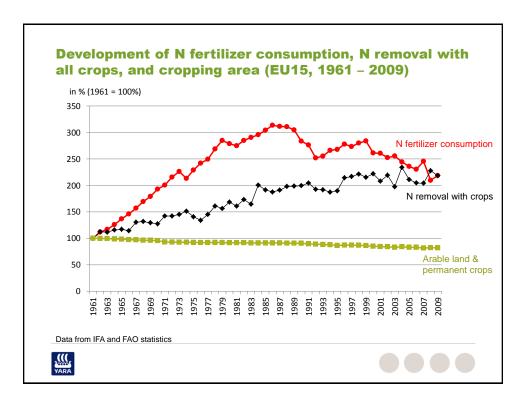


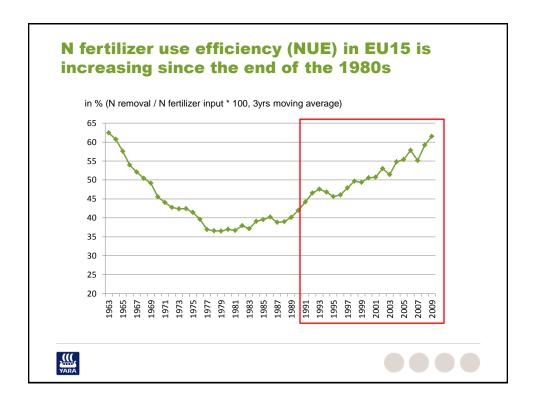
- Development of nitrogen consumption, crop yields and nitrogen use efficiency (NUE) in Europe
- How did Europe improve NUE ?
- Measures to further improve NUE in crop production
- Summary

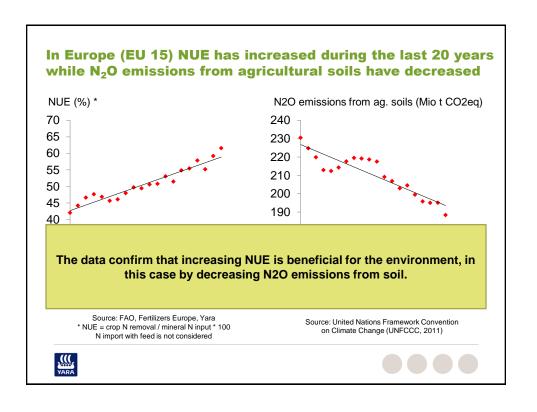


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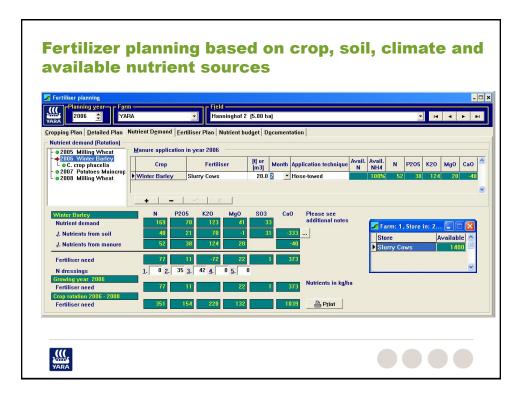




- 1. Fertilizer planning including organic fertilizer (enforced by legislation)
- 2. Use organic fertilizer in the most efficient way
- 3. Focus on a balanced nutrition of all nutrients
- 4. Use the most efficient mineral fertilizer sources
- 5. Adjust fertilizer rate in season to actual crop demand





