

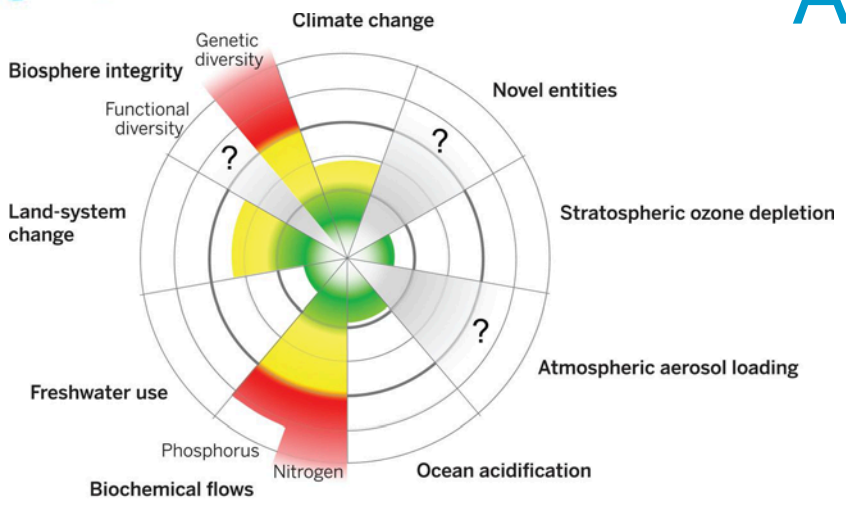
Nutrients in the EU's Farm to Fork Policy

