



Food and Agriculture
Organization of the
United Nations



SAVE FOOD Initiative on Food and Loss Reduction

Food Packaging and Private Sector Engagement

Robert van Otterdijk

Agro-Industry Officer

SAVE FOOD Initiative on Food Loss and Waste Reduction, Food and Agriculture Organization

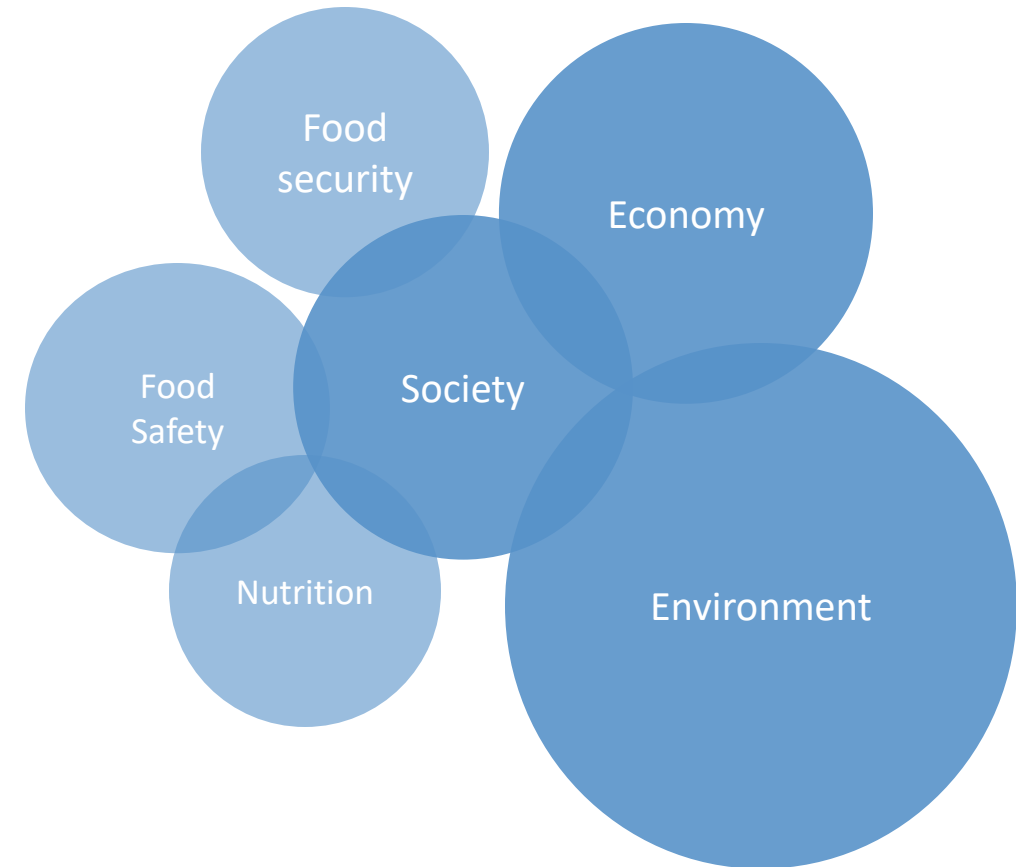
Regional Office for Europe and Central Asia

Food Loss and Waste: a complex problem

FLW reduction is not a goal in itself.

It is an essential part of **efficient value chains** that are the core of **sustainable food systems** which provide **food and nutrition security, economic growth** and **climate change mitigation**.

- Integrated multi-disciplinary programme – technology, economics, sociology, ecology, nutrition.
- FLW problem extremely complicated – Research must be thorough, practical and innovative.

