



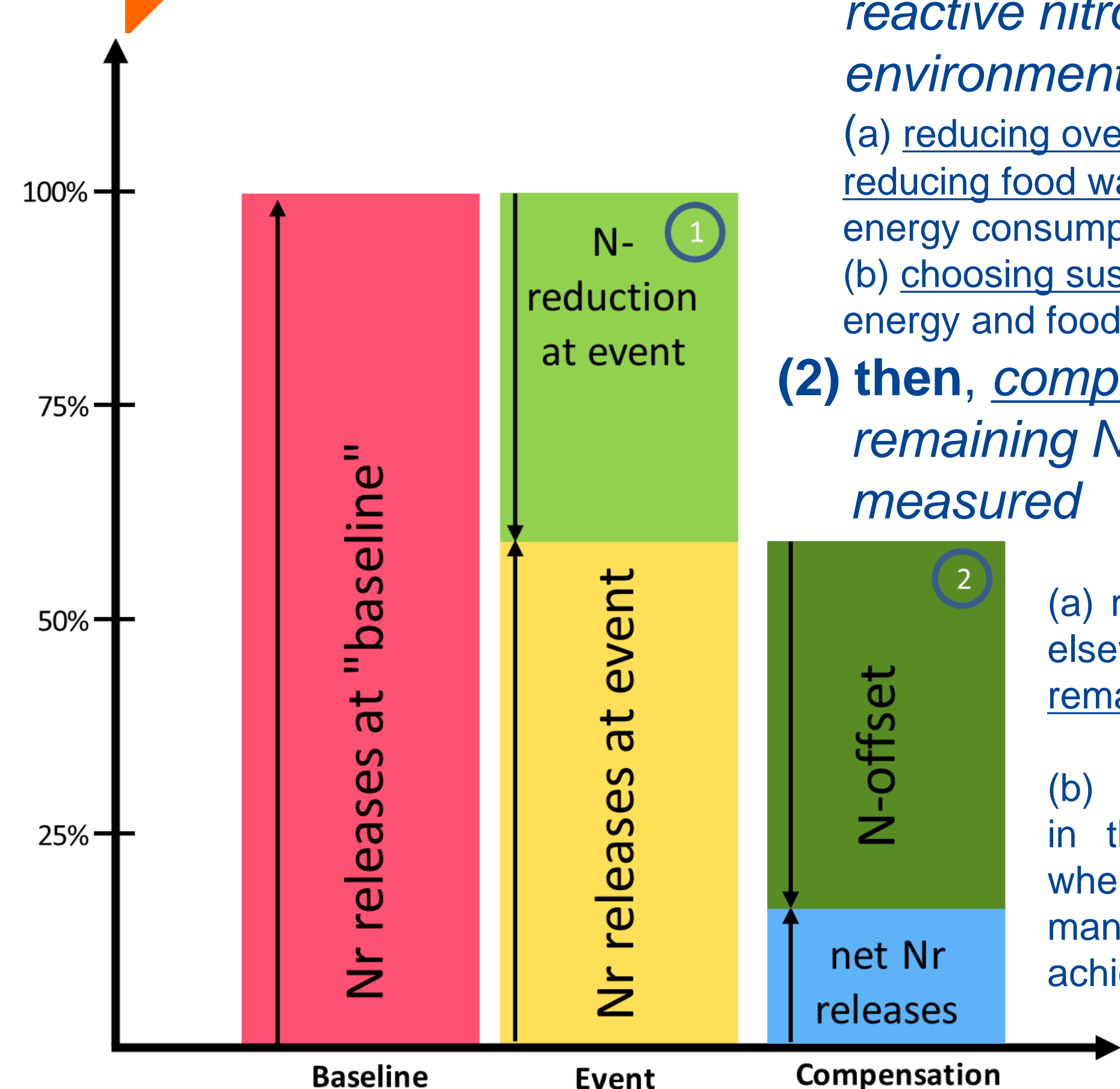
European  
Commission

# Do environmental scientists behave more environmentally friendly with regard to nitrogen pollution?

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## To achieve N-neutrality...



(1) first decrease the release of reactive nitrogen (Nr) into the environment by

(a) reducing over-consumption of food, reducing food waste and minimizing energy consumption, as well as  
(b) choosing sustainable sources of energy and food,

(2) then, compensate the remaining Nr releases by a measured

(a) reduction of Nr releases elsewhere to balance the remaining releases, and an

(b) increased sustainability in the production of food where sustain-able land management is not yet achieved.

## Implementation of the N-neutrality concept

Aspect	N2013	18NW	RAMIRAN	EPNF-2016
Conference Location	Kampala, Uganda	Lisbon, Portugal	Hamburg, Germany	Milan, Italy
Compensation project	UN-Millennium Village, Ruhira, Uganda	ReFood Village, Lisbon	Urban gardening, Indonesia	Small-scale bio-gas plants, India
Compensation fee requested	US\$50	20 Euro	30 Euro	7 Euro
Share of people participating	38%	13%	9%	95%
Participants	160	207	231	23

## Compensating Nr emissions can be very different



**RAMIRAN:** Supporting a **sustainable food project** in Indonesia demonstrating vertical gardening solutions for urban areas: saving land & sustainable use of nutrients.



