to the
financial risks that will result from climate change ?

David Chitty, Alderman and Sheriff Robert Hughes-Penney,
Mark Babington and Kevin Parry

12:00 Lunch (Including school displays)

13:00 Keynote speaker:

The Baroness Brown of Cambridge, Julia King
Challenges on climate change adaptation

Programme

- 13:30 Session 2: Risks to life
 Gordon Masterton, Tim Munday, Dr Pierre Masselot
- 14:30 Session 3: Are our buildings prepared for climate change ?
 John Pike, Philippa Simpson, Dr James Ritson, James Fisher
- 15:30 Tea (and cakes)
- 16:00 Session 4: How fragile is our food chain ?
 Alison Gowman, Lucinda Langton, Prof Tim Lang
- 17:00 Close
- 17:15 Canapes and drinks



Alderman Alison Gowman



Social media:

X: @liverycag

LinkedIn: Livery Climate Action Group

#LCAG #LCAGConference2024

Scan code for programme





**Sheriff and Deputy
Keith Bottomley**



Kate Neale

**City of London
Corporation**

Creating a Net Zero and Resilient Square Mile

Kate Neale, Climate Action Director, City of London Corporation



THE
CITY
OF
LONDON

Our vision is to create a

City of London that is **responsible, sustainable** and **competitive**

through



Reaching
net zero



Building climate
resilience



Championing
sustainable growth

The City Corporation has committed to achieving...



Climate Resilience

Climate resilience in our buildings, public spaces and infrastructure



Net zero by 2040

in the Square Mile



Net zero by 2040

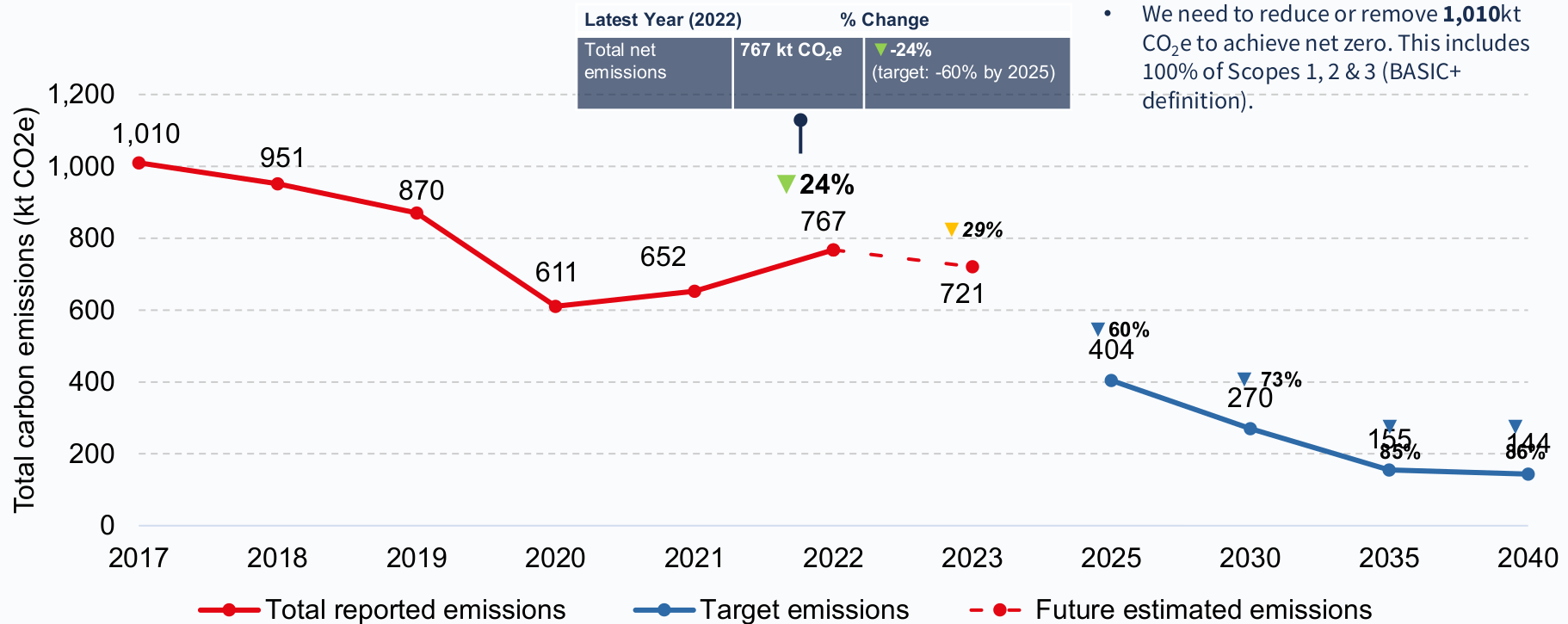
across the City Corporation's full value chain



Net zero by 2027

in the City Corporation's operations

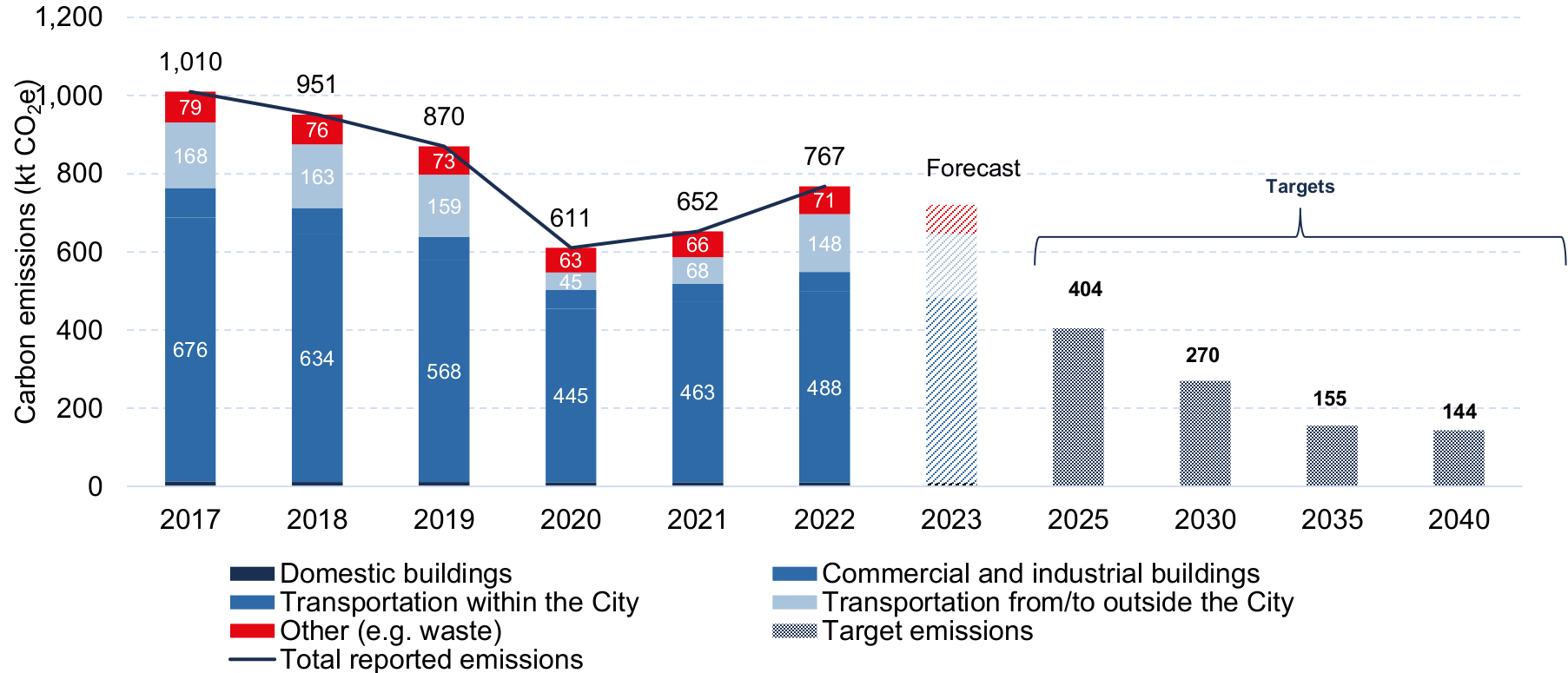
Net Zero Square Mile



- The boundary for the Square Mile's emissions includes emissions from the built environment, transport and other sources such as waste.
- We need to reduce or remove **1,010kt CO₂e** to achieve net zero. This includes 100% of Scopes 1, 2 & 3 (BASIC+ definition).

Net Zero Square Mile

A closer look...



A Sustainable City

The right conditions, but further to go

85% of peak on-street travel activity is by



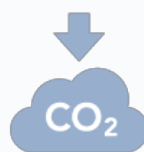
Wheeling



Walking



Cycling



24% reduction

in Square Mile Carbon Emissions since 2017



99%

of major commercial applications with a resolution to grant are targeting **BREEAM Excellent or above**



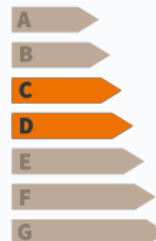
77%

of buildings in the Square Mile are heated by gas boilers (representing >80% of heat demand)



64%

of total emissions in the Square Mile are generated by non-domestic buildings



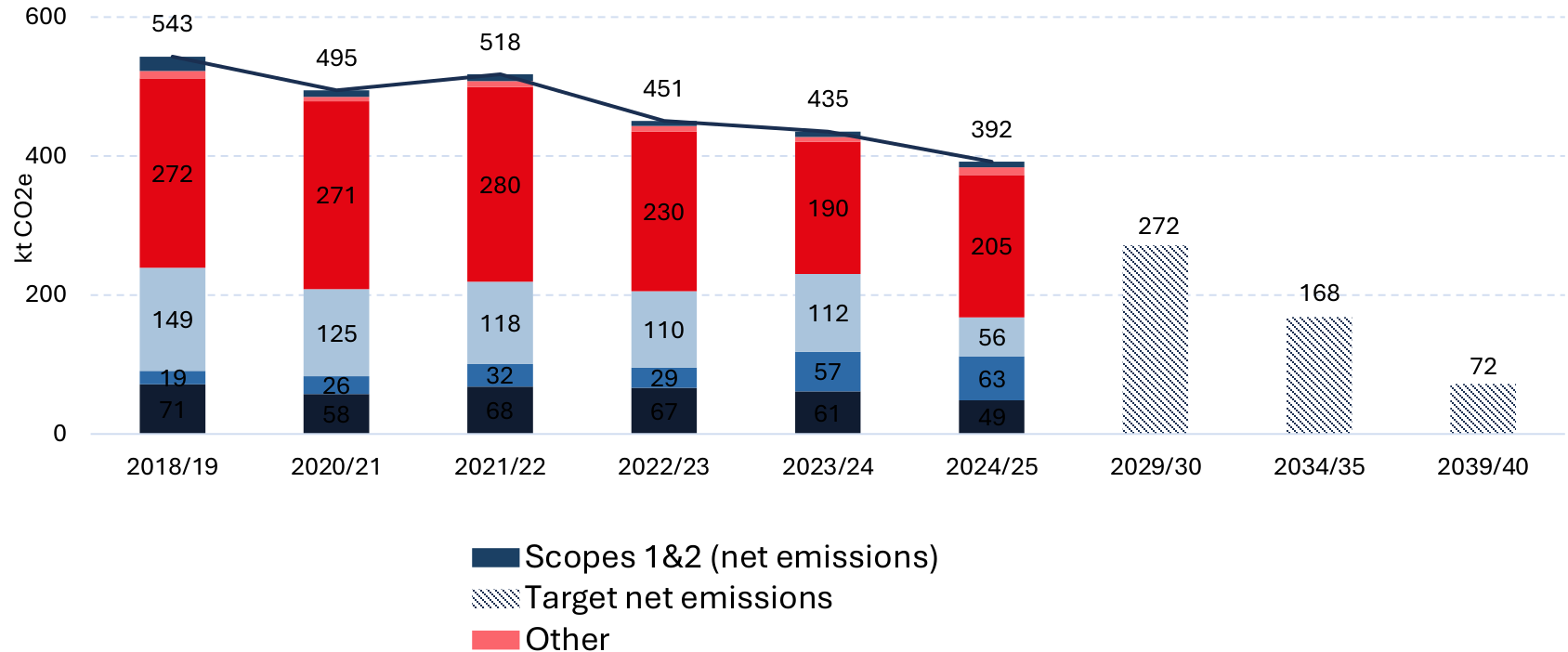
48%

of buildings have an EPC rating of D or below

74%

are rated C or below

Becoming a Net Zero Corporation



Climate projections for the Square Mile



Hotter, drier summers

Maximum temperatures to increase around 5°C+ by 2080



Warmer, wetter winters

20mm additional rainfall in wettest five days in 2080



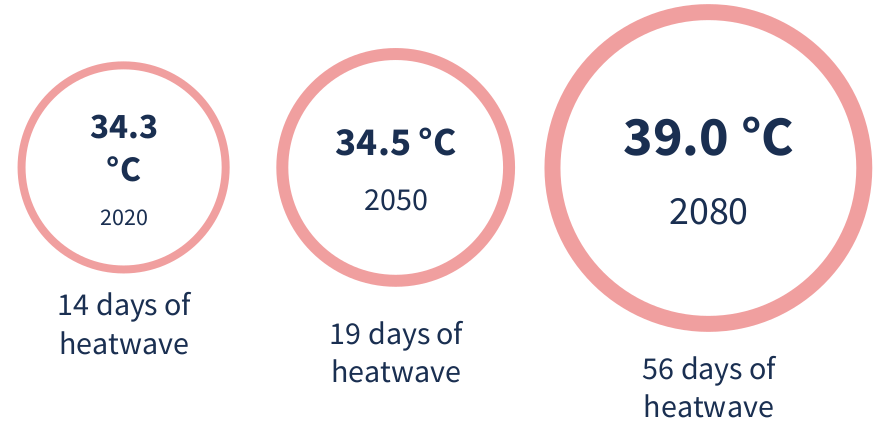
Sea level rise

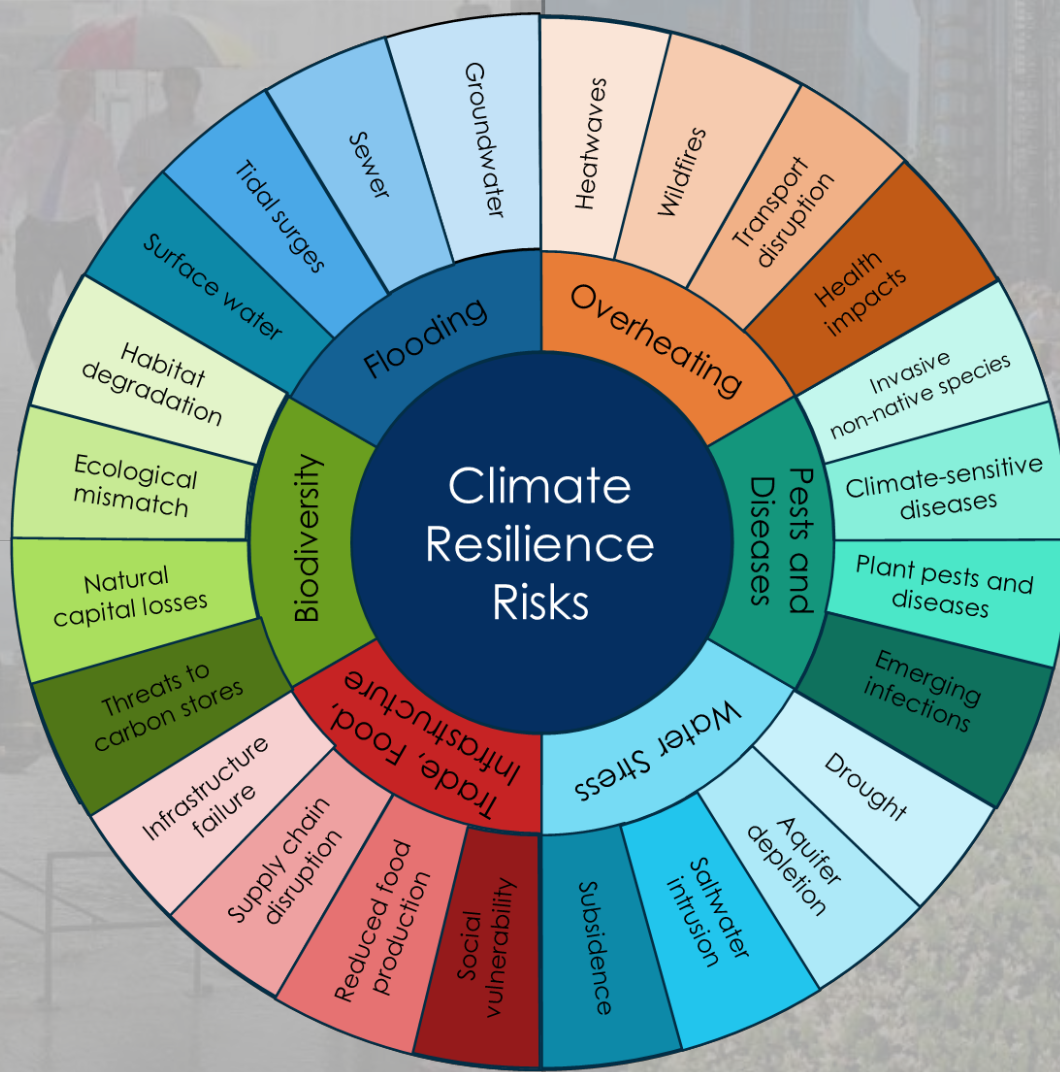
Flood risk exacerbated by rising levels of tidal Thames approaching 1m



Extreme weather events

Double the days of drought
Heatwaves lasting up to 3 weeks
Extreme rainfall





Championing Sustainable Growth

Transition Finance Council



Low carbon buildings

Heating and cooling networks



Green infrastructure

What success looks like

The benefits for the Square Mile and its businesses



Thank you

Kate.Neale@cityoflondon.gov.uk

107

MEMBERS

Livery Companies and
related organisations
December 2025 (120 Limit)

RECOGNITION
FROM THE CITY

*"The LCAG assists the CoL
Livery Companies and Guilds
in managing their impact on
climate change"*

34 ACTION PLANS
PUBLISHED

Livery Companies publish
Action plans on website as
exemplars



WEBSITE
LAUNCHED

Website launched in 2021
& LCAG logo created

17 GUIDANCE
NOTES PRODUCED

Templates created for
Livery use, published on
the website.