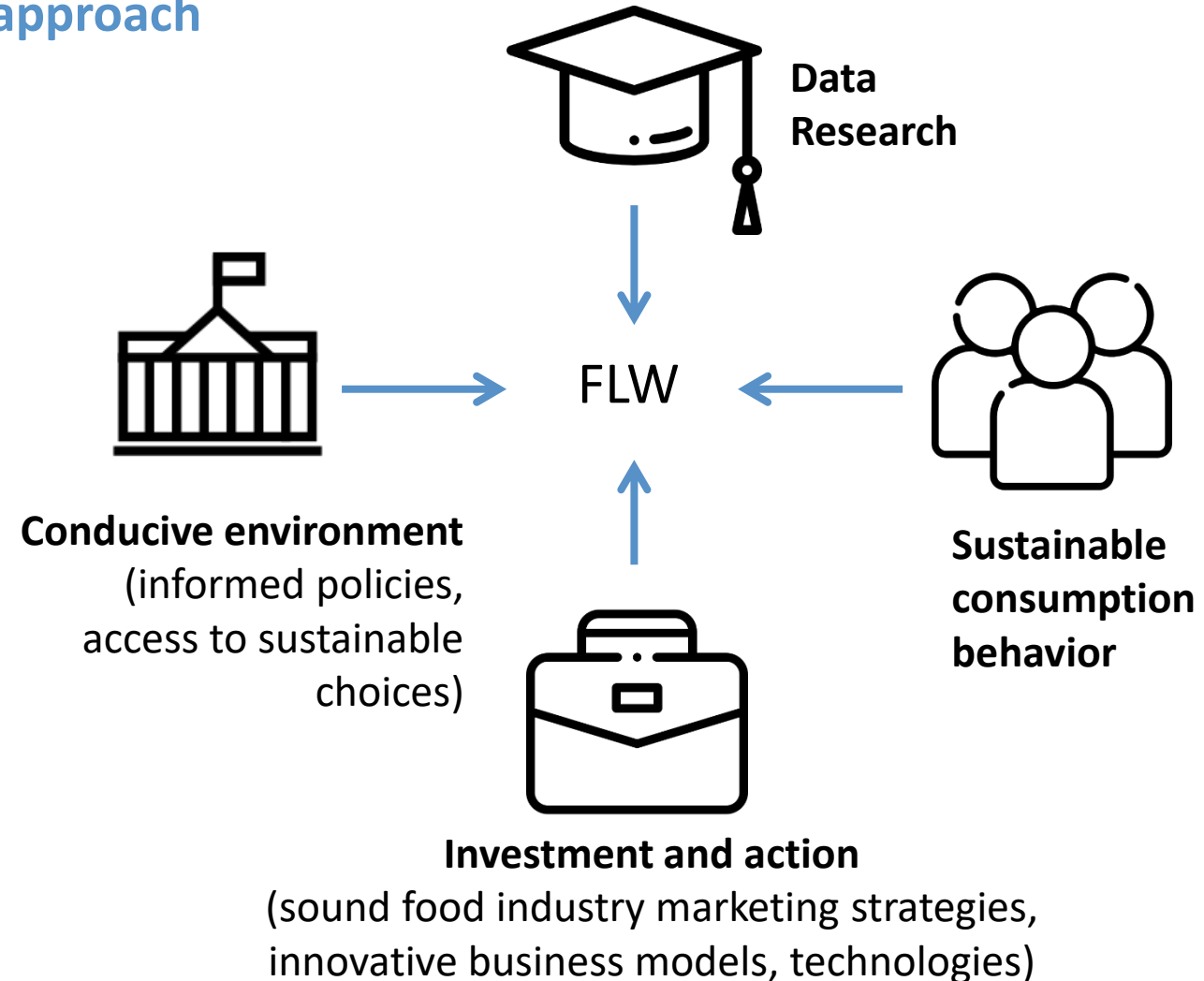


Food Loss and Waste: integrated and inclusive approach

FLW problem extremely vast – Implementation world-wide by partners.

Only the Private Sector can reduce food losses at a significant scale.

The Public Sector does research and provides guidance. It creates the enabling environment for the Private Sector to invest and act.



SAVE FOOD: Food Loss and Waste Reduction Programme

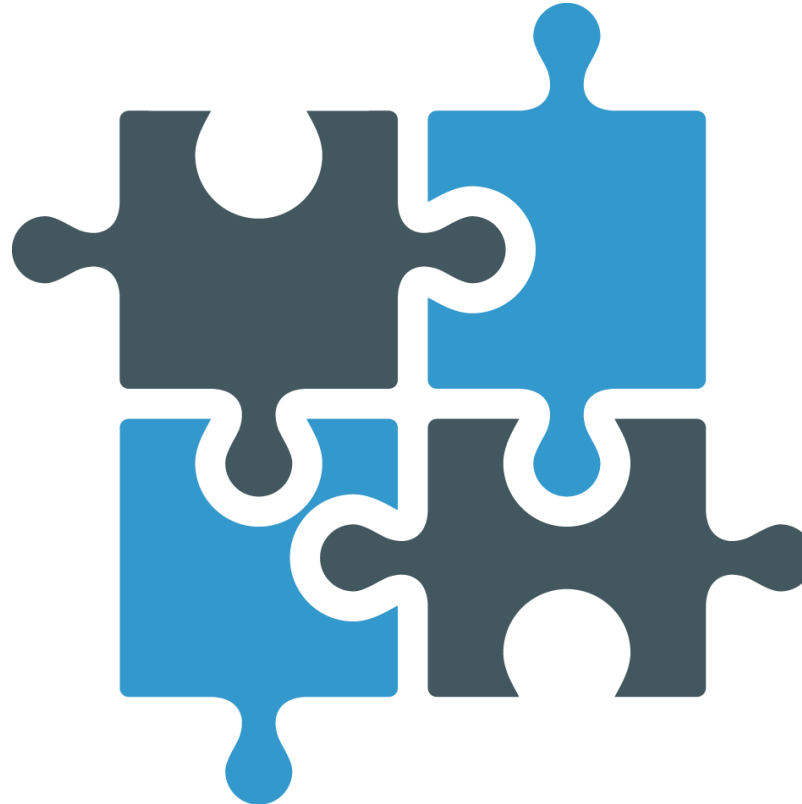
The programme on Food Loss and Waste Reduction in Europe and Central Asia operates at two levels – regional and national. **Regional** dimension of the programme envisages helping countries reduce FLW through:

Research and strategy

Research, analysis of VC and legal and regulatory frameworks
FLW strategies and action plans development

Technical assistance

Strategies implementation
Support of interventions
Capacity building (training, tools, guidelines, recommendations)



Partnerships

Facilitation of collaboration among actors
Coordination of efforts

Awareness and behavior

Empowering by providing reliable and clear information and tools
Driving change through engagement and informed interventions

SAVE FOOD: Food Loss and Waste Reduction Programme

National dimension of the programme comprises formulation of national strategies on Food Loss and Waste Reduction in Non-EU Eastern Europe and Central Asia:

- FLW reduction and national benefit;
- Review of a national food system;
- Analysis of the most important sub-sectors – strengths and weaknesses;
- Planning for FLW reduction.



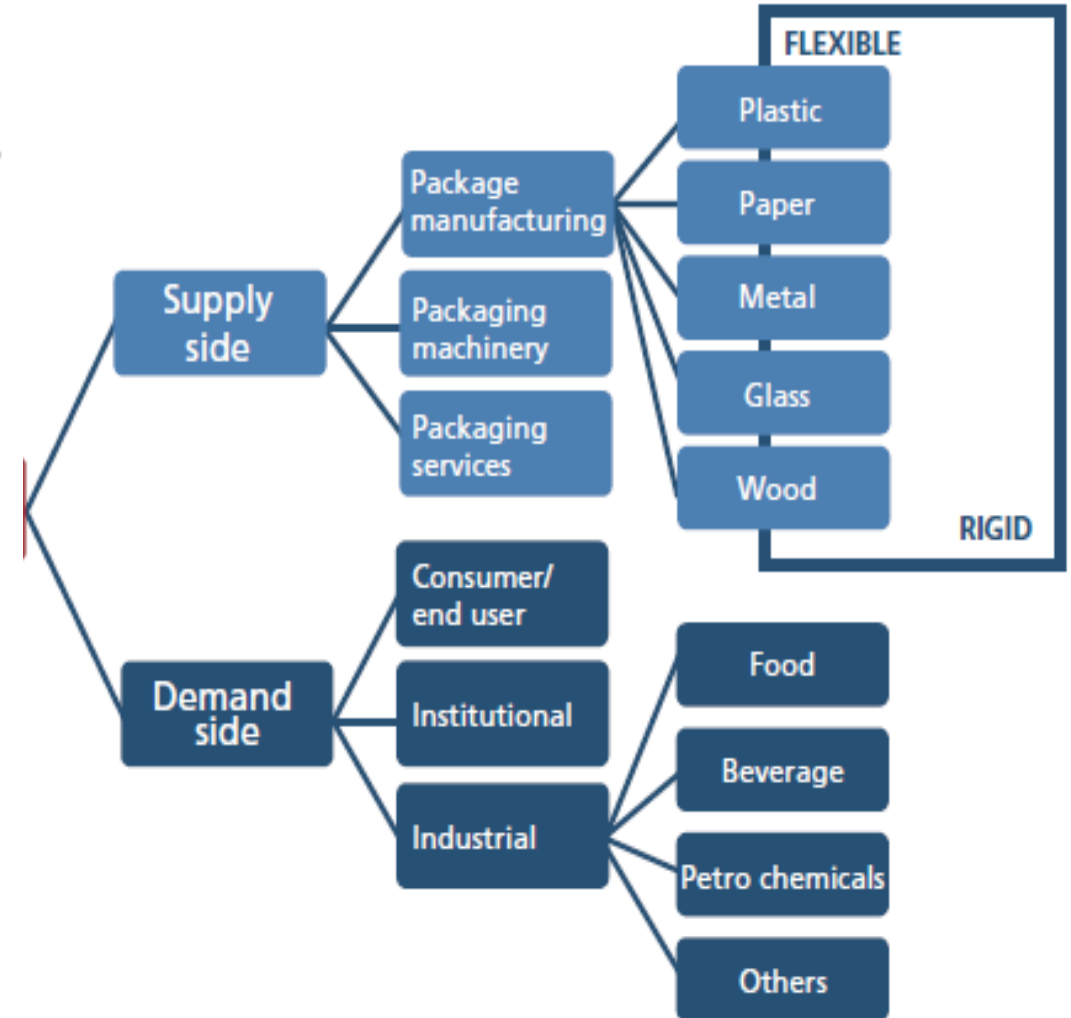
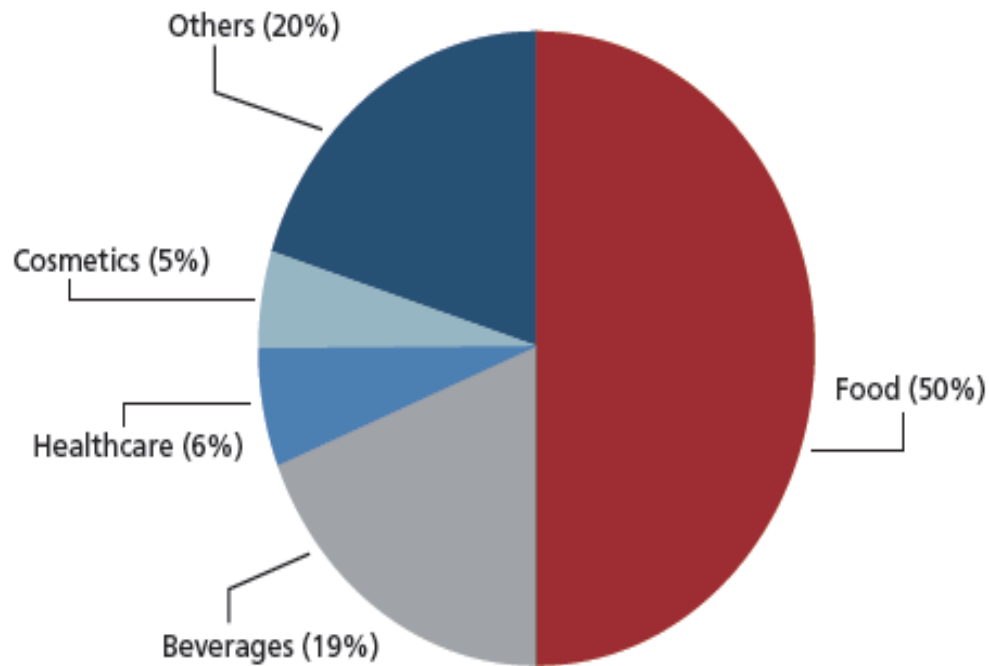
Food Loss and Waste Reduction

