

# First steps in reporting Scope 3 emissions from procurement

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# Aim for today

- To discuss whether the Higher Education Supply Chain Emission Tool (HESCET) is suitable for calculating & setting targets for Scope 3 emissions from procurement
- To establish which institutions are working to calculate detailed Scope 3 emissions from their procurement, and how we might share knowledge on this topic
- **Not in-scope:** To examine HOW our institutes can reduce Scope 3 emissions from procurement



# Background



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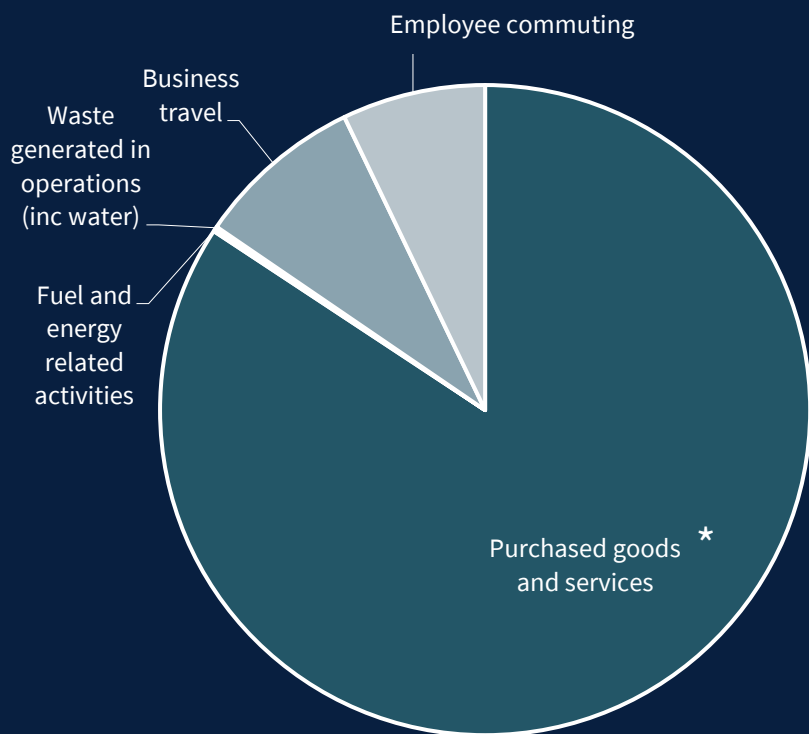
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# Measuring Scope 3 at the University

Carbon Emissions (t CO<sub>2</sub>e)

