

Activities within MACS-G20 Initiative Food Loss and waste - with focus on primary production

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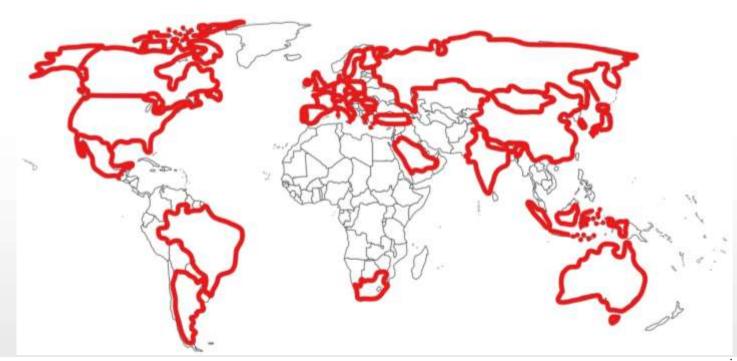
Outline

- Who we are
- Brief overview on general FLW activities of the Initiative
- Ongoing activities on agricultural level
- Outlook



Who we are (1)

- G20
 - "Group of Twenty" established in 1999
 - major economies (19 individual countries plus European Union)



Who we are (2)

- MACS-G20 = Meetings of Agricultural Chief Scientists of G20 Members (www.macs-g20.org)
 - meetings annually since 2012
 - addresses central questions in fields of agriculture and nutrition
 - to better coordinate agricultural research systems
 - to seek and apply common solution strategies
- 2019 chaired by Japan (G20 presidency)



Who we are (3)

MACS-G20 members

Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, South Korea, Mexico, Russia, Saudi Arabia, South Africa, Turkey, United Kingdom, United States, EU

MACS-G20 guests
Spain, CABI, CIHEAM, FAO, GFAR, GODAN, ICARDA, IFPRI, OECD, Wheat Initiative

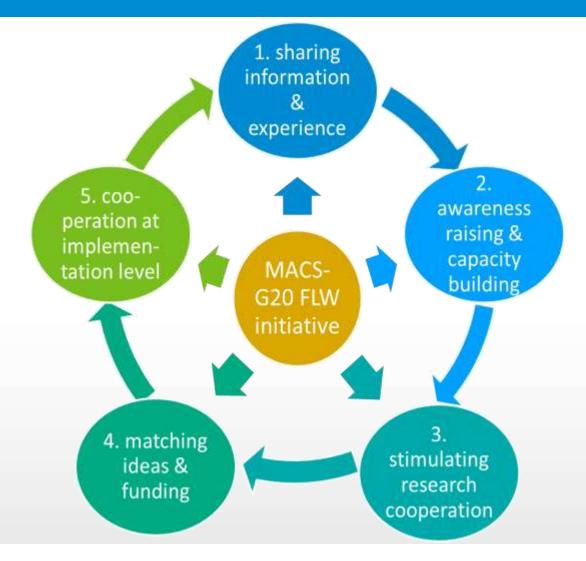
Thünen Institute

participates as one of three German delegates (represented by Stefan Lange who is research director of Thünen Institute)

MACS Collaboration Initiative on Food Losses & Food Wastes

- was raised at the MACS in Izmir (Turkey) in 2015
- aim of the Initiative is to concentrate the research and political consulting capacities of members in order to mobilize a <u>noticeable</u> <u>reduction</u> of food losses and waste on a global scale
- Germany is in charge with facilitation of relevant activities since the beginning, introduction of a coordinator mid of 2017

Main topics of MACS-G20 Initiative FLW



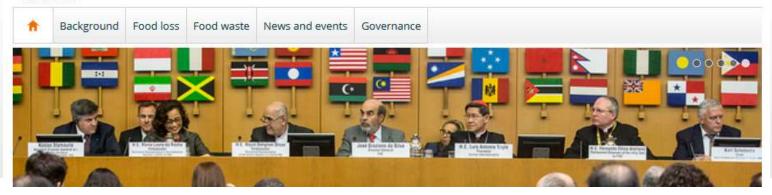


Technical Platform on the Measurement and Reduction of Food Loss and Waste

- http://www.fao.org/platform-food-loss-waste/en/
- launched by Food and Agriculture Organisation (FAO)