An intervention to reduce food loss and waste shall:

- Not be more expensive than food loss itself.
- Not place a higher burden on the environment and GHG emissions.
- Make more food available to the people that need it most.
- Be socially and culturally acceptable.

The global packaging industry

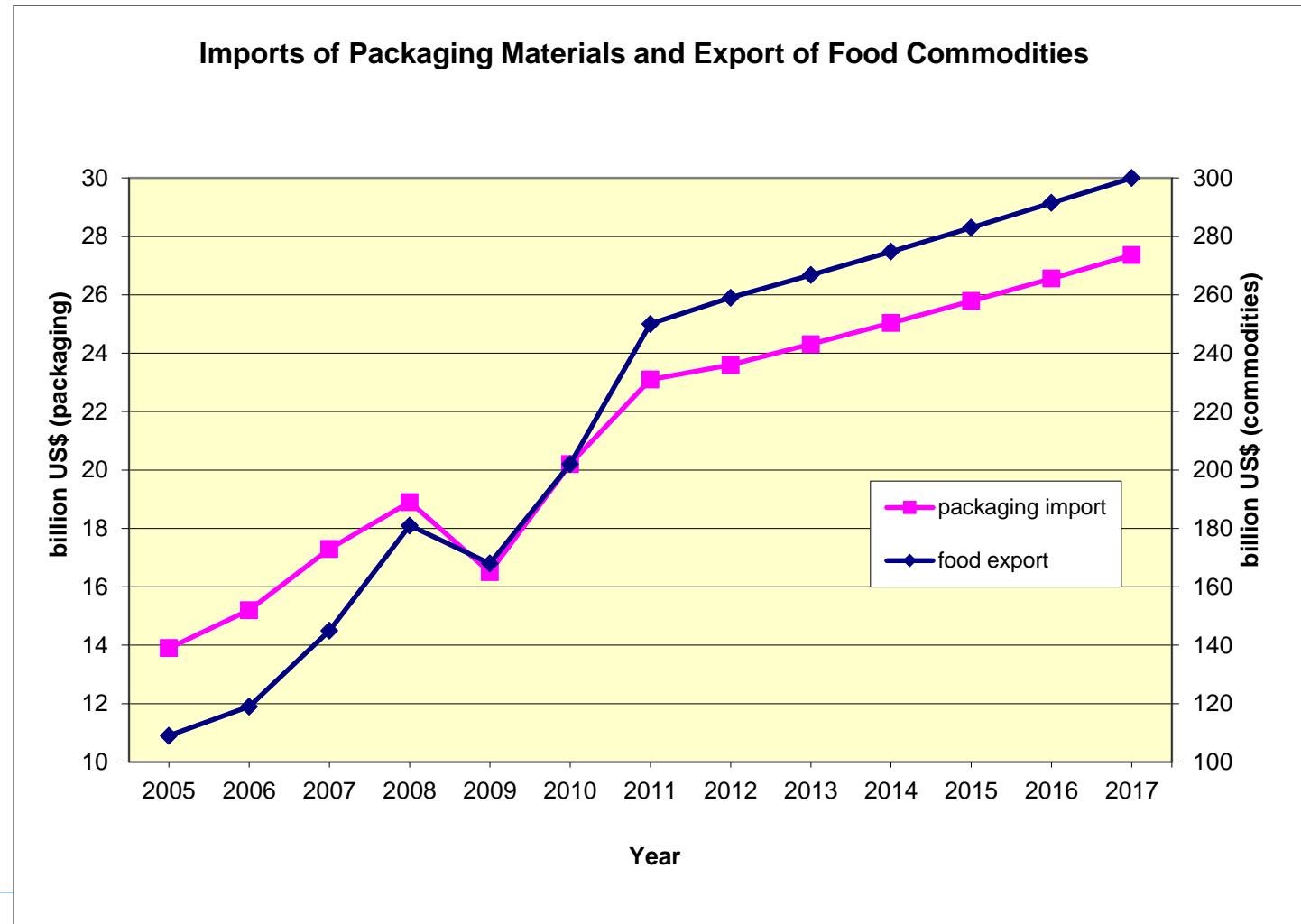
Figure 2. The global consumer packaging industry, by end use, 2009