MEDIA
COVERAGE

Increasingly nationwide
coverage on multiple
platforms



Session 1: Is the city prepared for reporting and responding to the financial risks that will result from climate change ?

David Chitty



Robert Hughes-Penney



Mark Babington



Kevin Parry





The Baroness Brown of Cambridge Julia King

Challenges for Climate Change adaptation

UK climate adaptation: progress, priorities and CCRA4

Baroness Brown DBE FREng FRS FMedSci, Chair, CCC Adaptation Committee

Livery Climate Action Group

Monday 26th January 2026

Structure of the Climate Change Committee

Expert and independent Mitigation and Adaptation Committees supported by secretariat



Mitigation Committee

Chair: Nigel Topping CMG



Adaptation Committee

Chair: Baroness Brown DBE

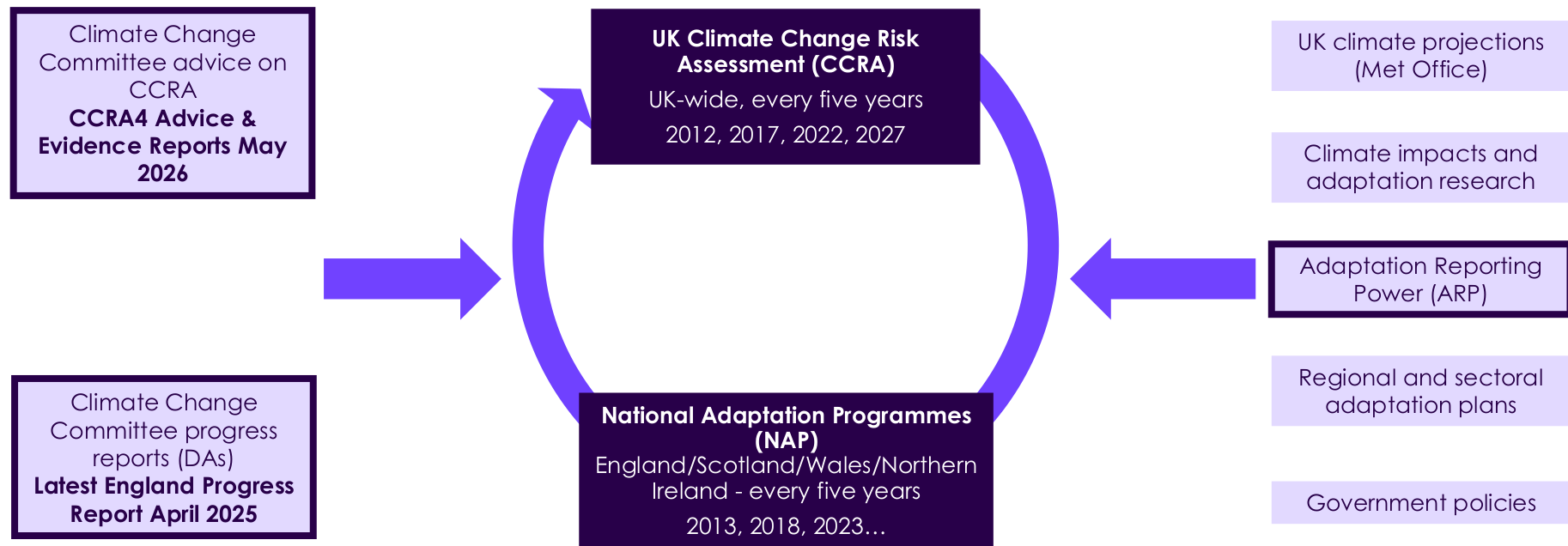


Secretariat

CEO: Emma Pinchbeck

CCC's statutory remit: Climate Change Act 2008

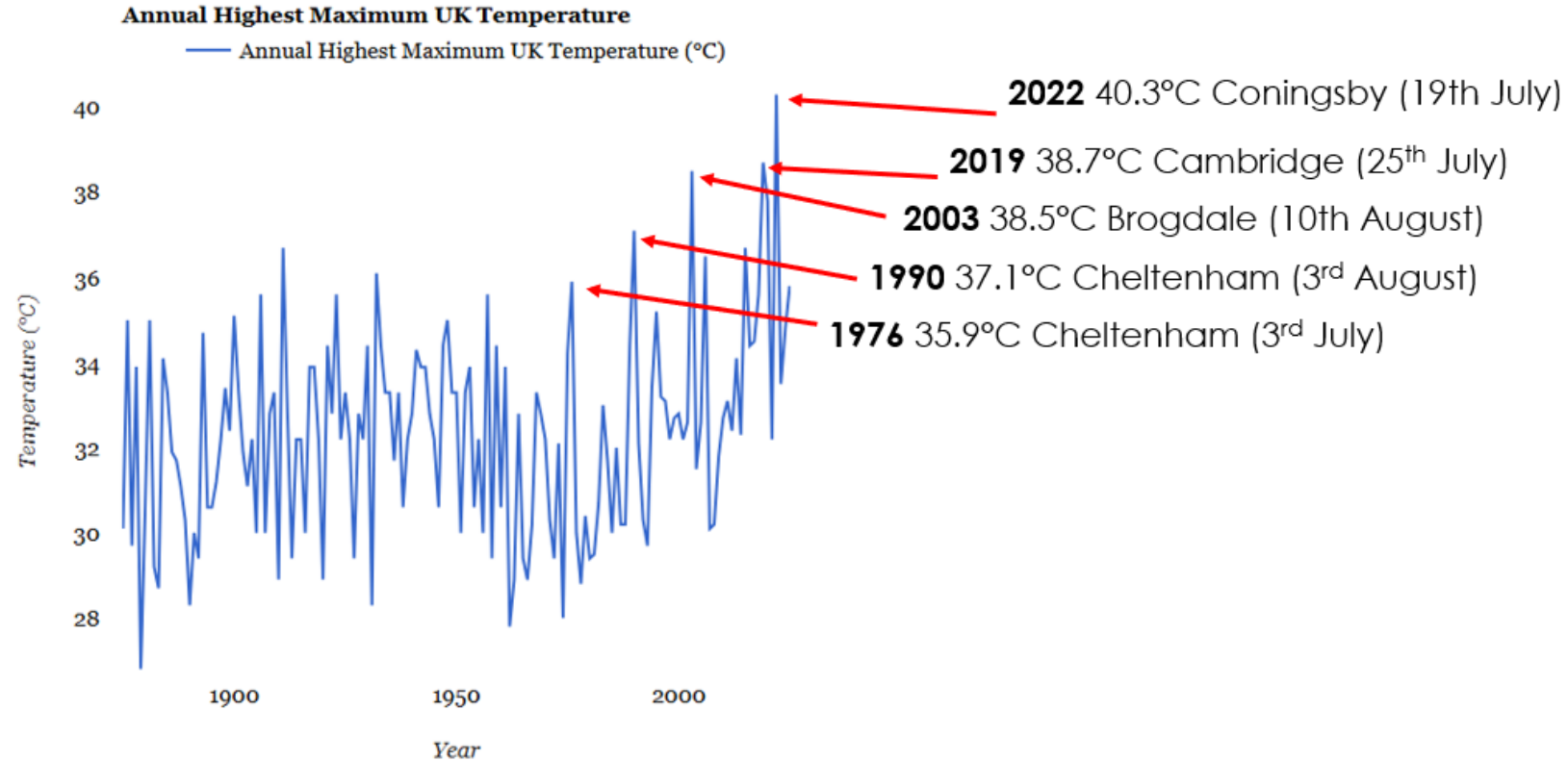
Evidence cycle for informing adaptation in the UK



Climate change in the UK today

Every year – a new record...

Record high temperatures every few years



Record British Weather

Climate change is already a problem

Summer 2022: Hot

- July temperatures exceeded 40°C
- Worst drought since 1976
- Record number of large wildfires

October 2022 – March 2024: Wet

- Wettest 18-month period on record, 50% more rain in the south
- Floods: 2nd worst arable harvest on record
- Storm Babet 2000 properties flooded over £500m in damage

Spring 2025: Dry

- Hottest and sunniest spring on record
- Wildfires: record annual area burnt exceeded in first 3 months
- Drought: driest spring on record, E Anglia 32% less rainfall

Summer 2025: Hot

- Hottest summer on record, 5 hottest summers all since 2000
- 70 times more likely due to climate change

Winter 2025: Dry and wet!

- Scotland experienced UK's first megafire, Arthur's seat burns
- Flooding in the West



Climate change is already a problem

And it gets much worse without action to adapt AND reduce emissions



Today

50% top grade agricultural land at risk of flooding

33% road and rail km at risk of flooding

6.3m properties at risk of flooding

3,000 heat related deaths

**87% of farmers report reduced productivity* due to
extreme rainfall (86%)
drought (78%)
heatwaves (50%)**

2050 without increased action

Increased risk of flooding to other grades

50% road and rail km at risk of flooding

8m (1 in 4) properties at risk of flooding

over 10,000 heat related deaths

...

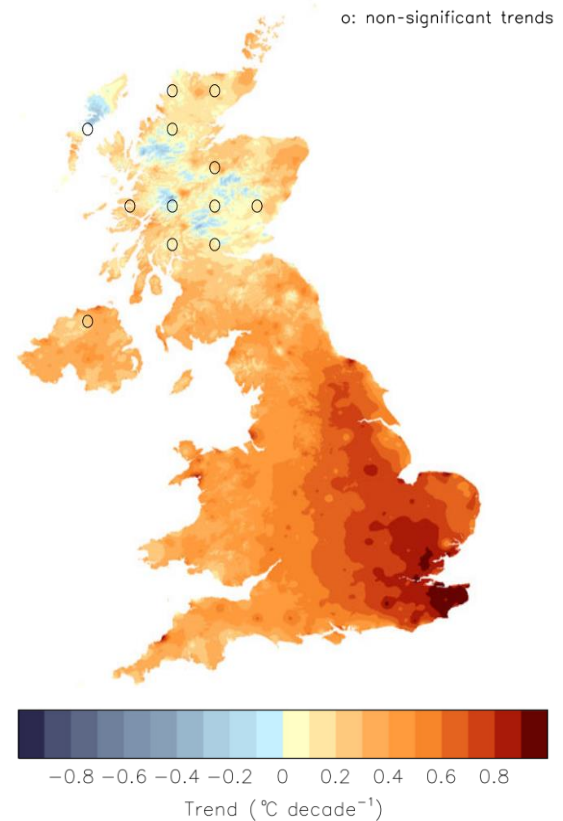
Overall GDP impact of 7%+ by 2050

There is much more to come...

Frequency of extremes is accelerating

- Record UK temperature 40.3°C in 2022
- Met Office: 50:50 chance of over 40°C in next 12 years
- Max temperatures rising 4 times as fast as average
- 45°C by 2050?

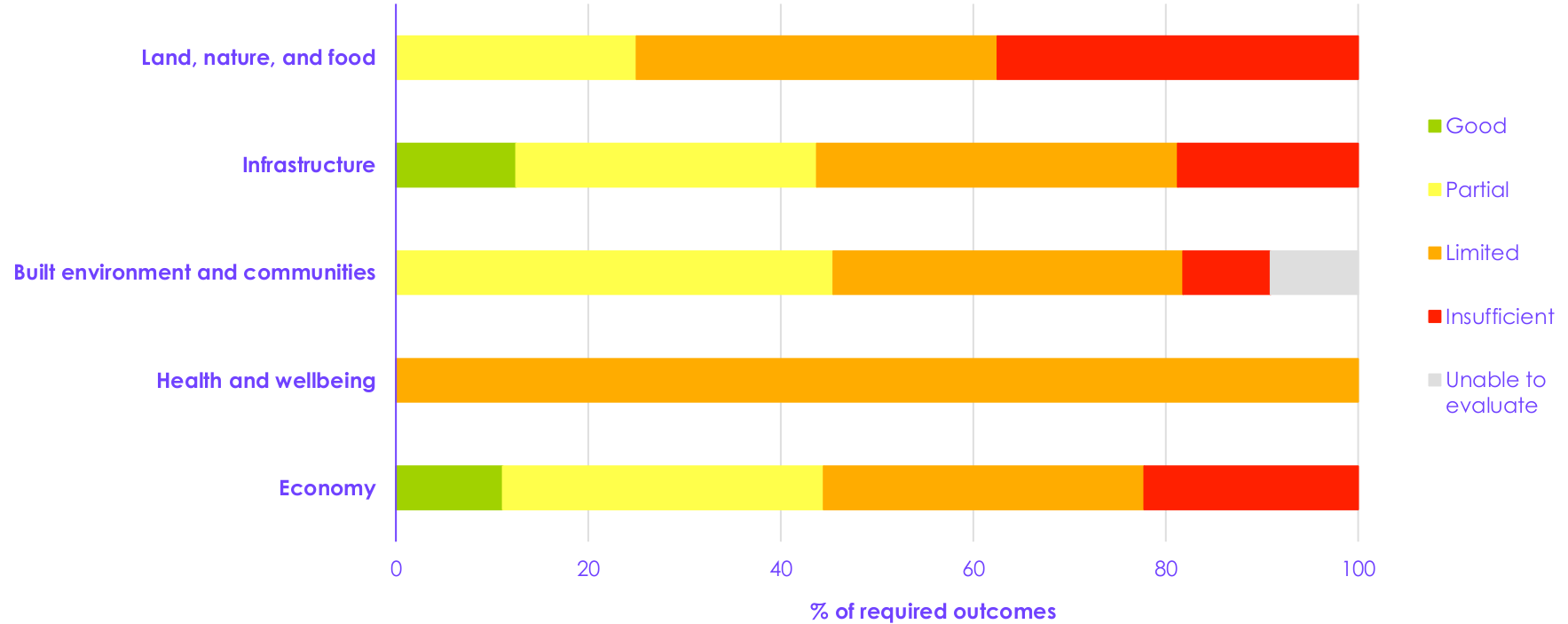
Rate of increase in hottest daytime temperatures (1960 to 2019)



