# Food wastage footprint Impacts on natural resources **Presentation of the Footprint** Clementine O'Connor, BIO Intelligence Service **FUSIONS** European Platform Meeting October 17th, 2013



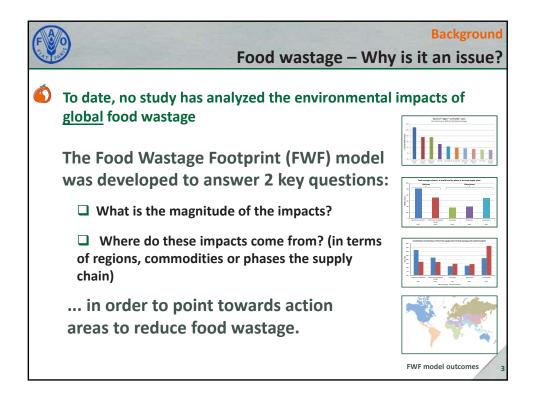
**Background** 

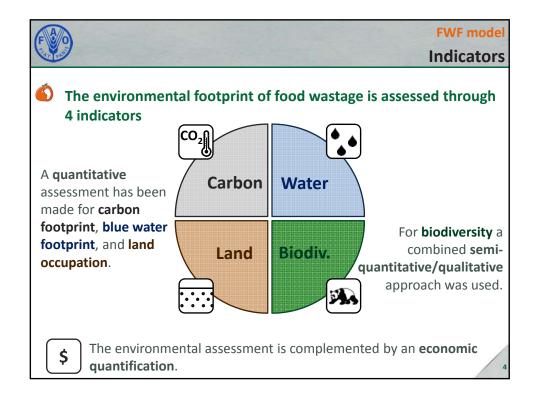
# Food wastage - Why is it an issue?

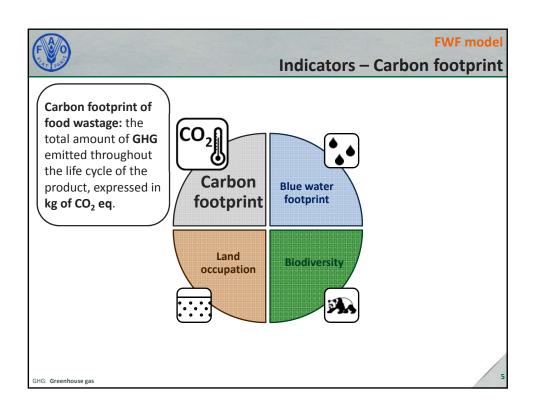
Each year, about ⅓ of all food produced for human consumption in the world is lost or wasted

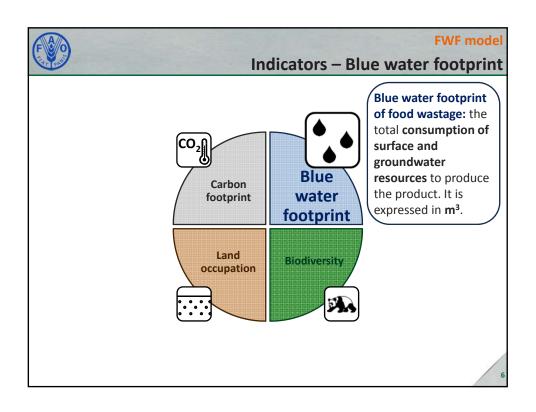
### Food wastage represents a missed opportunity:

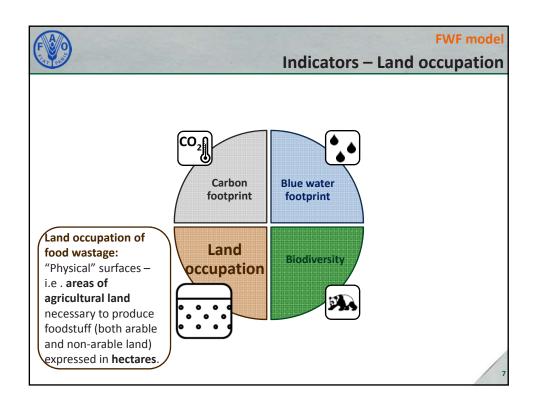
- ☐ To improve global food security : by 2050, food production will need to be 60 % higher than in 2005/2007;
- ☐ To mitigate environmental impacts generated by agriculture: food supply chains have important environmental externalities.

