

FUSIONS Highlights 2012-2015

RPM Nordic / Scandinavia

Hilke Bos-Brouwers

Copenhagen, 15 December 2015





Food Waste → Food Use & Resource Efficiency









Project objectives FUSIONS

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

Uncertainty on definition and amounts

 \rightarrow

New frameworks and data

What can we do?

Increasing action by policy and innovative initiatives

→ Strong

Growing

on the agenda:

CE package







2015 and beyond







































- 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

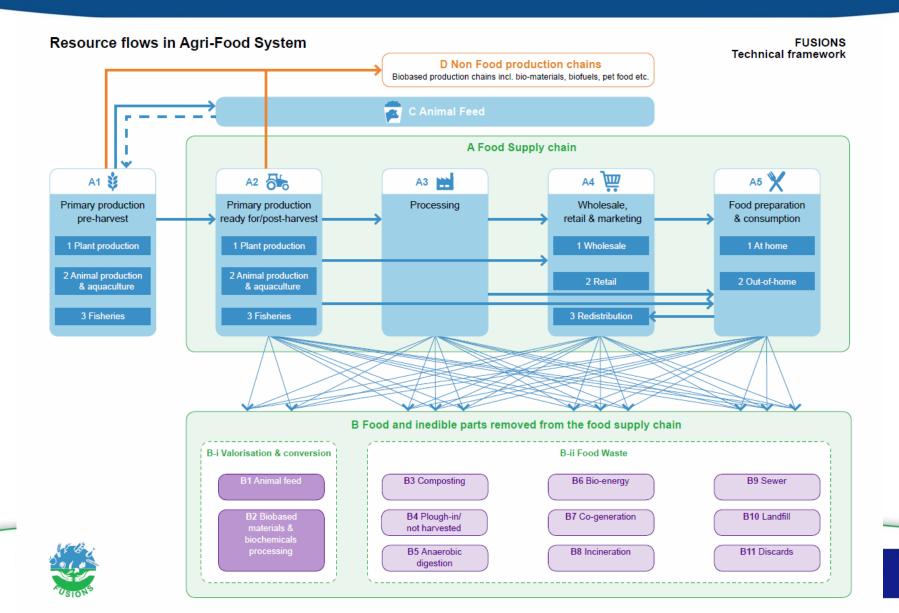
| | Quantification | Policy | Innovation |
|----------------------|--|---|--|
| Inventories | Review of: EUROSTAT(F)W reportingmethodologies Standard approach quantitative techniques Drivers of FW generation | Review of: EU legislationMS policies Market based instruments Stimulating SI through policy measures | Inventory of SI Projects How SI can help to reduce FW |
| Frameworks | Definitional FrameworkManual | Policy evaluation Framework | FS selection criteria |
| Actions | FW dataset EU-28 / gap analysisSoc/Env/Econ ImpactManual pilot | •Scenario Analysis •Guidelines FW Policy | 7 Feasibility Studies |
| Recommen- dations | Harmonised & reliable data EU 28 | FW policy for EU 28 | Lessons learned & replication |







FUSIONS Definitional Framework



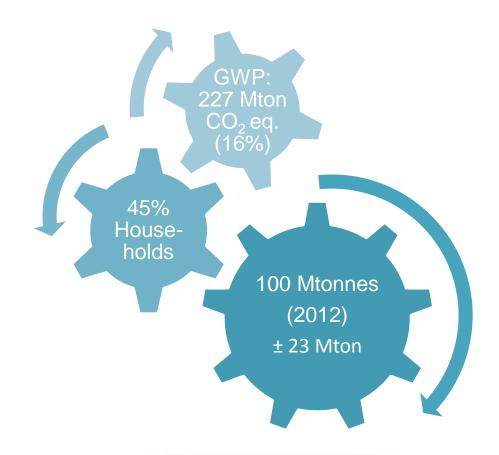
Publicly available data EU28 -> many gaps