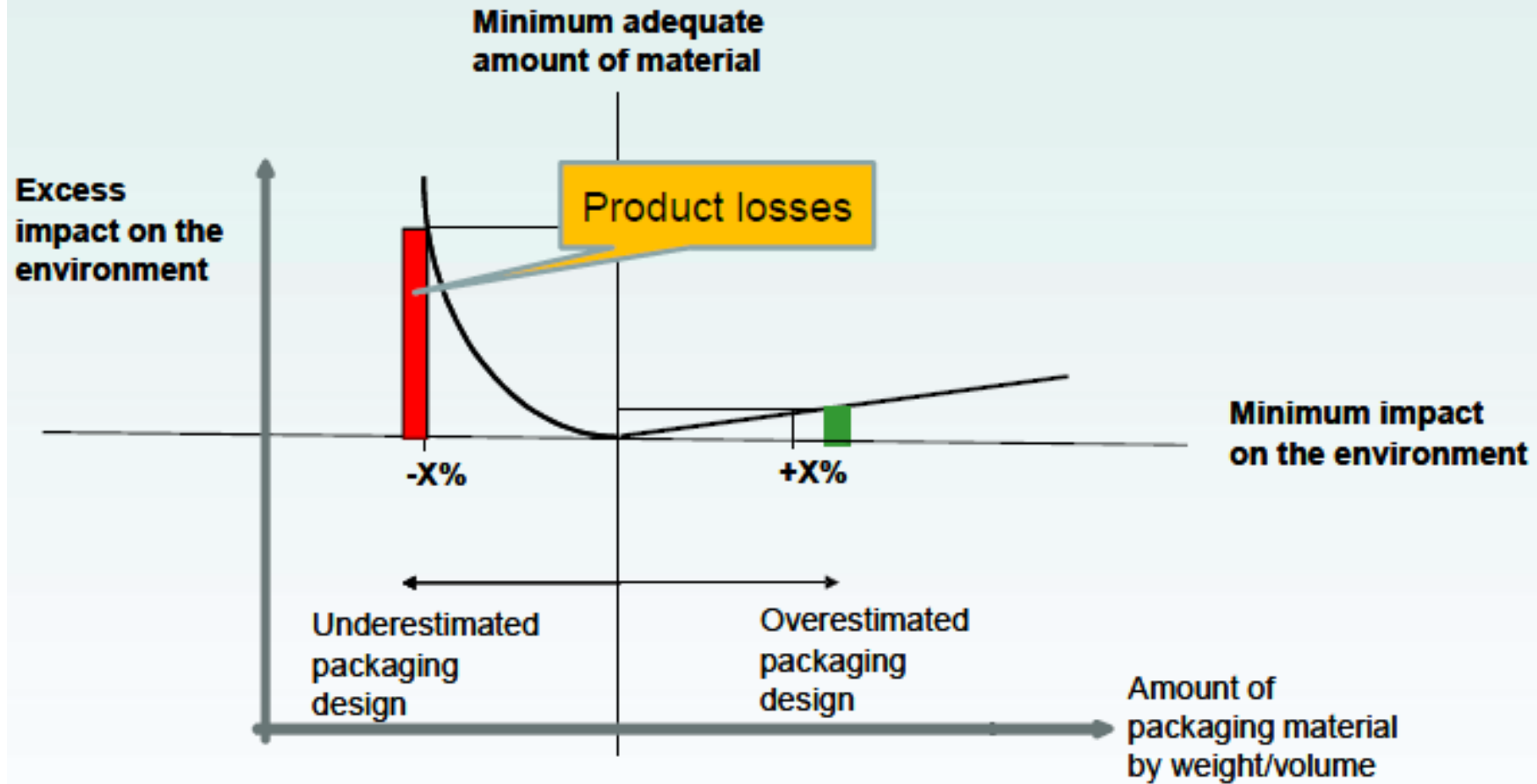
Source: PIRA International, 2009

Food packaging solutions in developing countries

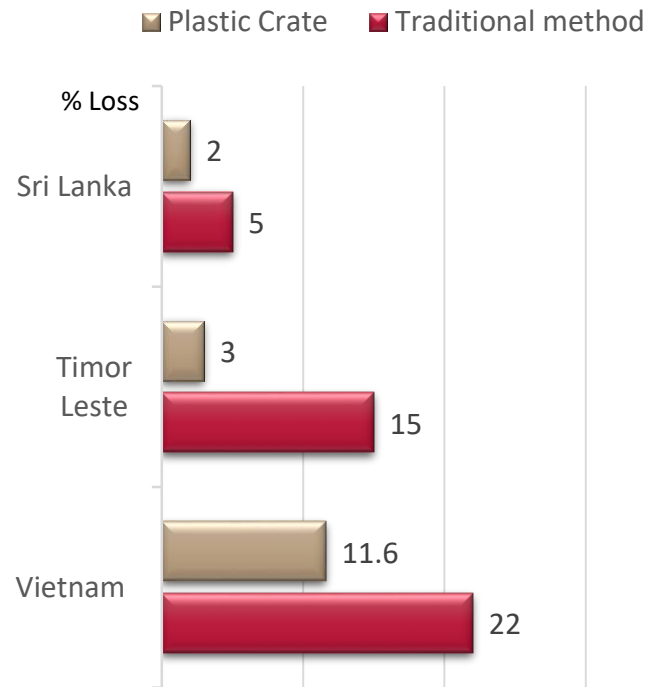
Packaging investment opportunities in developing countries



