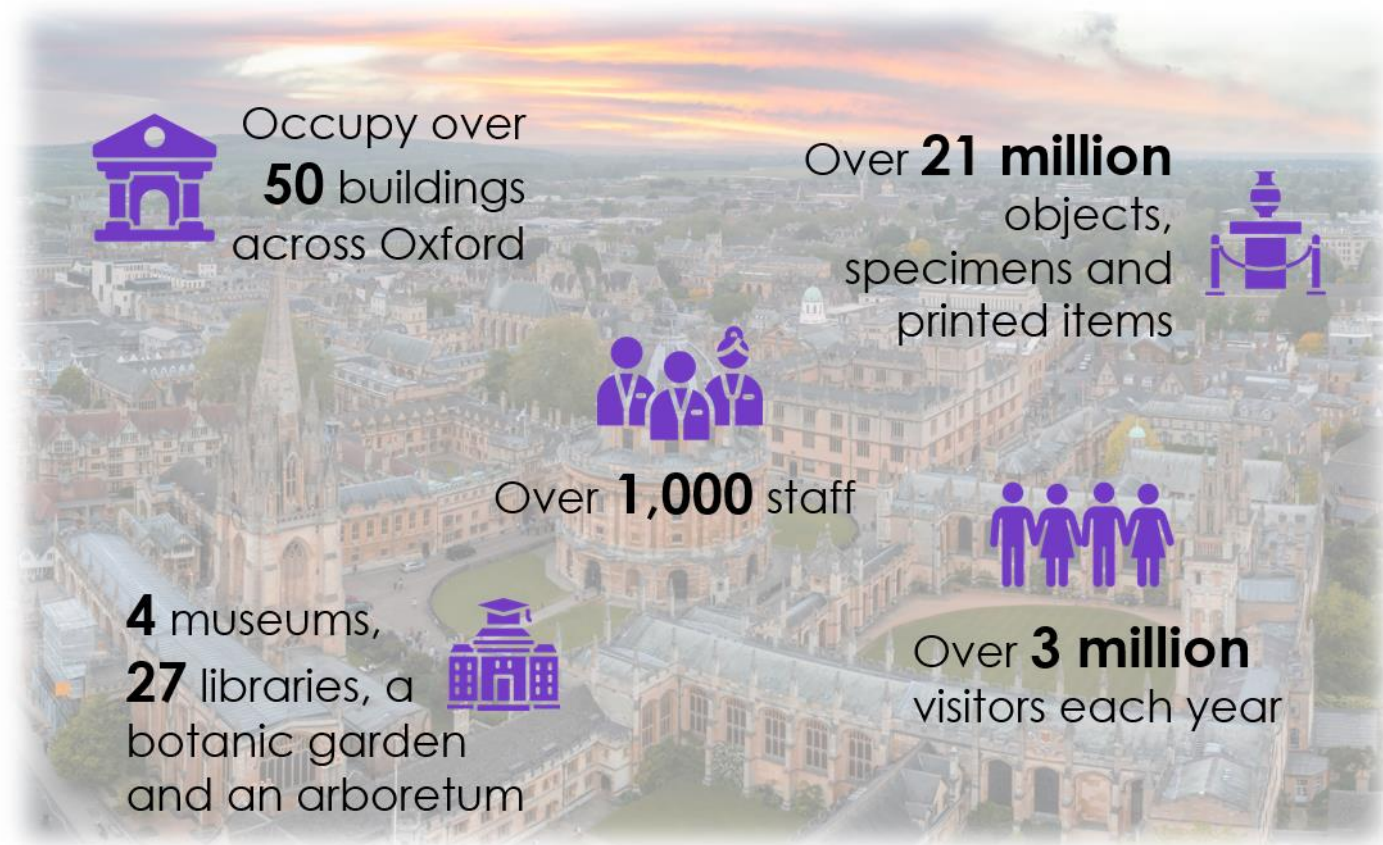


# Introducing the Gardens, Libraries and Museums

Oxford University's Gardens, Libraries, and Museums (GLAM) represent a diverse and prestigious group of institutions dedicated to the preservation, study and public dissemination of knowledge across a wide array of disciplines. GLAM comprises the:

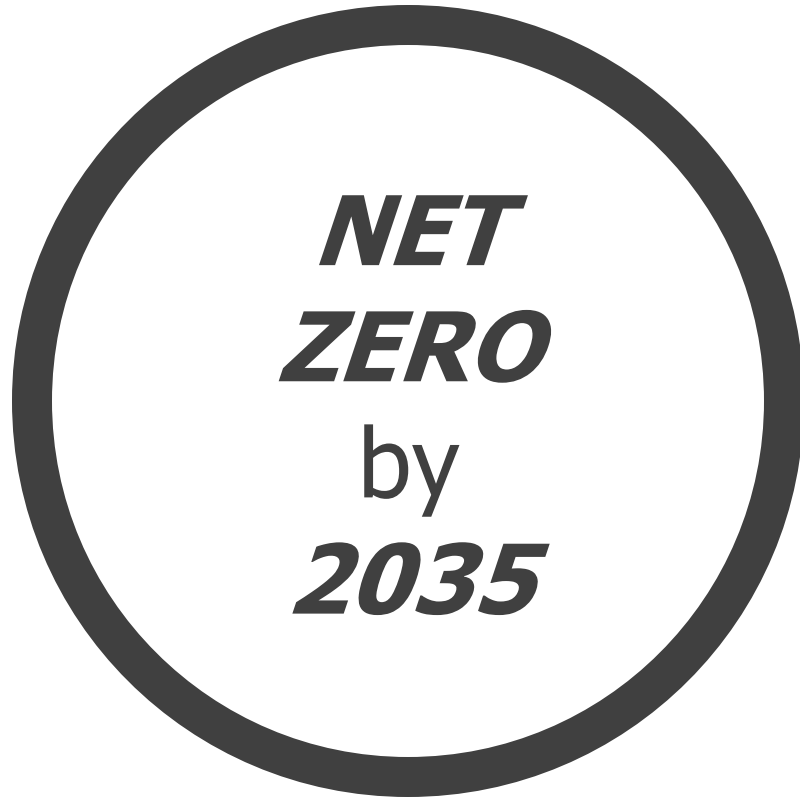
- Oxford Botanic Garden and Arboretum
- Bodleian Libraries
- Ashmolean Museum of Art and Archaeology,
- History of Science Museum
- Museum of Natural History
- Pitt Rivers Museum
- GLAM Divisional Office.

Each institution holds a unique and significant collection of artefacts, specimens and documents, offering invaluable resources for both academic research and public education. The GLAM Strategic Framework has a guiding principle of environmental responsibility.



# What is our net zero goal?

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## Developing target to...

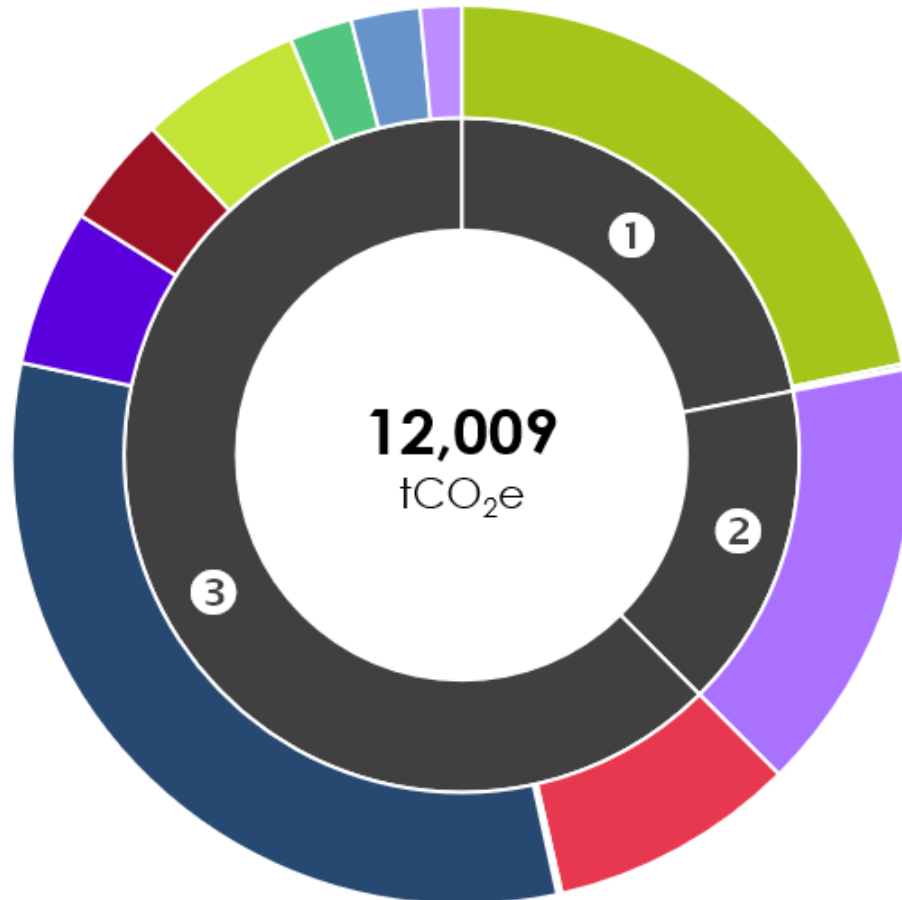
- ✓ *Align with university targets*
- ✓ *Cover all scopes of emissions*
- ✓ *Set interim targets at 2026 & 2030*
- ✓ *Only offsets residual emissions*
- ✓ *Be evidence based*
- ✓ *Inline with climate science*

# Carbon Footprint – Financial year 2021-22

The chart adjacent shows the GLAM carbon footprint for the year 2021-22. The chart includes all categories formally included within the boundary of the carbon footprint. Visitor and reader travel is excluded.

