



Measuring your carbon footprint and the impact of your procurement on the local economy

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&

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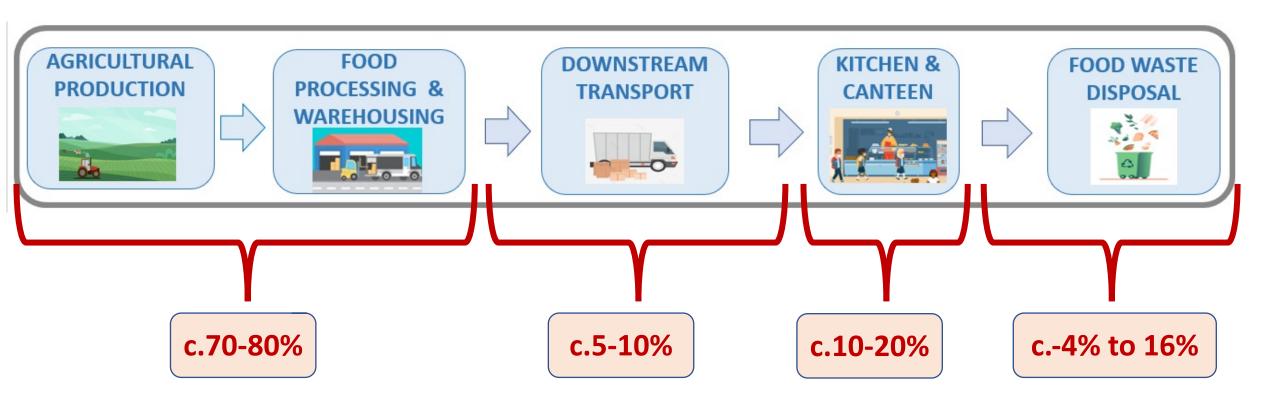
Angela Tregear, University of Edinburgh Adam Wilkinson, Impact Measurement Ltd