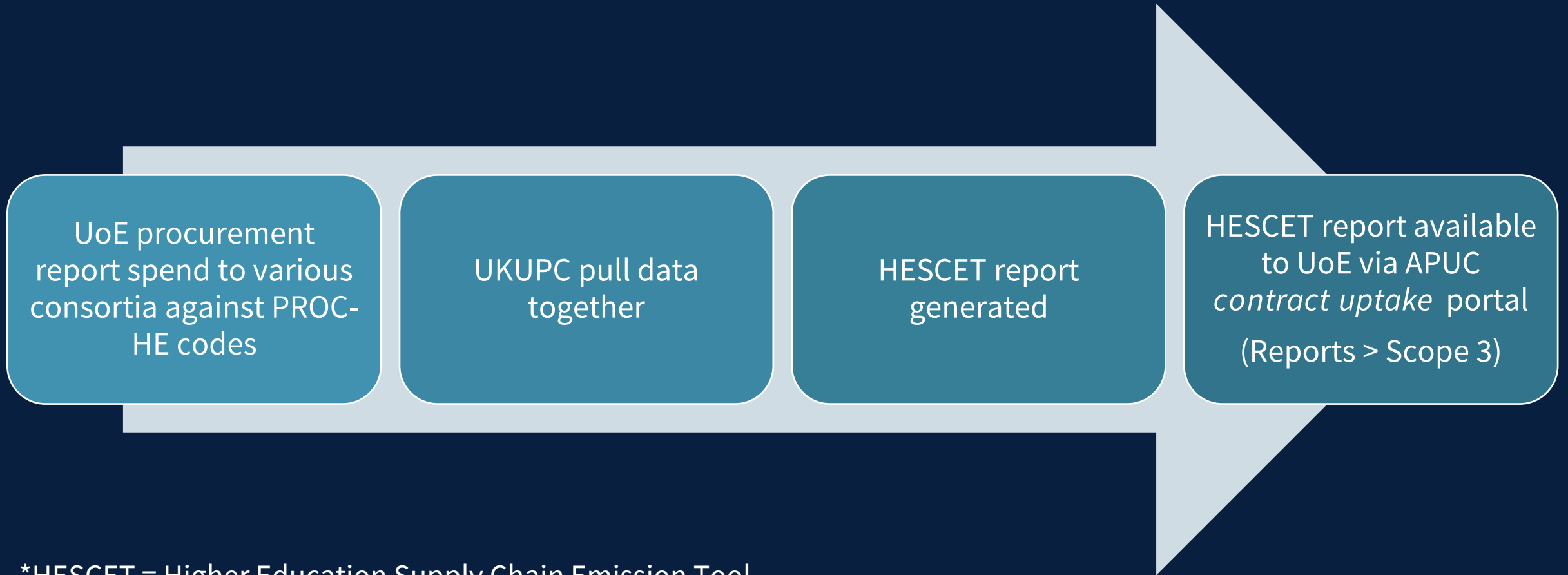


\* Figure for “Purchased goods and services” based on the HESCET output.

Scope 3 Categories	Carbon Emissions (t CO <sub>2</sub> e)	Data source
<b>1. Purchased goods and services*</b>	111,811	HESCET
<b>2. Capital goods</b>	Not applicable	
<b>3. Fuel and energy related activities</b>	183	PBCCD reporting
<b>4. Upstream transportation and distribution</b>	Not applicable	
<b>5. Waste generated in operations (inc water)</b>	155	PBCCD reporting
<b>6. Business travel</b>	11,063	Business Travel Report
<b>7. Employee commuting</b>	9,455	Bi-annual survey
<b>8. Upstream leased assets</b>	Not applicable	
<b>9. Downstream transportation and distribution</b>	Not applicable	
<b>10. Processing of sold products</b>	Not applicable	
<b>11. Use of sold products</b>	Not applicable	
<b>12. End-of-life treatment of sold products</b>	Not applicable	
<b>13. Downstream leased assets</b>	Not applicable	
<b>14. Franchises</b>	Not applicable	
<b>15. Investments</b>	Project underway by Mercer (findings due in 2021-22)	



# How we get our HESCET output



\*HESCET = Higher Education Supply Chain Emission Tool



# HESCET Update (2021)

- Initial HESCET (2009) included 75 spend categories, updated HESCET increased this to 311
- Also increased the granularity to include regional emission data (rather than just UK)
- Made available to UK FHE in Feb 2021 & now formally owned by BUFGD & HEPA



# Of note...

Scottish Government guidance on leadership role of public bodies  
(released 29 October, 2021)

*“Most public bodies have not previously reported supply chain or capital emissions. **Data and reporting in this area is not as mature as in other areas of emissions and it may take public bodies time to set up appropriate processes to allow for reporting in these areas.***

***Greenhouse gas reporting in these areas may be based on estimates, not actual measurement.** While this means quantitative targets may not be able to be set, this will still allow organisations to identify potential hotspot areas and then prioritise actions against these areas.”*

<https://www.gov.scot/publications/public-sector-leadership-global-climate-emergency/>