Assessing preparedness for climate change: Adaptation Progress Report April 2025

Policies and plans

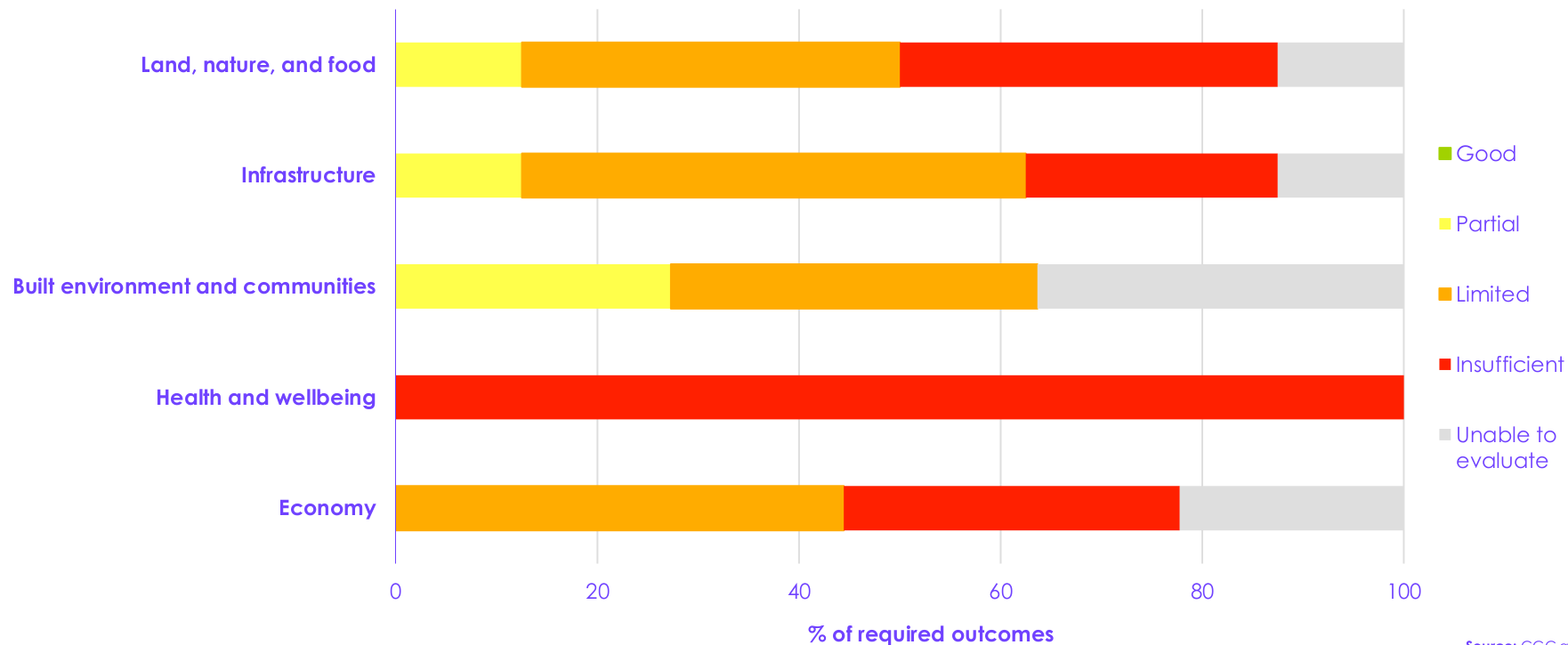
Only a few areas have good adaptation planning



Source: CCC analysis

Delivery and implementation

There is still inadequate overall progress on delivering adaptation outcomes



Source: CCC analysis

Improving the national adaptation programme 'a country that is fully adapted to the changing climate'¹

**Improve objectives and targets:
specific baselines and goals**

**Departments responsible for specific targets
and mproved coordination
across government**

**Integrate adaptation into
relevant policies**

**Implement monitoring, evaluation
and learning across all sectors**

Improving our Adaptation Objectives

'A country that is fully adapted to the changing climate'

Advice to Minister Hardy on adaptation objectives

Planning for 2°C by 2050

- **The need to strengthen the UK's adaptation objectives is both essential and urgent.** Objectives set the path for delivery.
- **Objectives should prepare for the climate that will be experienced if global warming levels reach 2°C above preindustrial levels by 2050.** This is the minimum planning assumptions in our advice.
- **Reaching 4°C above preindustrial levels by the end-of-century cannot yet be ruled out.** This should be considered as part of effective adaptation planning.
- **The Government needs to treat adaptation with the same urgency as cutting emissions.** Both are essential and go hand in hand.
- **Clear long-term objectives should be set out by the UK governments in their adaptation planning.** They should include interim milestones, be time-bound and measurable, with clear accountability.

Emma Hardy MP
Seacole Building
2 Marsham Street
London
SW1P 4DF

Dear Minister Hardy,

Thank you for seeking my Committee's advice on objectives for adapting to a world where climate change is increasingly driving extreme weather events. It is clear we are not yet adapted for the changes in weather and climate that we are living with today, let alone those that are expected over coming decades.

We strongly welcome your commitment to strengthening adaptation objectives: indeed, we believe it to be essential and urgent. These objectives must cover critical areas of our lives, both social and economic, have clearly measurable and time-bound targets, articulate a clear role for Government, and come with explicit delivery accountability for Government departments. Objectives should be set relative to a baseline of today's level of resilience so that progress towards them can be clearly tracked.

A well-adapted UK should deliver a future where:

- Impacts on people's health and wellbeing from climate change are minimised.
- The UK's food security is preserved and key goals for environmental improvement and support for nature are delivered, despite a changing climate.
- Key infrastructure systems function at least as well as they do today, and in many cases better, in the face of changing weather.
- Cities, towns, and villages are not disrupted by extreme weather more frequently than today and, where possible, disruption is reduced.
- Key public services maintain their current levels of service despite climate change, and some vital services, such as health and social care, continue to operate normally during periods of extreme weather.
- Economic growth is climate-resilient and access to key business and financial services, such as insurance, is maintained.

Across these areas it is the most vulnerable people and places that will be most impacted by climate change. A well-adapted UK is one that understands when and where adaptation can be targeted to those most at risk.



The UK's changing climate

What would 2° by 2050 feel like?

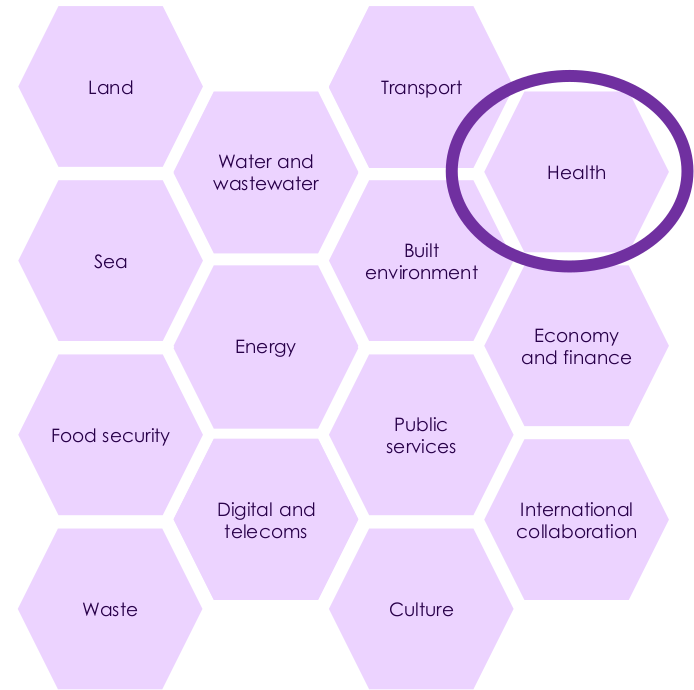
Observed and projected changes in UK hazards due to climate change			
	Observed change to date	2°C by 2050	4°C by 2100
Average annual UK temperature	~1.3°C above pre-industrial	~0.7°C from present	~3.0°C from present by mid-2080s
'Hot summer' occurrence	10 – 25% chance of 2018/2022 summer	50% chance each year	90% chance each year
Average summer rainfall	No significant long-term trend	-15% (to -28%)	-29% (-53%)
Average winter rainfall	No significant long-term trend	+6% (+18%)	+18% (+41%)
Heavy rainfall	No significant long-term trend	20% From present	50% to 70% from present
Sea level rise	~16cm since 1900	5 - 67cm from present	27 - 112cm from present

CCRA4 advice May 2026:
developing a vision for a 'Well adapted UK'

The Well-Adapted UK report

A more compelling framework for adaptation

- Detailed assessment of the most critical areas for a 'well-adapted' UK
- Spatial quantification of future climate risks without further adaptation
- What are the most effective adaptation actions: costs, benefits, likelihood of success?
- How can we define an 'acceptable' level of climate resilience through quantification of levels of 'residual' climate risk?



Heat impacts on health and healthcare systems

Work in progress

Literature review

- Climate impacts
- Potential adaptations, costs and benefits

Modelling: scale of impact by 2050

- Excess deaths from 3,000 to 10,000
- Trebling of heat-related emergency admissions

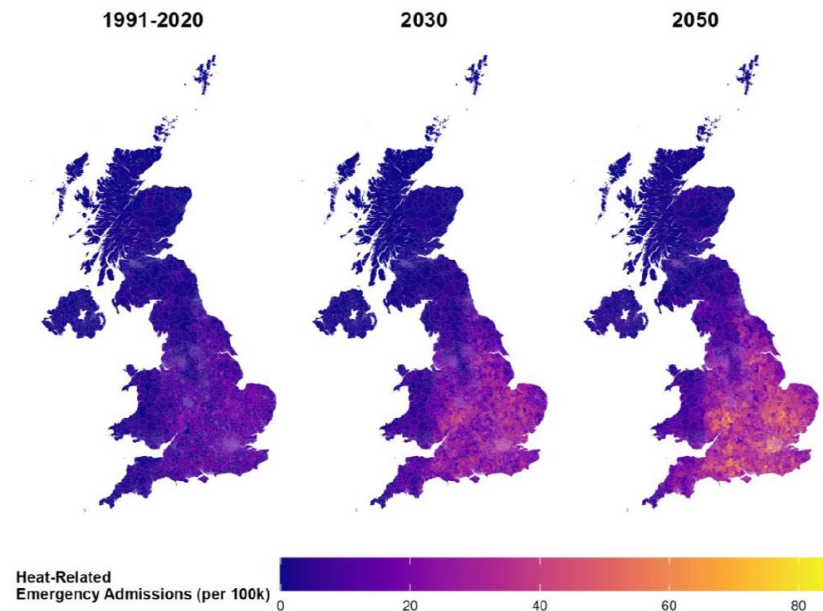
Prioritisation of adaptation actions

- Multi-criteria analysis: scale of impact, cost, ease, co-benefits...
- Stakeholder consultation
- Expert judgement and CCC review

Modelling: potential adaptation actions

- Demand: public awareness; preventative care at home...
- Supply: targeted training; active cooling...

Heat-related emergency emissions



Quantifying credible adaptation actions, building a stronger economic case



Business challenges

Business challenges

Risks (and opportunities)

- International supply chains
 - eg food
- Flood, heat and drought risk to people, premises and operations
 - Productivity and health
 - Outdoor work – eg construction
 - Building damage
- Finance
 - Risks to international assets and UK investments
 - Insurance and mortgage risk
- Interdependencies
 - Critical services: Power, Communications, Water
 - Transport system
 - ...
- New products and services

Climate Change Committee
www.theccc.org.uk

Session 2: Risks to life

Gordon Masterton



Tim Munday



Pierre Masselot



S2: What is the main direct impact of climate change on health?

Heat



67%

Tropical diseases



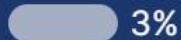
16%

Floods



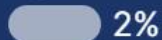
13%

Wildfires



3%

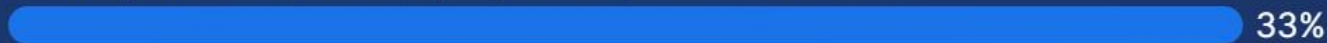
Cyclones



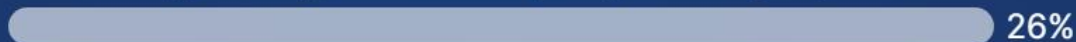
2%

S2: What should a Londoner, now in their 30s, be most concerned about from climate change impacting their life and livelihood over the next quarter century?

A two-year drought emptying the capital's reservoirs.



Reduced global agricultural output (the £15 pint).



A record-breaking tidal surge in the North Sea.



Constant commute disruption from buckled rails and flooded lines.



A yet to emerge zoonotic diseases (probably from Llamas).



July and August becoming one long heatwave.



Livery Climate Action Group Annual Climate Change Conference
Monday 26 January 2026

Climate change & the direct impacts of temperature on mortality

Pierre Masselot

Assistant Professor in Statistics and Environmental Epidemiology
London School of Hygiene & Tropical Medicine

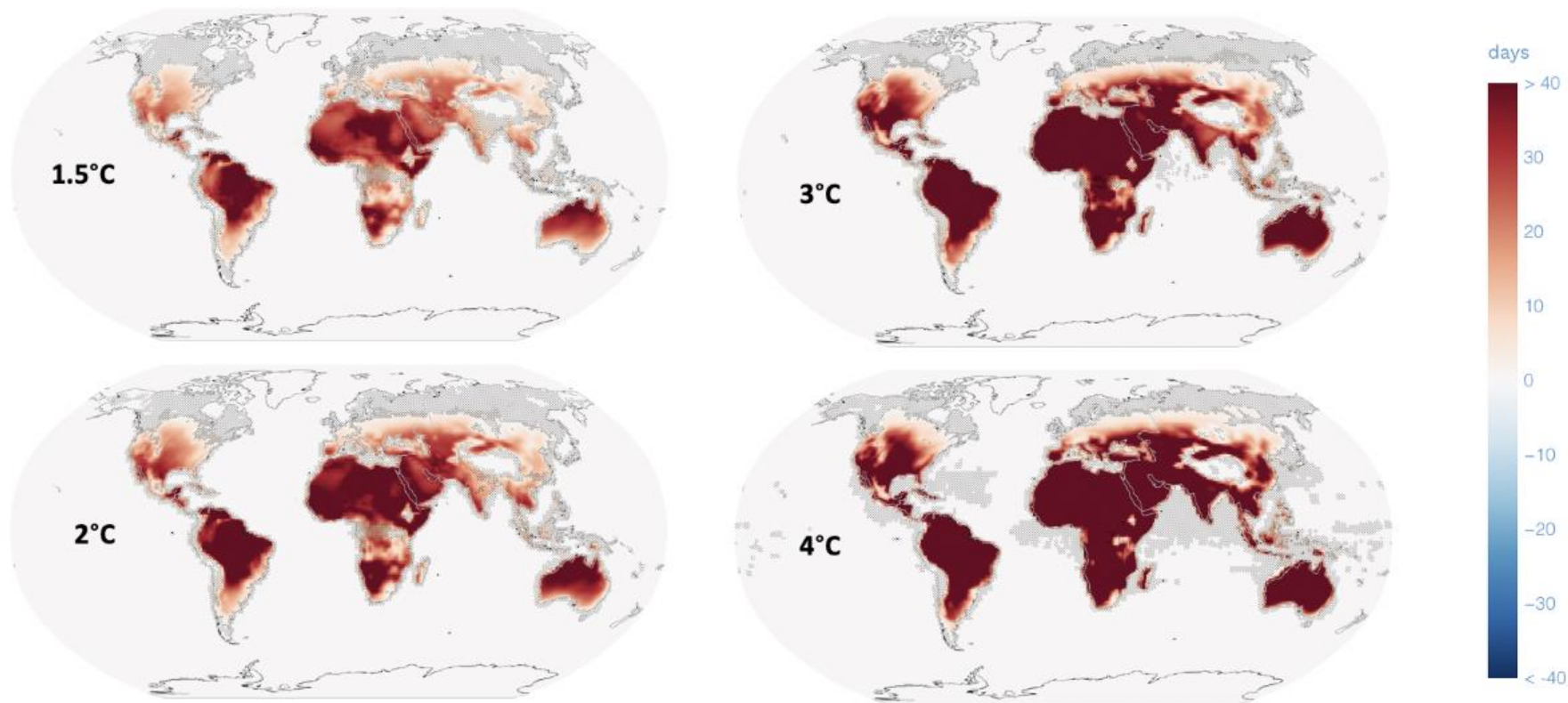
LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



