Food Waste ➔ Food Use & Resource Efficiency
The overall aim of the project is to contribute significantly to the harmonisation of food waste monitoring, feasibility of social innovative measures for optimised food use in the food chain and the development of a Common Food Waste Policy for EU28.

Project duration: 48 months (2012 – 2016)

www.eu-fusions.org
Involving 21 partners in 13 countries
Food waste 2012 - 2015

Growing attention → Strong on the agenda: CE package

Uncertainty on definition and amounts → New frameworks and data

What can we do?
→ Increasing action by policy and innovative initiatives
• EC Circular Economy Package (2.12.2015)  
Target = SDG 12.3 by the UN

➔ By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses
➔ Harmonised monitoring (bi-annually)
### Highlights FUSIONS 2012 - 2015

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<th><strong>Quantification</strong></th>
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<td><strong>Recommendations</strong></td>
<td>Harmonised &amp; reliable data EU 28</td>
<td>FW policy for EU 28</td>
<td>Lessons learned &amp; replication</td>
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FUSIONS Definitional Framework

Resource flows in Agri-Food System

A Food Supply chain

A1: Primary production pre-harvest
1. Plant production
2. Animal production & aquaculture
3. Fisheries

A2: Primary production ready for post-harvest
1. Plant production
2. Animal production & aquaculture
3. Fisheries

A3: Processing

A4: Wholesale, retail & marketing
1. Wholesale
2. Retail
3. Redistribution

A5: Food preparation & consumption
1. At home
2. Out-of-home

B Food and inedible parts removed from the food supply chain

B1: Animal feed
B2: Biobased materials & biochemicals processing
B3: Composting
B4: Plough-in/ not harvested
B5: Anaerobic digestion

B6: Bio-energy
B7: Co-generation
B8: Incineration
B9: Sewer
B10: Landfill
B11: Discards
### Publicly available data EU28 -> many gaps

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**Notes:**
- "No data available" indicates that there is insufficient data to make a determination.
- "Data of sufficient quality" indicates that the data is reliable and complete.
- "Data of insufficient quality" indicates that the data is incomplete or unreliable.
- "No information on what was included was retrieved" indicates that there is no clear explanation of what was included in the data.
- "Several or major waste flows not being covered" indicates that specific waste streams are not accounted for.
- "Several or major waste flows included in the amounts could be given" indicates that more detailed data is available with further explanation.
- "Several or major waste flows including sewer and home composting" indicates that more detailed data is available including specific waste streams.

**Reducing food waste through social innovation**

**EU28**

**NACE**

- **1-3**: Production
- **10-11**: Processing
- **46**: Wholesale and logistics
- **47**: Retail and markets
- **56**: Food services
What did we get… (a new estimate)

100 Mtonnes (2012) ± 23 Mton

45% Households

GWP: 227 Mton CO₂ eq. (16%)
FUSIONS multi-stakeholder platform
Innovation

- Cr-EAT-ive
- Social Supermarkets
- Gleaning

Gleaning Network EU

- Communique
- Hungarian Foodbank Association
- Disco Boco
Join the FUSIONS final meetings

Discussion, workshops & consultation on Quantification, Policy & Social Innovation

FUSIONS’ upcoming meetings:

Regional:
• 29 January Thessaloniki (Greece)
• 11 February Amsterdam (NL) incl. FSE event
• 25 February Vienna (AUT) incl. FSE event

European:
• 29 March Brussels (B)

See www.eu-fusions.org or contact fusions@wur.nl
Reducing food waste through social innovation
2015 and Beyond

- Necessity stays: ethically, economically & ecologically for food security and resource efficiency
- Improved food use stimulates innovation and creativity in the FSC
- Awareness of opportunities within the FSC
- Inform and facilitate consumer awareness & action
- Increase knowledge: data, harmonisation, innovation
Global increasing interest to tackle FW

- UN SDG 2015 – 2030
- UNEP Think.Eat.Save
- WRI Global protocol measuring food losses and waste
- G20 initiative Technical platform measurement & reduction of food losses & waste
- Champions 12.3 alliance of captains of industry, NGOs and MS (launch at the WEF in DAVOS, January 2016)
European responses

• EC Circular Economy Package (2.12.2015)
  Target = SDG 12.3 by the UN

→ By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses
→ Harmonised monitoring (bi-annually)
Develop a **common EU methodology** to measure food waste and define relevant indicators.

Create a **platform** involving Member States and stakeholders in order to support the achievement of the SDG targets on food waste, through the sharing of best practice and the evaluation of progress made over time.

Take measures to **clarify EU legislation** relating to waste, food and feed and facilitate food donation and the use of former foodstuff and by-products from the food chain in feed production without compromising food and feed safety;

examine ways to improve the use of **date marking** by actors in the food chain and its understanding by consumers, in particular the "best before" label.

- 26 partners
- Multi stakeholder platforms
Central Ambition

- Voluntary strategic agreements
- Across all stages of the supply chain
- Backed by National Governments,
- Delivered through collaborative working
- Supported by evidence-based tools

Success will support transformation towards a more sustainable and secure EU food system, benefiting Europe’s economy, environment and society.
Project structure

WP2
Framework of action

WP1
Consumer Understanding

WP3
Policy framework

WP4
Behavioural economic approaches

WP5
Environment impact & LCC

WP6
Valorisation waste & co-products
Consortium
More information

• www.eu-refresh.org

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