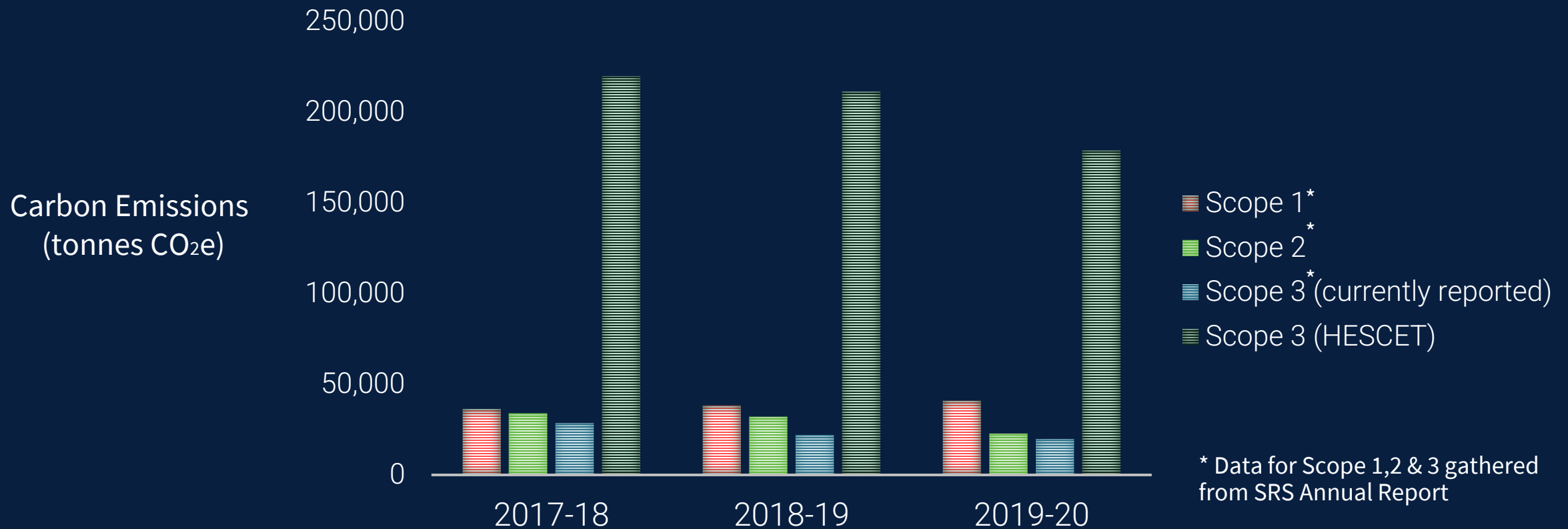
# UoE HESCET output





# What HESCET tells us

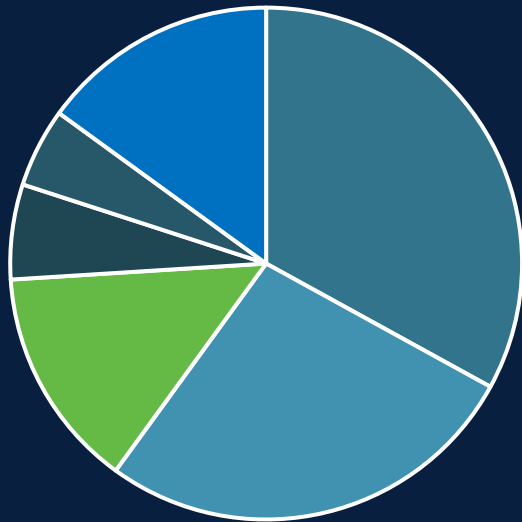
1. Scope 3 is likely to be a very big proportion of our emissions.