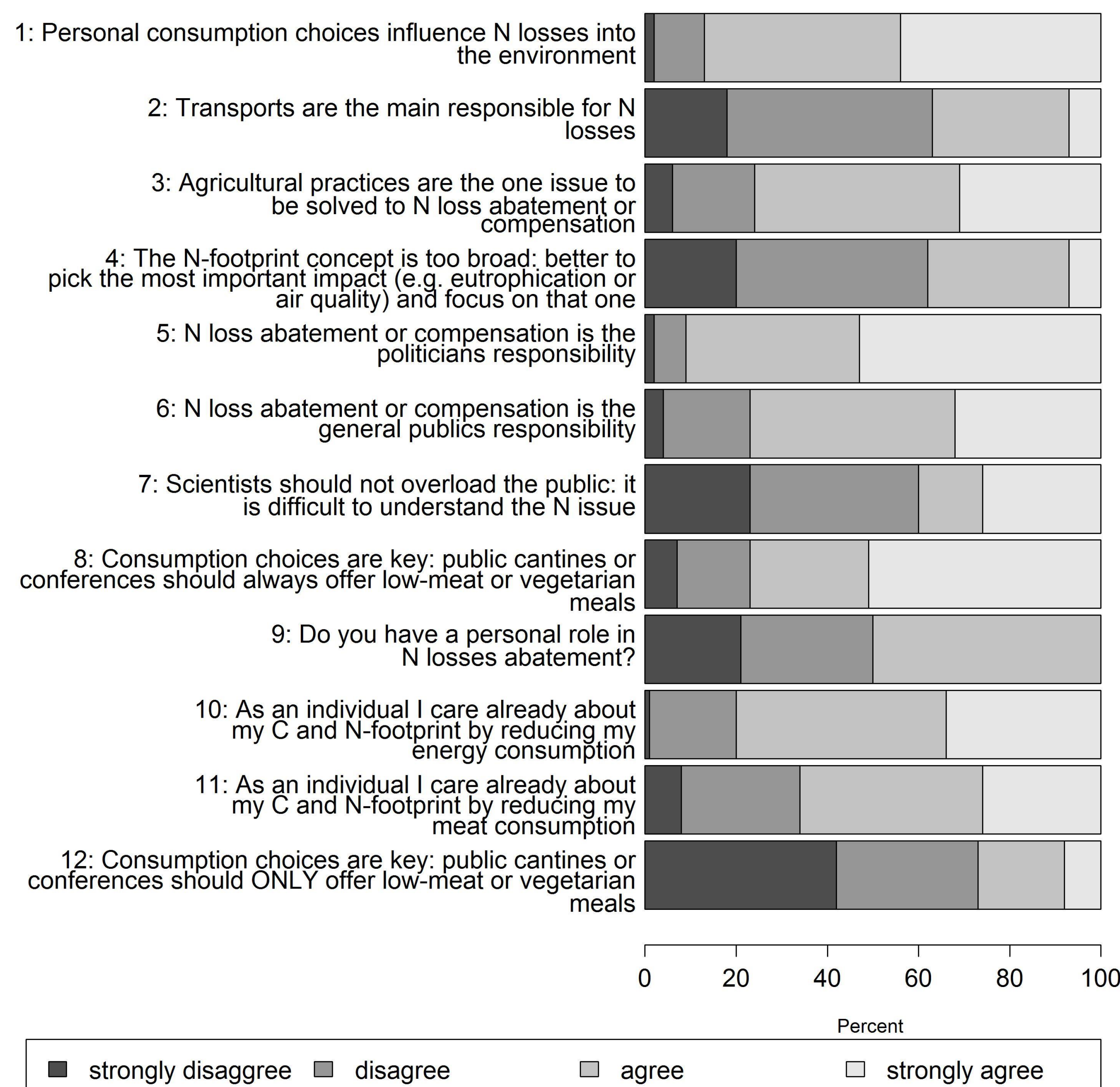
**CLRTAP-TFRN-Expert Panel on Nitrogen and Food:** biogas plants (gold standard)

- substitution of kerosene (CO2 offset)
- reducing manure management emissions (Nr offset)

**REFOOD**  
INTERNATIONAL

**18Nitrogen Workshop: Reducing Food Waste**

## Feedback from delegates: survey



## References:

Cordovil, C.M. d S., Leip, A., (2014). How can the scientific community convince society (and policy makers) to do something about nitrogen if they are not ready themselves to do something about it? Survey available at <https://docs.google.com/forms/d/1eW1AzcaMGBuXcEQpZ4zt56ZqiRgyBw8GVTvqNwXWMA>. Leip, A. et al., 2014. Nitrogen-neutrality: a step towards sustainability. Environ. Res. Lett. IOP Publishing. 9, 115001. doi:http://dx.doi.org/10.1088/1748-9326/9/11/115001. Leip, A. et al., 2014. The nitrogen footprint of food products in the European Union. J. Agric. Sci. 152, 20–33. doi:http://dx.doi.org/10.1017/S0021859613000786. Garcia Ramirez, C.E., Leip, A., Koerner, I., (2016). Calculating nitrogen footprints along the chain from agriculture till residue whereabouts on the example of food provided at a conference. In: 19 Nitrogen Workshop "Efficient Use of Different Sources of Nitrogen in Agriculture – from Theory to Practice", Skara, Sweden, 27-29 June 2016.

[www.jrc.ec.europa.eu](http://www.jrc.ec.europa.eu)

INI 2016: 7<sup>th</sup> International Nitrogen Initiative Conference: 'Solutions to improve nitrogen use efficiency for the world'  
4-8 December, 2016, Melbourne, Australia

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