

Addressing the Nutrient Challenge: the EU perspective

Conference "Resource Efficiency in Practice - Closing Mineral Cycles - Effectively Addressing the Nutrient surplus in Europe"

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Claudia Olazábal Head of Unit - Agriculture, Forests & Soil DG Environment, European Commission

Pilot Projects

Pilot Project voted by the European Parliament

Pilot Projects (PP) is an initiative 'of an experimental nature designed to test the feasibility of an action and its usefulness'. A PA could be the follow up

Project "Resource Efficiency in Practice – Closing the Mineral Cycle"



Nutrients

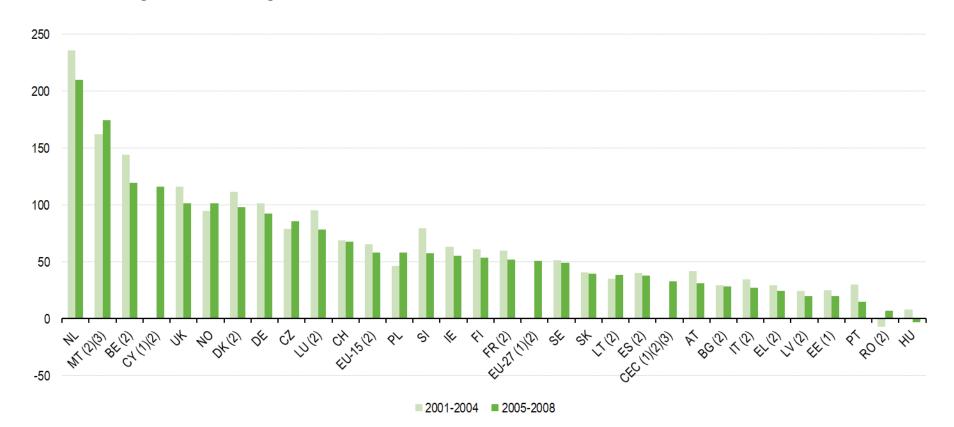
- Inputs of nutrients are critical in farming systems
- However, a surplus nutrients in excess of immediate crop needs can lead to nutrient losses, representing not only a possible cause of economic inefficiency in nutrient use but also a source of potential harm to the environment, through water pollution or air pollution, notably ammonia or greenhouse gas emissions and negative effects on biodiversity
- Eutrophication is one of the key threats to reach "good ecological status" for EU surface waters





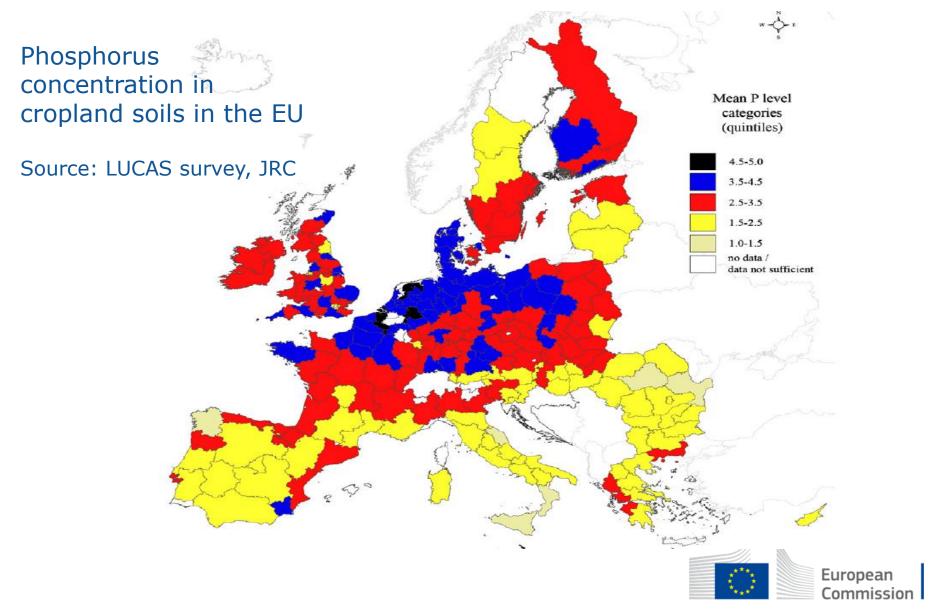
Nutrients in the EU - Some facts (1)