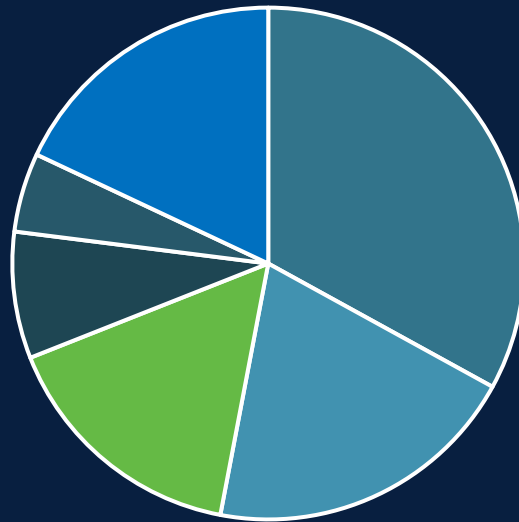
# What HESCET tells us

## 2. Our scope 3 is likely dominated by small number of key categories

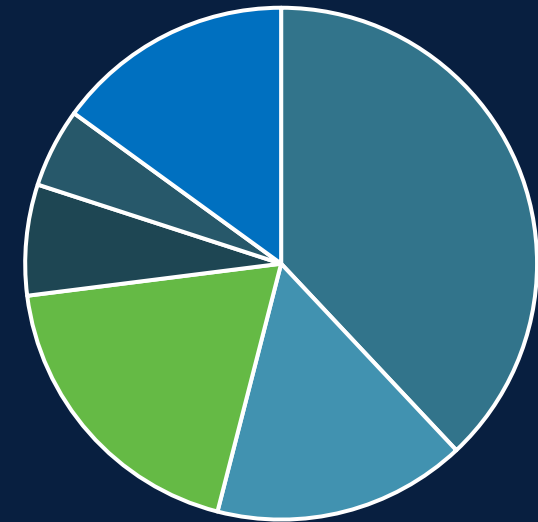
2017-18



2018-19



2019-20

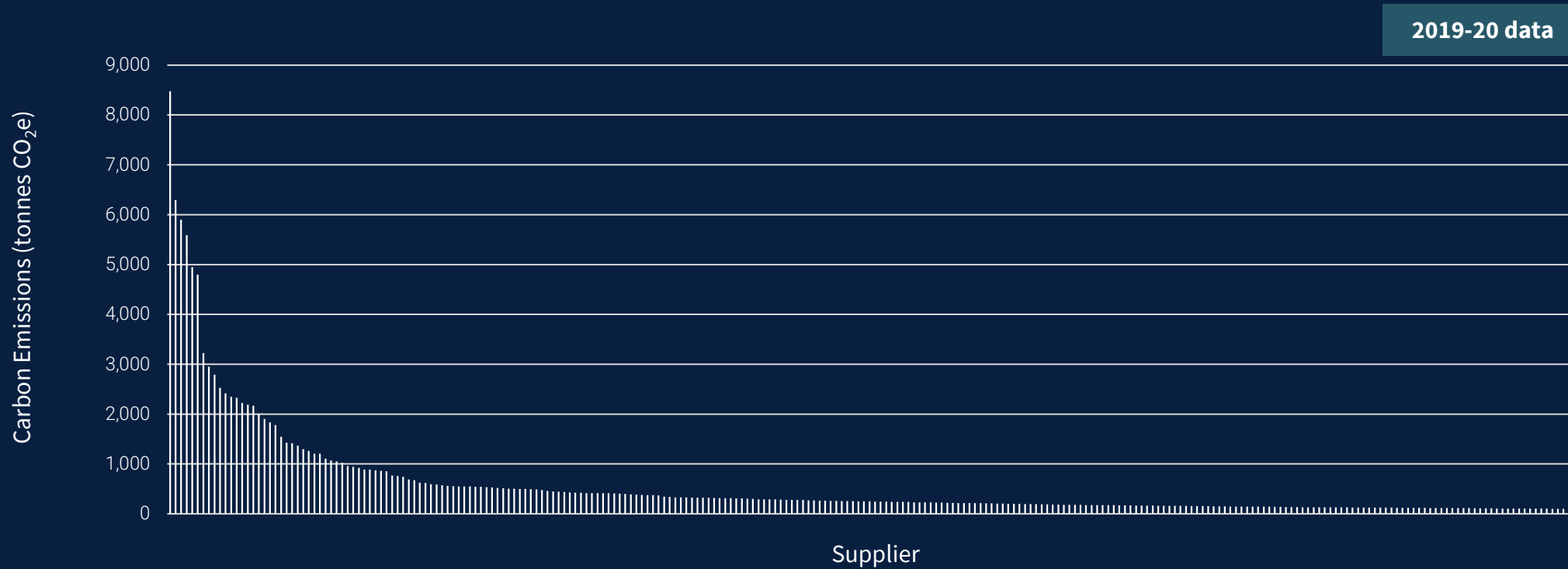


- Laboratory/Animal House Supplies & Services
- Estates & Buildings
- Computer Supplies & Services
- Travel & Transport
- Professional & Bought-in Services
- Other (>10,000 t CO<sub>2</sub>e average 2017-2020)