| | 1. Production | 2. Processing | 3. Wholesale and | 4. Retail and markets | 5. Redistribution | 6. Food service | |
|-------------------|--|---|---|---|--|-------------------------------------|--|
| Country | (NACE 1-3) | (NACE 10-11) | J. Wholesale and logistics (NACE 46) | 4. Ketail and markets (NACE 47) | (food donation etc.) | (NACE 56) | 7. Household |
| Country | (MAGE 1-5) | (MCE-10-11) | TOGISHES (TEACL 40) | (MAGE-47) | Data has been | (IAGE 30) | 77 Household |
| 1 | | | | | submitted but no | | |
| | | | | | estimation of food | | |
| | | Food waste data of low | | | waste amounts has | | |
| Austria | No data available | quality | No data available | Data of sufficient quality | been made. | Data of sufficient quality | Data of sufficient quality |
| | Food waste data of low | Food waste data of low | Food waste data of low | Food waste data of low | | Food waste data of low | |
| Belgium | quality | quality | quality | quality | No data available | quality | Food waste data of low quality |
| Bulgaria | No data available | No data available | No data available | No data available | No data available | No data available | No data available |
| | | | Low food waste amounts. | Low food waste amounts. | | Low food waste amounts. | Low food waste amounts. Several |
| | | | Several or major waste flows | Several or major waste flows | | Several or major waste flows | or major waste flows not being |
| Croatia | Low food waste amounts | Low food waste amounts | not being covered. | not being covered. | No data available No data available | not being covered. | covered. |
| Cyprus | No data available | No data available | No data available | No data available | No data available | No data available | No data available |
| | | | | | | Lowfood waste amounts. No | |
| | Low food waste amounts | | Food waste data of low | Food waste data of low | | explanation on what was | Several or major waste flows not |
| Czech republic | without any explanation given | | quality | quality | No data available | included. | being covered. |
| | | Data of insufficient quality as only edible food waste was | | | | | No information on what was |
| Denmark | Data of sufficient quality | reported. | Data of sufficient quality | Very high food waste amounts | No data available | Data of sufficient quality | included was retrieved. |
| Estonia | No data available | Low food waste amounts | Data of sufficient quality | Data of sufficient quality | No data available | Low food waste amounts | Data of sufficient quality |
| LSWIIII | no dota avanabic | Data of insufficient quality as | out or summerent quanty | High food waste amounts. No | cata avanable | CON 1000 Waste amounts | or sufficient quarity |
| | | only edible food waste was | | explanation on what was | | | |
| Finland | No data available | reported. | No data available | included. | No data available | Data of sufficient quality | Data of sufficient quality |
| | Low food waste amounts. | | High food waste amounts. No | High food waste amounts. No | | | , |
| | Several or major waste flows | | explanation on what was | explanation on what was | | | No information on what was |
| France | not being covered. | Data of sufficient quality | included. | included. | No data available | Data of sufficient quality | included was retrieved. |
| Germany | Data of sufficient quality | Data of sufficient quality | Data of sufficient quality | Data of sufficient quality | No data available | Data of sufficient quality | Data of sufficient quality |
| | | | | | | Low food waste amounts. No | |
| | Low food waste amounts | | | | | information on what was | No information on what was |
| Greece | without any explanation given | | Data of sufficient quality | Data of sufficient quality | No data available | included was retrieved. | included was retrieved. |
| Hungary | No data available | No data available | No data available | No data available | No data available | No data available | No data available |
| | | | | | Data has been | | |
| | | | | | submitted but no | | |
| | | | High food waste amounts. No | High food waste amounts. No | estimation of food | | |
| l | | | information on what was | explanation on what was | waste amounts has | | |
| Ireland | No data available | No data available | included was retrieved. | included. | been made. | Data of sufficient quality | Data of sufficient quality |
| | | Data of insufficient quality as | | | | | |
| Italy | Data of sufficient quality | only edible food waste was reported. | Data of sufficient quality | Data of sufficient quality | No data available | No data available | No explanation given? |
| Italy Latvia | No data available | No data available | No data available | No data available | No data available No data available | No data available No data available | |
| Latvid | no data avanable | ino data avairable | NO Gata avanable | nto data avanable | no data avallable | no data avanable | No data available No information on what was |
| Lithuania | Low food waste amounts | Data of sufficient quality | Data of insufficient quality. | Data of insufficient quality. | No data available | Data of insufficient quality. | included was retrieved. |
| | 2011 1000 Waste amounts | zata 27 Juniorent quantly | z z z z modificient quality. | | | 2 to 27 mountaine quality. | Data of sufficient quality |
| | | Low food waste amounts | | | | Low food waste amounts | (excluding sewer and home |
| Luxembourg | No data available | without any explanation given | Data of sufficient quality | Data of sufficient quality | No data available | without any explanation given | composting) |
| | | , , , , , , , , , , , , | | | | | Data of sufficient quality |
| | | | | | | | (excluding sewer and home |
| Malta | No data available | Data of insufficient quality. | No data available | No data available | No data available | No data available | composting) |
| | | | | | Data has been | | |
| | | | | | submitted but no | | |
| | | | | | estimation of food | | |
| | | | | | waste amounts has | Several or major waste flows | Data of sufficient quality |
| Netherlands | No data available | No data available | No data available | Data of sufficient quality | been made. | not being covered. | (excluding home composting) |
| Poland | No data available | No data available | No data available | No data available | No data available | No data available | No data available |
| | | Low food waste amounts. | | | | | |
| | Low food waste amounts | Several or major waste flows | | | | | |
| Portugal | without any explanation given | | No data available | No data available | No data available | No data available | No data available |
| Romania | No data available | No data available | No data available | No data available | No data available | No data available | No data available |
| | Low food waste amounts. | | | | | | |
| | Several or major waste flows | Several or major waste flows | | | | | |
| Slovakia | not being covered. | not being covered. | No data available | No data available | No data available | No data available | No data available |
| | Low food waste amounts. | No explanation of what was | | | | Low food waste amounts. | |
| Cli- | Several or major waste flows | included in the amounts | Date of cuttinia and the | Data of sufficient to | | Several or major waste flows | Park waste and non household |
| Slovenia Spain | not being covered. | could be given. | Data of sufficient quality No data available | Data of sufficient quality No data available | No data available | not being covered. | MSW are included in the amounts |
| opaili | No data available Low food waste amounts. | No data available | No data avallable | INO GARA AVAITABLE | No data available | No data available | No data available |
| | Several or major waste flows | Byproducts are included in | | | | | |
| Sweden | not being covered. | the amounts. | No data available | Data of sufficient quality | No data available | Data of sufficient quality | Data of sufficient quality |
| United Kingdom | Data of insufficient quality. | Data of sufficient quality | Data of sufficient quality | Data of sufficient quality | No data available | Data of sufficient quality | Data of sufficient quality |
| om teu kinguolii | Dotto of insumerent quality. | Dotto of summereme quantly | Dow or summerent quantly | Dotto or summerent quantly | Gata available | ooto or summerent quarity | Dow or summerent quanty |