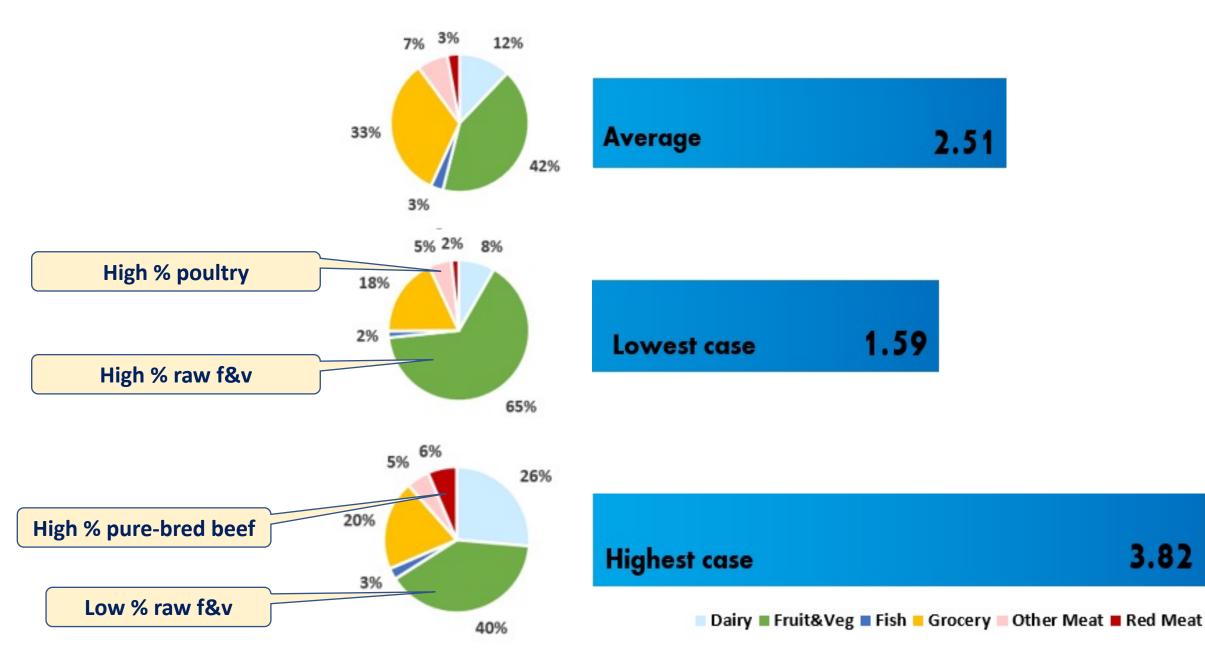


LOCAL ECONOMIC IMPACT?



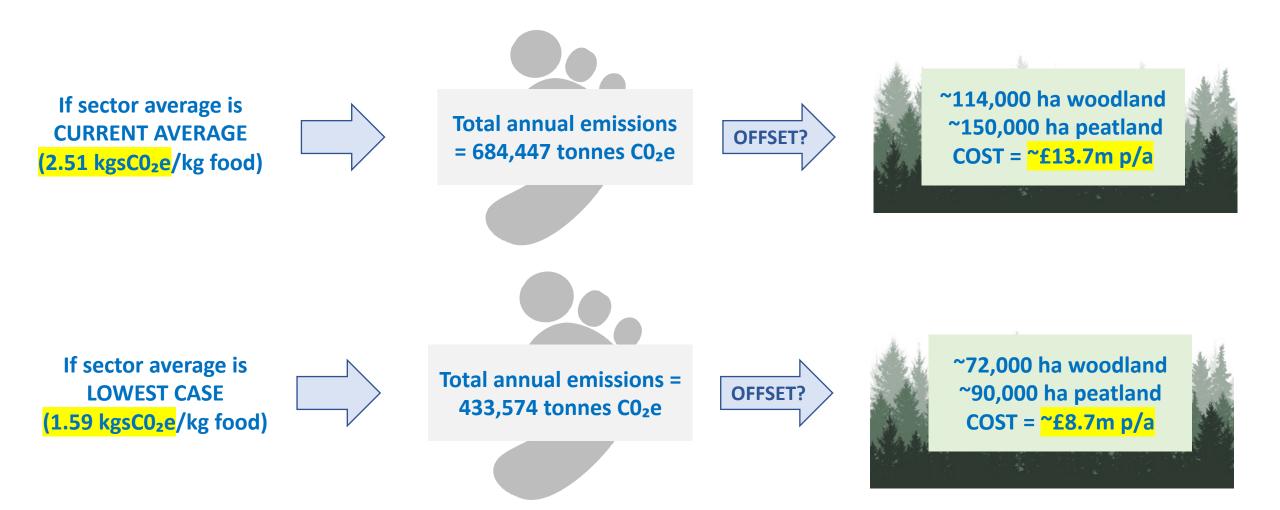


LACA/ASSIST FM Members: Foods purchased (kgs) and their emissions (kgs C0₂e per kg food)