# What HESCET tells us

## 3. Certain suppliers may be high priority



*Suppliers with emissions under 100 t CO<sub>2</sub>e are omitted from this graph to increase clarity.*



# What HESCET tells us

## 4. Provides “HESA ready” values

HESA Category
Scope 1 and 2 Emissions - Onsite energy consumption
Business Travel
E3SCMPI - Medical and precision instruments
E3SCBS - Business services
E3SCCON - Construction
E3SCMP - Other manufactured products
E3SCICT - ICT
E3SCPP - Paper products
E3SCMFCG - Manufactured fuels, chemicals, and gases
E3SCWW - Waste and water
E3SCFC - Food and catering
E3SCUNC - Unclassified
E3SCOTH - Other procurement



# Concerns with HESCET

## 1. Accuracy

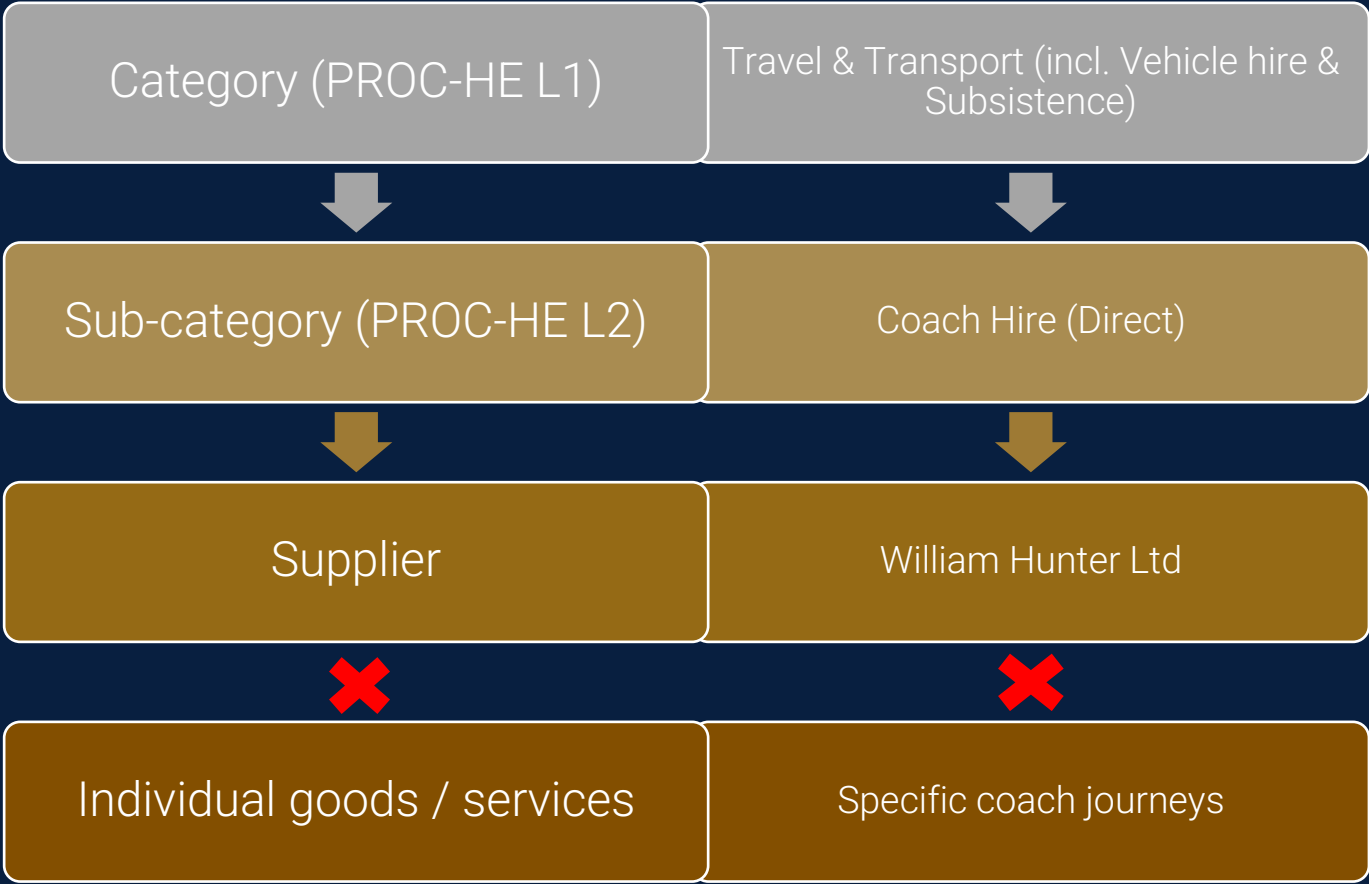
Supplier level	Supplier Name	HESCET		Business Travel Report	
		Carbon Emissions (t CO <sub>2</sub> e)	% of total HESCET carbon	Carbon Emissions (t CO <sub>2</sub> e)	% of total HESCET carbon
	Lothian Buses	2,948	1.65%	25	0.01%
	Key Travel	2,406	1.35%	6,721	3.76%
	Central Radio Taxis	217	0.12%	46	0.03%
	William Hunter Luxury Coaches	956	0.53%	13	0.01%