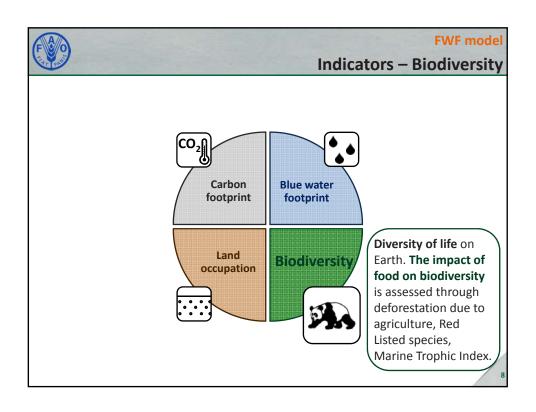


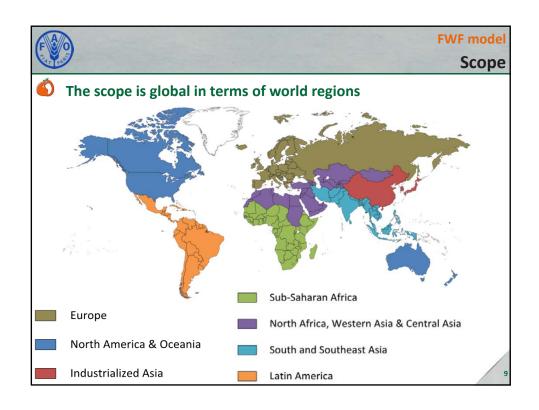


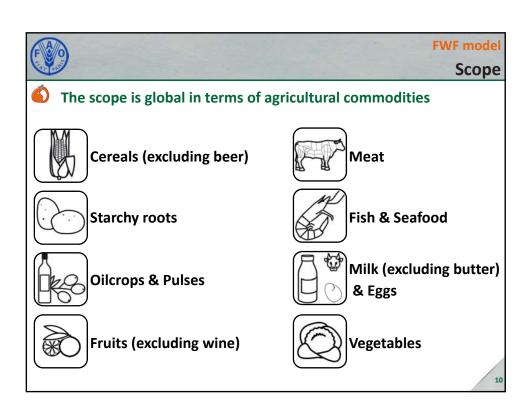


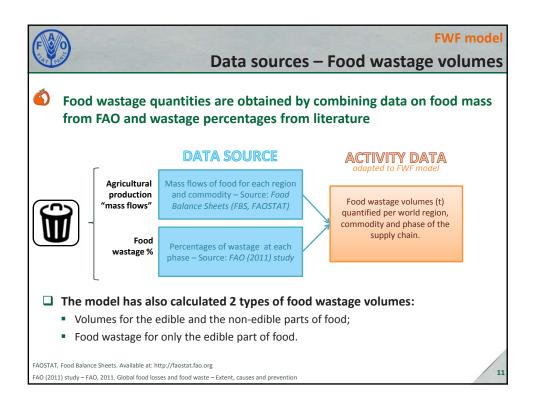


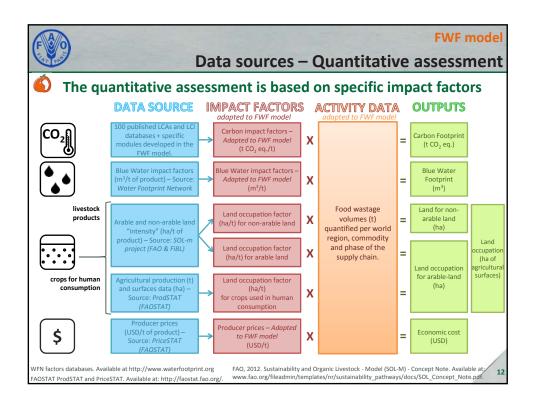


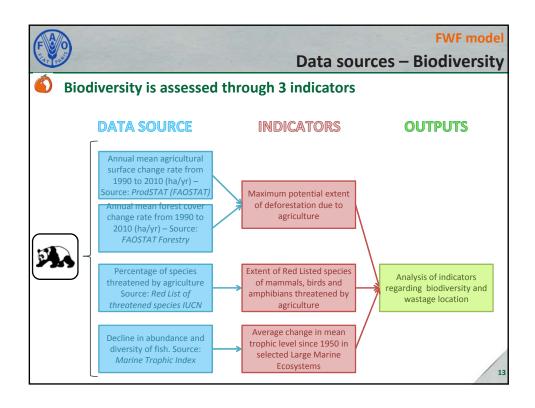


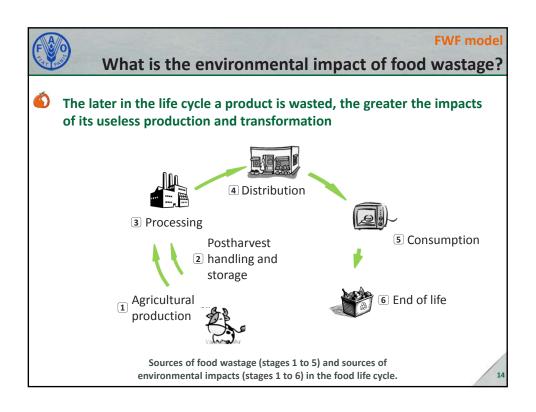


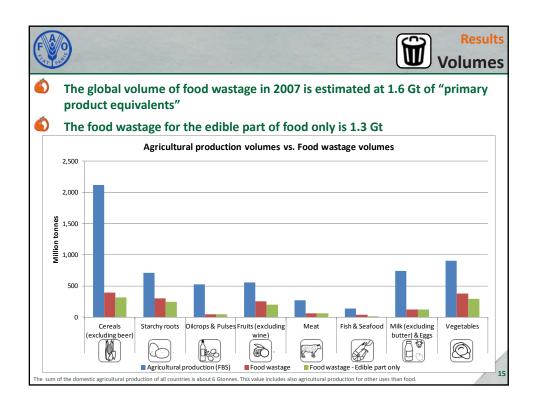


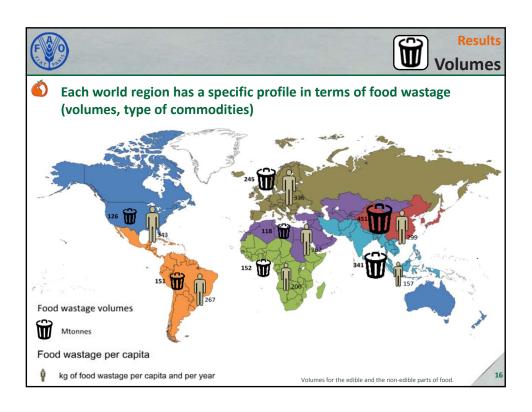


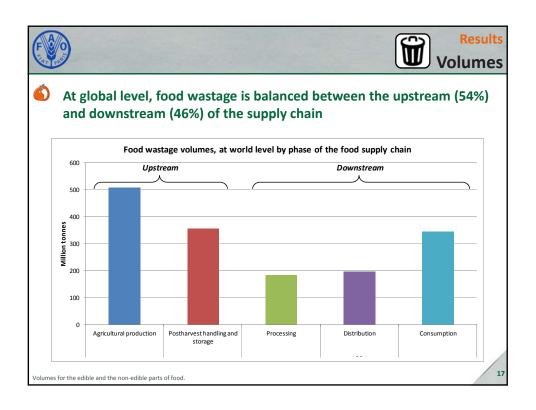


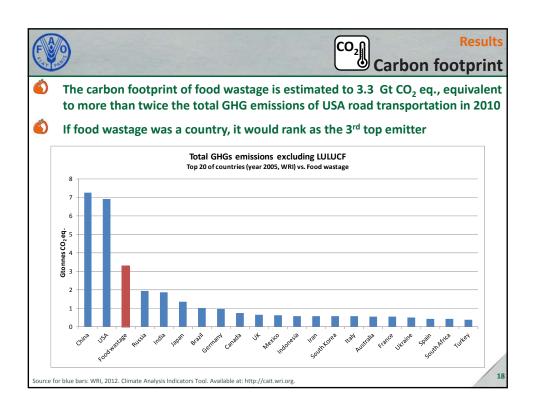