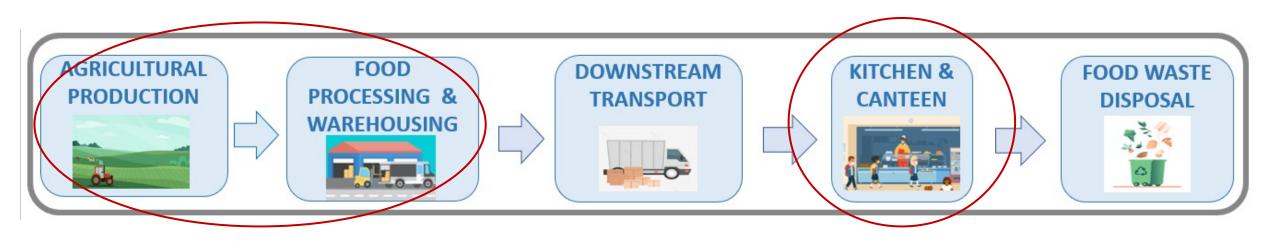




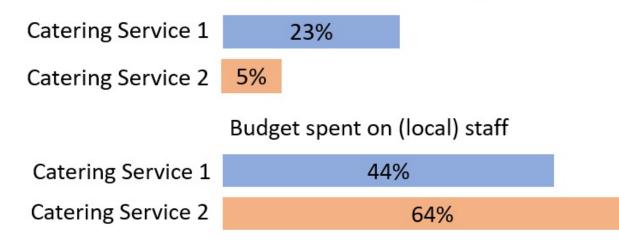
Implications for Achieving Net Zero?



And what about local economic impact...?

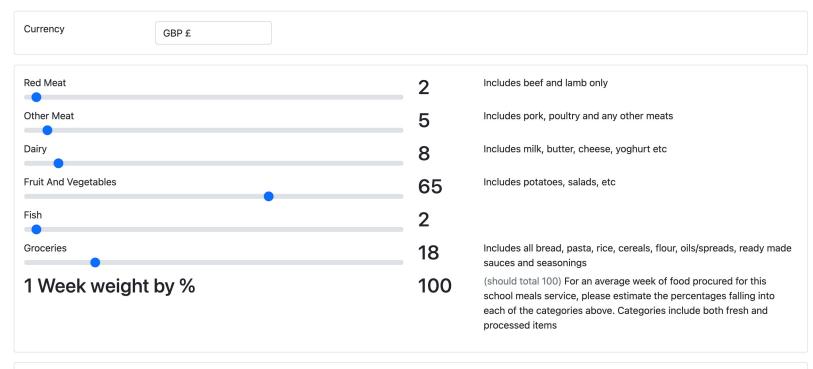


Budget spent on local suppliers



About your Food Procurement

In order to measure the carbon footprint of your procurement, we need to know about which foods you buy, and in what quantities. For an average week of total food procured for your meals service. Please estimate the percentages falling into each of the categories below.



Please estimate the average weight of a meal in your service, in grams		
590		
Please estimate the average number of meals provided by your service, per week		
336365		
Number of weeks in the year meals produced	Enter 52 if meals service is all year	
38		

Environment

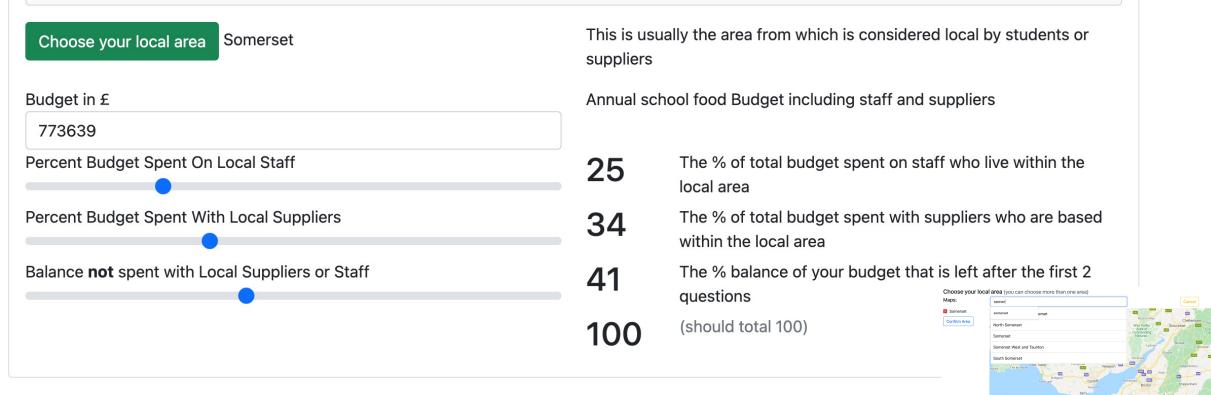
Please estimate, for an average week, what proportion of food served is plate waste? 26

(optional, if not known we will use a default value). In an average week, what proportion of food served is plate waste?