Category level	Data Source	Included within the data	Carbon Emissions (t CO <sub>2</sub> e)			
			2017/18	2018/19	2019/20	Grand Total
	HESCET HESA figures	Business travel & accommodation	10,573	13,731	9,696	34,000
	HESCET Travel & Transport	Business travel & accommodation, subsistence	9,322	12,288	8,745	30,355
	Estate Management Record (HESA)	Business Travel	13,668	18,466	11,062	43,196
	Business travel report (procurement spend only)	Business travel (excluding expenses, credit card spend, EUSU)	8,217	13,353	7,001	28,571
	Ecometrica Carbon Reporting	Business travel & Accommodation (nights)	18,281	18,767	10,960	48,008



# Concerns with HESCET

## 2. Level of detail



# Concerns with HESCET

## 3. Potential cross-over with other scopes

Category
Laboratory/Animal House Supplies & Services
Estates & Buildings
Computer Supplies & Services
Utilities
Travel & Transport (incl. Vehicle hire & Subsistence)
Professional & Bought-in Services including consultancy
Medical, Surgical, Nursing, Dentistry Supplies & Services
Audio-Visual & Multimedia Supplies and Services
Catering Supplies & Services
Health & Safety & Security
Facilities Operations
Furniture, Furnishings & textiles



# Concerns with HESCET

## 4. Does not include all purchases

- Expenses
- University credit cards

BUT it is noted these are likely to be a very small amount of the overall spend (plus should be decreasing)





# Conclusion on HESCET

## Benefits

- Good for giving “broad brush” view of Scope 3 carbon emissions from procurement
- Can drill down to supplier level to compare within categories & across categories
- Uses data that is already collected and processed
- Is comparable across the UK FHE sector (?)

## Concerns

- Needs to be checked for crossover & accuracy prior to using for setting targets
- Needs further level (s) of detail to be able to enact and measure change accurately
- May not include *all* purchases



# Further Research

To establish what is going on in the FHE sector and more broadly



# According to the 2019-20 PBCCD...

*“... 1% of reported carbon emissions were attributed to procurement...”*

BUT

... only **one body included this metric as standard** (and only in broad terms), while a handful included accommodation linked to business travel.



# A number of HE institutions are looking at this challenge

Including...

- Strathclyde & St Andrews (from PBCCD)
- Stanford (USA)
- Bath (UK)
- Pennsylvania (USA)
- Exeter (UK)



# Other sectors

- Scottish Government
- BHP (mining)
- BT (tele / communication)
- Eastleigh Borough Council (local council, England)



# Conclusion

HESCET can...

- offer broad brush analysis of spend data
- Show “hot spots” for further analysis, including specific suppliers
- offer comparisons to other institutions (if we’re all using the same tool, in the same way)
- Fulfil the requirements of the PBCCD

**BUT**

**I think we can do better!**



# An ask (or two) from you

Are you working to understand Scope 3 emissions from your institutions procurement?

If so, are you interested in sharing knowledge / working together on this topic?



# Questions?

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