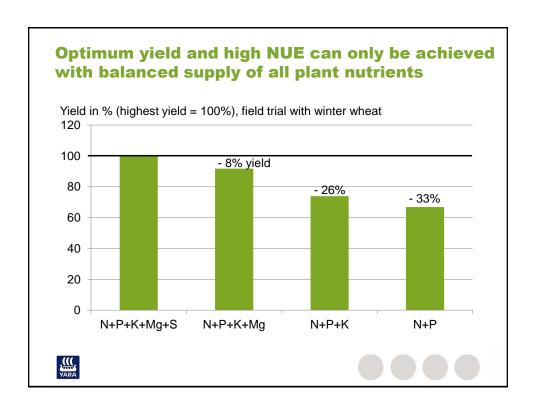


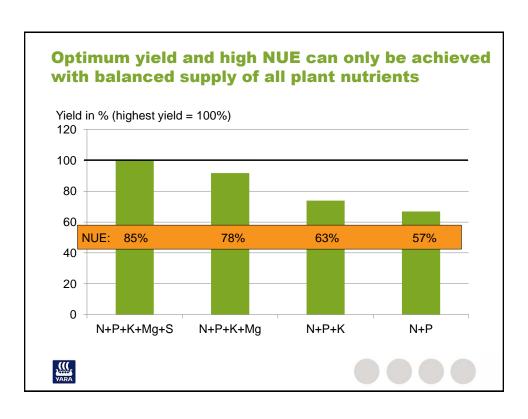
# Use organic fertilizer in the most efficient way

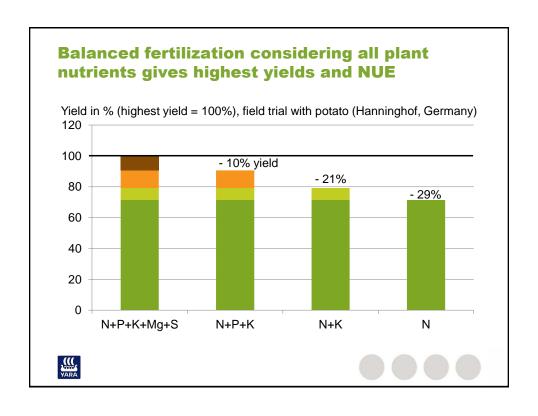
- Consideration of all available organic nutrient sources (crop residues, manures, catch/cover crops, BNF)
- Reduction of losses through improved application technologies and immediate incorporation

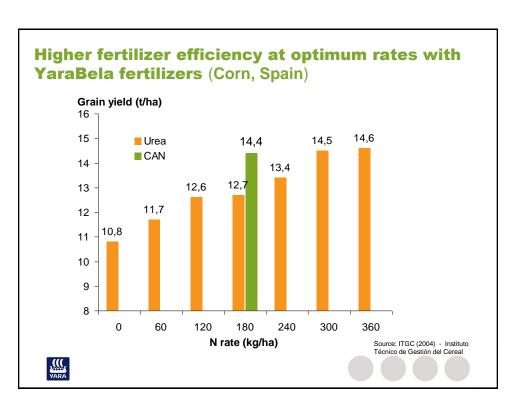


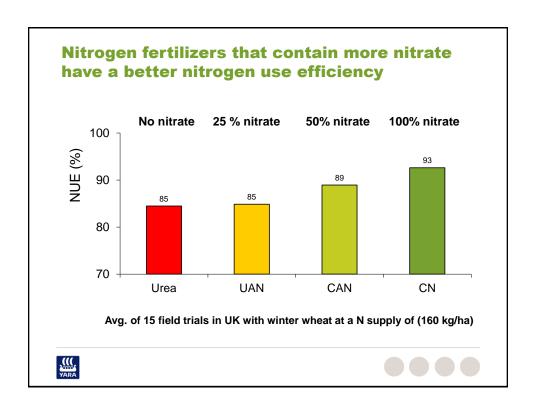


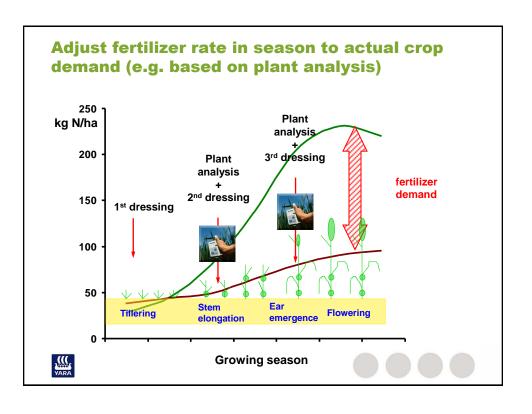












## **Tools for Best Fertilizer Management**

Fertilizer planners and crop monitoring tools are used to calculate the right nutrient requirement for each crop and each field













