



10.00 Gathering

10.15 Welcome and introductions

10.25 Food Rescue Café project overview

10.40 Food waste prevention in cafés

11.00 Break

11.20 Scoping workshop - Surplus Food Use Guidelines

12.45 Lunch







Who We Are



The Rediscovery Centre

National Centre for the Circular Economy

A creative movement connecting people, ideas and resources to support the circular economy in Ireland



Strategic Goals





Goal 1 Educate

Advancing Lifelong Learning



Goal 2 Demonstrate

Enabling Action and Best Practice



Goal 3 Collaborate

Deepening the Movement



Goal 4 Advocate

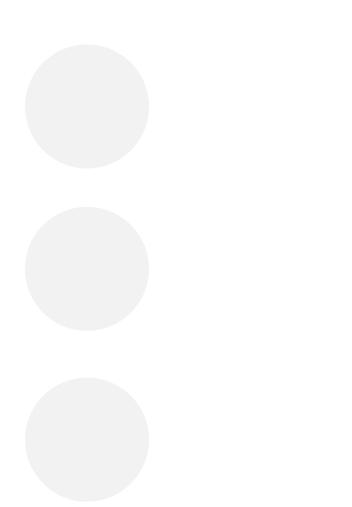
Driving Evidence Based Policy



Goal 5 Thrive

Creating a Culture of Culture

