Public-Private Partnerships and Social Innovations to Reduce Food Waste

APEC Workshop

Toine Timmermans, PIURA, 22 September 2016





Asia-Pacific Economic Cooperation



Food waste – latest estimate EU-28



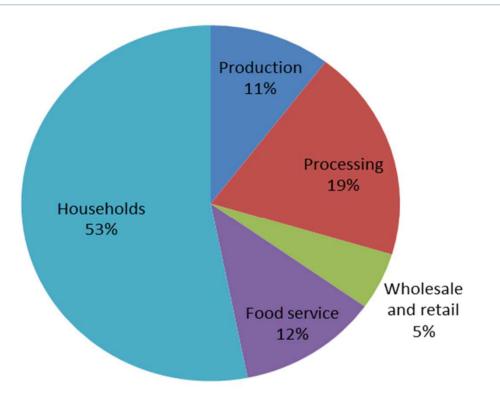


For more information on data and quantification, access the March 2016 FUSIONS reports "Estimates of European Food Waste" & "Food Waste Quantification Manual to monitor Food Waste Amounts and Progression"





Food waste – latest estimate EU-28



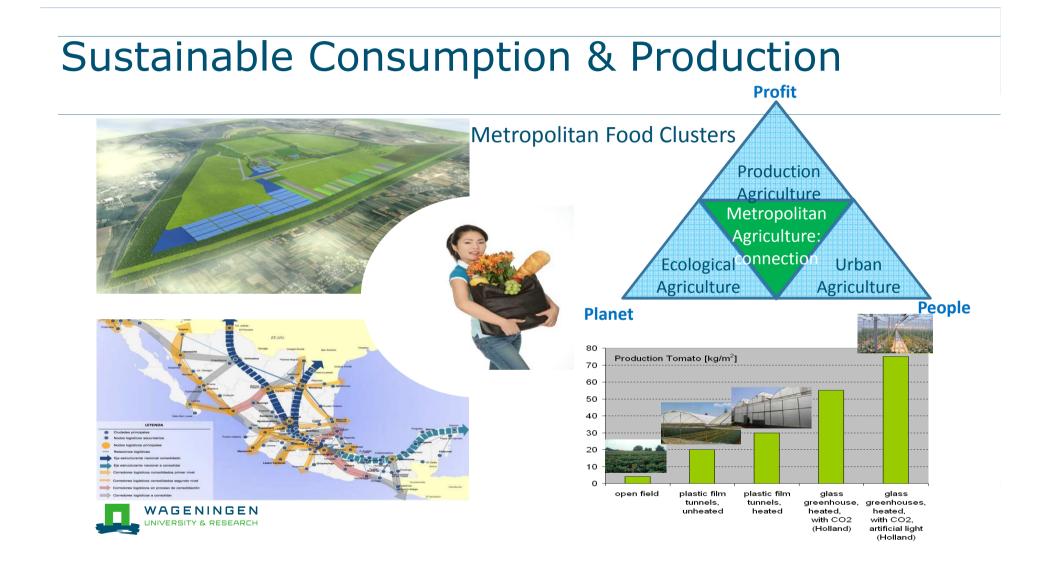




Some relevant trends in the Food world & drivers for the FLW issue

- The challenge of overpopulation 9.6 bln people in 2050 -60% more food production globally in 2050
- The challenge of urbanisation in 2050 70% of population is living in urban areas
 - Equivalent of building a new city for one million people every week in the next 35 years
- The challenge of beating malnourishment
- Changing diets
- Increase in obesitas & chronic diseases





European & global targets & initiatives



SDG 12.3:

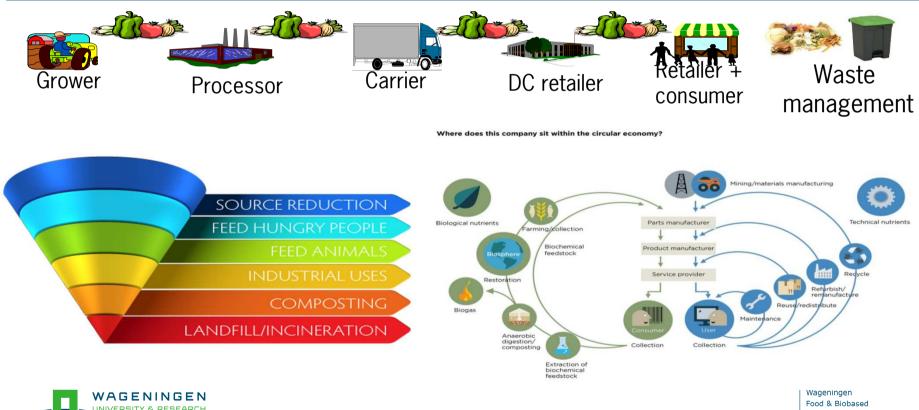
- By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses
- EC Circular Economy Package Target = SDG 12.3