Technical Platform on the Measurement and Reduction of Food Loss and Waste





Global Food Loss and Waste Research Platform

- www.global-flw-research.org
- provided by Thünen Institute
- global FLW experts may register and provide information on their FLW expertise
- aim is to support especially policy makers to find experts for specific FLW topics on a global scale

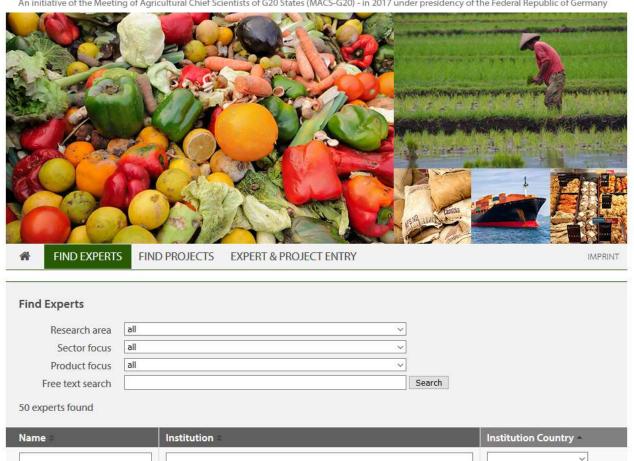


FOOD LOSSES & FOOD WASTE





An initiative of the Meeting of Agricultural Chief Scientists of G20 States (MACS-G20) - in 2017 under presidency of the Federal Republic of Germany

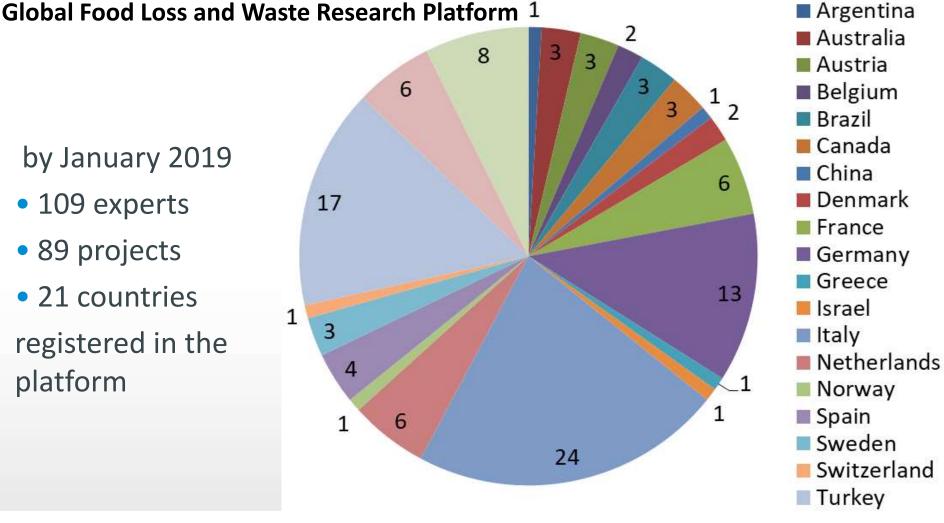




by January 2019

- 109 experts
- 89 projects
- 21 countries registered in the

platform





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Workshop series on FLW topics

- one FLW workshop per year in cooperation with G20 presidency and other local partners
- target group includes region around MACS-G20 member
- topics according to regional needs
 - 1st workshop: June 2017 in Berlin, collecting FLW topics from G20 countries
 - 2nd workshop: November 2018 in Buenos Aires, discussing FLW challenges for Latin America and The Carribbean
 - 3rd workshop: 2019 in Japan
 - 4th workshop: 2020 in Saudi Arabia

