



## 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](http://www.eu-fusions.org)**

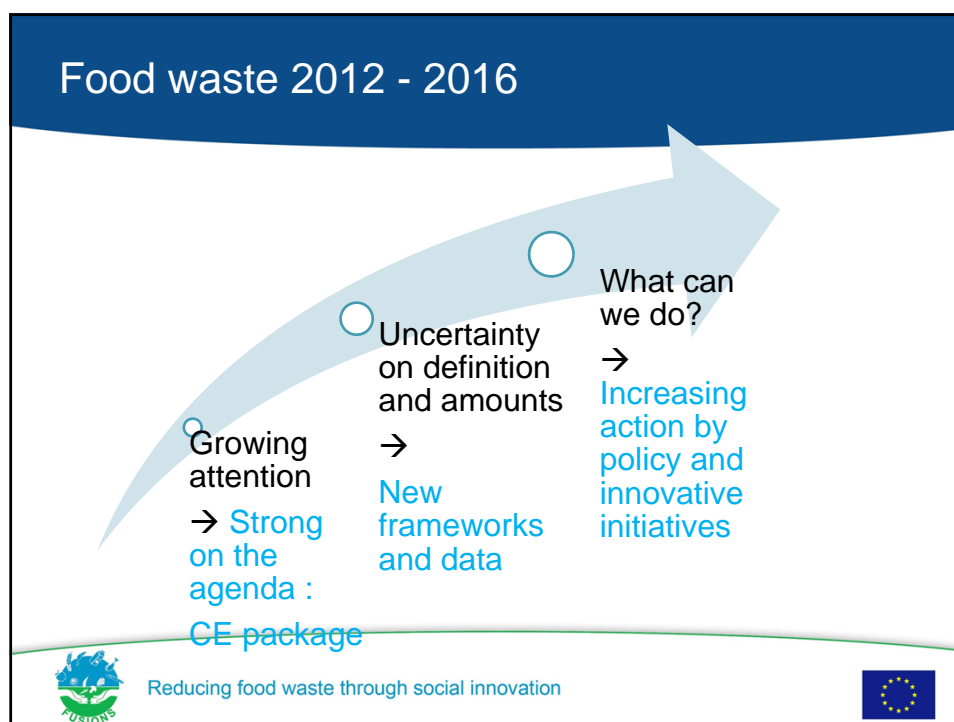
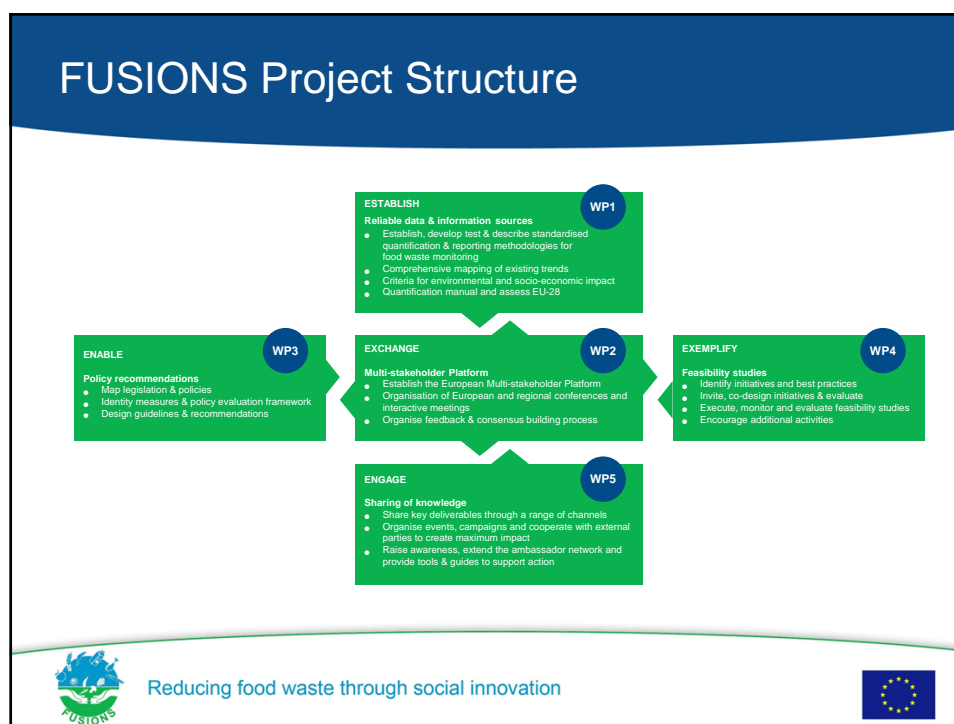