=> these tools helped to improve fertilizer management and nutrient use efficiency

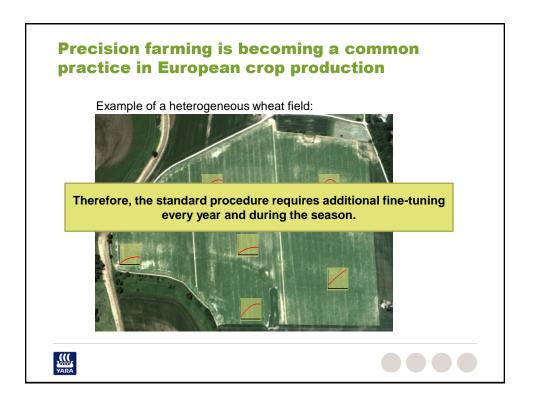


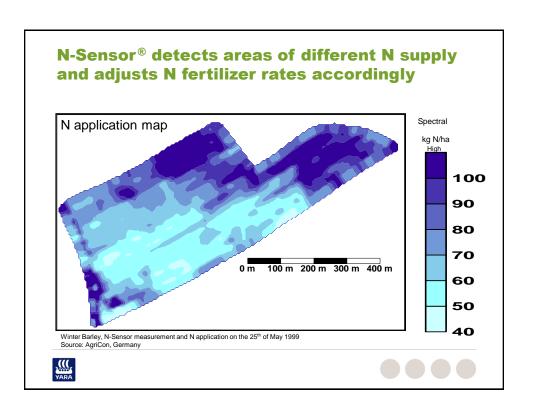


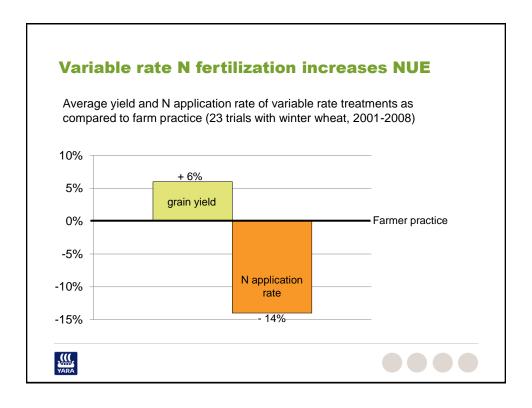
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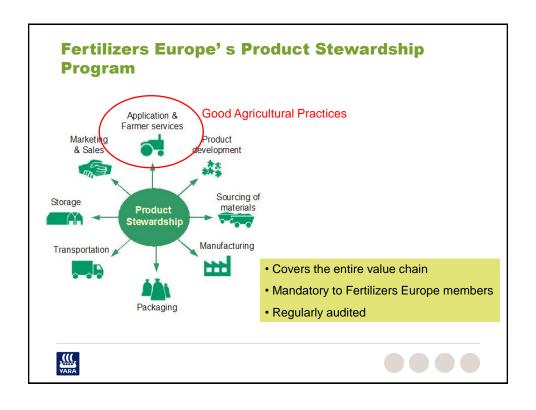












#### **Summary**

- Mineral and organic nitrogen (N) fertilizer is applied to nourish the crop in order to produce optimum and economic yields.
- The more fertilizer N ends up in the harvested crop, the better for the farmer and for the environment.
- A range of measures (nutrient planning incl. organic sources, balanced nutrition, efficient N fertilizer, site and season specific adjustments) has already contributed to increasing NUE in European crop production, however, there is further scope for improvements.
- The European fertilizer industry supports farmers to increase their NUE by providing tools and services around the fertilizer products (stewardship).