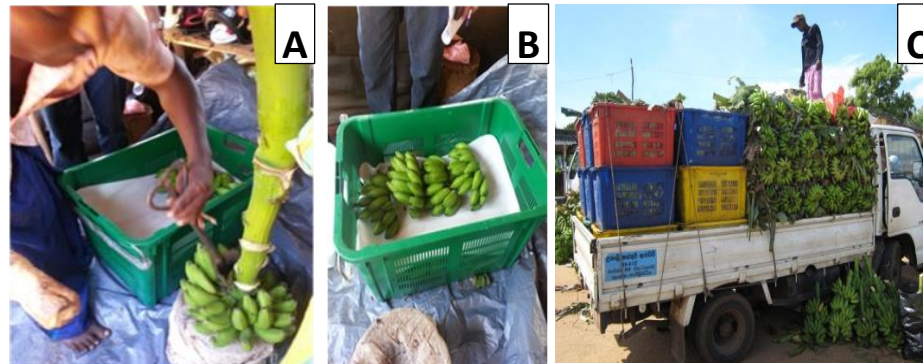
Product design: optimal packaging



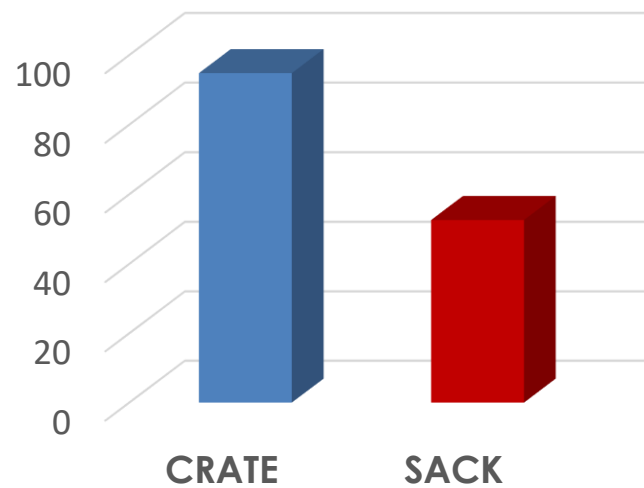
Bulk Packaging – A Solution to Transport Losses in Bananas



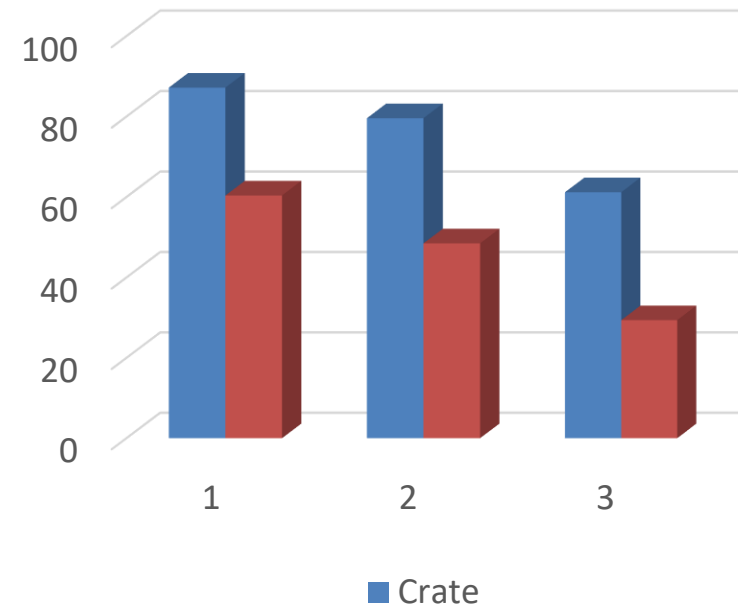
Vs



Recovery of sound
tomato fruit (%) at the
wholesale level



Proportion of fruits fetching a
higher marketable price in **retail** over
time (days)



SAVE FOOD Initiative on Food Loss and Waste Reduction

May 2011 – Congress in Düsseldorf at Interpack2011

FAO & Messe Düsseldorf
Established SAVE FOOD –
The Global Initiative on Food Loss and Waste
Reduction

SAVE FOOD Messe Düsseldorf activities:

- Small-scale mango processing in Kenya
- FL value chain studies in Andhra-Pradesh, India
- Conferences



Food and Agriculture
Organization of the
United Nations



SAVE FOOD Initiative on Food Loss and Waste Reduction



IMA Bologna - Manufacturer of automatic machines for the processing and packaging of food a.o.

FAO, ITC and IMA Project “Improving food packaging for Small and Medium Agro-Enterprises in Sub-Saharan Africa”

USD 500,000

Food packaging solutions in developing countries: Creativity, innovations and initiatives

Indigenous packaging of olive oil in Egypt



Positioning native potatoes in Peru



SOLUTIONS TO SAVE FOOD AND REDUCE PACKAGING IN THE FOOD INDUSTRY

ESH DEREVENSKOE

Farmers' marketplace uniting small and midrange farms across Russia. Deliver fresh, natural, seasonal food produced in Russia.



ifarm

Smart technologies for growing vegetables, berries and greens. Anywhere. Anytime.