Reducing food waste through social innovation



## Involving 21 partners in 13 countries





## 2016 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 (?)



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## Highlights FUSIONS 2012 - 2016

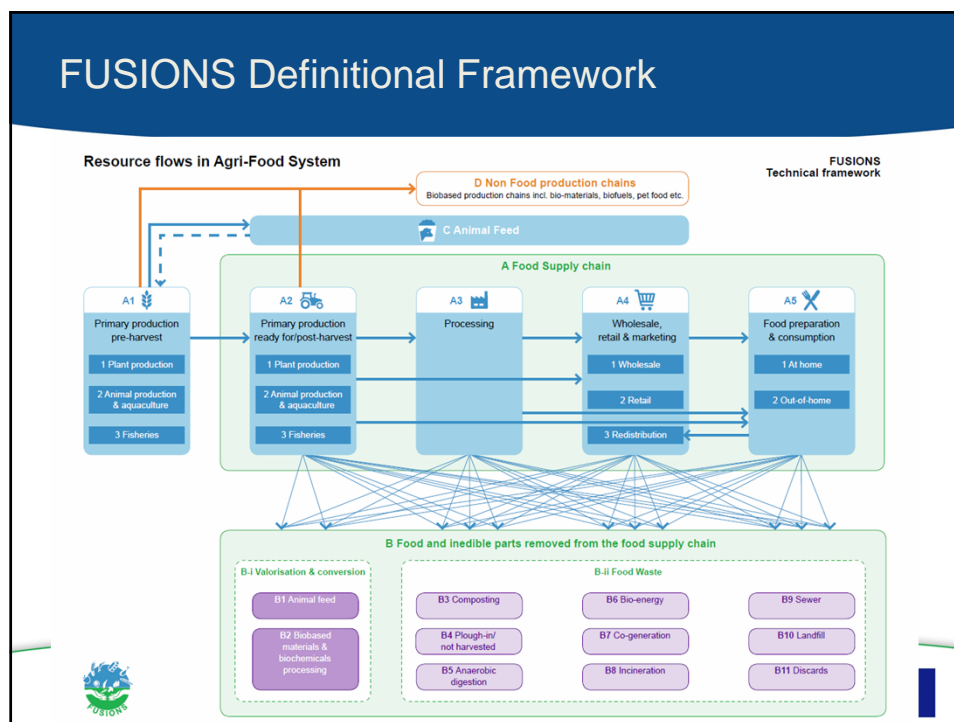
	Quantification	Policy	Innovation
Inventories	<ul style="list-style-type: none"> <li>• Review of:               <ul style="list-style-type: none"> <li>- EUROSTAT</li> <li>- (F)W reporting methodologies</li> </ul> </li> <li>• Standard approach quantitative techniques</li> <li>• Drivers of FW generation</li> </ul>	<ul style="list-style-type: none"> <li>• Review of:               <ul style="list-style-type: none"> <li>- EU legislation</li> <li>- MS policies</li> </ul> </li> <li>• Market based instruments</li> <li>• Stimulating SI through policy measures</li> </ul>	<ul style="list-style-type: none"> <li>• Inventory of SI Projects</li> <li>• How SI can help to reduce FW</li> </ul>
Frameworks	<ul style="list-style-type: none"> <li>• Definitional Framework</li> <li>• Manual</li> </ul>	Policy evaluation Framework	FS selection criteria
Actions	<ul style="list-style-type: none"> <li>• FW dataset EU-28 / gap analysis</li> <li>• Soc/Env/Econ Impact</li> <li>• Manual pilot</li> </ul>	<ul style="list-style-type: none"> <li>• Scenario Analysis</li> <li>• Guidelines FW Policy</li> </ul>	7 Feasibility Studies
Recommendations	Harmonised & reliable data EU 28	FW policy for EU 28	Lessons learned & replication



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# FUSIONS Definitional Framework