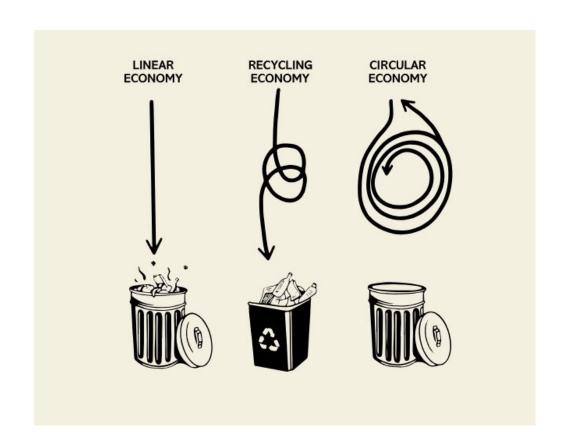


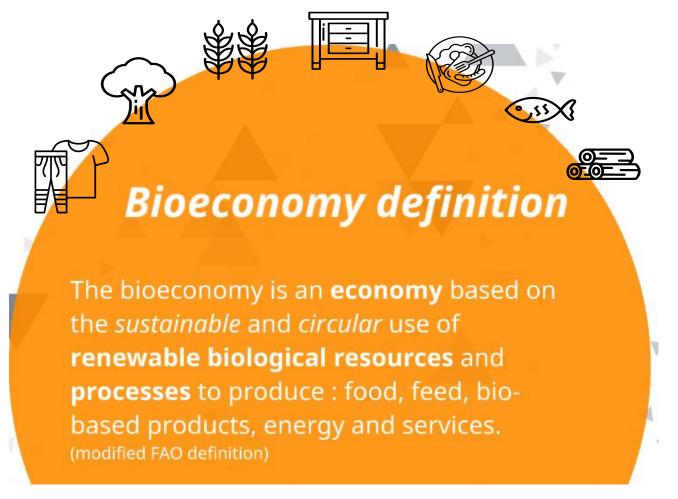




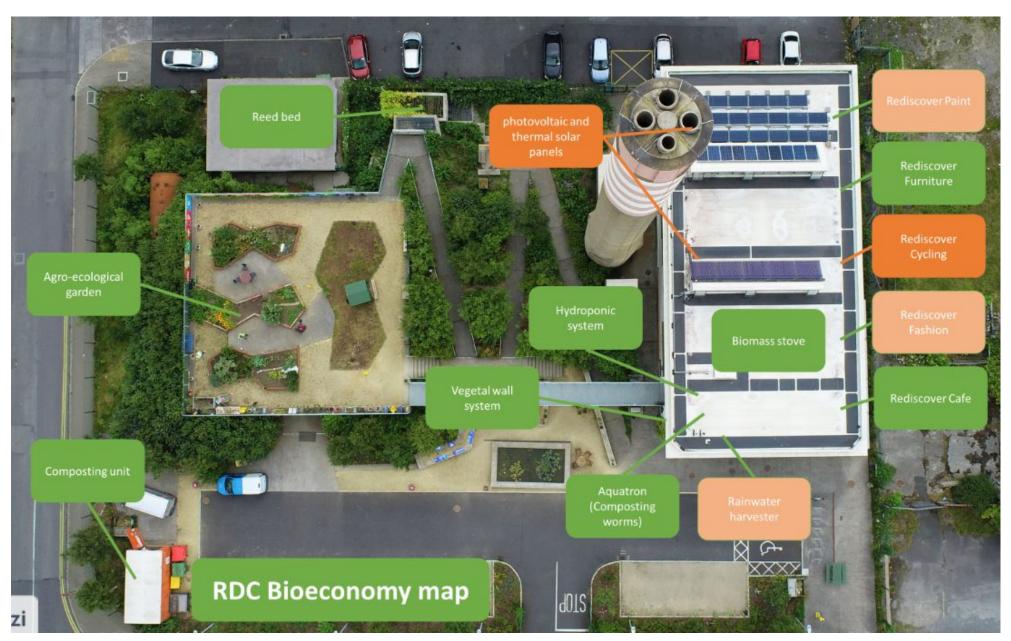
Bioeconomy & Circular Economy











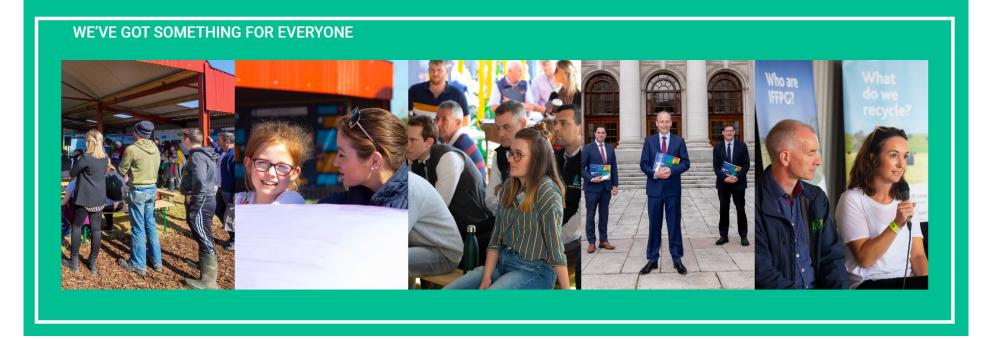
Bioeconomy Week



BIOECONOMY IRELAND

All Voices Together

OCTOBER 16TH - 22ND 2023



https://irishbioeconomy.ucd.ie/





Food Rescue Café Project

EPA Green Enterprise: Innovation for the Circular Economy

Sarah Zimmermann Research Officer, Rediscovery Centre







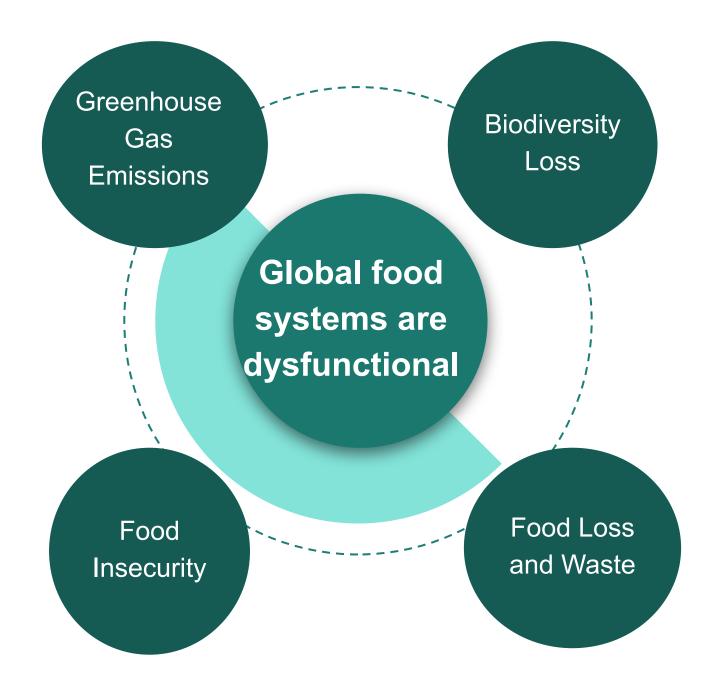




There is no sincerer love than the love of food

George Bernard Shaw





About **one third** of all food produced is lost or wasted in the food supply chain

UN Food and Agriculture Organisation (FAO)