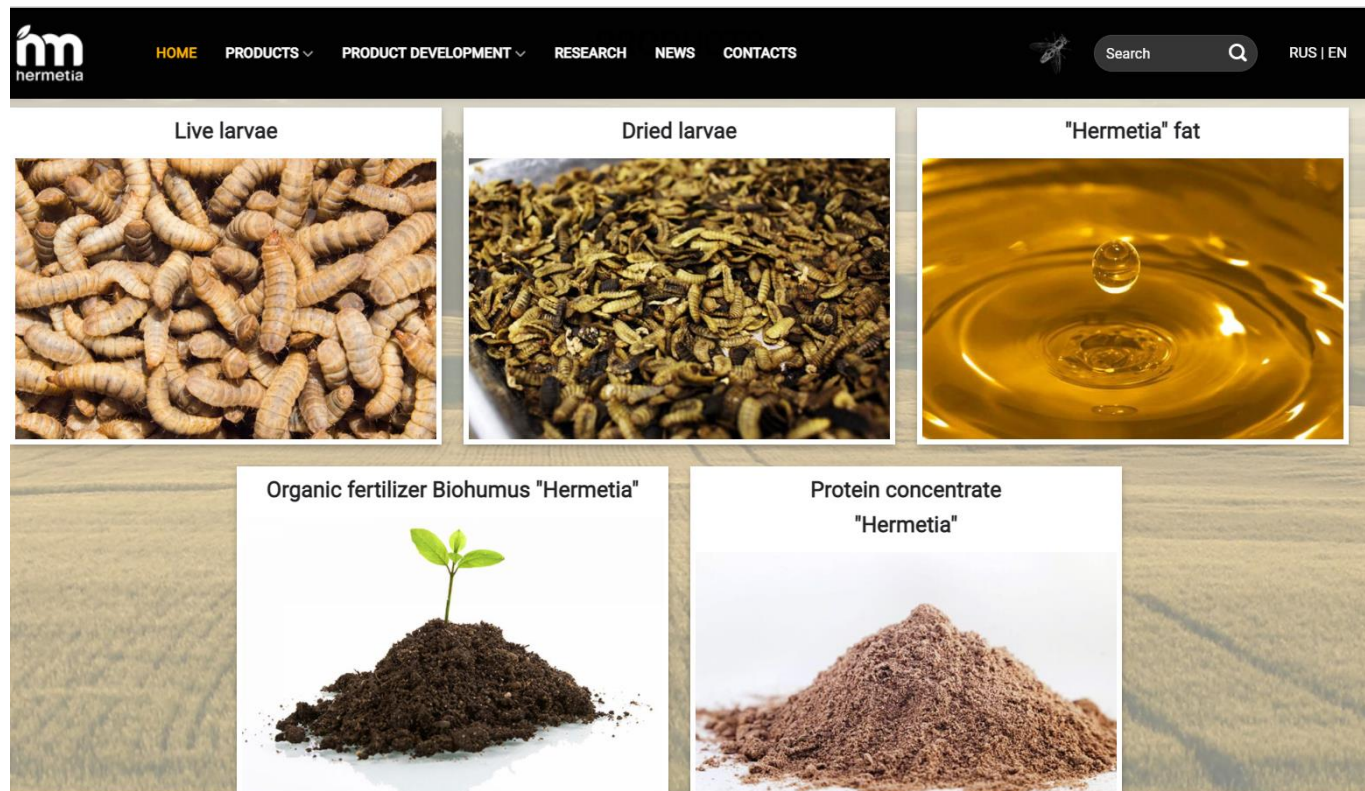
iFarm offers fully automated, sustainable, eco-friendly and economically viable turnkey solutions suitable for production sites of any size.



SOLUTIONS TO SAVE FOOD AND REDUCE PACKAGING IN THE FOOD INDUSTRY

Entroprotek & Hermetia

Both company use technology based on the ability of the larvae of the insect Black Soldier Fly (*Hermetia illucens*) to process plant organic (food) waste. This makes it possible to use food products as efficiently as possible, returning the necessary feed protein obtained from the biomass of larvae to the food chain of farm animals and birds & developing new products based on the larvae.

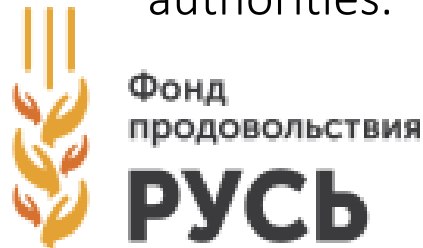


SOLUTIONS TO SAVE FOOD AND REDUCE PACKAGING IN THE FOOD INDUSTRY

Russia's Foodbank

Distributes food to socially insecure people in all regions of the Russian Federation. Distributes 5 million kg of food yearly. Largest Russian food manufacturers are involved and transfer their goods to Foodbank Rus from factories and warehouses all over Russia under donation agreements on a continuous basis.

Cooperates with the Russian Orthodox Church, charity organizations and governmental authorities.



X5 Retail Group

X5 provides “support to local communities through the expansion of social investments and charity programmes, promoted responsible consumption and use of resources”, popularizing the idea of “a healthy lifestyle, the availability of high-quality and healthy products.” Within the framework of the Basket of Kindness project, launched together **with Foodbank Rus** in 2015, 66,500 customers became benefactors in 2020.



Thank you.

Become a member:
<https://dgroups.org/fao/savefood/>