Climate change increases exposure to heat

Change in number of days with respect to reference period

Domeisen et al. (2023)
Nat. Rev. Earth & Environment



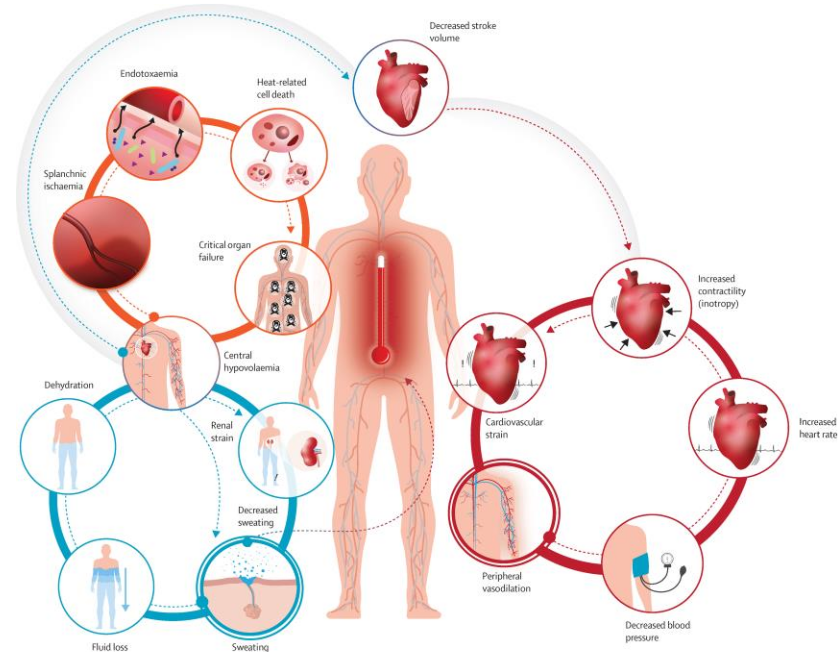
Heat is a strong health risk factor

Heatstrokes! But not only (<1%)

- Cardiovascular diseases
- Respiratory
- Genitourary
- Mental health

Some populations are more vulnerable

- Elderly
- Comorbidities
- Pregnancy



The need for environmental epidemiology

Heat-related deaths are not recorded

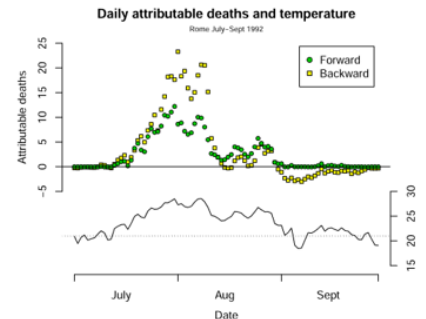
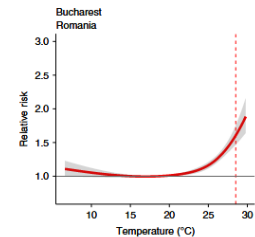
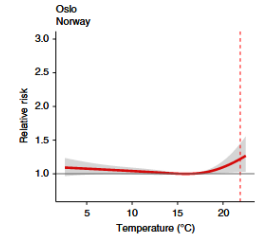
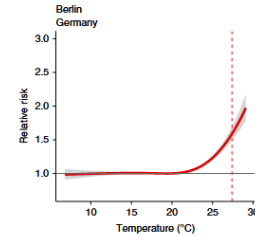
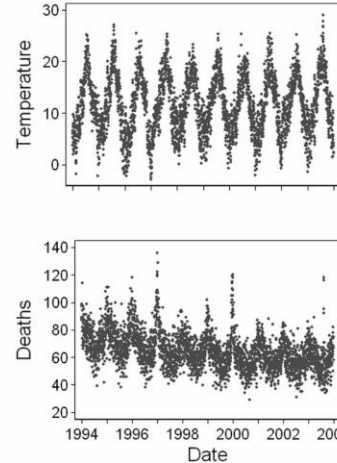


Epidemiology derived vulnerability to heat

- Different vulnerabilities by location/population



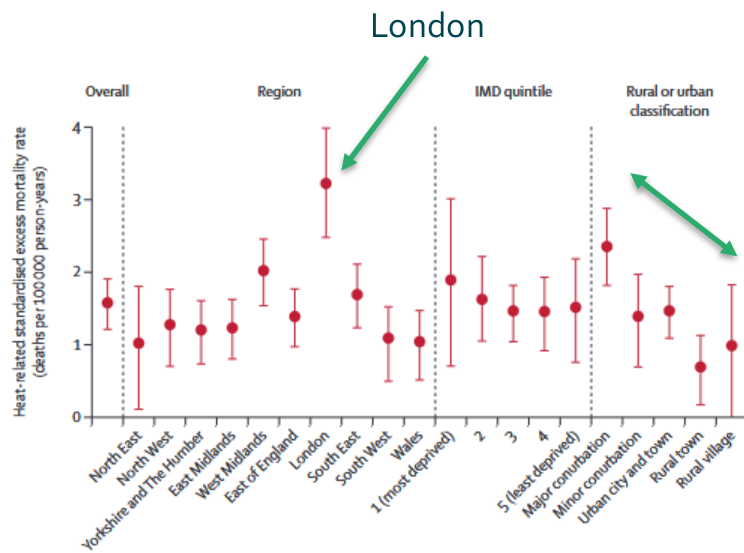
Health burden of heat



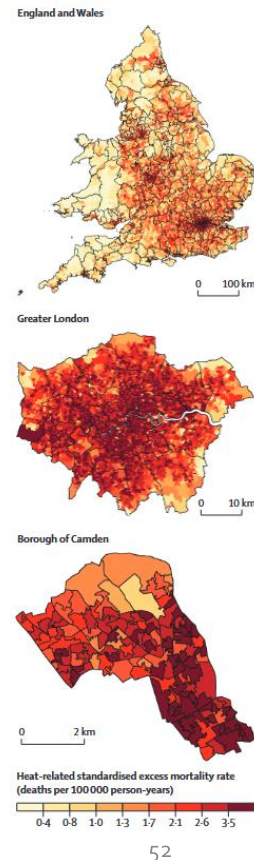
What is the impact of heat across the UK?

Study on 30 yrs of data (1990-2019)

- ~800 deaths/year in GB
- A vast majority in London and major urban areas



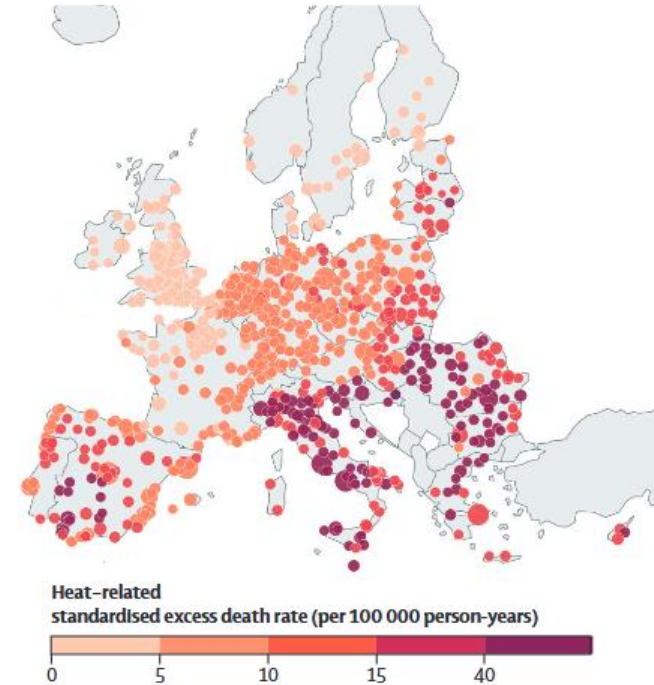
Gasparri et al. (2022)
The Lancet Plan. Health



What is the impact of heat across Europe?

Study in European Urban areas (854)

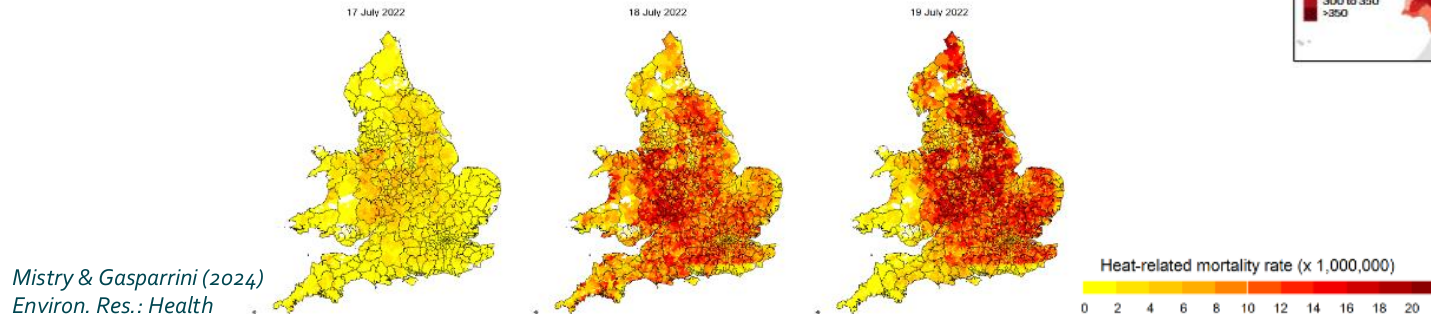
- ~13,500 deaths/year
- Northwest -> Southeast gradient
- Important excess death rates around the Mediterranean



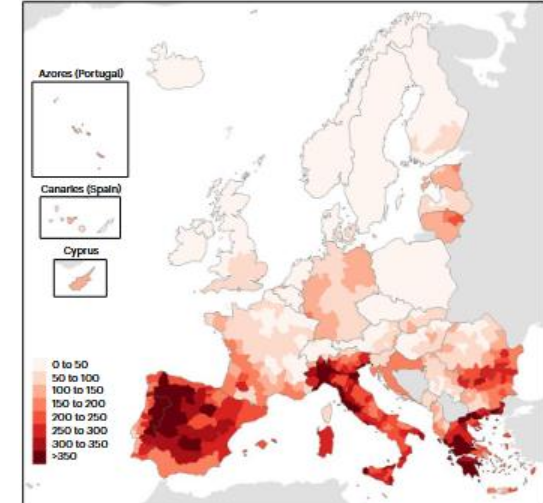
*Masselot et al. (2023)
The Lancet Plan. Health*

One of the strongest heat waves recorded

- > 60,000 deaths over the summer
- > 1000 in GB over 3 days



Mistry & Gasparrini (2024)
Environ. Res.: Health

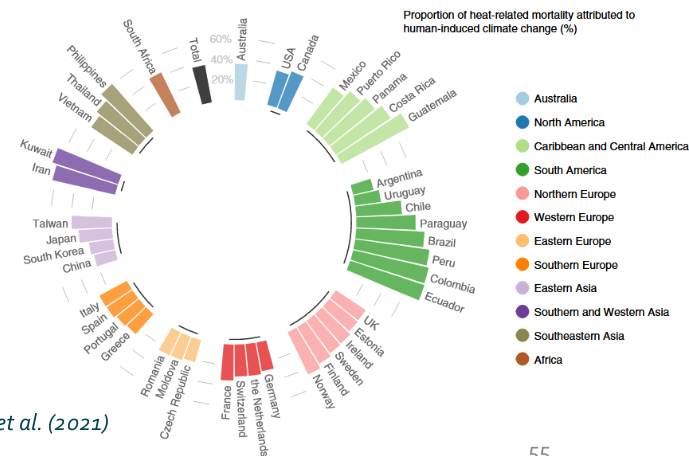
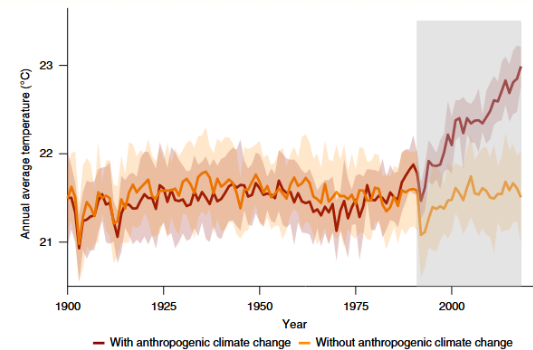


Ballester et al. (2023)
The Lancet Plan. Health

What is the part attributed to climate change?

Study on 30 yrs of data (1991-2018)

In available cities ~**37%** of heat-related deaths
attributable to climate change



Vicedo-Cabrera et al. (2021)
Nat. Clim. Ch.

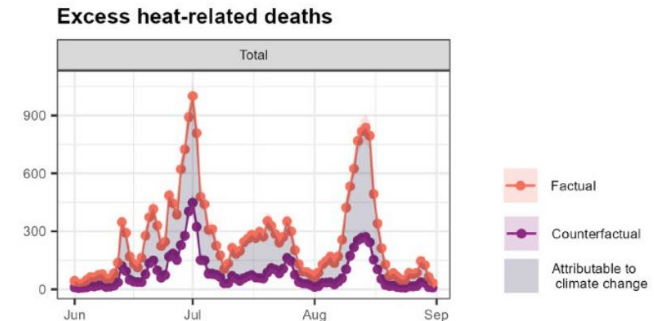
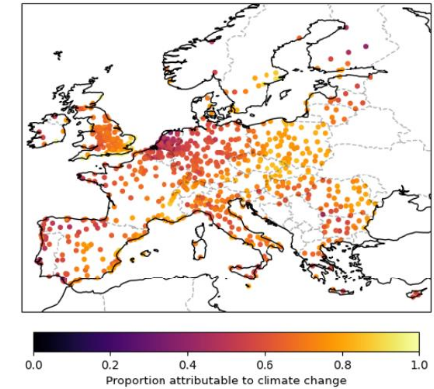
Last summer

Evaluation of the part attributed to climate change

- Across Europe

Around **70%** of heat-related deaths could be attributed to **Climate change**

In London, 69% of ~450 deaths



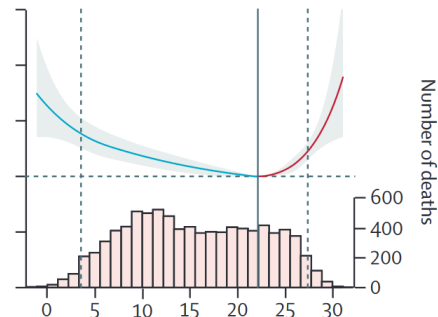
Barnes et al. (2025)
Grantham Institute

Cold-related deaths

Epidemiological studies also estimate strong burdens of cold

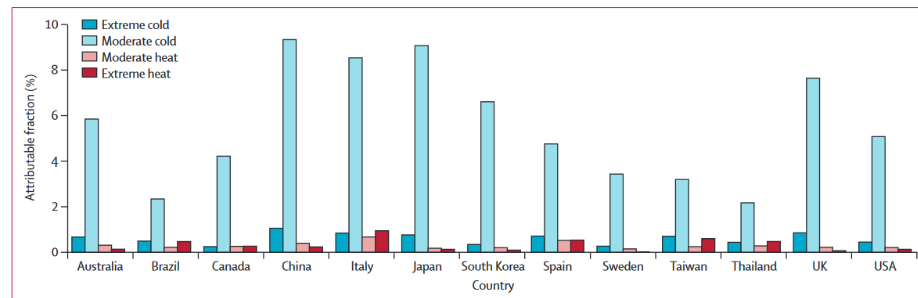
- Increases in mortality even for moderate cold
- Much more frequent

Rome, Italy



*Gasparri et al. (2015)
The Lancet*

In Europe heat/cold is around 1:9



Climate change and the heat/cold ratio

Would climate change result in a net decrease of deaths?

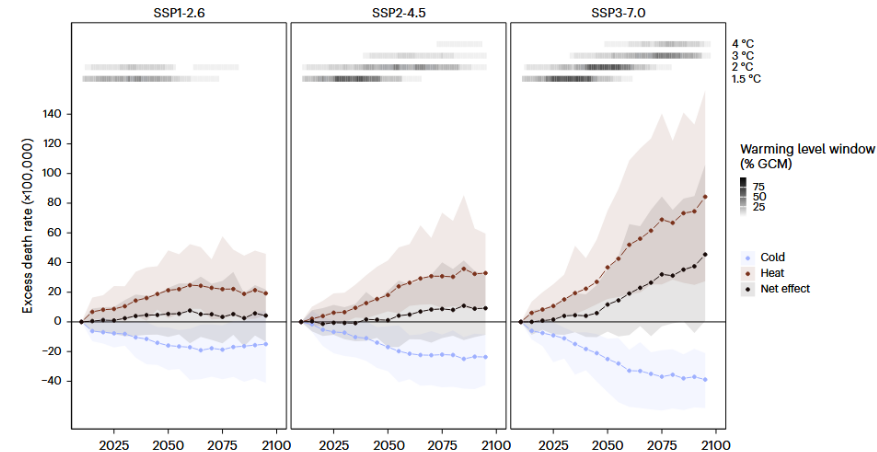
Projections of temperature-related deaths across Europe

- Several scenarios

*Masselot et al. (2025)
Nat. Med.*

Net increase of temperature-related deaths

- Across all scenarios



Adaptation to heat

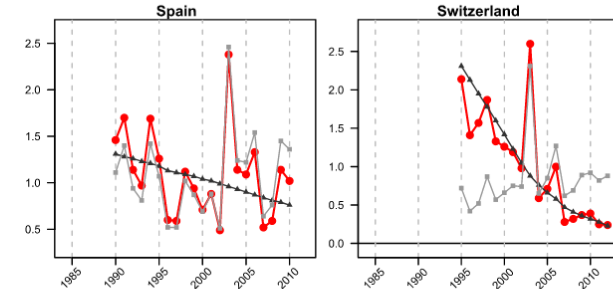
Evidence suggests adaptation to heat since the 90's

- Populations are less vulnerable

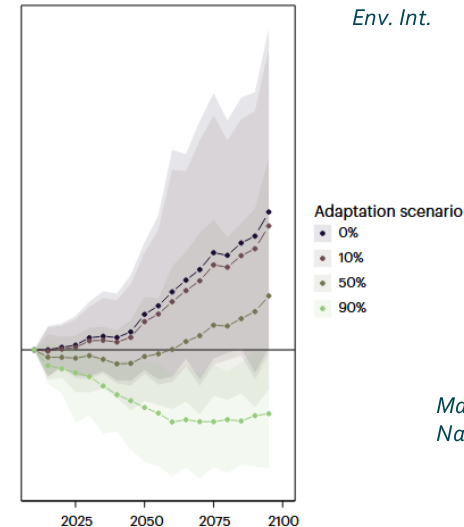
What this trend continued?

