Net Zero Transitioning:

Redefining Assumptions Behind Access to Low-Carbon Food in Resource-Constrained Communities

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Project Aim

Examine how access to Alternative Food Networks (AFNs) for food-insecure households can facilitate a fair and equitable transition to net zero agrifood systems.

Objectives:

- 1. Assess changes in diet and wellbeing;
- 2. Identify barriers to engagement with sustainable food systems;
- 3. Develop guidelines to scale initiatives.

What is the Planet Card?

How did it start: Scheme co-created by Sustainable Food Places Cardiff, Cardiff Farmers Market, and Sustain's Bridging the Gap Programme. The Planet Card was co-designed with members of the local community and is one the Bridging the Gap pilot schemes.

Aim: To make organic and planet-friendly fruit & vegetables more accessible and affordable to low-income and marginalised communities.

How does it work: Over 20 weeks, participants have a weekly £11 credit to spend at Cardiff Farmers Markets. This credit can be spent on fruit and vegetables at participating vendors. To make a purchase, members simply provide their unique membership number to traders. Unspent credit does NOT roll over to the following week.

Who can take part: Participants can apply and are selected based on a brief screening questionnaire. In total, 120 people can take part.





Inequality in the current food system

The current food system is broken, perpetuating inequality, ill-health, biodiversity loss, and climate change.

Current food system fails to meet net zero goals and perpetuates inequities, leading to food insecurity and ill health among disadvantaged communities. In 2022/23, 7.2 million people in the UK experienced food poverty, with numbers expected to rise (Francis-Devine et al., 2024).

Alternative Food Networks (AFNs) offer a multifaceted solution including shortening supply chains, improving resilience, and localising food production, supporting local economies, addressing social equity - crucial for a resilient, net zero agrifood system.



Approach

Evaluation Methods

Survey Planet Card holders to evaluate the impact of the Planet Card on their health, wellbeing, and diet.

Interview Planet Card holders to get a deeper understanding of impact and gain insights into barriers.

Projective workshops to examine systemic barriers & experiences.

Interview & workshop insights

Based on interviews with 14 Planet Card Members + two workshops

£11 was seen to 'go a long way', providing enough fruit and vegetables for the week.

Fruit and vegetables from the market perceived higher quality as lasting much longer than supermarket equivalent.

Many participants are trying new foods and learning new recipes based on the produce available.

Many participants **feeling empowered** by the Planet Card to buy healthier vegetables.

But many feel intimidated by the market:

- Long queues and no price tags on produce making them feel "othered" when asking price.
- Transport to the market is costly.

Preliminary Findings

Survey insights (pre-Planet Card) Based on survey responses from 71 Planet Card members.

- Cost is the biggest barrier stopping people from eating fruit & vegetables.
- Most participants don't eat the recommended daily amount of vegetables.

An example of a portion could be 1 x cup of leafy raw vegetables or salad, half a cup of root vegetables like carrots, potatoes, celery, beetroot.

How many vegetables do you eat in a usual day? Q6.5 - What do you feel are the **main reasons or barriers** that stop you from eating plenty of fruit and vegetables? Please tick all the boxes that apply to you Distance from food shop Time to shop and cook Not enough variety Quality/freshness Storage (e.g., kitchen space, fridge, freezer) Equipment (e.g., pots, pans, stove) Cooking knowledge (e.g., how to cook a wide range of fruit and veg) Health conditions make shopping or cooking difficult Other pressing needs

N = 70; Note: These are preliminary findings of ongoing data collection

Project Partners:



Cardiff Business School Ysgol Busnes Caerdydd







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