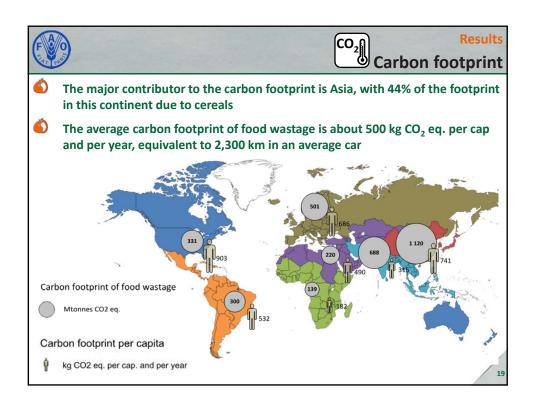


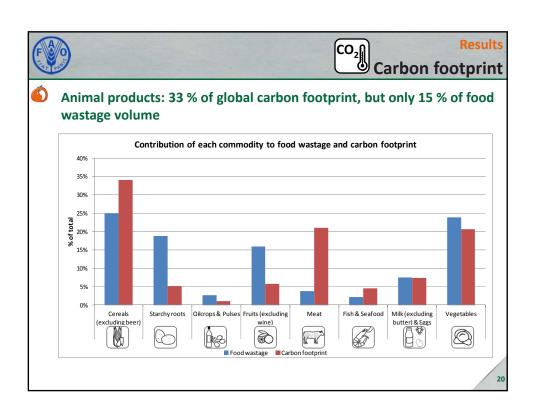


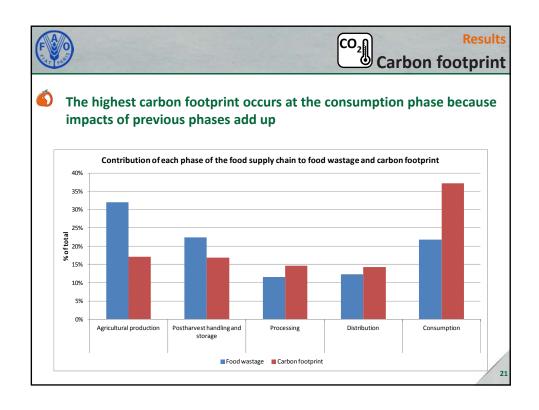


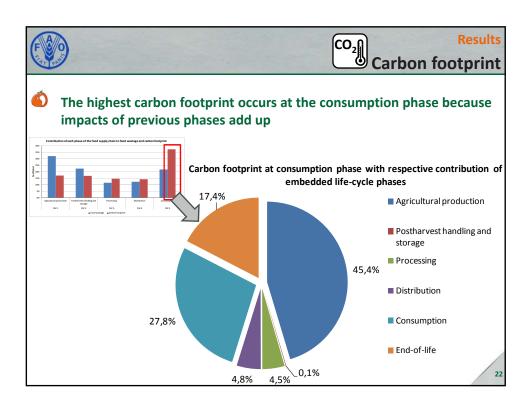


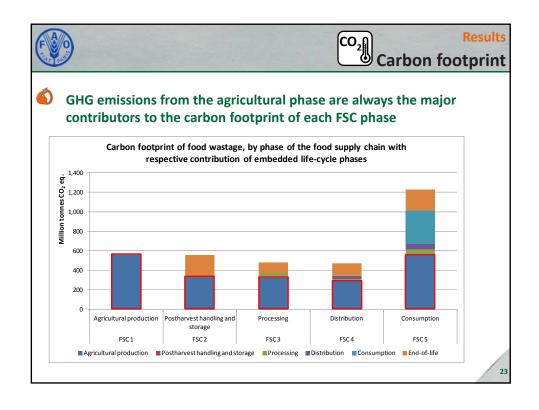


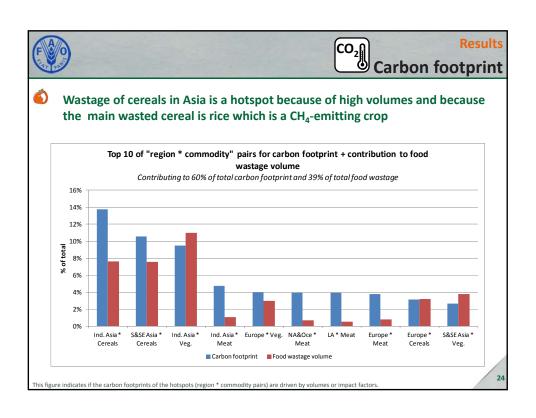


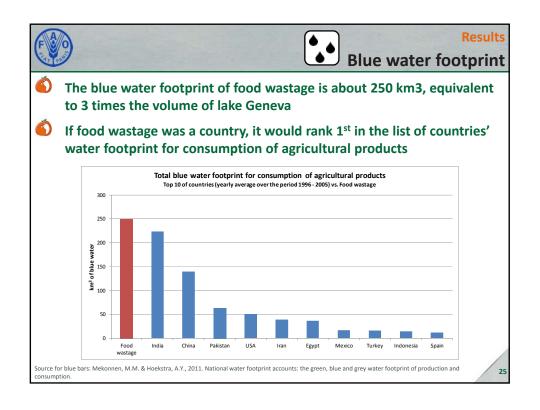


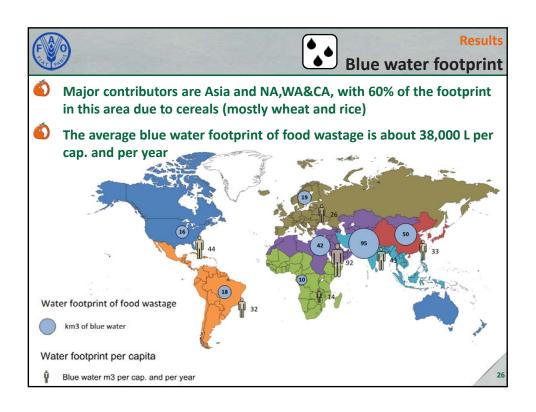


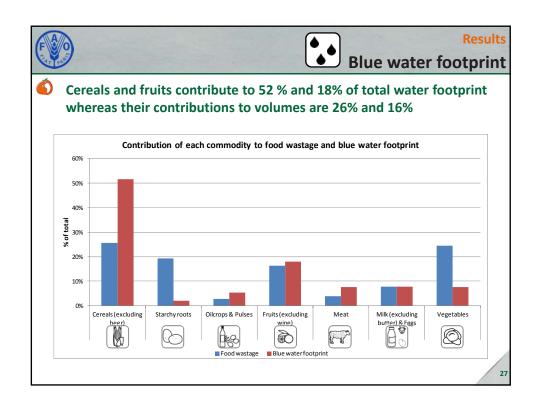


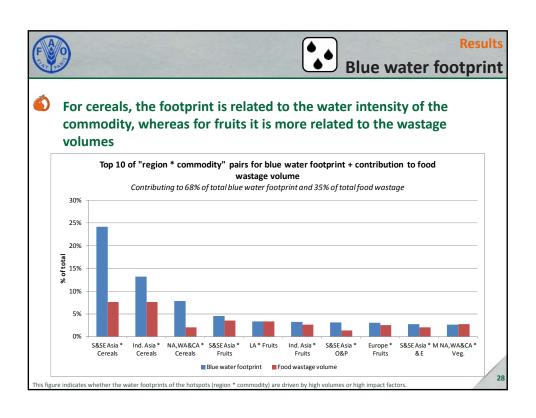


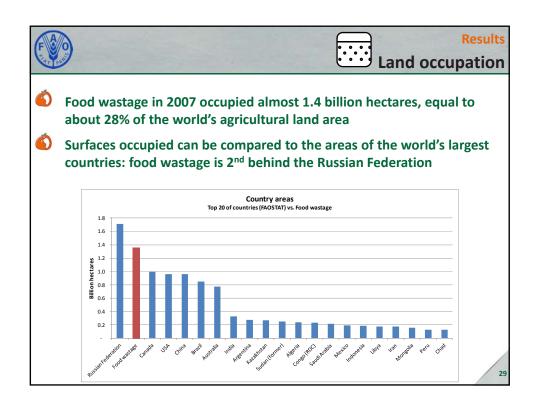


