SOLUTIONS TO WASTING LESS FOOD DURING TOKYO2020

2R IN THE OLYMPIC GAMES - TO REDUCE THE FOOD LOSS AND TO BUILD THE FRAMEWORK OF THE RECYCLE LOOP

3 AUGUST 2016

Dr Mervyn Jones Sustainable Global Resources

FOOD WASTE

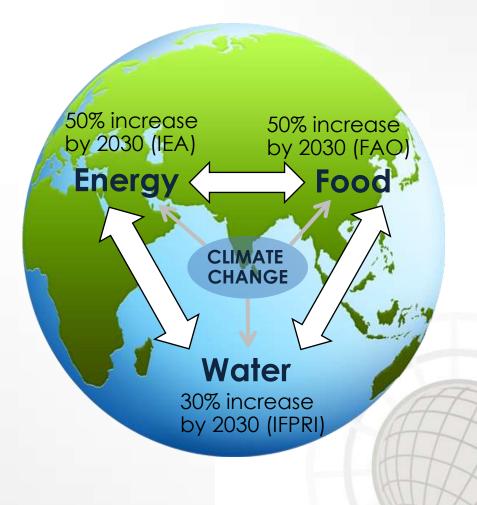
- FOOD THAT IS OF GOOD QUALITY AND FIT FOR HUMAN CONSUMPTION BUT THAT DOES NOT GET CONSUMED BECAUSE IT IS DISCARDED BEFORE OR AFTER IT SPOILS
- IT CAN BE UNINTENDED OR AS THE RESULT OF DELIBERATE OR A CONSCIOUS DECISION TO THROW FOOD AWAY.





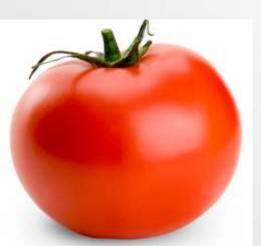
THE CHALLENGE FOR FOOD

- One third of food waste is wasted
- 1.3 billion tonnes (UN FAO)
- 1 in 4 calories wasted globally (WRI/UNEP)