Food Loss

production, post-harvest, processing **Food Waste**

retail and final consumption



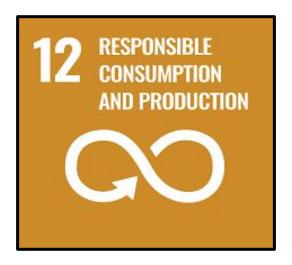
Food Waste in Ireland



Policy background

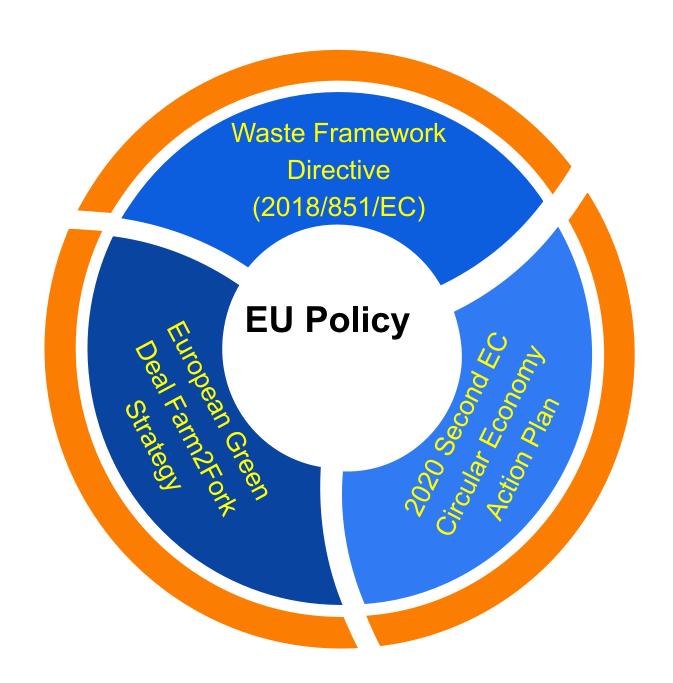


UN Sustainable Development Goal



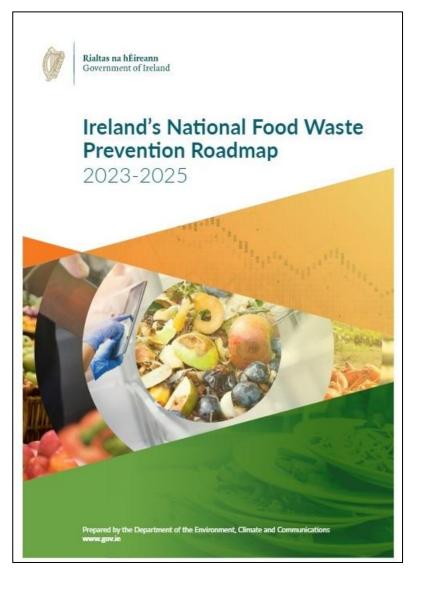
Target 12.3
By 2030, halve per capita global food waste at the retail and consumer levels

Policy background



National Policy Surplus food redistri







Policy background

FOOD WASTE HIERARCHY





Prevention at source





Feed People Redistribute surplus food





Use excess food, unsuitable for human consumption, as animal feed



Convert usable food processing flows into value added products.