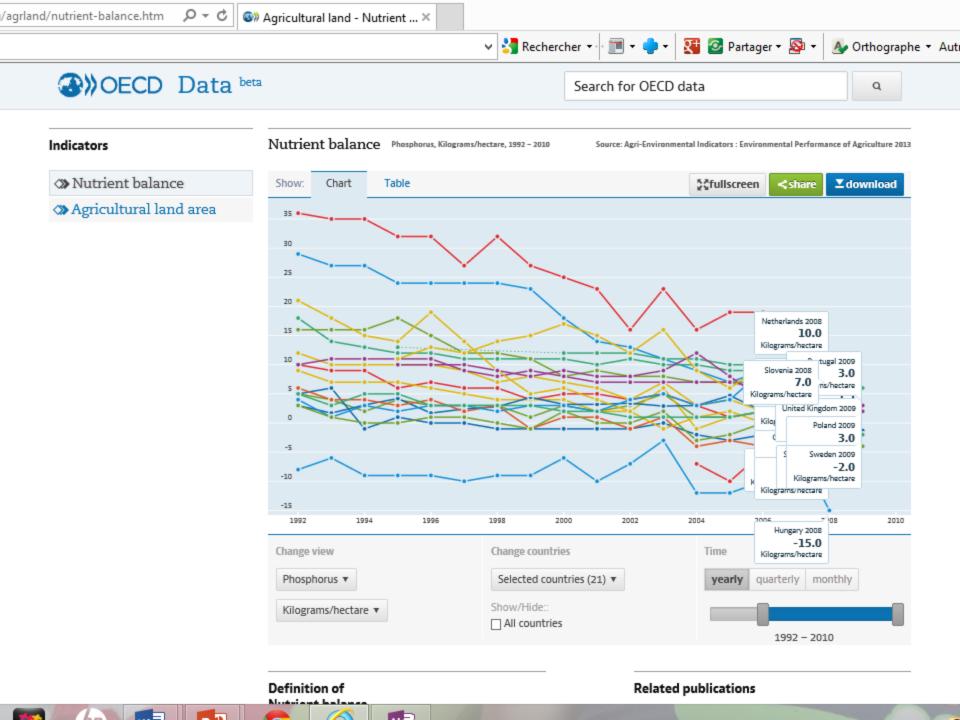
Nitrogen surplus in EU27 (kg N per ha), average 2001-2004 vs 2005-2008 (EUROSTAT)

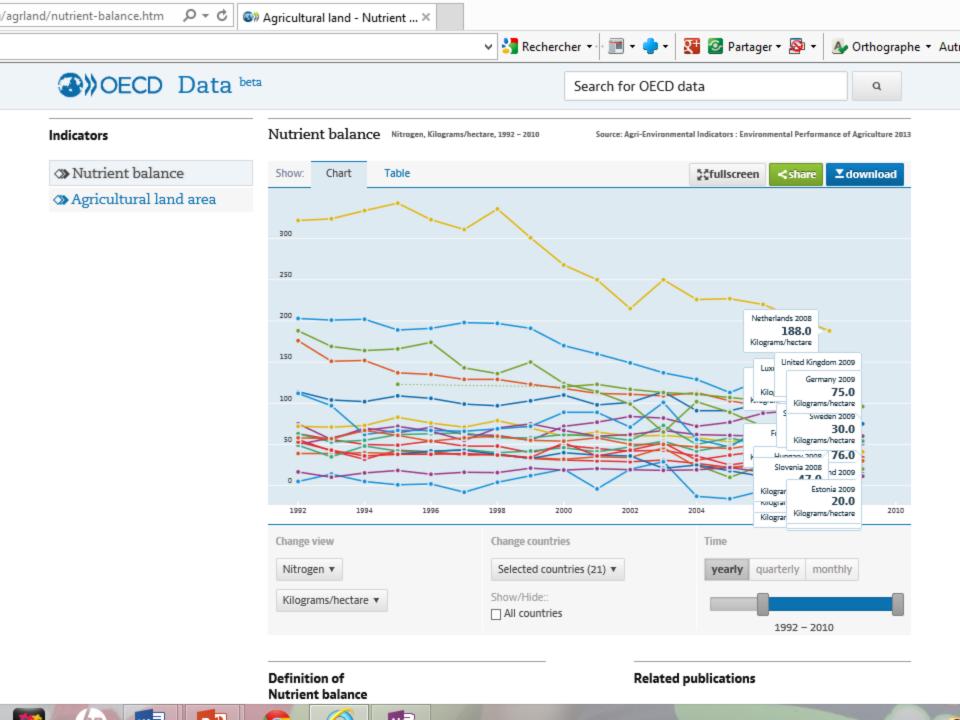


- (1) Data not available for 2001-2004
- (2) Eurostat estimations
- (3) PL, RO, BG, CZ, HU, LV, LT, EE, SI, SK
- (4) Average 2002-2004

Nutrients in the EU – Some facts (2)