1.3 BILLION TONNES

OF ALL FOOD PRODUCED GLOBALLY IS WASTED





3.3 BILION TONNES ESTIMATED ANNUAL CARBON FOOTPRINT OF FOOD WASTAGE GLOBALLY



650,000

OLYMPIC SWIMMING POOLS

5

IMPACTS

Social

e.g. sustainable lifestyles

Environmental
CO₂, water, soil loss

Economic

savings, resilience







FOOD WASTE IN THE SUPPLY CHAIN



TYPES OF FOOD COMMONLY WASTED IN THE SUPPLY CHAIN



50%



45%



40%



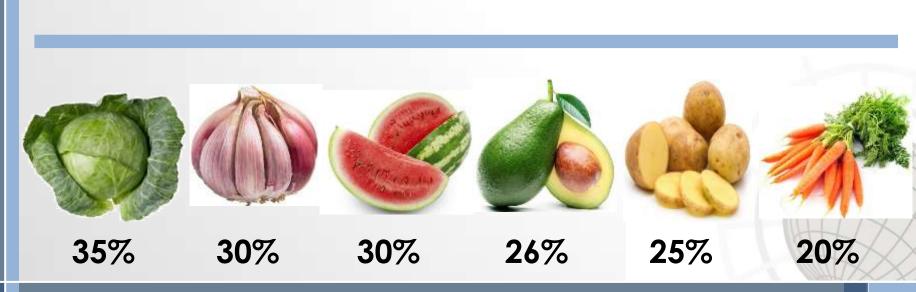
40%



40%



40%



TYPES OF FOOD WASTE





AVOIDABLE FOOD WASTE

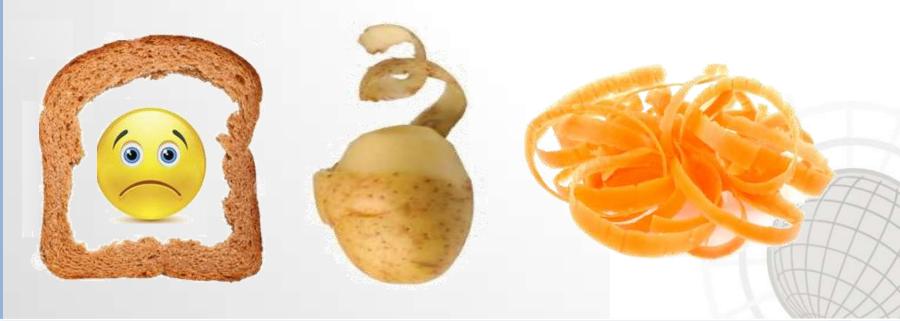
FOOD THAT WAS AT SOME POINT EDIBLE, PRIOR DISPOSAL