> Anaerobic Digestion, Composting & Land Spreading

Recycle unavoidable food waste for low value-added

Disposal

Energy from waste is a last resort for food waste. Landfill of biodegradable waste is being reduced by law over time, as well as the use of landfills in general.







Surplus food redistribution in Ireland EU Platform on Food Losses and Food Waste, 2019

- FoodCloud Hubs, Too Good To Go
- EPA Food Waste Charter Retail Action Group
- Food Safety Authority of Ireland Food Donation Guidelines
- Donated food: acceptable condition, within the "use-by" date and handled safely







Saving the Earth one meal at a time

February 2023 to May 2024

Aims & Research Questions





Aims

- Evaluate the costs, benefits, and challenges associated with surplus food use in cafés
 - impact on food waste, packaging
 - operational, regulatory and training challenges
- Develop guidelines for surplus food use in cafés

The Story So Far....

- M.Sc. Thesis A pre and post analysis of food flows and carbon footprint of a surplus food café initiative - Rebecca Payling & Prof. Anna Davies, TCD
- Collaboration agreement forwarded to Buddy's & Blossom Artisan Bakery and Nan's SuperValu.
- Food Waste Characterisation Surveys completed by Clean Technology Centre for Buddy's
 & Blossom Artisan Bakery and Nan's SuperValu.
- Draft review of best practice in sourcing and preparing surplus food in a food establishment and guidance document for cafés
- Data collection protocols for pilot
- Advisory committee: Gar Byrne Neighbourhood Executive Chef at Google Barrow Street,
 Karen McGrane-Capcarrere from Food Cloud and Aoibhin Moore Heslin, Research Officer with Airfield Estate.
- Progress report submitted and accepted by the EPA in July 2023

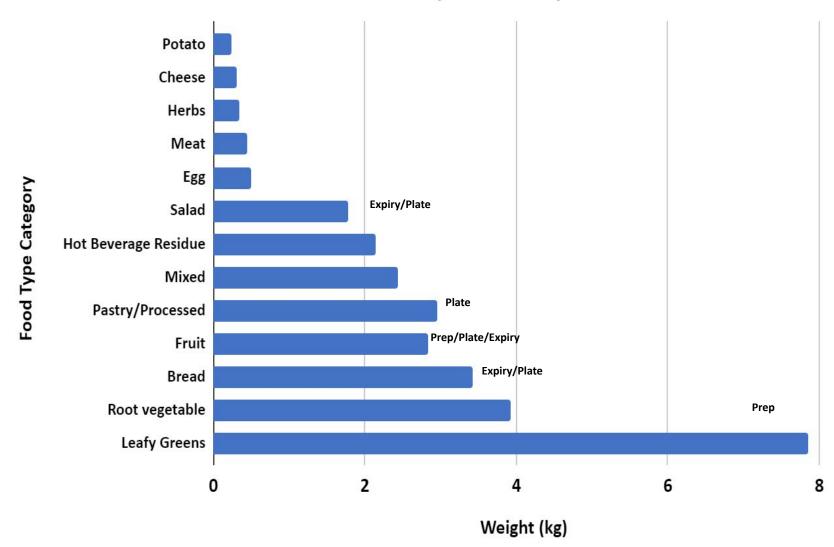
Research

A pre and post analysis of food flows and carbon footprint of a surplus food café initiative