Circular economy & value networks



Food & Biobased Research

FUSIONS Project Structure

WP3

ESTABLISH

WP1

WP2

WP5

Reliable data & information sources

- Establish, develop test & describe standaroused quantification & reporting methodologies for food waste monitoring
- Comprehensive mapping of existing trends
- Criteria for environmental and socio-economic impact
- Quantification manual and assess EU-28

ENABLE

Policy recommendations

- Map legislation & policies
- Identity measures & policy evaluation
 framework
- Design guidelines & recommendations

EXCHANGE

Multi-stakeholder Platform

- Establish the European Multi-stakeholder Platform
- Organisation of European and regional conferences and interactive meetings
- Organise feedback & consensus building process

ENGAGE

Sharing of knowledge

- Share key deliverables through a range of channels
- Organise events, campaigns and cooperate with external parties to create maximum impact
- Raise awareness, extend the ambassador network and provide tools & guides to support action

EXEMPLIFY

Feasibility studies

- Identify initiatives and best practices
- Invite, co-design initiatives & evaluate
- Execute, monitor and evaluate feasibility studies
- Encourage additional activities



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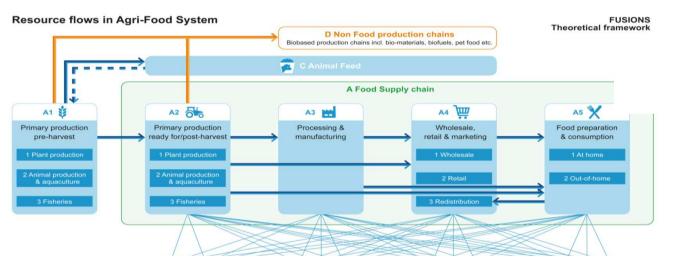
WP4



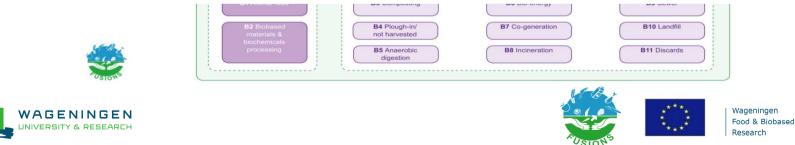
FUSIONS multi-stakeholder platform



FUSIONS definitional framework



Food waste: Any <u>food</u>, and <u>inedible parts</u> of food, removed from the food supply chain to be recovered or disposed to B3-B11, describing different end of life treatments



FLW PROTOCOL

A multi-stakeholder effort to develop a global *FLW Accounting and Reporting Standard*







World Business Council for Sustainable Development





Gleaning Project – Several countries

Objectives

- Bring together & support existing gleaning projects and understand the opportunities and challenges to further catalyse gleaning movements across Europe
- Develop guidance & dissemination tool

Outcomes:

- **Support provided** to 4 countries (Belgium, Spain, France, Greece)
- Gleaning guide and website set up









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BACK

Gleaning

Network EU

Cr-EAT-ive Project – Greece Raise awareness and influence behaviour **Objectives**

 Raise awareness on food waste and influence behaviour of kindergarden children, ^{Fo} their parents, teachers & canteen staff

Outcomes

- Food waste **diaries** (30 families)
- **Teaching materials** for children (teacher guides, fun exercises & a board game)
- Educational **guidelines** aimed at parents











