WORKING TOGETHER TOWARDS CIRCULAR ECONOMY: RECOVERY AND REDISTRIBUTIONS OF SURPLUS FOOD FOR SOCIAL PURPOSES

6th International Conference on Sustainable Solid Waste Management
Naxos Island, 13 June 2018
SURPLUS FOOD

Edible food products that for various reasons are not purchased or consumed by consumers or people for whom they were produced, processed, distributed, served or purchased.

Vs.

FOOD WASTE

Surplus food that is not recovered for human consumption (social optics), for animal feed (zootechnical optics), for the production of goods or energy (environmental perspective).

*P. Garrone, M. Melacini, A. Perego, Politecnico di Milano - Milan 2013

“FEED THE HUNGRY. The potential of surplus food recovery”*
1- FOOD AND DRINK MATERIAL HIERARCHY

Food and drink material hierarchy

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**Prevention**
- Waste of raw materials, ingredients and product arising is reduced – measured in overall reduction in waste.
- Redistribution to people.
- Sent to animal feed

**Recycling**
- Waste sent to anaerobic digestion; or
- Waste composted

**Recovery**
- Incineration of waste with energy recovery.

**Disposal**
- Waste incinerated without energy recovery.
- Waste sent to landfill.
- Waste ingredient/product going to sewer.

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Most preferable option
2- SURPLUS FOOD MANAGEMENT PROCESS DEPENDS ON:

- The method for measuring surplus food
- The degree of formalization of the process
- The level of coordination between the functions
- Logic of setting up the conferment process
3- LEGISLATION AND REGULATIONS

LAW No 166/2016 (Gadda Law)
Italian Parliament - Maria Chiara Gadda
19 August 2016
Provisions concerning the donation and distribution of food and pharmaceutical products for purposes of social solidarity and to limit waste

RESOLUTION OF THE PARLIAMENT
MEP Bilijana Borzan
16 May 2017
Resource efficiency: reducing food waste, improving food safety

COMMISSION NOTICE
25 October 2017
EU guidelines on food donation
“[…] the value of products, materials and resources is maintained in the economy for as long as possible, and the generation of waste is minimised […]”

Communication from the Commission
Closing the loop – An EU action plan for the Circular Economy
2 December 2015

Surplus food → Facilitate food donation

+ Life of food
- Food waste
THE IMPACT OF FOOD BANKS

1382 Food Banks

61 million most deprived people

233 million tons of food
(5.140 billion pounds of food)

4 Networks
106 Countries
CONTRIBUTION OF FOOD BANKS TO SUSTAINABLE DEVELOPMENT GOALS

+ recovery — H2O
  — CO2

+ recovery — DEPRIVED PEOPLE

+ recovery — HUNGRY

+ recovery + RESPONSIBLE CONSUMPTION

+ recovery + PARTNERSHIP

+ recovery + SUSTAINABLE CITIES AND COMMUNITIES
Video
THE LAST FRONTIER

Recovery of surplus food from cruises
THE LAST FRONTIER

Recovery of confiscated fish and fish discarded in the sea
Thanks!

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Main references
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European Parliament, Resolution on resource efficiency: reducing food waste, improving food safety, 16/05/2017
European Commission, EU guidelines on food donation, 16/10/2018
P. Garrone, M. Melacini, A. Perego, Feed the hungry. The potential of surplus food recovery, Fondazione per la Sussidiarietà, 2013
P. Garrone, M. Melacini, A. Perego, Surplus food management against food waste, Fondazione Banco Alimentare ONLUS, 2015