An important level of adaptation would be necessary to balance increased heat exposure

Adaptation to heat will **not be enough**



SSP3-7.0



Vicedo-Cabrera et al. (2018)
Env. Int.

Masselot et al. (2025)
Nat. Med.

Heat and cold are **important risk factors**

Climate change is **increasing exposure to heat**

Climate change is already responsible for many heat-related deaths

The net burden **should increase in the future**

Adaptation is not enough, **we have to reduce emission**

Other impacts of climate change on mortality

Climate change will increase exposure to environmental exposures

Floods

- Dana floods in Valencia 2024

Tropical cyclones

Some air pollutants

- Ozone



By Pacopac - Own work, CC BY-SA 4.0



Thank you for your attention

pierre.masselot@lshtm.ac.uk

EHM Lab website





Session 3: Are our buildings prepared for climate change ?

John Pike



Philippa Simpson



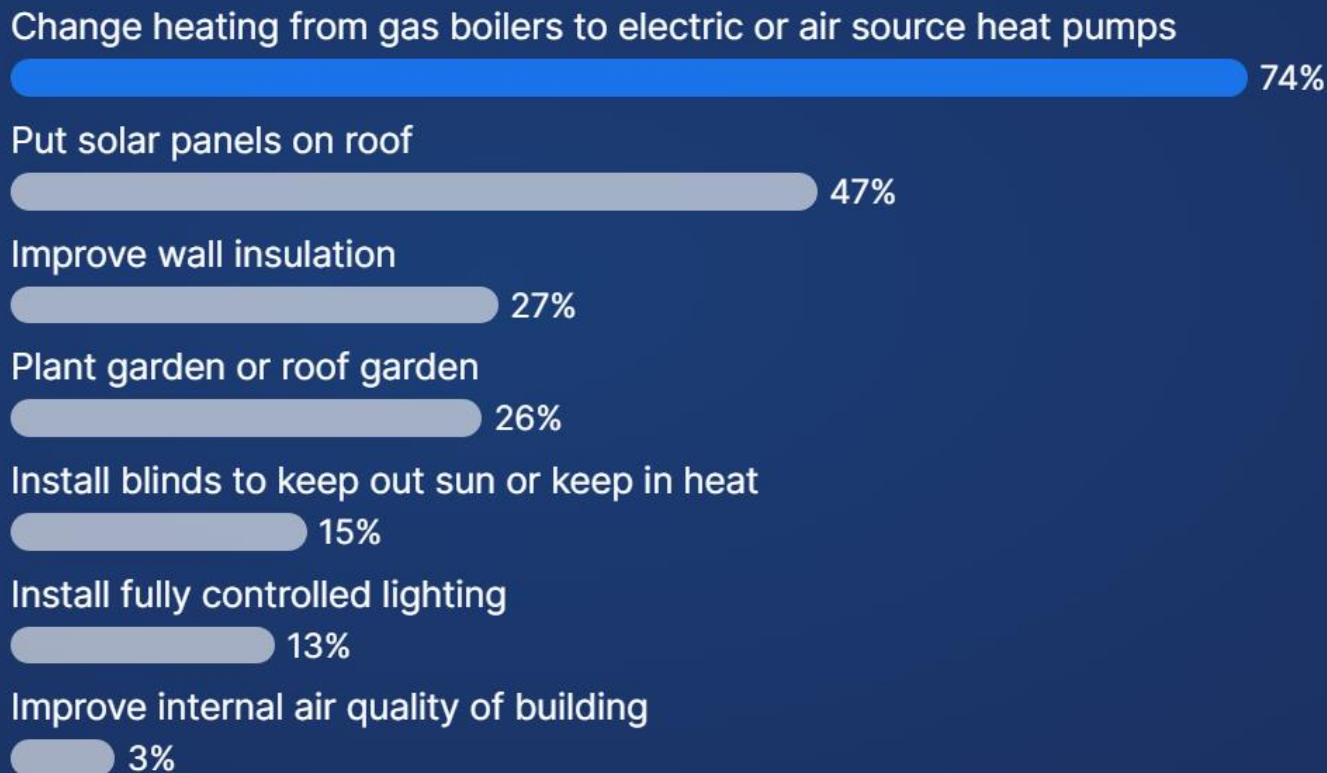
James Ritson



James Fisher



S3: How should owners of commercial/public buildings reduce carbon emissions?



S3: Which of these principles best describes how you would approach care of a public, heritage site in the face of major climate change:

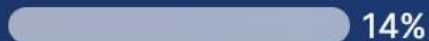
Accept some visitor discomfort/loss of access to minimise both carbon use and heritage loss



Accept some compromise in carbon footprint to ensure universal access



Make major alterations to ensure maximum efficiency, accepting heritage loss



Restrict access to limit energy use



A Barbican For the Future: Protecting and Promoting a Brutalist Icon

26/1/2026

barbican



Context

- 1.8 million visitors a year
- 4,000 events
- Two Theatres, Three Cinemas, Two Art Galleries, A Concert Hall, Three Catering areas, A Lake and Terrace, A Sculpture Court, and the UK's second largest Conservatory
- 380 staff
- 4,000 residents

Challenges

- Carbon (embodied and operational)
- Climate Change
- Biodiversity
- Inclusive design
- Heritage fabric (listed status)
- Ambition

Conservatory

- Passive control vs visitor comfort
- Access vs embodied carbon





Failing envelope



Water ingress



Planting conditions



Declutter



Access

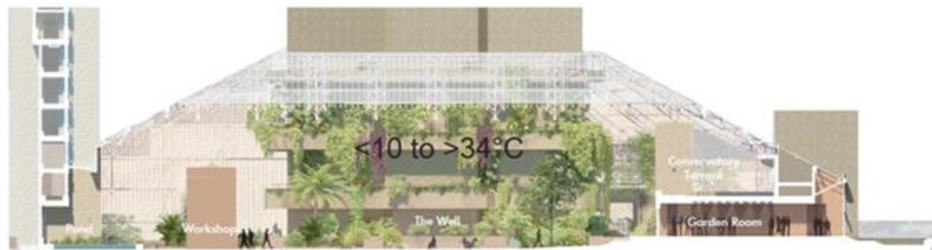


Create a consistent entrance

Conservatory

barbican

Conservatory



Existing section



Proposed section

Temperature ranges



Stairs & Lift

barbican

Lakeside

- Energy use vs Heritage
- Comfort vs embodied carbon



Lakeside



Interiors

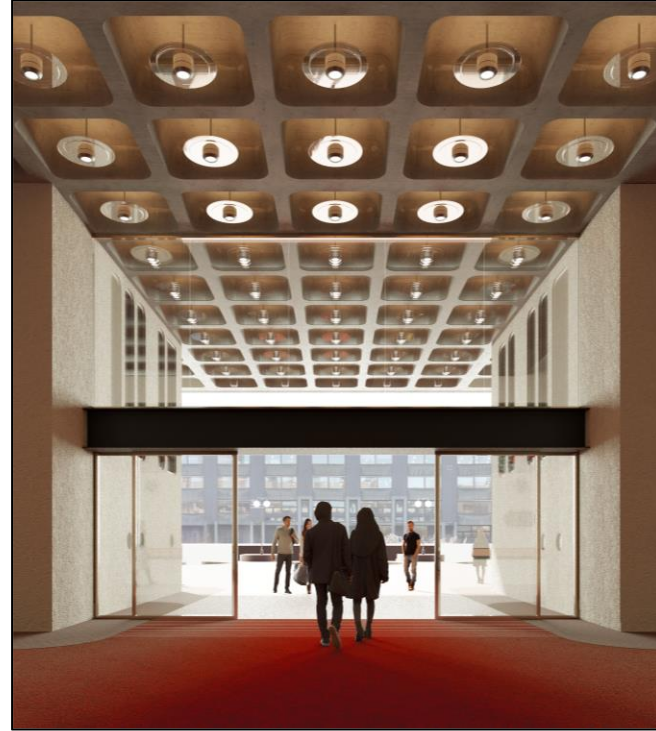
- Efficiency vs Heritage
- Comfort v Carbon



Interiors



Heritage Lights



New doors

barbican

Thank you!



The City of London
Corporation is the founder
and principal funder
of the Barbican Centre

barbican



University of the
Built Environment
EST. 1919

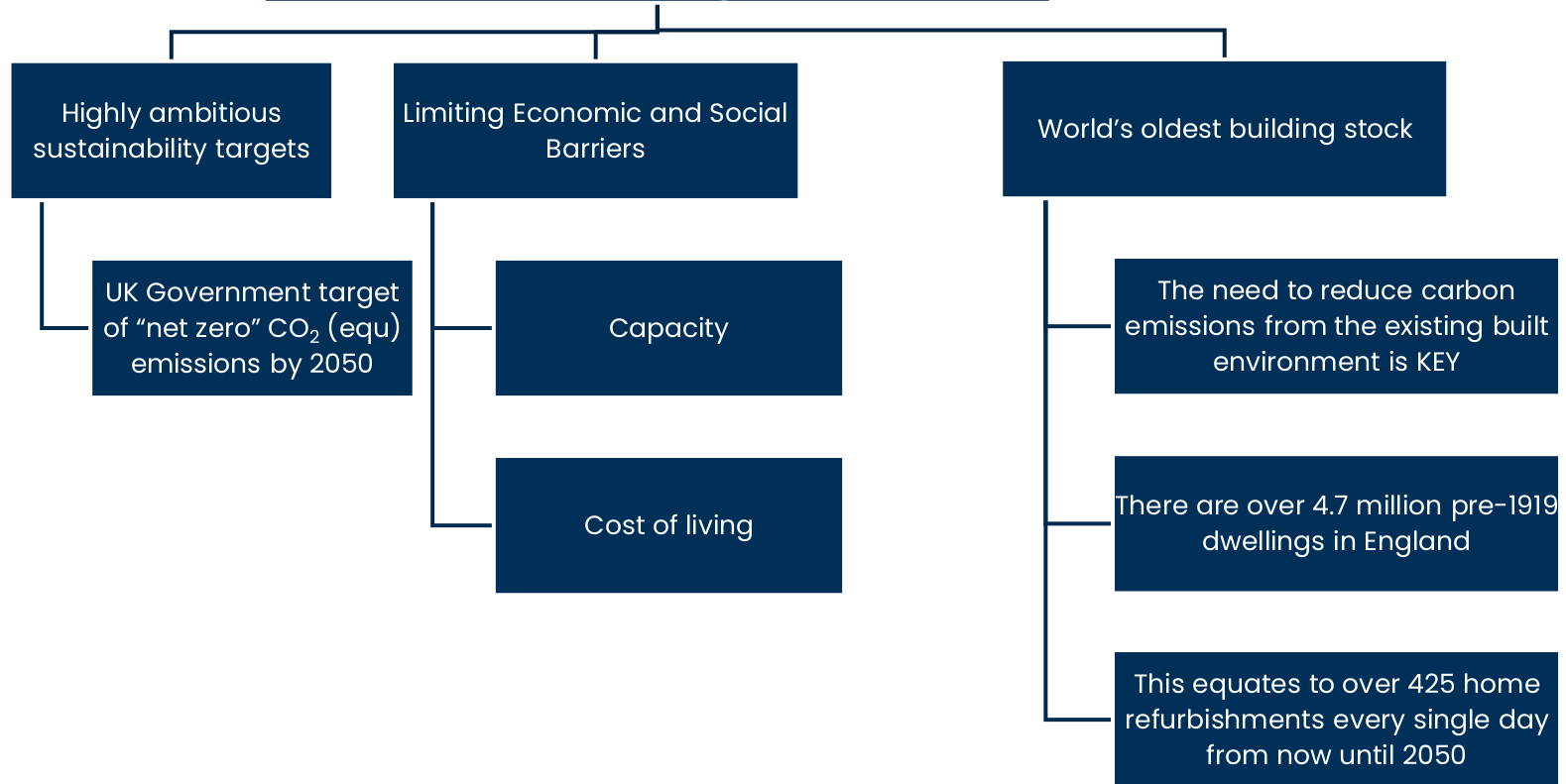
The crossroad of mitigation and adaptation