Project Participants 6 Kindergardens 480 children 480 families 25 Teachers

7 Kindergarden Heads





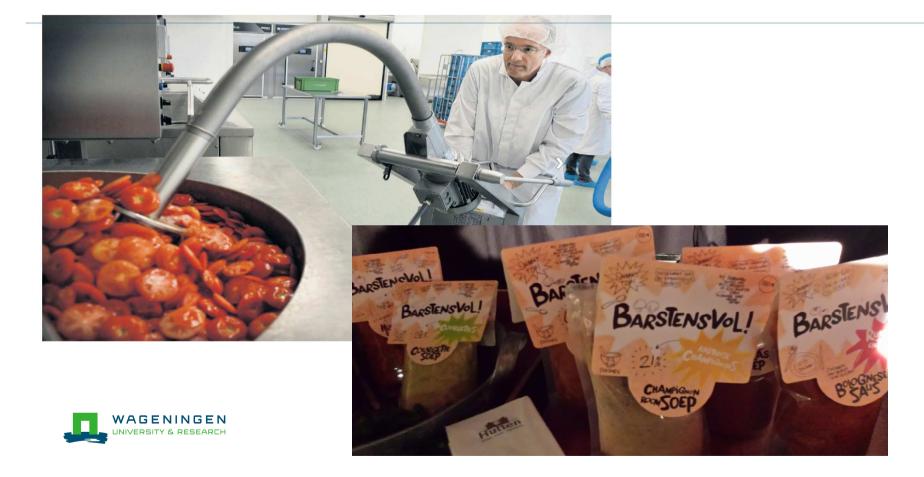




Social innovation, inspiring examples



Upscaling: de Verspillingsfabriek

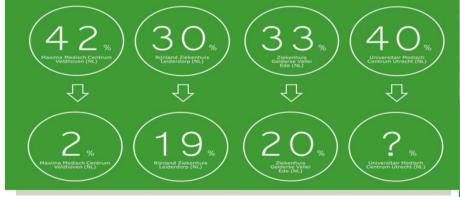


Alternative protein production systems



Food waste in health care: win-win

- Assessment of the relation between the serving concept and the effects on waste & quality of life
 - Food waste reduced to 2-20% (depending on new concept)
 - Appreciation quality of food increased (typical from 6 to 8)



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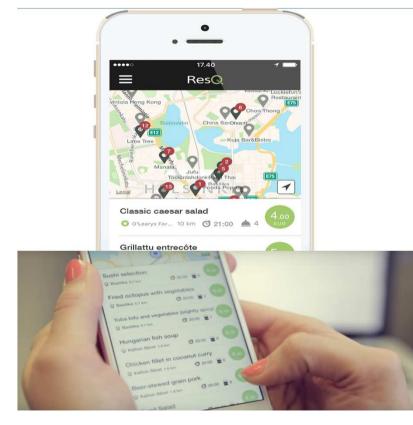
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Benchmark

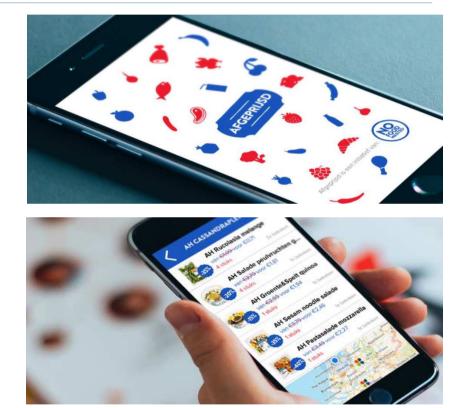
Wageningen UR has applied the method in 15 Dutch hospitals and healthcare institutions, making it possible to compare the results with each other. In this way, the organisations do not only know precisely how much they waste themselves, but also whether that is relatively more or less than the anonymised average of other hospitals.

Interaction retail & food service - consumer



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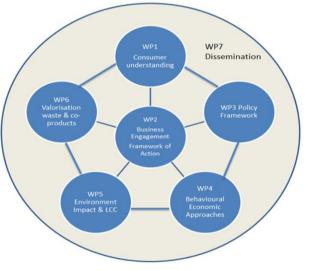
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Resource Efficient Food and dRink for the Entire Supply cHain (2015 – 2019)

26 partners

Multi stakeholder platforms: the Netherlands, Germany, Spain, Hungary, China





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The REFRESH Project

A central ambition of the REFRESH project is to develop a 'Framework of Action' model that is based on strategic agreements across all stages of the supply chain (backed by Governments), delivered through collaborative working and supported by evidence-based tools to allow targeted, cost effective interventions.

Success will support transformation towards a more sustainable food system, based on Circular Economy principles, benefitting Europé's economy, environment and society.



www.eu-refresh.org



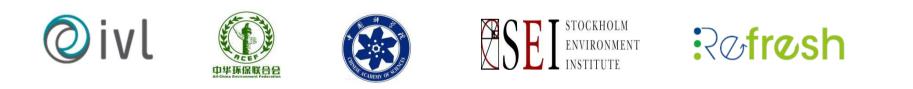
Research



Upcoming events

Launch REFRESH China, 26-27 November Beijing

The Food Waste Conference Multi-stakeholders Platform on Sustainable Food Supply And Consumption for Food Waste Reduction





www.eu-refresh.org



Wageningen

Research

CGIAR – CCAFS Program Reducing FLW

- New program in the context of Climate Change Agriculture and Food Security (2016 – 2022)
- 2016 Inception stage
- 2017 Develop new Public-private Partnerships

Project outcome statement

The project will contribute to understanding the link between FLW reduction and emissions mitigation, drivers for reducing FLW relevant to mitigation and promising interventions and their potential impacts on food, nutrition and emissions. The project will achieve this by setting up initiatives in selected value chains and regions with strong consortia that target the reduction of FLW, including business models and finance, stakeholder incentives, and interventions in the enabling environment.





CGIAR – CCAFS Program Reducing FLW



CCAFS main target countries in Phase II

The CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS) is carried out with support from CGIAR Fund Donors and through bilateral funding agreements. For details please visit https://ccafs.cgiar.org/donors.





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Thanks for your attention

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