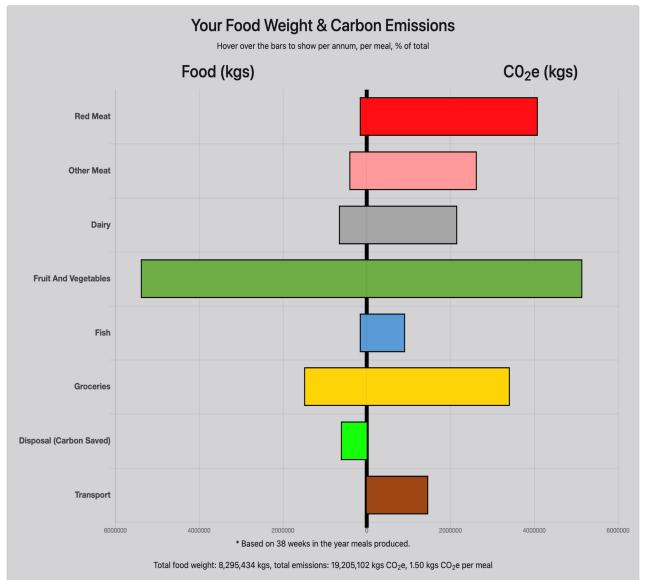
Please indicate the destination of your waste Digester, composting, and/or animal f

About your budget

In order to measure the local economic impact of your meals service, we need to know about your local area and where your budget is spent.





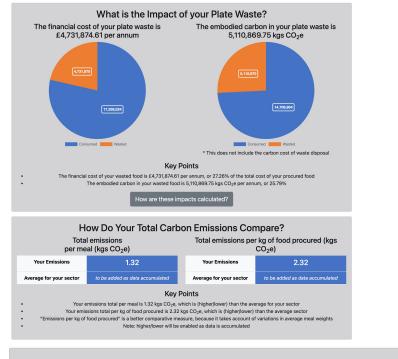


Key Points

Red meat is only 2% of your food weight, but 21.3% of your total emissions Other meat is 5% of your food weight, but only 13.7% of your total emissions Fruit and Vegetables are 65% of your food weight, but only 26.8% of your total emissions Transport is 7.6% of your total emissions, far less than emissions to produce the food

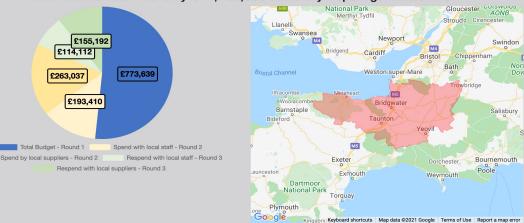
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Waste disposal has reduced your total emissions by 3.2%, because you used a digester. If you used landfill, it would increase your total emissions by 12.54%.



Local Economic Impact - Somerset LM3 Analysis by Staff, Supplier and Spending Round. Total value to Local Economy is £1,499,390 and every £ spent generates £1.94