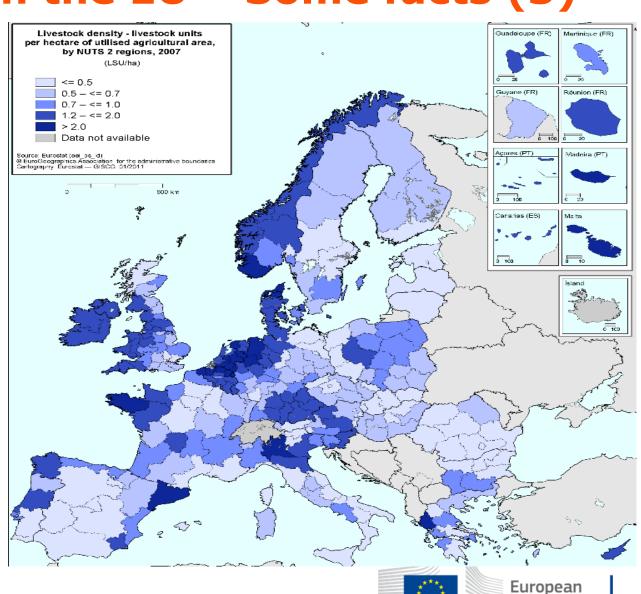




Nutrients in the EU – Some facts (3)

Livestock density (LU per ha of UAA, 2007)

Source: Eurostat



Commission

7th Environment Action Programme

"Living well, within the limits of our Planet"

- N and P input to the environment decreased over past 20 years
- However, excessive nutrient releases are still an issue
- Further efforts needed to manage the nutrient cycle in a more cost-effective, sustainable and resource efficient way
- More holistic approach to address the nutrient cycle





Nitrates Directive (91/676/EEC)

OBJECTIVE: reduce water pollution caused by nitrates from agricultural sources and prevent further such pollution

Monitoring

Identification of polluted waters (or waters at risk of pollution)

Identification of Nitrate Vulnerable Zones (NVZ)

Codes of Good Agricultural Practice (voluntary)

Action Programmes (mandatory)

Reporting

KEY MEASURES: closed periods, storage requirements, rules for land application under certain conditions (water-saturated, frozen or snow-covered ground, near water courses, on sloping ground), limitation of land application (balanced fertilization), max application standard of 170 Kg N/ha/year from livestock manure, etc.



Legislation relevant to nutrients

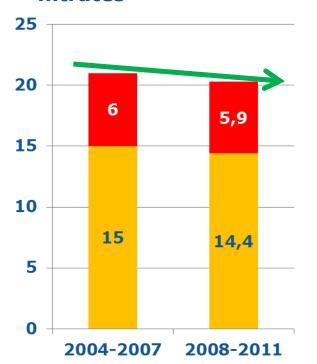
- Nitrates Directive
- Water Framework Directive
- Urban Waste Water Treatment Directive
- Marine Strategy Framework Directive
- Air Quality Package



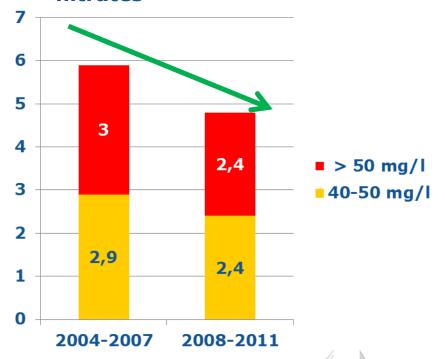
State of implementation of the Directive:

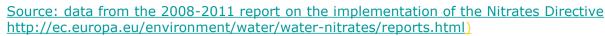
- Average water quality has been improving in groundwater and surface waters. Quality of Action Programmes improved
- Challenges remain in the most intensive areas and for the implementation of some measures

% of groundwater stations exceeding 40 and 50 mg/l nitrates



% of surface water stations exceeding 40 and 50 mg/l nitrates







Sustainable Use of Phosphorus

- Phosphorus: a vital resource currently used inefficiently
- Geographical imbalance of resources and use
- Significant environmental impacts across its life cycle
- 2011 "Roadmap for a resource efficient Europe" –
 COM(2011)0571 called for further research in order to identify ways to reduce our dependence on mined phosphate
- A "Consultative communication on the sustainable use of phosphorus" – COM (2013) 517 was carried out in 2013, with wide recognition of the importance of the issue from stakeholders
- A Communication on Circular Economy (COM/2014/0398) was published in 2014



Conclusions

- Nutrient management is a key environmental priority
- Successful policy approaches have been developed, yielding results (e.g. reduction of nutrient inputs, decrease of average nitrate levels)
- Co-benefits in relation to other policies (ammonia emissions, greenhouse gases reduction, resource efficiency, etc.)
- Challenges still remain to close the cycles.
 - Need for an Integrated and holistic approach, taking account all environmental media
 - > Use of innovative practices and solutions
 - Finhanced implementation of existing policies, aiming at reducing pollution at source

THANK YOU!

Claudia Olazábal
Head of Unit - Agriculture, Forests & Soil
Directorate General for the Environment – European Commission
Claudia.OLAZABAL@ec.europa.eu