Rebecca Payling & Prof. Anna Davies

Trinity College Dublin M.Sc. Environmental Science

Food waste assessment pre food surplus use



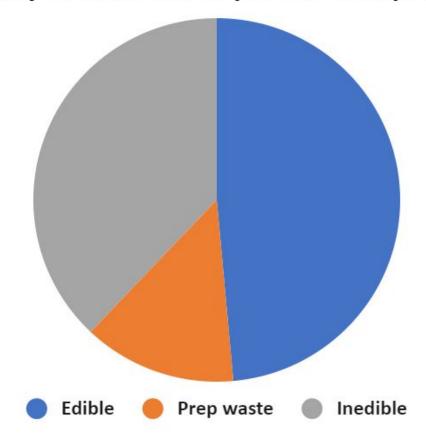
Research

A pre and post analysis of food flows and carbon footprint of a surplus food café initiative

Rebecca Payling & Prof. Anna Davies

Trinity College Dublin M.Sc. Environmental Science

Edibility of food waste pre food surplus use



A pre and post analysis of food flows and carbon footprint of a surplus food café initiative - Rebecca Payling & Prof. Anna Davies

Food surplus used

	_		_				
Α	В	С	D		E	F	G
Supplier	Collector	Date	Category		Туре	Number	Weight (kg)
Buddy's	Sarah Z	13/6/23	Loose fruit	•	Pears	2	0.356
Buddy's	Sarah Z	13/6/23	Loose fruit	•	Cooking apples	2	0.480
Buddy's	Sarah Z	13/6/23	Loose fruit	•	Pink Lady apple	1	0.140
Buddy's	Sarah Z	13/6/23	Loose fruit	•	Limes	13	0.871
Lidl	Sarah Z	20/6/23	Loose veg	•	White onions	3	0.419
Lidl	Sarah Z	20/6/23	Loose veg	•	Red onions	3	0.411
Lidl	Sarah Z	20/6/23	Loose veg	•	Red pepper	1	0.190
Lidl	Sarah Z	20/6/23	Loose veg	•	Yellow pepper	1	0.194
Lidl	Sarah Z	20/6/23	Loose veg	•	Potatoes	5	1.456
Buddy's	Annie and Lexie	26/6/23	Packaged veg	•	Lettuce	1	0.195
Buddy's	Annie and Lexie	26/6/23	Packaged veg	•	Mushrooms	8	0.250
Buddy's	Annie and Lexie	26/6/23	Packaged veg	•	Carrots	10	1.003
Buddy's	Annie and Lexie	26/6/23	Loose veg	•	Strawberries	20	0.530
Buddy's	Annie and Lexie	26/6/23	Fresh/bakery bread	•	Bread	1	1.293
Buddy's	Sarah Z	29/6/23	Fresh/bakery bread	•	Baguette	1	0.350
Buddy's	Sarah Z	29/6/23	Fresh/bakery bread	•	Sour Dough loaves	4	2.424
Buddy's	Sarah Z	04/07/23	Herbs (fresh)	•	Dill	1 bag	0.050
Buddy's	Sarah Z	04/07/23	Herbs (fresh)	•	Oregano	1 bag	0.050
Buddy's	Sarah Z	04/07/23	Herbs (fresh)	•	Thyme	1 bag	0.050
Buddy's	Sarah Z	04/07/23	Loose fruit	•	Apples	4	0.306
Buddy's	Sarah Z	04/07/23	Loose veg	•	Potatoes	2	0.209
Buddy's	Sarah Z and Florent	06/07/23	Fresh/bakery bread	•	Baguette	1	0.350
Buddy's	Sarah Z and Florent	06/07/23	Fresh/bakery bread	•	Sour Dough loaves	4	2.424
Buddy's	Sarah Z	11/07/23	Loose veg	•	Carrots	4	0.640

Project Collaborators







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Food Waste Characterisation Survey for project collaborators