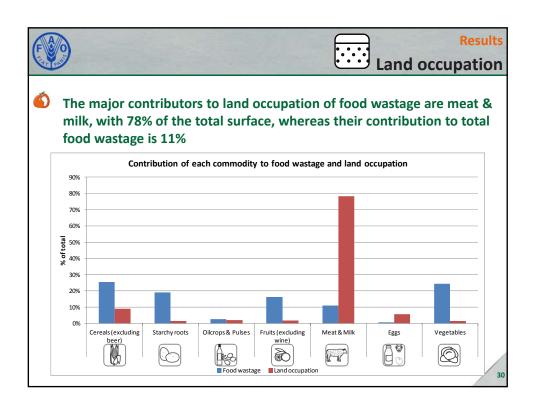


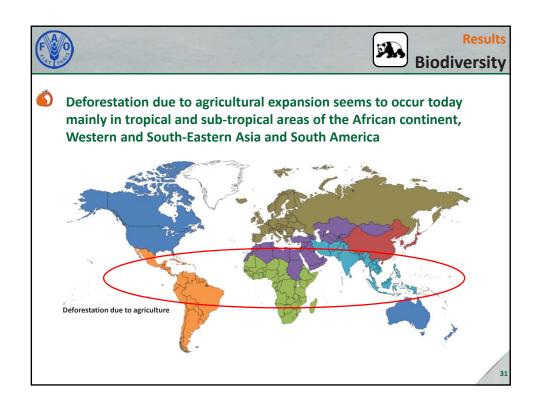


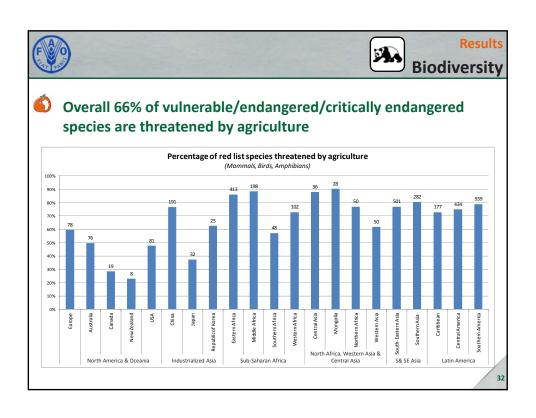


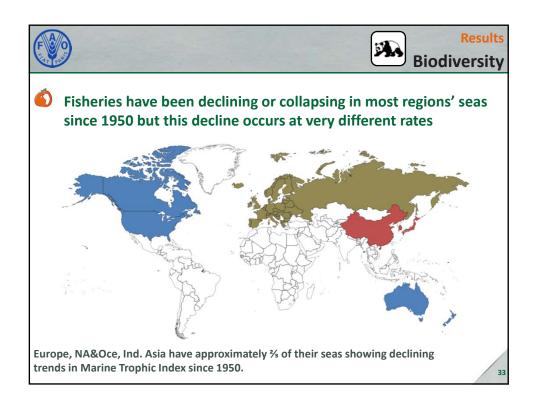


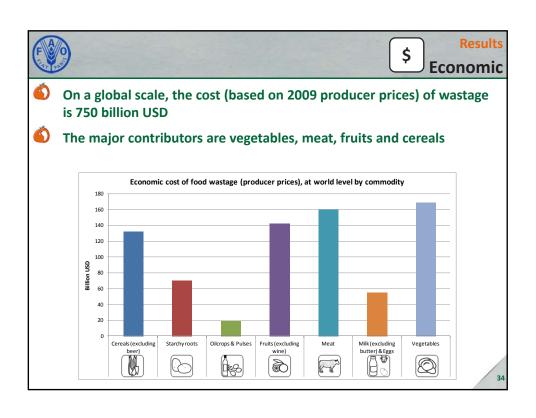


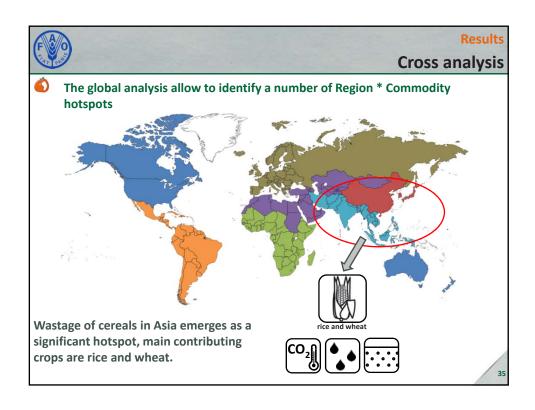


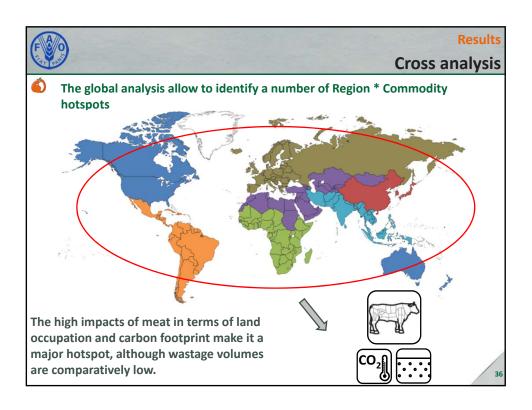


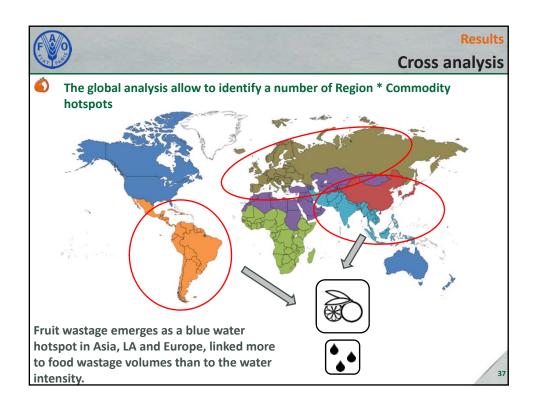


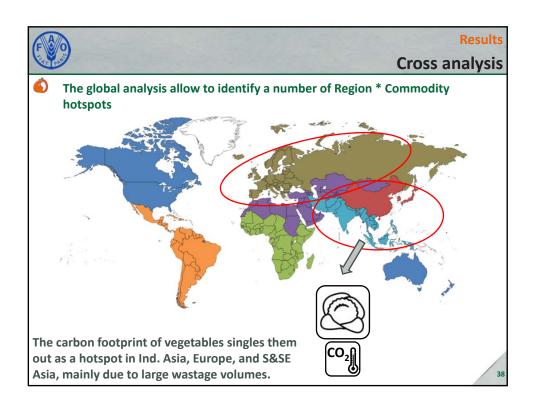


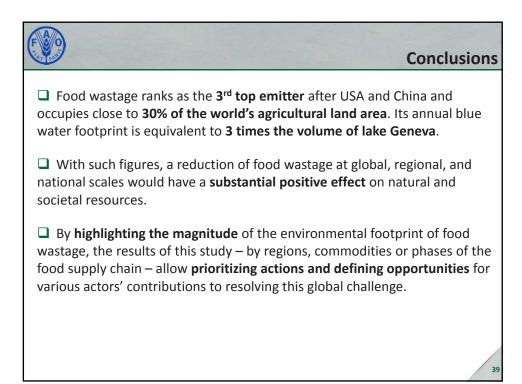














#### **FWF** model

## Potential improvement areas



# There are several potential improvement areas for future research

- ☐ Quantification of food wastage : Definition of food waste / Food wastage percentages
  - Need for a harmonization, which would enable more comparability of national data and between studies quantifying food waste arisings.
- Quantification of environmental impacts
  - In further research, priority should be given to the integration of land use change in the carbon footprint accounting.
  - Certain aspects could not be taken into account (e.g. land occupation and water footprint relating to non-agricultural phases; water footprint and land occupation for fish & seafood ).

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#### **About this study**

- The FWF is a project of the Natural Resources Management and Environment Department initiated in April 2012 and managed by Ms Nadia El-Hage Scialabba.
- Phase I of the project (impacts of food wastage on climate, water, land and biodiversity) has been commissioned to BIO Intelligence Service.
- Phase II of the FWF project addresses the accounting of environmental and social externalities of food wastage, including a comparison with food wastage reduction investment costs and footprint scenarios for 2050.
- This FWF project is undertaken with the generous financial support of Germany.



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