EU Platform on Food Losses and Food Waste

REFRESH

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6 May 2019
Brussel
REFRESH: Resource Efficient Food and dRink for the Entire Supply cHain

REFRESH’s main objective is to contribute towards Sustainable Development Goal 12.3

The focus areas for REFRESH are

- Voluntary **strategic agreements** across the supply chain
- Improving **Valorisation** of food waste
- Develop (online) **Decision Support tooling** for new and existing solutions
- Formulate EU **policy recommendations** and **support national implementation**
- With **evidence base** in 5 Piloting Countries: NL, GE, HU, ES and China
  - Duration: July 2015 – June 2019
  - Funding: ~ EUR 9 million
26 Project Partners in 13 countries
WHAT IS WASTE?

WASTE IS A LACK OF IMAGINATION

Environmental impact / Behavioural economics

Valorisation of unavoidable side flows

Consumer Behaviour

Frameworks of action

5/10/2019

www.eu-refresh.org
Consumer Behaviour
- Theoretical Framework
- In-house measurement
- On-pack guidance
- Consumer acceptance
- ICT Apps

Valorisation of unavoidable side flows
- Top waste streams
- Ingredients // texture processing & fibers
- Animal Feed
- Chemicals // bacterial conversion
- Economic modelling
- FoodWasteExplorer

Frameworks of action
- Framework agreements
- PWP platforms for VA (NL, GE, HU, ES, CH)
- FA pilots & evluation
- Decision Tooling
- Blueprint

Behavioural economics
- Consumer & Retail modelling (BN & ABM)
- FW reduction scenarios
- Roadmap policy interventions

Environmental impact
- Simplified LCA/LCC approach of valorisation
- FORKLIFT
- Case studies

Dissemination
- Food Waste Contest
- Events
- Community of Experts
- Communication & online campaign
Consumer Behaviour
- Theoretical Framework & Research Protocol
- In-house measurement
- On-pack guidance
- Consumer acceptance
- ICT Apps

Motivation:
- Awareness
- Attitudes
- Social norm
- Competing goals

Ability
- Assess food safety
- Cook creatively
- Accurate planning
- Prolong shelf life

Opportunity
- Product size & quality
- Access to stores
- Space at home
- Unforeseen events

Household practices

Food waste level
**Frameworks of action**

- Framework agreements
- Piloting Working Platforms on Voluntary Agreements (NL, GE, HU, ES, CH)
- FA pilots & evaluation
- Decision Tooling
- Blueprint, online guidance

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**5 key steps of setting up a voluntary agreement**

1. **Initiation and Set-up**
2. **Ambitions, Goals and Targets**
3. **Governance and Funding**
4. **Establishing Actions**
5. **Measurement and Evaluation**
EU panel of experts concludes that feeding treated surplus food to pigs is viable provided certain safety measures are enforced.

Valorisation of unavoidable side flows
- Top waste streams
- Ingredients // texture processing & fibers
- Animal Feed
- Chemicals // bacterial conversion
- Economic modelling
- FoodWasteExplorer

FoodWasteEXplorer
Explore data about food waste streams collected within the EU-founded project REFRESH

Filters can be applied to retrieve selected subsets of data, such as side streams (e.g., peel, stalks, seeds) and component groups (e.g., vitamins, minerals), and search results can be exported for further offline analysis. Currently, FoodWasteExplorer contains over 10,000 data points; however, the work is ongoing, and more data will be added with time.
Environmental impact

- Simplified LCA/LCC approach of valorisation
- FORKLIFT
- Case studies
Behavioural economics
- Consumer & Retail modelling (BN & ABM)
- FW reduction scenarios
- Roadmap policy interventions
Welcome to the Refresh Community of Experts
An online platform to find and share information and best practice on food waste prevention

www.eu-refresh.org

Dissemination
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The production of food results in by-products. Instead of disposing them as waste, they can also be valorised into new products. This quiz lets you find out what new products can be made from this food waste?

www.eu-refresh.org
REFRESH policy work

Focus areas reflected in policy work

Four policy briefs:

1. Changing consumer behaviour (and implementation and monitoring of interventions)
2. Feeding surplus food to omnivorous non-ruminant livestock
3. Voluntary agreements
4. Unfair Trading Practices

Integrated supply chain policies

3 Policy briefs just published on the REFRESH website
Policy Briefs
1. Reducing **consumer** food waste
2. Regulating the role of **UTPs** in FW generation
3. **Voluntary agreements** as a collaborative solution for food waste reduction
4. Avoiding FW through **feeding surplus food** to omnivorous non-ruminant livestock
   + Background report on **policy options** for consumer behaviour
   + Guidance on **evaluating** HH FW interventions

**Policy Workshops**

- System maps & analytical framework
  Mapping food waste drivers across the food supply chain

- Review relevant EU Policy areas related to food waste prevention and valorisation

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Date: 3/22/2019
Policy Recommendations

Need of integrated policies to reduce food waste and promote sustainable food systems

REFRESH calls for:
- Integrated policies
- Integrated supply chains
- Transparency & traceability
- Priorities on the Biggest Impact areas
  - Bread & fresh vegetables in top of waste streams
  - Year round availability / ‘gluts’
  - Animal feed & consumption: head-to-tail & dietary changes
  - Food use hierarchy
Finalising REFRESH & next

- Changing consumer behaviour
- Supply chain interventions
- Impact measurement & evaluation

Knowledge and Best Practice on Food Waste Prevention

**Ability**
- Assess food safety
- Cook creatively
- Accurate planning
- Prolong shelf life

**Motivation:**
- Awareness
- Attitudes
- Social norm
- Competing goals

**Opportunity**
- Product size & quality
- Access to stores
- Space at home
- Unforeseen events

**Household practices**

**Food waste level**

Five key steps

1. INITIATION AND SET-UP
2. AMBITIONS, GOALS AND TARGETS
3. GOVERNANCE AND FUNDING
4. ESTABLISHING ACTIONS
5. MEASUREMENT AND EVALUATION

Setting up a voluntary agreement

5/10/2019