Dr James Ritson

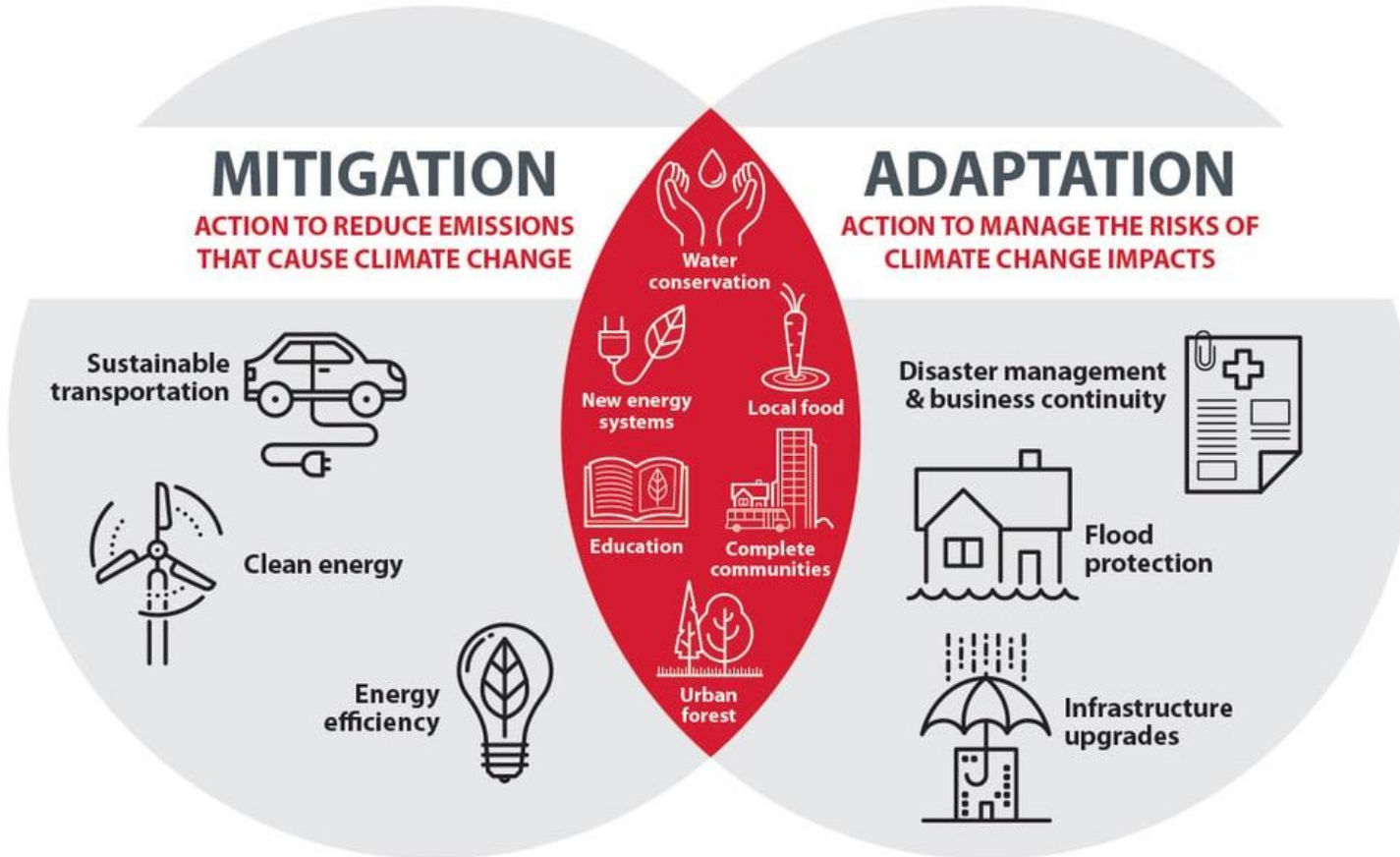


Context and Numbers

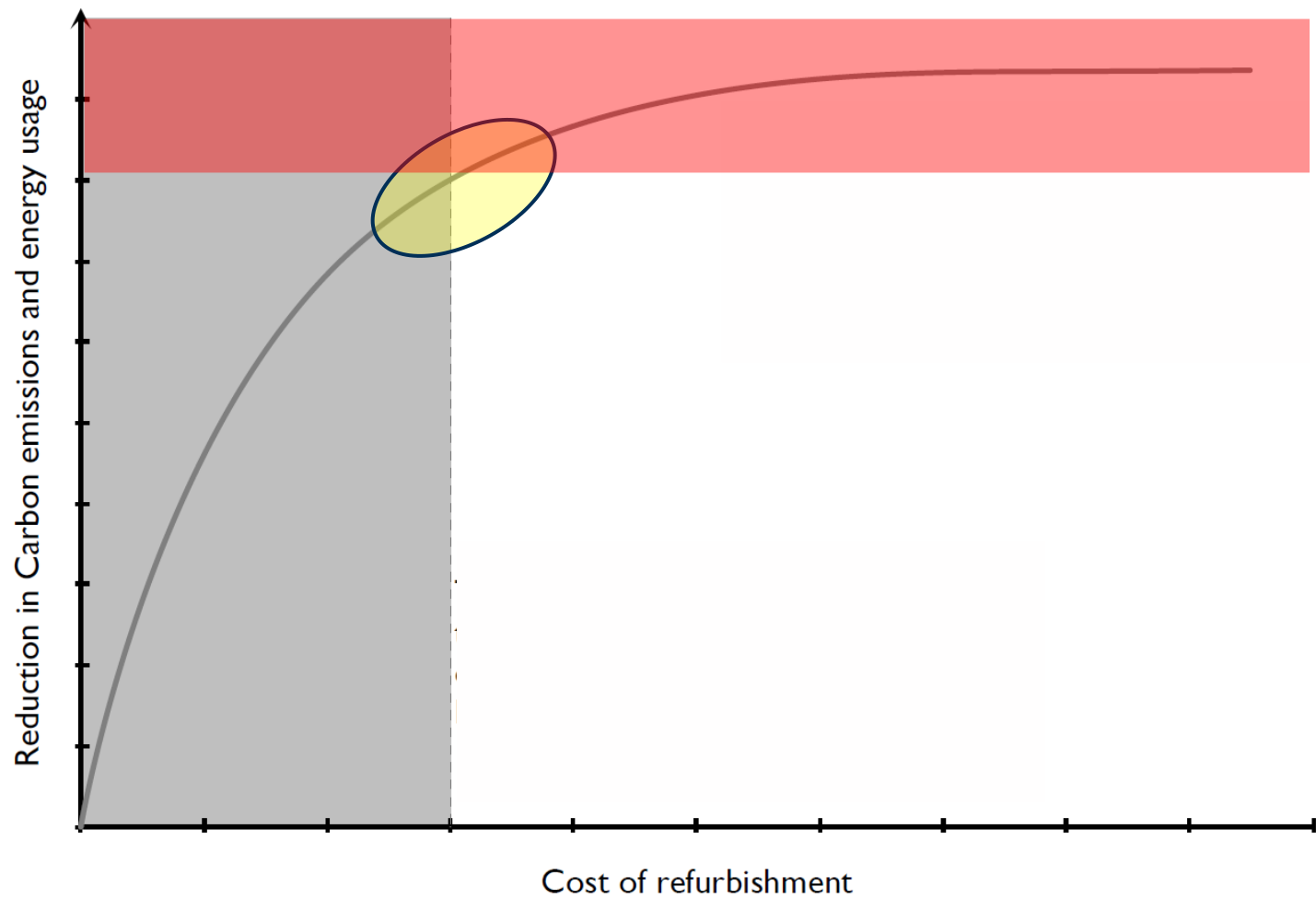
The UK faces unique challenges

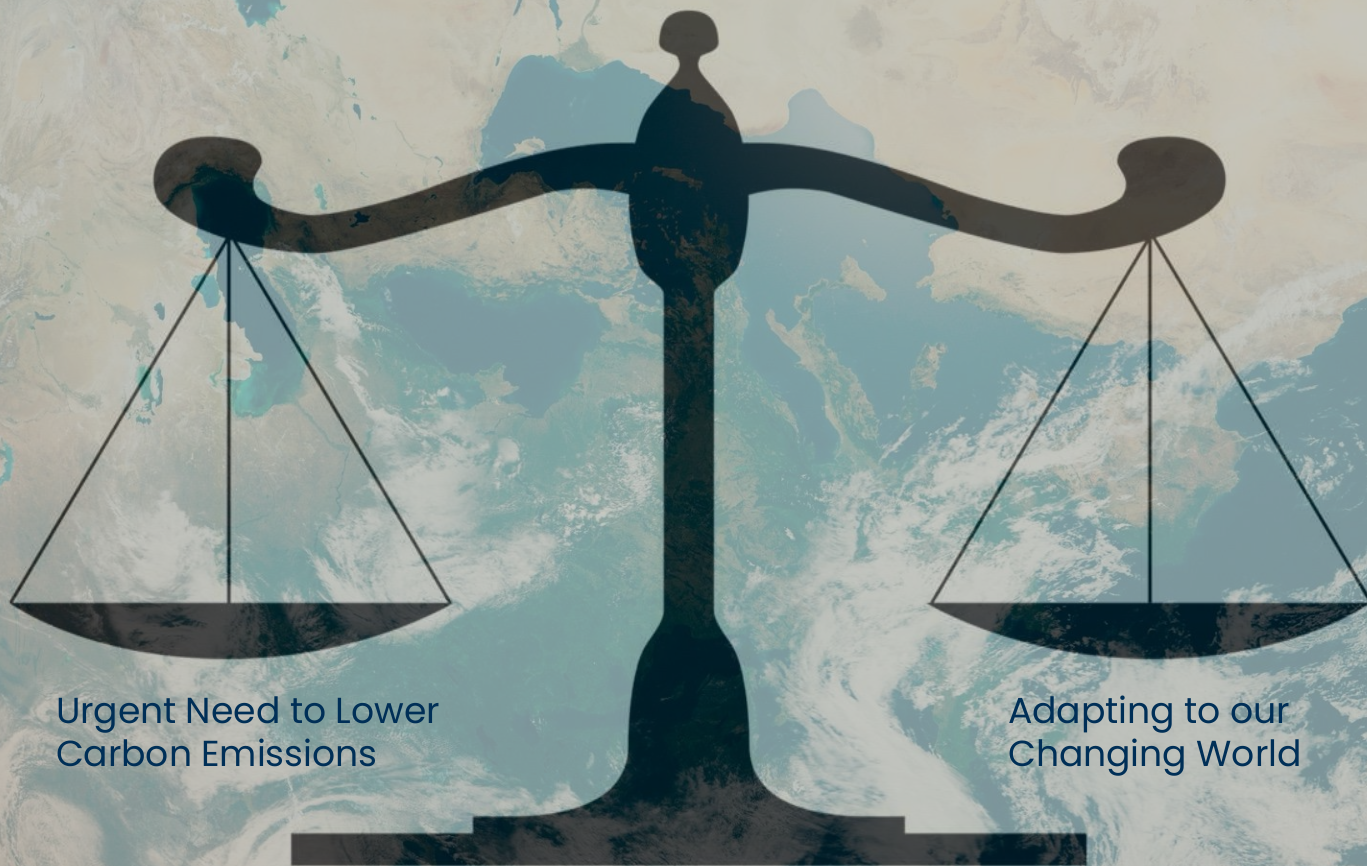


Building Climate Resilience



The Tipping Point



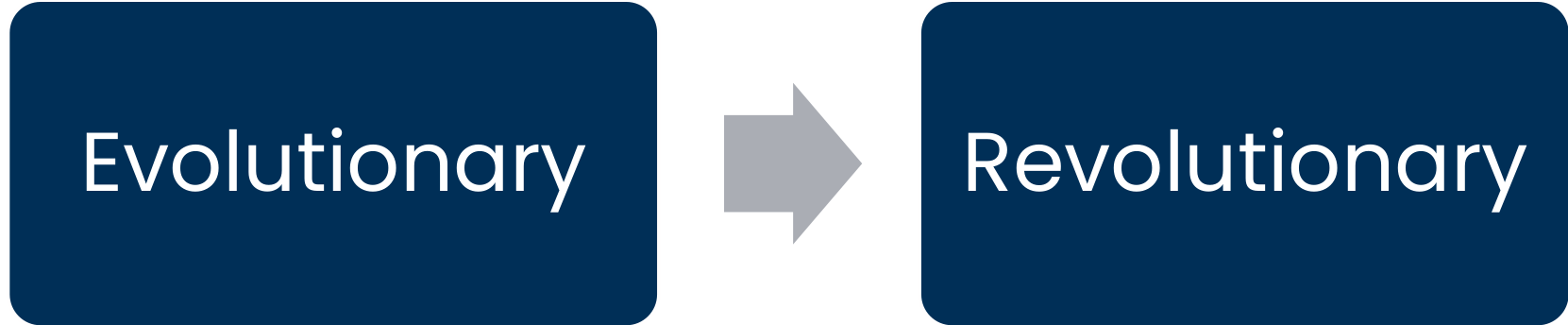
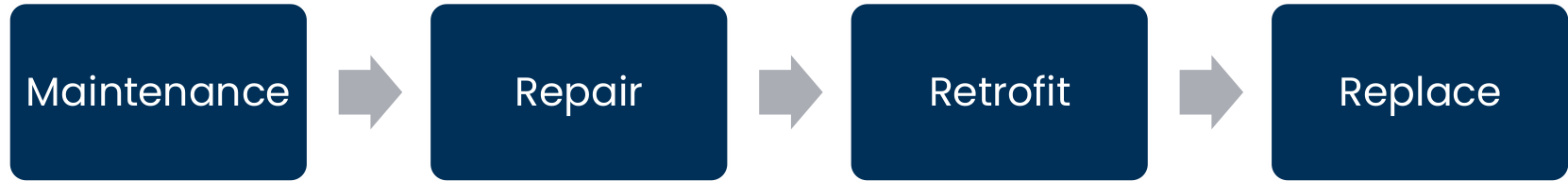


Urgent Need to Lower
Carbon Emissions

Adapting to our
Changing World

A Homogenous Solution to a Heterogenous World





Conclusion



Building services

- Core to sustainability
- Most likely to be updated
- Needed to regularly maintained
- Design in access and serviceability



Design in flexibility

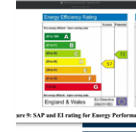
- Design for adaptation
- Allow the building to be flexible
- Make sure the service can be accessed and updated
- Mitigation and adaptation to our changing world



Maintenance

- One of the most energy-efficient ways to preserve historic buildings is to ensure that continued, regular maintenance safeguards their historic fabric.

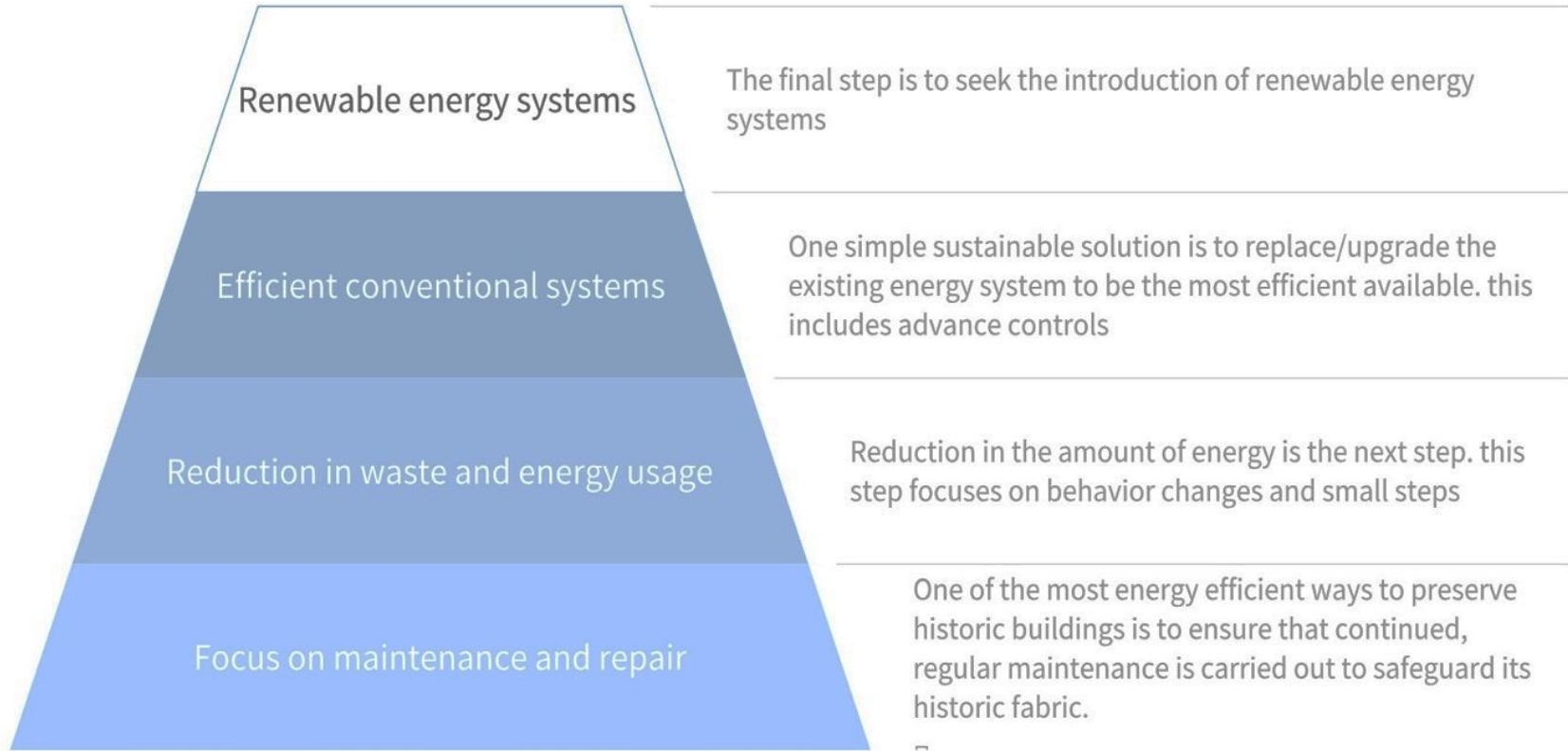
Historic England
2018



Measure Correctly

- Current standards are designed for new builds
- Dynamic modelling is more accurate
- Measure the actual performance
- Embodied carbon is a key measure

Steps to Sustainability



Thank you Any questions

'We shape our buildings: thereafter they shape us.'