What did we get... (a new estimate)









FUSIONS multi-stakeholder platform



Innovation

Cr-EAT-ive ANATUKI





Social Supermarkets





Gleaning

Gleaning Network EU Hungarian Foodbank
 Association

Disco Boco













Join the FUSIONS final meetings

Discussion, workshops & consultation on Quantification, Policy & Social Innovation FUSIONS' upcoming meetings:

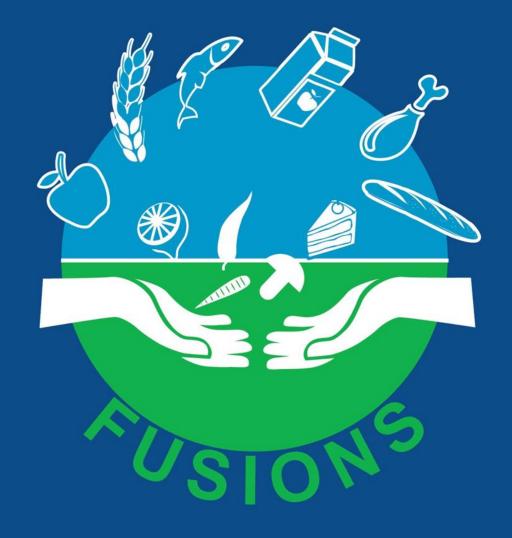
Regional:

- 29 January Thessaloniki (Greece)
- 11 February Amsterdam (NL) incl. FSE event
- 25 Febrary Vienna (AUT) incl. FSE event European:
- 29 March Brussels (B)

See www.eu-fusions.org or contact fusions@wur.nl









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 a nd 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)







EC actions

- 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



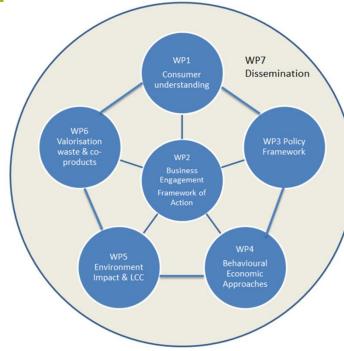






Resource Efficient Food and dRink for the Entire Supply cHain (2015 – 2019)

- 26 partners
- Multi stakeholder platforms





Central Ambition

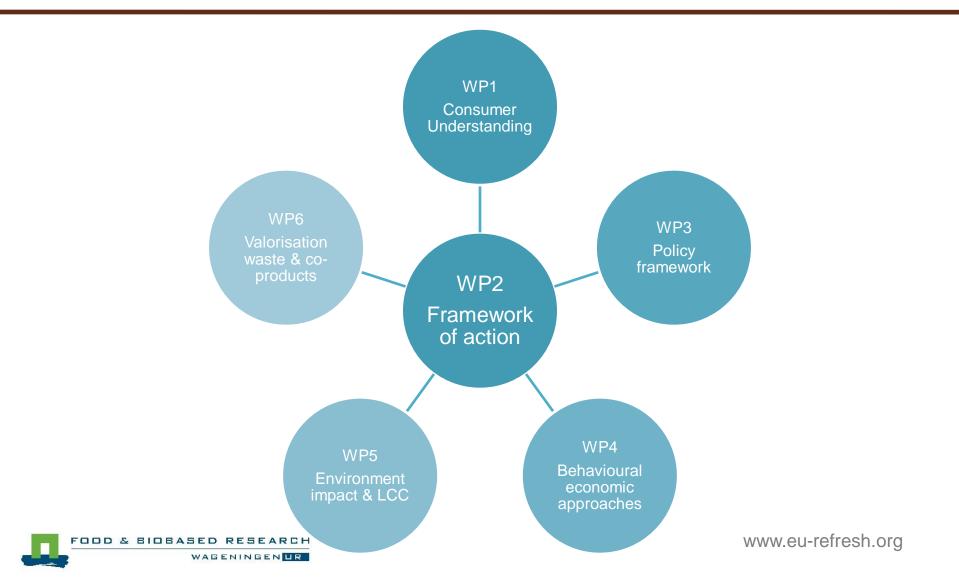
Framework of Action



- 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, benefitting Europe's economy, environment and society.

Project structure



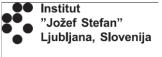
Consortium























University of Natural Resources and Life Sciences, Vienna































More information

www.eu-refresh.org

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