

# 2012 ILSI Annual Meeting



## Solutions for achieving sustainable water reuse An Interactive Session!

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# Environment & Health Task Force activities

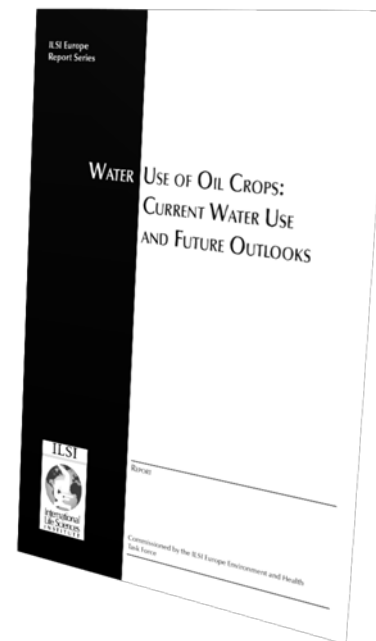


## Past activity

### ▶ 2008-2011

- ▶ Water Use for Oil Crops: Current Water Use and Future Outlooks

*ILSI Europe Report Series*



## Past activity



## Conclusions (I)

- ▶ Best practices – not just choosing lowest water use but need to consider best practice, particularly for irrigation.
- ▶ Big differences in water use mostly due to local climate. Warm and dry climates use more blue water (irrigation).
- ▶ Need to improve the concept of water footprint to take into account where water is used and how much is available. Need to compare water use to the local scarcity situation.

# Environment & Health Task Force

## Conclusions (II)

- ▶ Sunflower – water scarcity already becoming a problem, particularly in the Mediterranean – better irrigation techniques required along with new sources of water
- ▶ Rapeseed – unlikely to be an issue – all rainfed
- ▶ Soybean – improving farming methods in areas such as Brazil and Argentina where high rainfall could significantly improve efficiency and yield
- ▶ Groundnut – not a water issue above basic requirements. Better management, not irrigation, would improve yields
- ▶ Oil Palm – the issue is drainage of tropical wetlands

## Current activity (2011-2013)

- **Title:** Framework for establishing and mitigating the impact of crop production on water quality and water use – Using sugar as an example
- **Rationale:** The impact of water use on water availability and water quality is being examined from production through processing to the final product
- **Output:** Tool to aid in the process of evaluation of water re-use schemes and identification of water re-use opportunities



## Current activity (II)

### Objectives

- Map where water is used in the production of sugar from cane and beet
- Identify ways in which the production of sugar (growing & processing) impacts on the water environment
- Summarize existing tools and methodologies frameworks and identify how they can be used in a practical way
- Develop a framework and tool for integration and practical implementation of existing approaches

# Environment & Health Task Force

Dr. Tim Hess <i>Chair</i>	Cranfield University	UK
Dr. John Fawell	Consultant	UK
Dr. Helen Franceschini	Unilever	UK
Dr. Eric Ober Broom's	Rothamsted Research	UK
Dr. Maite Aldaya	UNEP	FR
Prof. Dragan Savić	University of Exeter	UK
Dr. Ruediger Schaub	Bayer CropScience	DE
Dr. Alessandro Chiodini	ILSI Europe	BE