Winston Churchill

Contact – j.ritson@ube.ac.uk





www.breeam.com

LCAG Conference | Resilience That
Pays: Unlocking Asset Value with
BREEAM

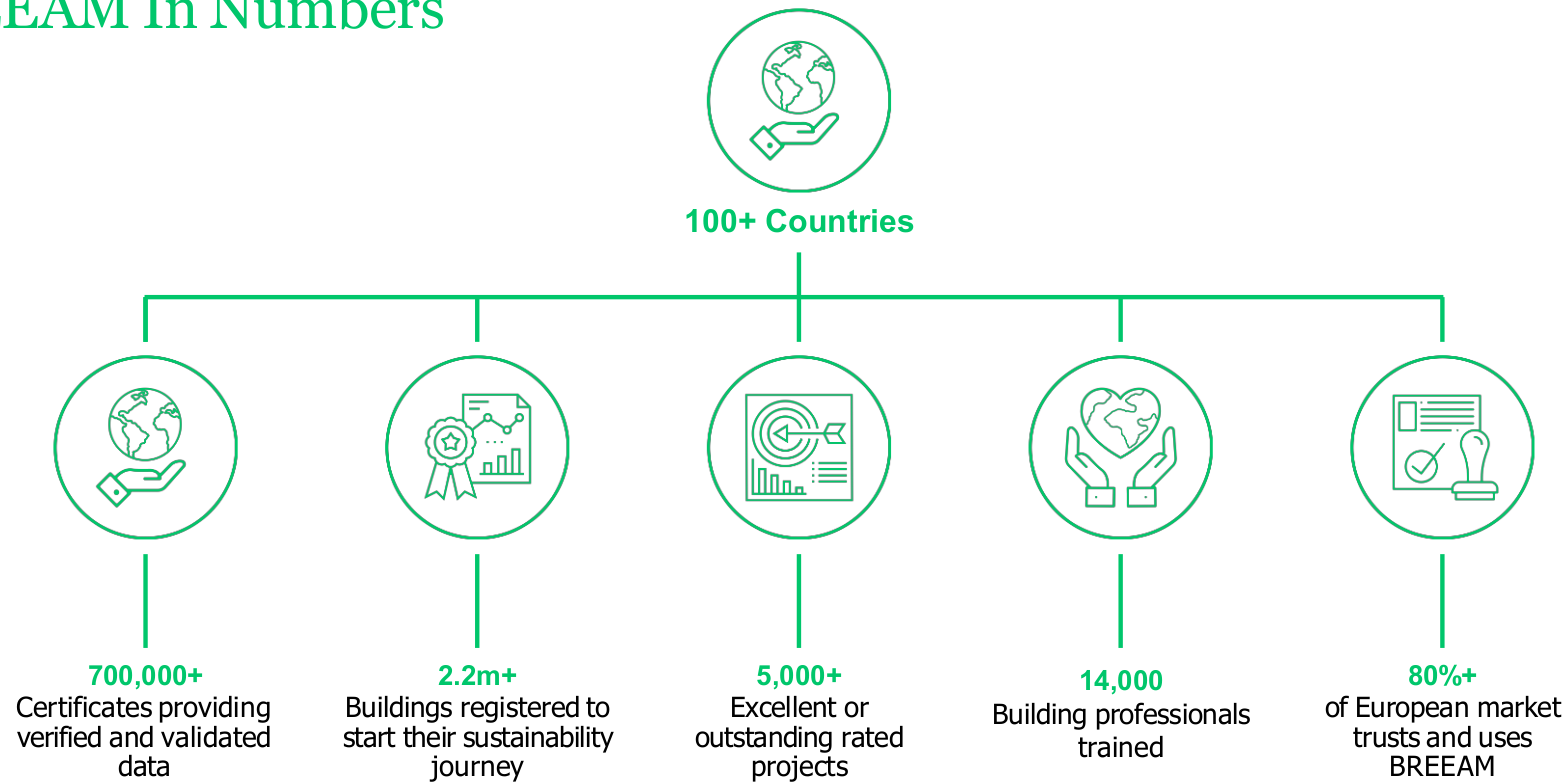
James Fisher
Head of Strategic Partnerships

London | 26 January 2026

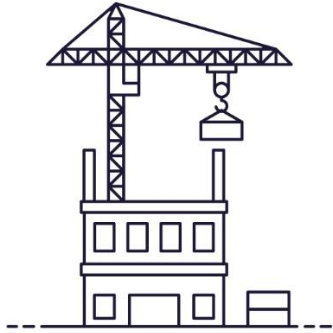
james.fisher@bregroup.com



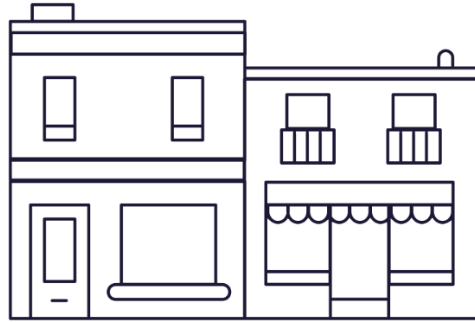
BREEAM In Numbers



BREEAM V7 | Covering All Lifecycle Stages



New construction



Refurbishment and fit-out



In-use

[illegible]

BREEAM® UK

Code for a Sustainable Built Environment
www.breem.org.uk

Final Certificate Number: BREEAM-0000-0001 Issued

Greenstores Warehouse
75 Eco Street,
London,
N5 1BU

Assessed for: Greenstores UK Ltd
by: Smith & Sons Assessing Ltd
Assessed on: 12/09/2011
BREEAM Version: 2009
Certificate Number: 0000

BREEAM New Construction 2014: Industrial
(Shell only)

Overall Score: 82%
Rating: Outstanding

★★★★★

Category Scores	0	10	20	30	40	50	60	70	80	90	100
Management											
Health and Wellbeing											
Energy											
Transport											
Water											
Materials											
Waste											
Land Use and Ecology											
Pollution											
Innovation											

Signature
"OUTSTANDING" 01 January 2014
Ref: 0001

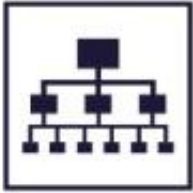
BREEAM
UK

For more information on the BREEAM system and how to become a Green Store, please visit our website at www.breem.org.uk
For more information on the BREEAM system and how to become a Green Store, please visit our website at www.breem.org.uk
For more information on the BREEAM system and how to become a Green Store, please visit our website at www.breem.org.uk
For more information on the BREEAM system and how to become a Green Store, please visit our website at www.breem.org.uk

bre

© 2014 BRE Ltd. All rights reserved.

BREEAM In-Use Assessment Categories



MANAGEMENT



HEALTH &
WELL-BEING



ENERGY



TRANSPORT



WATER



RESOURCES



RESILIENCE



LAND USE &
ECOLOGY



POLLUTION

BREEAM V7 | Operational Carbon



- Compliance modelling
- All project types
- Prediction of operational energy consumption
- Third Party Verification of Energy Model
- Operational Energy Performance
 - Credits based on Carbon Use Intensity (CUI) & Energy Use Intensity (EUI)
- Commitment to measure energy performance in use
- Fossil fuel free for Outstanding rating
- Building efficiency first & onsite renewables
- Flexible Demand Response
- Performance compared to a 1.5° trajectory.

BREEAM V7 | Embodied Carbon

- Credits awarded for doing a full Life Cycle Assessment
 - Concept stage; Technical design; Post-construction
 - Any stage for excellent, all stages for Outstanding
- Embodied Carbon benchmarks for all building types
- Submission of LCA and associated data to Public Database
- 3rd party verification of LCA's
- For all project types.

Project Name Project Sector Assessment Date Assessment By (company) Location of Data	Apollo Retail 8/31/2023 Ale Industries -	Upfront Embodied Carbon A1-5 exc. sequestration (kgCO ₂ e/m ²)	Life Cycle Embodied Carbon A1-5, B1-5, C1-4 (kgCO ₂ e/m ²)
A++		100	0
A+		200	0
A		300	300
B		400	400
C		500	500
D		625	625
E		750	750
F		875	875
G			
Non-Listed Typology:			
Sequestered Carbon:			0 kgCO ₂ e/m ²
Credits:			4
Module D:			40 kgCO ₂ e/m ²

BREEAM V7 | Whole Life Carbon – Upfront & Embodied

Carbon impact of water

- Regulated
- Unregulated
- Predicted

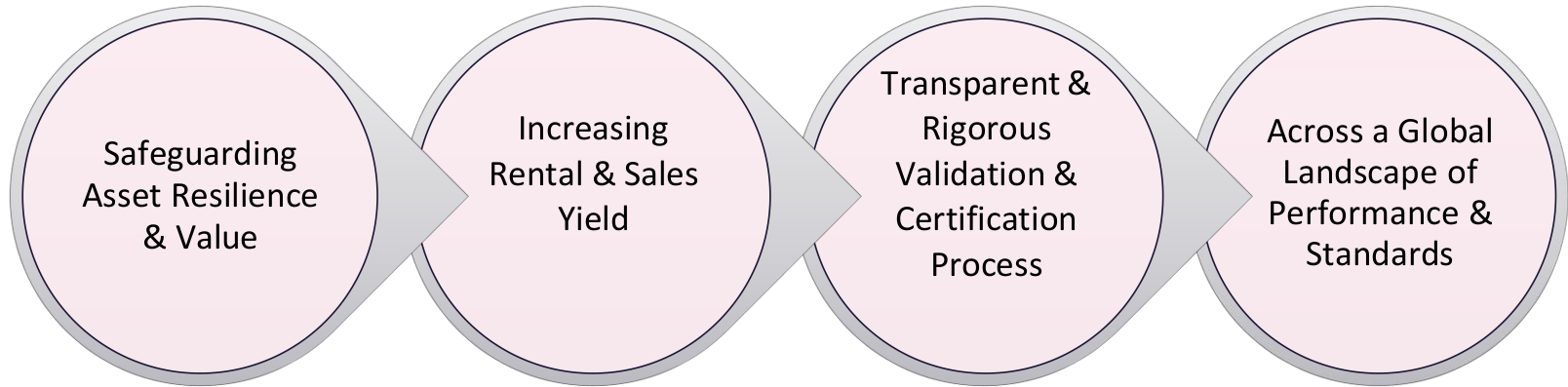
Operational Carbon at B6-B7

Refrigerants

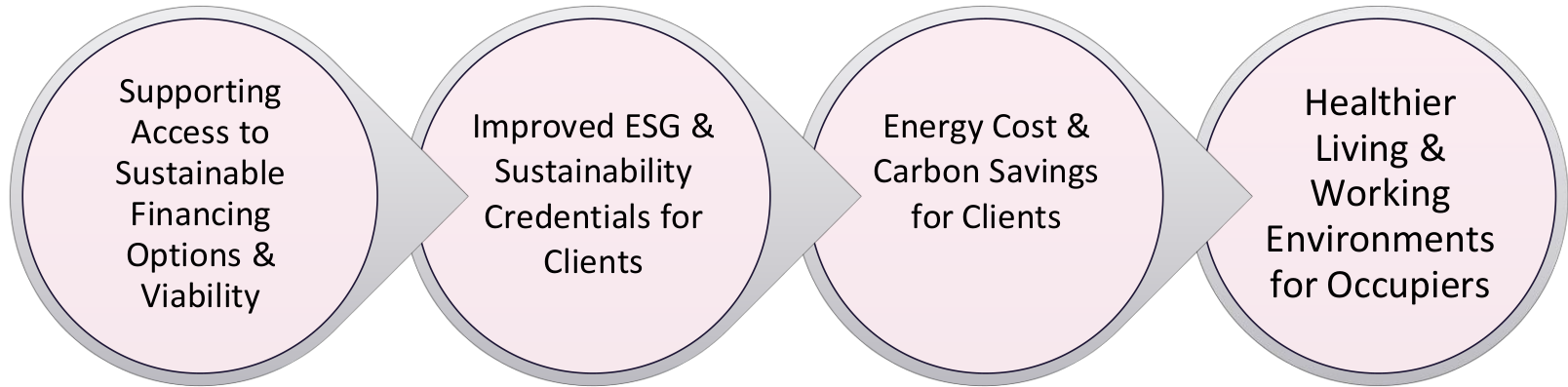
One additional aspect is the consideration of refrigerant, not just for the GWP, but also for the efficiency of the equipment as part of the refrigerant assessment. Needed for Outstanding.

Life Cycle Stage		kgCO ₂ e/m ²
A1-A3	Construction Materials	100
A4	Transportation to Site	25
A5	Construction/ Installation Process	10
B1-B3	Use, Maintenance and Repair (Inc. Refrigerant Leakages)	30
B4-B5	Material Replacement and Refurbishment	50
B6	Lifetime Energy Use	50
B7	Lifetime Water Use	5
C1- C4	Deconstruction	15
D	External Impacts	-15

BREEAM | Beneficial Owner Benefits



BREEAM | Advisory & Assessor Benefits



Value Creation From BREEAM

- Knight Frank, 2021 looking at central BREEAM Certifications increase prime central London office rents (2,701 properties) by up to 12.3%:

BREEAM **Very Good**
certifications results in a
3.7%
premium

BREEAM **Excellent**
certifications results in a
4.7%
premium

BREEAM **Outstanding**
certifications results in a
12.3%
premium

- CBRE, 2023* (continental Europe) Logistics properties with BREEAM certification achieve a 25bps five-year median valuation premium compared to market Prime Net Yield.
- Academic evidence** indicates a mean impact of green certification on commercial investment properties of 6.3% for rental income and 14.8% for sales price



* The Value of Sustainable Building Features, Continental Europe report, CBRE 2023

** Leskinen et al, 2020 <https://doi.org/10.3390/su12072729> (broadly aligns with summary of academic evidence in CBRE, 2023, as above)

BREEAM®
Example Client Adoptions



VALUE RETAIL

MERCIALYS



CBREIM

CBRE Investment Management is a leading global real assets investment management firm with \$155.8bn in assets under management operating in more than 30 offices and 20 countries around the world.



CBRE Investment Management use BREEAM as a method to measure success. It provides consistency and comparability in our environmental assessments. We implement it across funds and portfolios in many locations and utilise the assessment outcomes to continuously drive improvement."

Robbie Epsom, EMEA Head of ESG, CBREIM



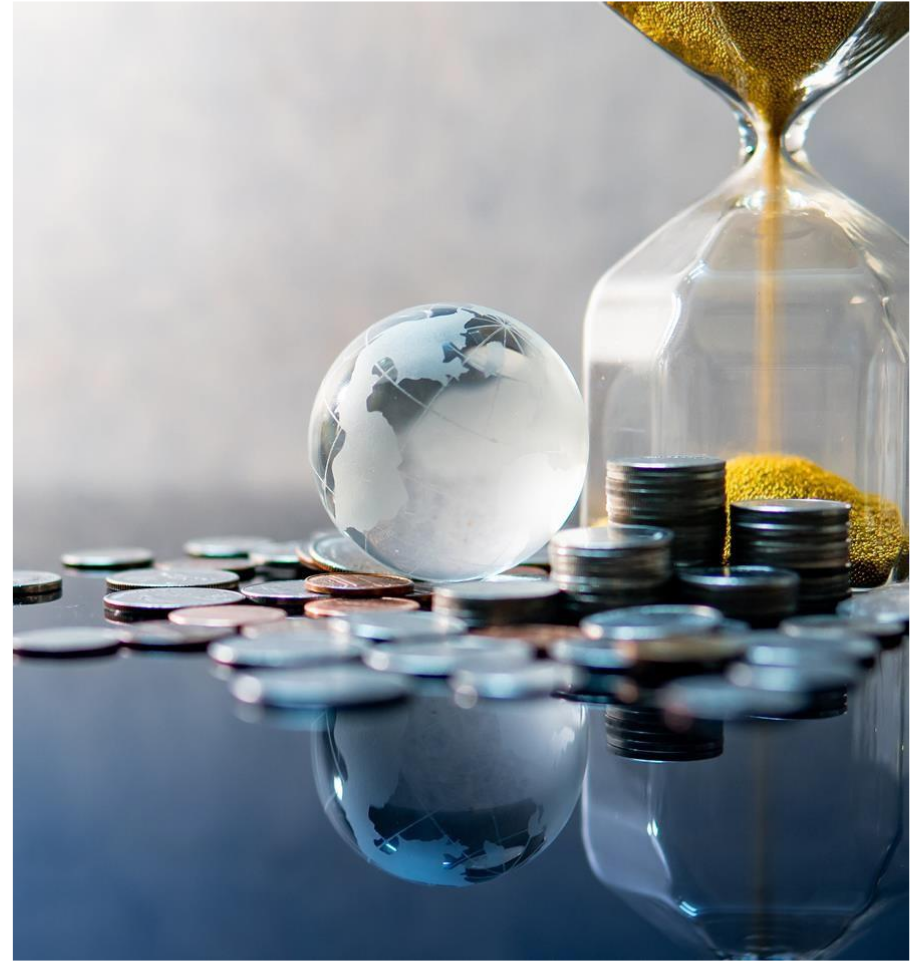
- CBREIM use the outcomes from the certifications to continuously drive improvement
- CBREIM engage with BREEAM, so we can feed into the future of the assessment schemes
- BREEAM is a solid performance indicator for CBREIM's Sustainability vision, for both direct and indirect portfolios
- CBREIM Sustainability Vision focuses on three main themes - Climate, People and Influence.
- CBREIM will use BREEAM to support their goals in climate resilience and driving the transition to net zero carbon.

EU Taxonomy Alignment

Sustainable finance has a key role to play in delivering on international commitments on climate and sustainability objectives.