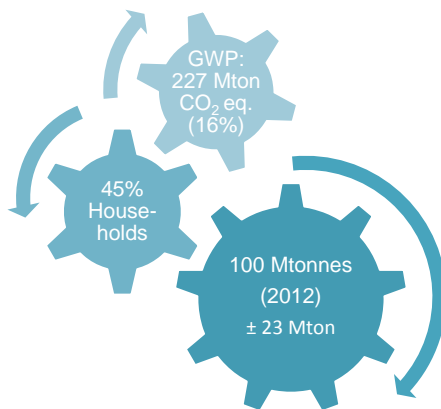


## Publicly available data EU28 -> many gaps

	1. Production (kg/ha)	2. Processing (kg/ha)	3. Wholesale and marketing (kg/ha)	4. Retail and marketing (kg/ha)	5. Distribution (kg/ha)	6. Food waste (kg/ha)	7. Food waste (kg/ha)
Austria	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Belgium	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Denmark	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
France	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Germany	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Greece	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Italy	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Poland	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Portugal	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Romania	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Slovakia	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Slovenia	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Spain	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Sweden	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Switzerland	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
United Kingdom	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Wales	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality
Yugoslavia	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality	Food waste data of low quality

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The table displays publicly available data for EU28 countries, categorized by food waste management stages. The data is presented in a grid format, with each cell indicating the quality of the data (e.g., 'Food waste data of low quality'). The table is color-coded: red for 'Food waste data of low quality', yellow for 'Food waste data of medium quality', and green for 'Food waste data of high quality'. The table is titled 'Publicly available data EU28 -> many gaps'.



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# FUSIONS multi-stakeholder platform

## Innovation

- Cr-EAT-ive 
- Social Supermarkets 
- Gleaning 
- Communique 
- Hungarian Foodbank Association 
- Disco Boco 



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## Join the FUSIONS final meetings

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

FUSIONS' upcoming meetings:

European:

- 31 March Brussels (B)

See [www.eu-fusions.org](http://www.eu-fusions.org) or contact [fusions@wur.nl](mailto:fusions@wur.nl)



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## 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



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## 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)



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## 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)



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WAGENINGENUR  
For quality of life



## 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




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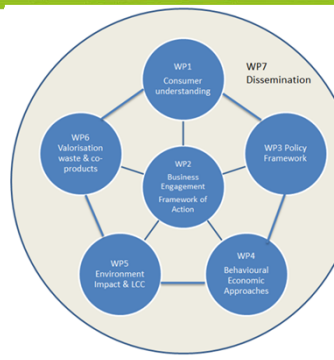
WAGENINGENUR  
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## Resource Efficient Food and dRink for the Entire Supply cHain (2015 – 2019)

- 26 partners
- Multi stakeholder platforms



WP1 Consumer understanding  
WP2 Business Engagement Framework of Action  
WP3 Policy Framework  
WP4 Behavioural Economic Approaches  
WP5 Environment Impact & LCC  
WP6 Valorisation waste & co-products  
WP7 Dissemination

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## Central Ambition

### Framework of Action

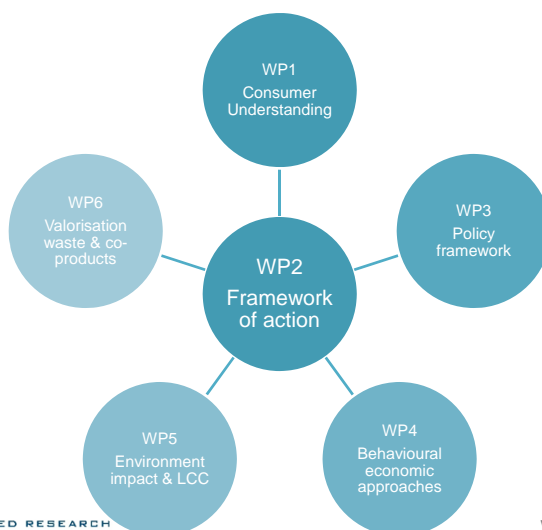


- Voluntary strategic agreements
- Across all stages of the supply chain
- Backed by National Governments,
- Delivered through collaborative working
- Supported by evidence-based tools

Success will support transformation towards a more sustainable and secure EU food system, benefitting Europe's economy, environment and society.

 [www.eu-refresh.org](http://www.eu-refresh.org)

## Project structure



FOOD & BIOBASED RESEARCH  
WAGeningenUR

[www.eu-refresh.org](http://www.eu-refresh.org)

## Consortium



[www.eu-refresh.org](http://www.eu-refresh.org)

## More information

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- [www.eu-refresh.org](http://www.eu-refresh.org)

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