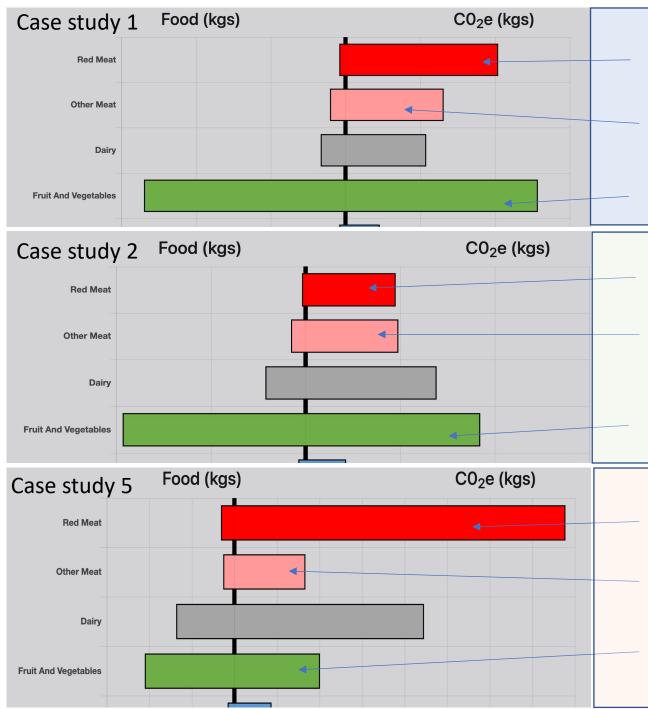
Case study 1



Key Point
Use of local staff to produce meals is as important as using local suppliers

How is LM3 calculated?

How are these carbon emissions calculated?



Red meat is only 2% of weight, but 21.3% of emissions

Other meat is 5% of weight, but 13.7% of emissions

Fruit and Veg are 65% of weight, but only 26.8% of emissions

Red meat is only 1% of weight, but 10,5% of emissions

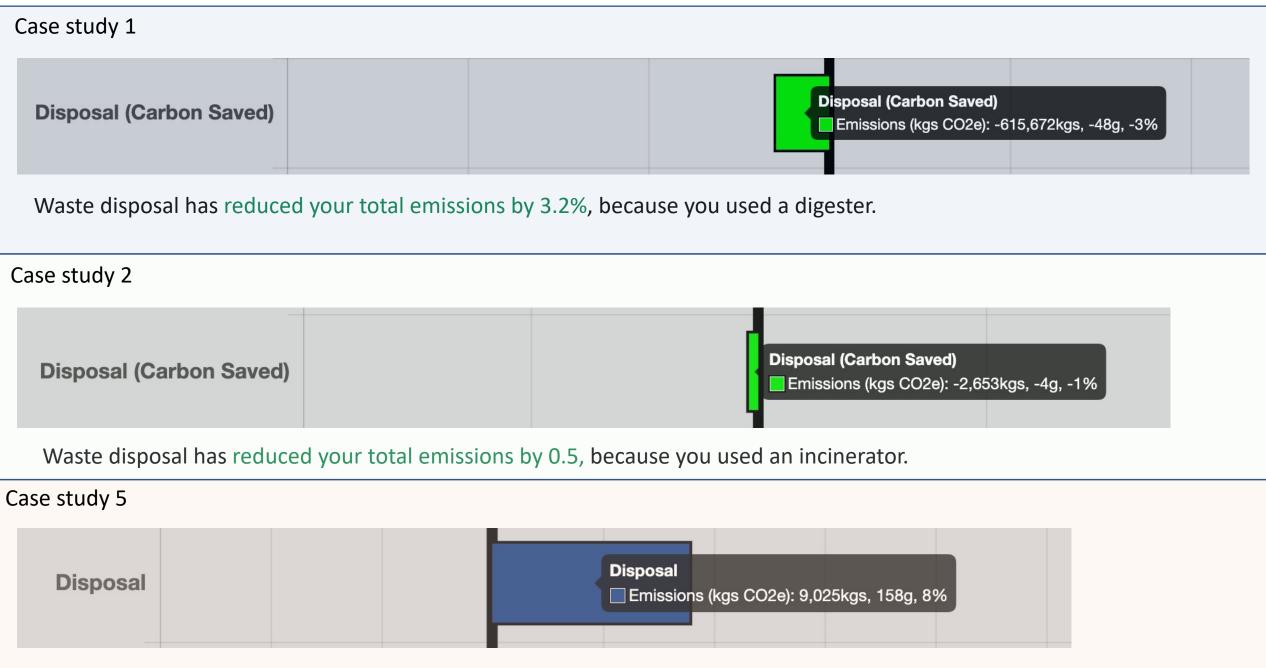
Other meat is 4% of weight, but 10.8% of emissions