POTENTIALLY AVOIDABLE FOOD WASTE

FOOD THAT SOME PEOPLE EAT AND OTHERS DON'T OR THAT CAN BE EATEN WHEN A FOOD IS PREPARED IN ONE WAY BUT NOT IN ANOTHER



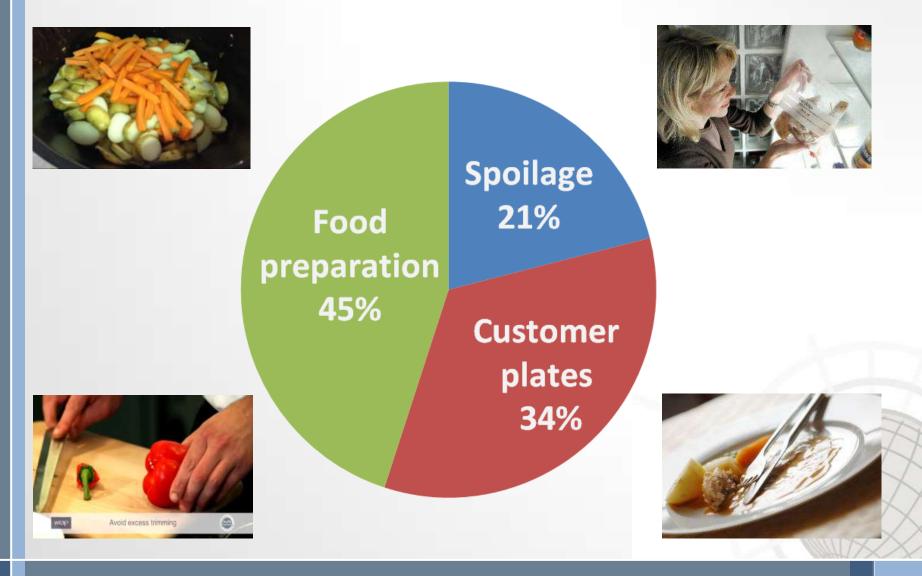
UNAVOIDABLE FOOD WASTE



WASTE ARISING FROM FOOD PREPARATION THAT IS NOT, AND HAS NOT BEEN, EDIBLE UNDER NORMAL CIRCUMSTANCES



CATERING FOOD WASTE SOURCES



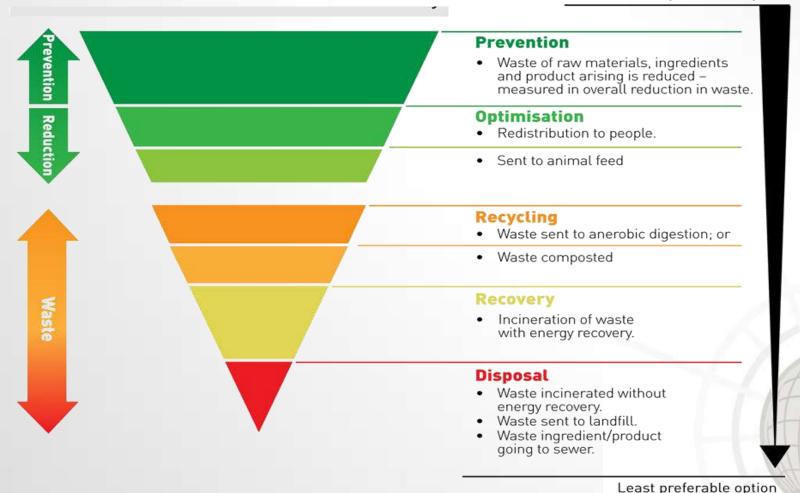
FOOD WASTE MEASURES





FOOD & DRINK MATERIAL HIERARCHY

most preferable option



COST OF FOOD WASTE



Cost of food waste 10% of it is avoidable waste







PORTION SIZE

Zhaoxu Zhang (Basketball, China) **2.21 m, 110 kg**



1.75m

1 50

1.25

Asuka Teramoto (Gymnastic, Japan) 1.41 m, 30 kg

PORTION SIZE

"The menu must be **designed creatively to optimize the portion size** of the meals to **avoid food wastage** – Rio 2016"



PRIMARY PACKAGING – FRONT OF HOUSE



low flexibility

COMPOSTABLE PACKAGING



PRODUCT LIFE



BOH - IMPROVING SEGREGATION



BOH - SIGNAGE



What can I put in the food waste bin?











packaging

of any sort



plastic

bags









www.wrap.org.uk/recyclingfood

get signage right - be prepared to change

EFFECTIVE COMMUNICATIONS

Targeting: Business supply chain Retail interface consumers

Two elements:

- National awareness raising
- Give clear instructions on how to recycle locally

key is to link increase in awareness to increases in people recycling



BEHAVIOUR CHANGE

- Food waste prevention Love Food Hate Waste
- WRAP developed Recycle Now `what to recycle and where'
- Communication materials for local authorities and partners (e.g. London 2012)
- On pack' labels for packaging in partnership with retailers and brands



FOOD REDISTRIBUTION

Future opportunities









INFRASTRUCTURE

Ensure quality and capacity by:

- Addressing technical barriers
- Determining capacity requirements
- Providing financial support to leverage private sector investment
- Obtaining clarity on end market requirements for outputs (e.g. quality requirements)





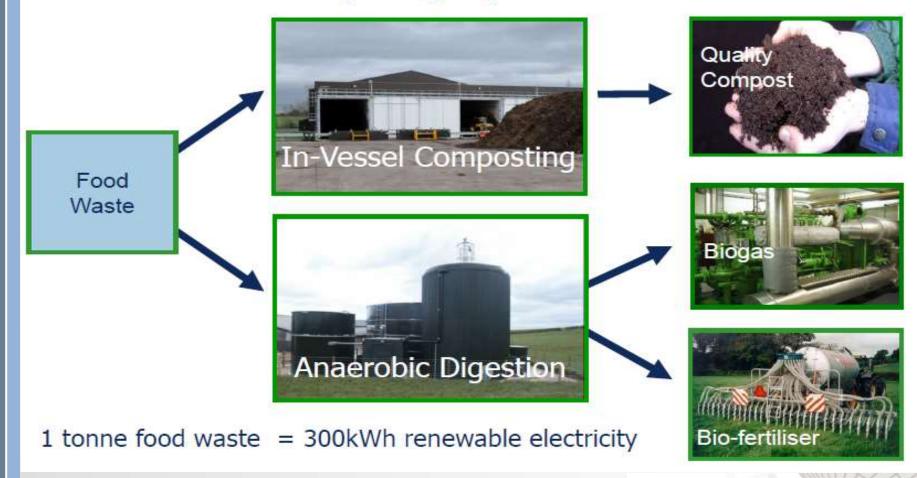


MARKET DEVELOPMENT

- Encouraging demand for recycled materials and products in new & existing markets
 - retail e.g. packaging
 - agriculture e.g. food waste
- Addressing barriers to market entry
 - Quality protocols
- Encouraging new business and retail models
- Public sector procurement, e.g. leadership

MARKET DEVELOPMENT EXAMPLE

Food Waste Recycling Options



MICRO SYSTEMS



THANK YOU



Dr Mervyn Jones

Sustainable Global Resources, UK

mervyn@sustainableglobalresources.co.uk