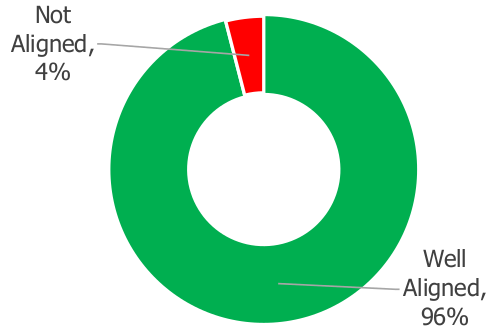
The EU Taxonomy is a clear and detailed classification system used to define environmentally sustainable economic activities

A direct comparison of the areas covered by BREEAM and the EU Taxonomy shows that using BREEAM will ensure investors and financial institutions are well equipped for documenting the criteria and requirements of the EU Taxonomy against their built environment assets.

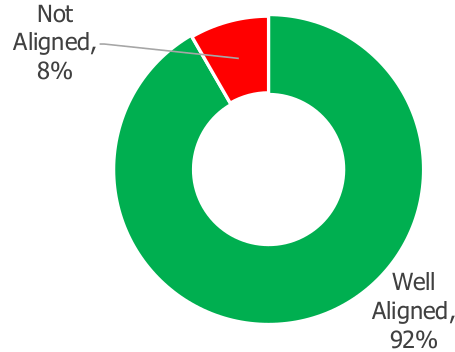


EU Taxonomy Alignment

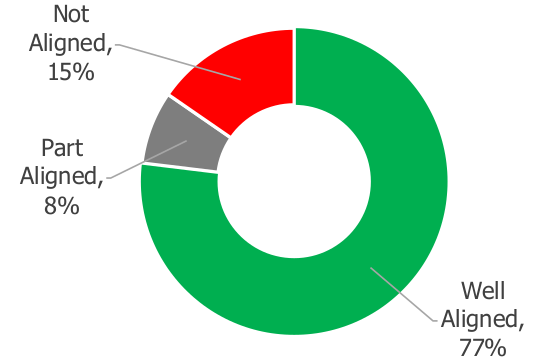
Climate Delegated Act:
Climate change mitigation



Climate Delegated Act:
Climate change adaptation



Environmental Delegated Act:
Transition to circular economy



Substantial Contribution & Do No Significant Harm (for a commercial building)

Sustainable Finance & collaborative working across global green building organisations

June 2024 | *A guide to green building for green bonds and green loans* | How schemes map to markets

November 2024 | *Financing market transformation* | What schemes need from markets

June 2025 | *Unlocking Capital* | Alignment of green building certifications with ASEAN Taxonomy

October 2025 | New alliance focused on assessing sustainability of materials used in construction

2026 | New alliance focused on the challenge of Data Centres & AI.



Real Example: CTP Places 1B EUR in Green Bond Framework

CTP

CTP is Europe's largest listed owner, developer, and manager of logistics and industrial real estate in terms of gross lettable area, with 12.0 million sqm GLA in 10 countries (as of 31 March 2024). The company certifies all buildings under BREEAM at 'very good' or above and has achieved a low-risk ESG rating from Sustainalytics, reaffirming its commitment to sustainability. For more information, please visit: www.ctp.eu

CTP's Green Bond Framework, developed in alignment with the 2018 Green Bond Principles endorsed by the International Capital Market Association, underscores CTP's dedication to environmental sustainability and corporate social responsibility. This framework guides the financing of projects that enhance sustainability in operational practices and infrastructure development. The framework ensures rigorous project evaluation, the responsible management of proceeds, and comprehensive reporting to maintain transparency and integrity in its environmental commitments.

Notably, the framework has supported the certification of several green buildings within CTP's portfolio. For instance, CTPark Bucharest West boasts nine buildings certified as 'Very Good' and two as 'Excellent'. Its Clubhouse achieved BREEAM Outstanding rating and features a rooftop solar system covering 20% of its energy use, complemented by ISO 50001 and ISO 14001 certifications. Similarly, CTPark Budapest West highlights include a 0.5 MWp photovoltaic system installed during 2021–2022 and a cultural landmark with a 4,800 sqm mural painted by local artists, marking its commitment not only to environmental sustainability but also to community engagement.



Creating Future Value

- Integrate climate risk into underwriting and valuation processes.
- Support owners who are moving assets through the transition to alleviate stranding.
- Accurate assessment of the financial risks.
- Digitalisation to simplify reporting.
- Support industry in reaching consensus on frameworks.
- Constantly update data requirements for monitoring.





Session 4: How fragile is our food chain ?

Alison Gowman



Lucinda Langton



Tim Lang



S4: Which one of these statements best describes your shopping habits

Plan in advance and buy accordingly



49%

Rely on my partner/parent to provide food and meals



25%

Grow all my own vegetables/fruit



9%

Shop by the day



6%

Mostly eat out and buy food as and when



6%

Large store cupboard with lots of supplies in case of emergency



6%

BUILDING RESILIENCE IN M&S FOOD'S SUPPLY CHAIN

LUCINDA LANGTON, M&S FOOD

JANUARY 2026

THIS IS NOT JUST FOOD

M&S
— FOOD —

M&S FOOD

£9.02bn

Revenue

>95%

Own label

c.4%

Market share

9,300

UK livestock and aquaculture farms

A-lists

Strongest sourcing standards

360

UK fruit and veg farms

THE NEW NORMAL FOR OUR FARMERS

2023

'Smashed': summer of 2023 the hottest ever recorded

The climate crisis and emerging El Niño event pushed up temperatures and drove extreme weather across the world



UK farmers warn of rotting crops after Storm Babet flooding

National union members urge government to create water strategy to prevent such losses

- UK politics live - latest updates
- Business live - latest updates

2023



Cooler UK summer since 2015



2024

2024

Grocer

Thousands of hectares in Valencia destroyed after deadly flash floods hit the region

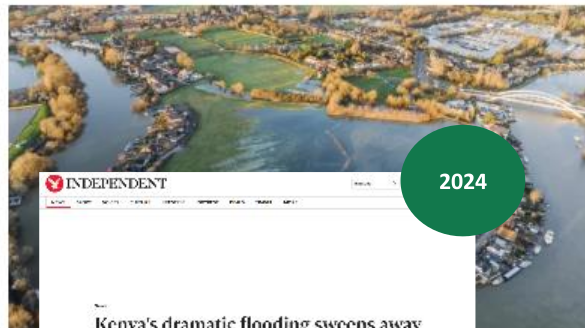


2050
??

BIG READ

Farmland seven times the size of London could face flooding by 2050

Over six million properties in England are currently at risk of flooding, with this number expected to increase to eight million by 2050



2024

INDEPENDENT

Kenya's dramatic flooding sweeps away a central part of the economy: Its farms

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

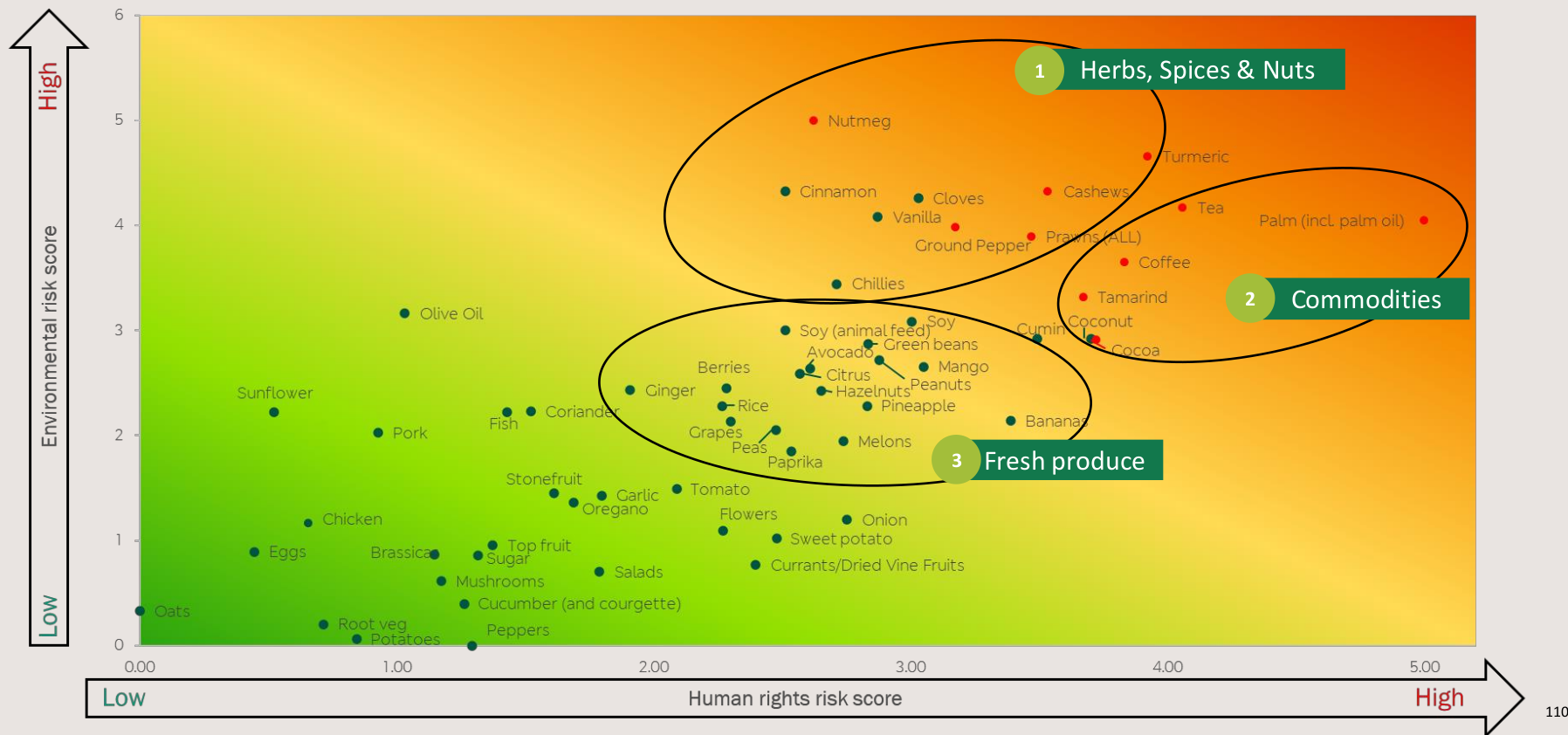
Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

Kenya's farm and financial sectors are expected to be hit hard by rising sea levels

M&S FOOD
UNRESISTIBLY
FOODIE
MARKET

THIS IS NOT
JUST FOOD

WE KNOW THE RISKS FOR OUR TOP 50 RAW MATERIALS



LAUNCHED PLAN A FOR FARMING IN 2025

"We're backing our farmers in their call for government to step up – starting with a clear, legally binding target to increase the proportion of food eaten in Britain that is grown here."

Alex Freudmann,
M&S Food



"It is good to see retailers championing British farmers, particularly at a time when so many farm businesses are facing huge challenges. M&S's support will be a confidence boost to many"

Tom Bradshaw, NFU President

Plan A. FOR FARMING 2030

At M&S, our commitment to farming is deep-rooted and unwavering. For decades, we've proudly partnered with farmers to deliver exceptional quality food while championing the highest standards of animal welfare and environmental care.

Through our Plan A for Farming 2030, together with our farmers we're working to build a resilient, sustainable food future that protects the land, supports rural communities, and ensures brilliant quality ingredients for generations to come.



Scan to read more



Backing British Farming

2030 Ambition:

Ongoing commitment to sourcing 100% British on key proteins like Beef, Chicken, Pork and Eggs, whether fresh or ingredient, plus investing to extend the season of key British produce with our growers.



Sustainability at the Heart of Farming

2030 Ambition:

All British products available on shelves will come from farms using regenerative practices.

Invest £2.5m over next five years in trials with suppliers, farmers and growers to find innovative solutions to sustainability challenges.



Farming Standards You Can Trust

2030 Ambition:

Collaborating with farmers on industry-leading M&S animal welfare, quality and farming standards.



Investing in People, Growing the Future

2030 Ambition:

Long-term support in place for M&S Select farmers and the wider industry because people power our food system.



M&S FOOD
UNRESISTIBLY
FOODIE
MARKET

**THIS IS NOT
JUST FOOD**

OUR FARMING FOR THE FUTURE PROGRAMME AIMS TO BUILD RESILIENCE

Supporting **British** farmers and growers over the next **five years** to improve **biodiversity** on farm, build **climate** resilience and reduce **carbon**

1

EXPAND ENVIROMENTAL STANDARDS

Scale environmental farming standards across fresh produce, livestock and cereal supply base



2

SUPPORT OUTCOME MEASUREMENT

Improve on farm outcomes against soil, carbon, biodiversity and water



3

MANAGE WATER RISKS

Support British farmers in regions most at risk of drought, flooding and water pollution to become more resilient, protect rivers and water resources



WATER IS #1 IMPACT OF CLIMATE CHANGE

Reduce water risks for our products, people and planet

1 SCALE AND STRENGTHEN STANDARDS

Set a robust baseline; integrating water requirements into new and existing sourcing standards



2 BUILD RESILIENCE IN HIGH PRIORITY SUPPLY CHAINS

Develop M&S-led projects that mitigate risk from pollution and WASH, and insulate supply from drought and flood shocks




















3 SUPPORT COLLECTIVE ACTION

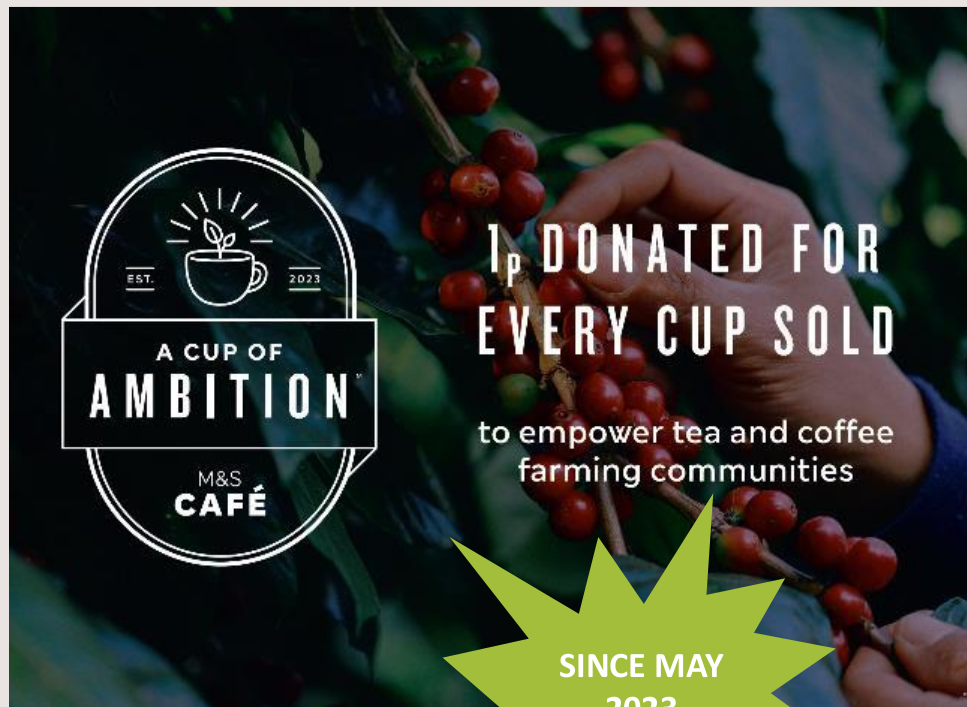
Support WRAP to deliver collective action projects and drive the industry forward



INNOVATION FOR CARBON REDUCTION & CLIMATE RESILIENCE

Y1	Low Carbon Parsnips 	Electrified Pasteurisation 	x2 Water Reduction Projects 	Green Hydrogen 	Low Carbon Roses 	Polytag 
Y2	Net Zero Wheat 	Methane Reduction 	Methane Measurement 	Biochar 	Early Season UK Tenderstem® Broccoli 	
Y3	UK Avocado 	Floating solar 	Regenerative orchards 	Orchard carbon removals 	Low emissions dairy flooring 	 <p>>£1m invested over 3 years</p>

BUILDING RESILIENCE BEYOND THE UK: CUP OF AMBITION



- We invest in projects which build **financial and climate resilience** and drive positive change in coffee, tea and cocoa supply chains.
- Our Cup of Ambition Fund has now supported more than 2,000 farmers across 6 different countries
- Our partners include:



Close

Thanks to all speakers, schools, delegates and many others for making today a success.

Please make your way upstairs for drinks, speeches and networking.

But before you go! Please complete a feedback form by scanning this code. (Or take a photo now and complete the form later)