The total carbon emissions for the baseline year were 12,009 tCO<sub>2</sub>e. Scope 1 & 2 contributed 32% of overall emissions, whilst Scope 3 contributed 68%. The largest source of emissions within Scope 3 were purchases, making up 24% of the total emissions for the baseline year.

GLAM's carbon emission distribution  
(excluding visitor & reader travel)



SCOPE	CATEGORY	tCO <sub>2</sub> e	%
①	Fuels	2,612	16%
	Fleet	17	<1%
	Refrigerants	8	<1%
②	Electricity	1,874	16%
	T&D and WTT	1,065	8%
	Upstream Fleet	4	<1%
	Waste	3	<1%
	Water	13	<1%
③	Purchases	3,807	24%
	Retail	678	10%
	F&B	478	6%
	Employee & Volunteer Commuting	705	8%
	Home Working	269	3%
	Business Travel	298	4%
	Book, Manuscript & Object Travel	177	4%
	Cloud Based IT-Services	<1	<1%
	<b>Total</b>		<b>12,009</b>

# Carbon baseline – our boundaries

Our approach is informed by the Greenhouse Gas (GHG) protocol. This protocol is the world's most widely used greenhouse gas accounting standard.

This identifies the material emissions sources to be included and defining this allows for repeatability in future assessments. This enables effective measurement and management to guide clear reduction efforts.

The diagram adjacent provides an overview of the applicable emissions sources included in the boundary for GLAM's carbon footprint assessment

## SCOPE 1 & 2



Building Electricity Consumption



Building Gas Consumption



Fleet Fuel Consumption



Refrigerant Leakage

## SCOPE 3



T&D and WTT\*



Waste



Upstream fleet



Water



Purchases



Object travel



Retail



Homeworking



Business travel



Food and beverage (F&B)



Employee commuting



Cloud-based IT services



Investments









No data available












Visitor travel

Analysis available but not within formal boundary

# Carbon baseline – data sources and approach

SCOPE	EMISSIONS AREA	DESCRIPTION OF DATA SOURCE
	 <b>Fuels</b>	Monthly apportioned fuel (natural gas) consumption data via SystemsLink. Litres of diesel used for the sprinkler system in the Swindon Book Storage Facility also included.
1	 <b>Fleet</b>	Total distance travelled and/or amount of fuel consumed by Fleet vans.
	 <b>Refrigerants</b>	Engineer reports containing leak test data, including leakages, additions and refrigerant type within the baseline year.
2	 <b>Electricity</b>	Monthly apportioned electricity consumption data via SystemsLink.
	 <b>T&amp;D and WTT</b>	Data is the same as 'Fuels' and 'Electricity'.
	 <b>Upstream Fleet</b>	Data is the same as 'Fleet'.
3	 <b>Waste</b>	Tonnes per waste stream including disposal route provided through SystemsLink.
	 <b>Water</b>	Water consumption in m <sup>3</sup> provided through SystemsLink.

SCOPE	EMISSIONS AREA	DESCRIPTION OF DATA SOURCE
	 <b>Purchased Goods and Services</b>	Procurement spend including department, supplier, category and description.
	 <b>Retail</b>	Procurement spend including department, supplier, product type and description.
	 <b>Food &amp; Beverage (F&amp;B)</b>	F&B quantities with associated supplier provided LCAs, and catering commission from specific suppliers used for venue hire.
	 <b>Employee &amp; Volunteer Commuting</b>	Staff survey on commuting and working from home. Data extrapolated from survey respondents to total staff. A separate volunteer survey also used.
3	 <b>Working from home</b>	
	 <b>Business Travel</b>	Cost-based expenses and procurement data with some entries displaying travel mode and destination. Distance estimated based on cost. Flight levy data used for flight data.
	 <b>Book, Manuscript &amp; Object Travel</b>	Transport mode and start and end destinations for all object and courier travel, including inward and outward loans. Tonnage provided for some journeys.
	 <b>Cloud-Based IT Services</b>	Emissions associated with storage and access of data in off-site data facilities and servers. This could be associated with day-to-day operations or digital archives.
	 <b>Visitor &amp; Reader Travel</b>	Estimations of travel mode and distance based on audience survey providing partial postcodes or country of origin, and number of readers by types.