REDISCOVERY CENTRE

Clean Technology Centre - Munster Technological University







FoodCloud – surplus food options



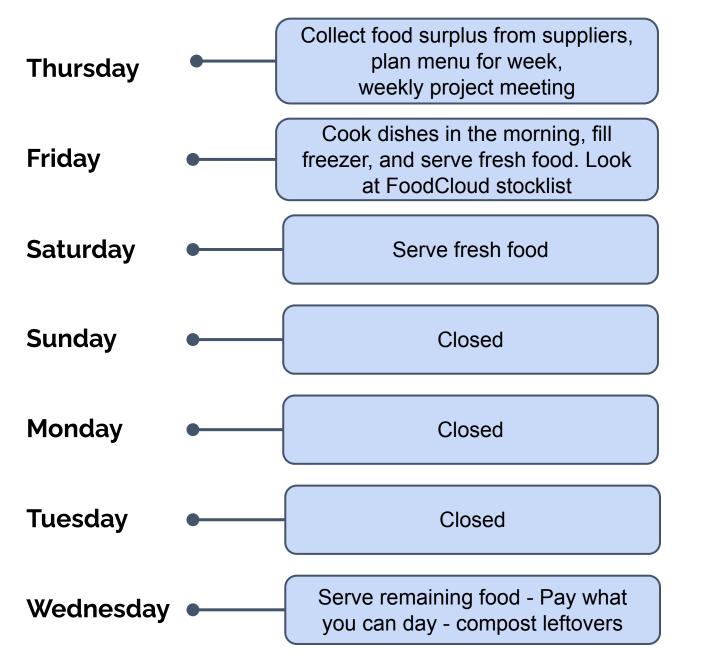




Next Steps

- Follow food safety regulations and guidance at all times.
- Regularise purchases from standard suppliers. This will help with recording food type and weight purchased from standard suppliers. Create system for recording invoices, receipts and covers.
- Focus on fruit, vegetable and bread surplus targets and offer a vegetarian and vegan menu to reduced food safety risk and to promote a plant-based diet. Chilled meat and dairy foods must be temperature controlled, cannot be used beyond 'use by' dates and are typically heavily packaged.
- RDC staff will collect food surplus from Buddy's Farmers Market once a week on a set day and time.
 RDC are under no obligation to collect any food surplus if it is deemed unsuitable. FoodCloud stocklist is emailed in every Friday morning.
- Buddy's are under no obligation to provide RDC with any food surplus or specific items. They will let us
 know if there is no food surplus available on collection day.
- Weigh, record and label all food surplus and packaging accepted by RDC in the RDC kitchen on a weekly basis. Kitchen brown bin waste weight will also be recorded daily. Paper recording sheets will be located in the kitchen.
- We should aim to use salad leaves, chives, scallions and herbs from the RDC garden.

Food Rescue and Research Cafe - Weekly Plan



Weekly data collection - food surplus type and weight, packaging, photograph

Use a dedicated, labelled food collection box

Daily data collection - brown bin (kg)

Monthly data collection - input data from standard suppliers (invoices, receipts, weights of fruit/veg/bread), café covers

Review implementation plan and Food Surplus Targets on the last week of each month

Do three food waste audits and benchmark assessments - Oct, Jan, Apr

Food Waste Audit and Benchmark Recording Sheet

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Brown bin 1 (kg) Plate waste	-	-					-
Brown bin 2 (kg) Prep waste	-	1					1
Brown bin 3 (kg) Kitchen waste	1	1					1
Packaging waste	1	1	1	1	1		1
No. of Covers	-	ı	-	-	-		-
Food purchase costs	-	-	-	-	-		-

Food Surplus R	ecording S	heet Week Sta	arting:				
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Brown bin (kg)	-	-					-
Food Surplus	Collection date: Collector(s):						
Buddy's							
Food type	No.	Weight (kg)	Packaging	Food type	No.	Weight (kg)	Packaging