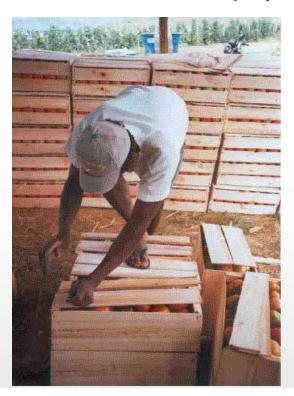


Examples from MACS-G20 members: Brazil - general

- Brazilian Technical Committee on Food Loss and Waste under lead of the Interministerial Chamber for Food and Nutrition Security (CAISAN) since March 2017
- "Inter-Sectoral Strategy for the Reduction of Food Loss and Waste" introduced in November 2017
- ongoing discussion on measurement and methodology of FLW along the food supply chain and identification of hot spots
- national FLW awareness campaign "#Sem Desperdicio" targeting Brazilian public to raise awareness and generate positive adoption of food consumption habits implemented by Embrapa, WWF Brazil and FAO as part of the European Union — Brazil Sector Dialogues on Food Waste Reduction



- PHL for fruits and vegetables estimated by 30 45 %
- losses due to lack of knowledge, presence of pests and diseases, poor infrastructure (equipment, cold chain, roads, packaging...)





Photos: Murillo Freire, Embrapa

Freire (2017), Henz (2017)



Activities of Embrapa (Brazilian Agricultural Research Corporation):

- training and capacity building for farmers
- monitoring of processes to identify hot spots for food businesses
- present research on the field
 - carrot losses at farm level during harvest, washing, grading and packaging
 - measuring amount and reasons (e.g. rotten, misshaped etc.)
 - comparison of conventional and organic producers



- "Ugly fruit" campaign at retail
 - marketing of fruits and vegetables not meeting the marketing standards at a cheaper price
 - Carrefour implemented campaign "Único" in Brazil in 2017
 - supermarkets "Zona Sul" and "SuperPrix" contribute in Rio de Janeiro

- "Fruta Imperfeita" online shop (São Paulo)
 - connecting smallholder growers with consumers
 - clients can choose between 14 non-standard fruits and veggies
 - order is delivered on weekly basis in recyclable carton boxes (3 to 10 kg)
 - in 2 years saved more than 300 tons of FFV



Slow Food Brazil

- works along the food production chain
- organises education and awareness campaigns and serve food prepared from discarded vegetables ("Disco Xepa")
- Refettorio Gastromotiva social restaurants
 - introduced 2016 by two chefs and one journalist in Brazil to recuperate food and restore dignity of people
 - use of fruits and vegetables not taken by supermarkets
 - offer free meals to vulnerable people as well as "pay for lunch, leave dinner paid" for all
 - started in Rio de Janeiro, expanded to other regions and countries



Examples from MACS-G20 members: Australia

- National Strategy on Food Waste launched in November 2017
- implementation plan under construction
- Fight Food Waste Cooperative Research Centre (CRC) started in 2018
 - reduce food waste along the food supply chain
 - transform unavoidable food waste into innovative high-value products
 - engage industry and consumers to deliver behavioural change
- activities to turn imperfect-looking vegetables into nutrient-rich snacks and supplements
 - e.g. in Queensland banana into gluten-free flour and other food and non-food products since 2012



Outlook

- activities towards prevention of food losses in agriculture ongoing
- accurate measurements are not primary focus
- increasing cooperation between farmers and other businesses
- postharvest losses in general (also beyond farm gate) is an important topic for some MACS-G20 members such as Latin American and Caribbean countries as well as Australia
- coordinator will further facilitate efforts towards food loss prevention on the farm
- EIP-AGRI focus group "Reducing food loss on the farm" will release mini-papers summarising available information





Thanks for your attention!

https://www.thuenen.de/en/institutsuebergreifende-projekte/macs-g20-initiative-on-food-loss-and-waste/

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