



ifa
INTERNATIONAL
FERTILIZER ASSOCIATION

Reflections and Engagements of the Fertilizer Industry

Patrick Heffer, IFA



Towards Enhanced Performance in Fertilizer Production and Use

Aggressively Promoting Product Stewardship

- Endorsement of IFA's SHE Principles by IFA members
- Sharing knowledge on best available technologies
- Benchmarking on emissions
- IFA Green Leaf Award
- Protect & Sustain certification programme



Actively Supporting Nutrient Stewardship

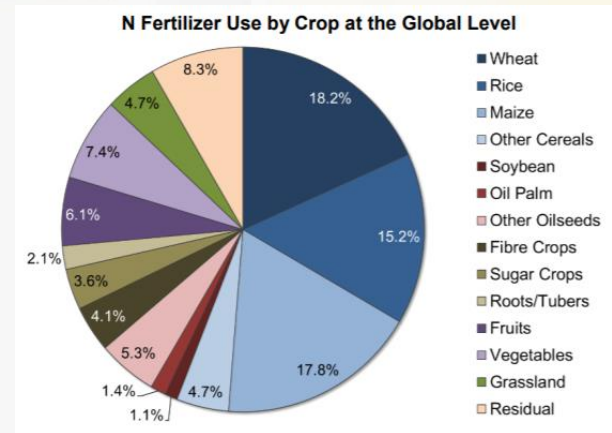
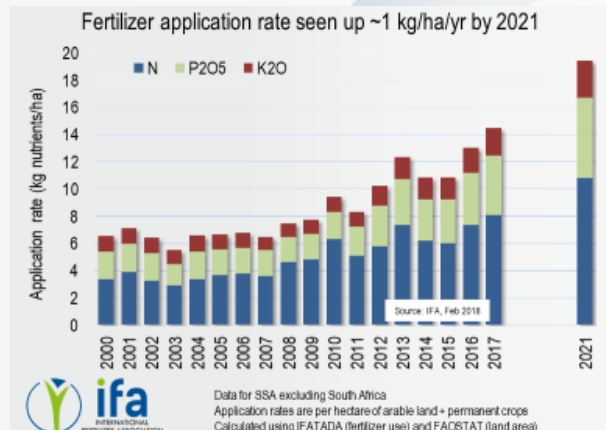
- Supporting the development of BMPs in the 4 areas of product, rate, time and place
- ... as part of IPNM and ISFM
- Reaching out to farmers, e.g. with WFO
- IFA Norman Borlaug Award (for research and knowledge transfer); IPNI Science and Scholar Awards
- Tracking performance
- Funding research: IPNI, 4R Research Fund, IRRC, etc.
- Partnership: GPNM, EUNEP, GACSA, CCAFS, GSP, etc.



Towards a Better Understanding of the Contribution of Fertilizers to the N Cycle

Contributing to Improved Data Coverage & Quality

- Fertilizer use by country
 - China (30% of world demand)
 - Sub-Saharan Africa (2% of world demand)
- Fertilizer use by product
 - Urea vs. nitrate-based
 - Urea vs. stabilized urea (with inhibitors)
- Fertilizer use by crop
 - Only source of data since 2002
 - Crops vs. grassland; Future developments: grain maize vs. silage maize; non-crop uses
 - Partnership with FAO



... to Help

- Building sound analysis by governmental, scientific and business entities
- Finetuning NUE tracking, in partnership with scientists
- Improving fertilizer demand forecasts/projections
- Targeting nutrient stewardship efforts

The way to go - 3 key principles:

- *Improving management practices (research and outreach)*
- *Monitoring performance trends*
- *Partnering with stakeholders*