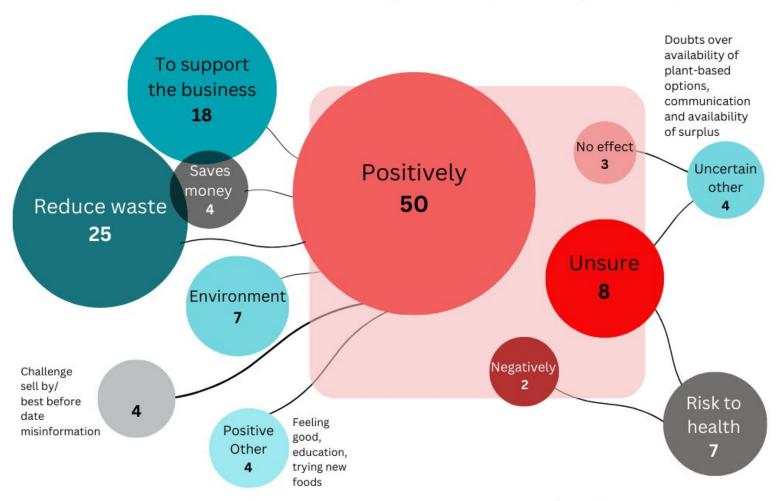
Research - Food Waste Attitudes and Behaviours Survey

A pre and post analysis of food flows and carbon footprint of a surplus food café initiative

Rebecca Payling & Prof. Anna Davies

Trinity College Dublin M.Sc. Environmental Science

How would you feel about purchasing food from a business that uses food that would otherwise be wasted (surplus food) and why? (n=63)



no reason given: 6

Good Food Festival Ballymun – September 15th 2023

Ballymun Food Forum





Food Rescue and Research Cafe - Logistics overview

Buddy's Farmers Market and Blossom Artisan Bakery

- -Open Wednesday to Saturday 9am to 3pm
- -Typical food surplus: Bread, baked goods, fruit and vegetables
- -Thursday/Friday morning recommended as best food surplus collection day
- -Avoid lunchtime collection as customers are often present



Nan's SuperValu

- -Open Monday to Sunday 6am to 10pm (7am Sunday)
- -Food surplus: Ambient, chilled, fruit and veg, baked goods.
- -Food is assessed every morning about 6.30am and reduced to clear if necessary.
- -Early morning collection suits best

COLLECTROOP

RDC Food Rescue Café

- -Operational Monday to Saturday gam to 5pm
- -Open to public Wednesday to Saturday
- -Develop a flexible menu that can accommodate unpredictable ingredients
- -Use fermentation and pickling to create products for sale in the Eco Store

Next Steps



Revise menu based on available food surplus and train staff

Food Waste Audit and Benchmark

Food Surplus Use Data Collection

Daily

Brown bin (kg)

Weekly

Food surplus weight, type and packaging

Monthly

Review food from standard suppliers, plan and targets



Scoping Workshop - guidelines for surplus food use in cafés



Consultation with food rescue café operators (Magic Hat Café, Fumbally Café and Instock Amsterdam)

- An invested Chef and staff are central to successful surplus food use
- Develop good relationships with local butchers, fishmonger, fruit and vegetable markets
- Freezing and preserving techniques (e.g. fermenting, pickling, conserving)
- Understand and minimise food waste before accepting food surplus
- Weigh food coming in and monitor food waste consider using smart bin technology
- Develop a simple, flexible menu (soups, one pots)
- Consider a plant-based menu given the higher food safety risks linked to chilled products
- Adhere to food safety guidelines always
- Sophia Housing, Co. Cork and Luisburgh Killeen Heritage, Co. Mayo

Scoping Workshop - guidelines for surplus food use in cafés



Info sheet

Food waste

Q 1. What are the benefits and challenges of surplus food use in cafés?

Regulation

Time

Q 2. What format and content might work best?

Video

Reduced food costs

Q 3. Research needs on surplus food redistribution and monitoring?

Inform and revise guidelines

Education

Q 4. How can surplus food use in cafés help to drive public engagement on food system change?

Promote plant based diets?

Monitoring methods

Nutrition