Fruit and Veg are 50% of weight, but only 20.4% of emissions

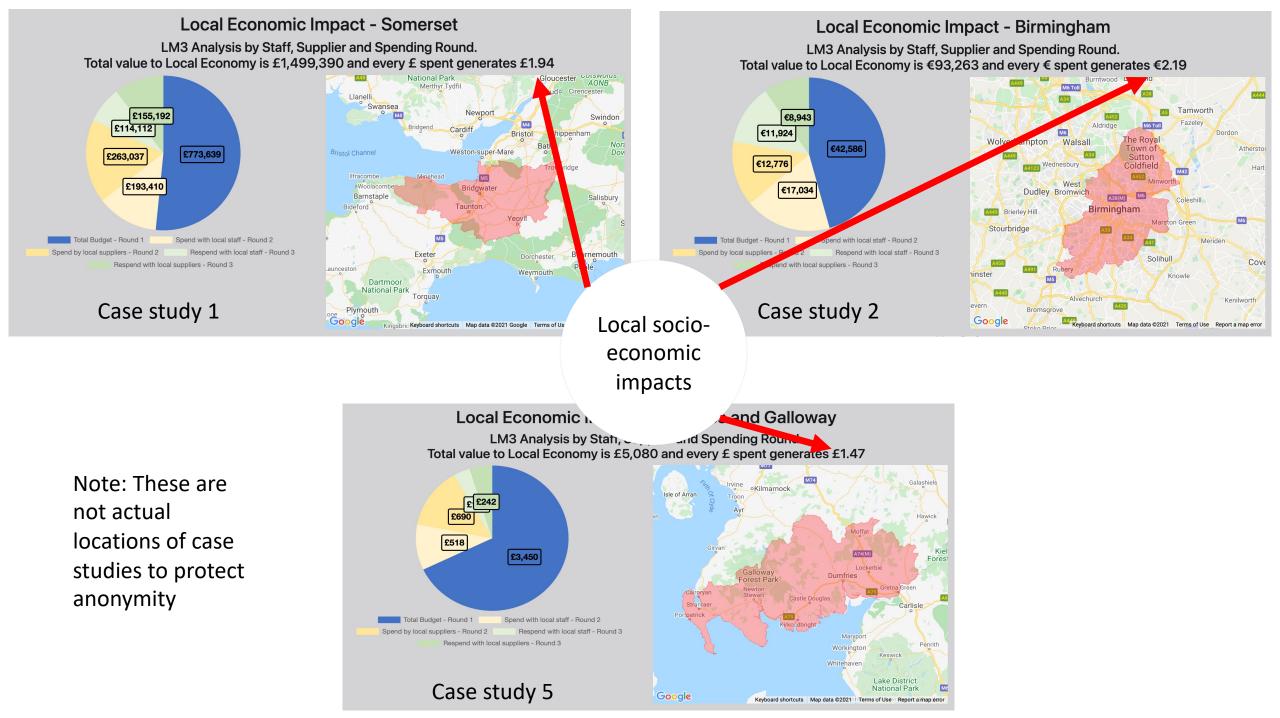
Red meat is only 6% of weight, but 34.5% of emissions

Other meat is 5% of weight, but 17.4% of emissions

Fruit and Veg are 40% of weight, but only 8.9% of emissions



Waste disposal is 8.0% of your total emissions, because you used landfill.



How Can I Improve?

Current: Landfill	Value Benefit £	CO ₂ Saving kgs CO ₂ e	
Change to digester	N/A	3,458,743.35	_
Reduce red meat by 10%	16,590.87	139,313.51	
Reduce plate waste by 10%	473,187.46	2,266,384.53	<u> </u>
Spend 10% more locally	72,575.07	N/A	<u> </u>
Totals	562,353.40	5,864,441.39	

How do I reach net zero?

Carbon Offset	You will need to plant 3,777.31 hectares of woodland annually
Financial Cost	The estimated cost will be £453,276.91

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If we get enough data we will immediately enable sector comparisons section