Ludwig Herman, European Sustainable Phosphorus Platform

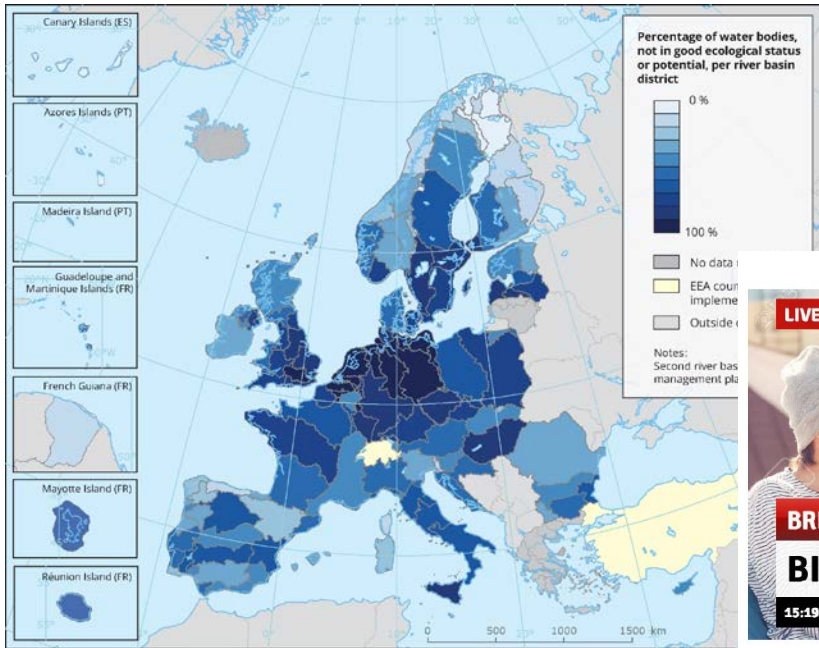
27th November 2020



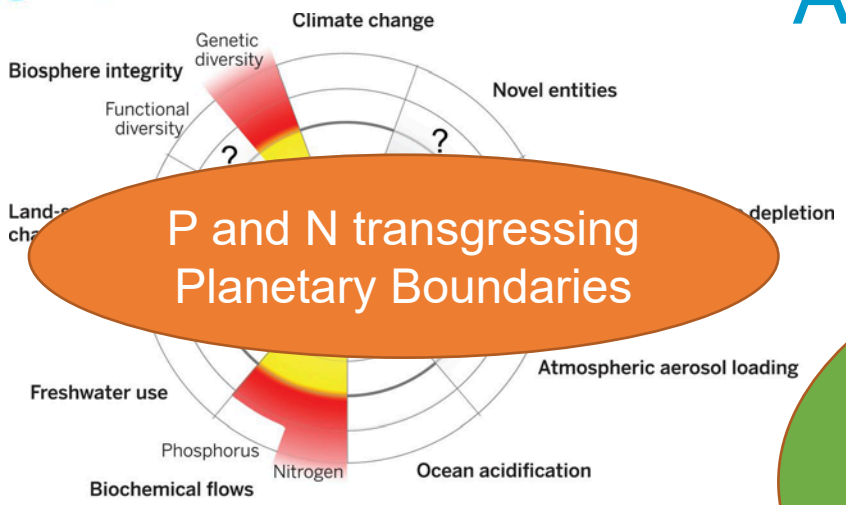
Framework for Action



■ Beyond zone of uncertainty (high risk) ■ Below boundary (safe)
■ In zone of uncertainty (increasing risk) ■ Boundary not yet quantified

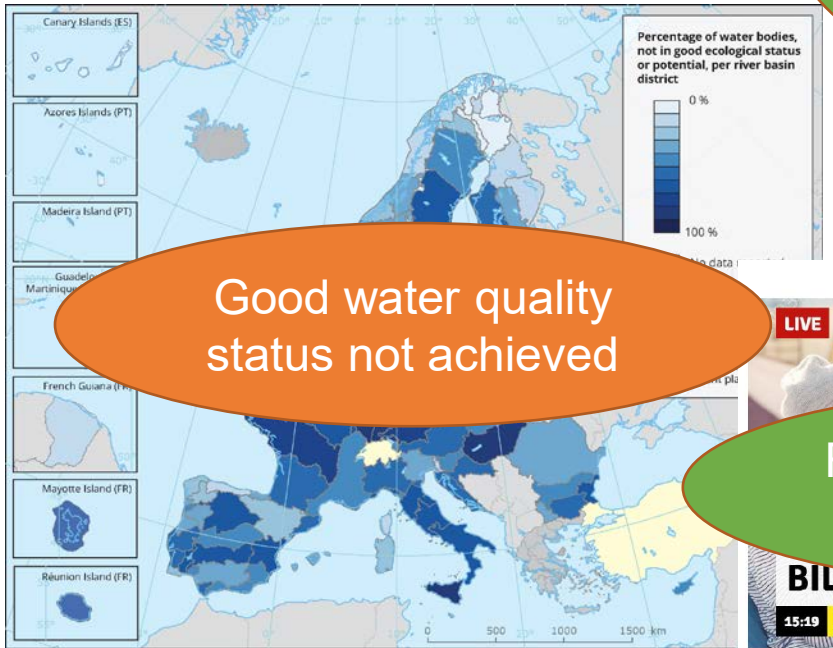


Framework for Action



P and N transgressing Planetary Boundaries

■ Beyond zone of uncertainty (high risk)
■ In zone of uncertainty (increasing risk)
■ Below boundary (safe)
■ Boundary not yet quantified



Good water quality status not achieved

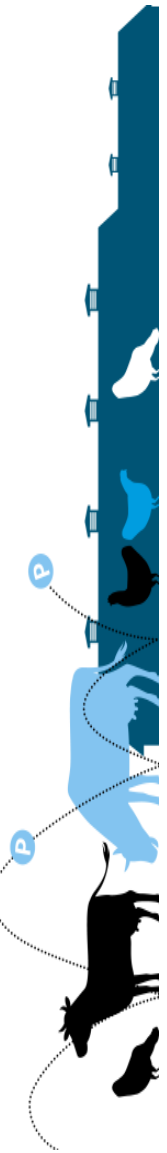
The European Green Deal
 → Farm2Fork strategy
 → GHG emissions / sequestration
 → Biodiversity
 → Rural economy
 → Bio-based industries

Fertilisers indispensable for global food security



A Farm to Fork Strategy Com(2020) 381 final, 20.05.2020 for a fair, healthy and environmentally-friendly food system

- At the heart of the European Green Deal
- Central to achieve UN SDGs
- Achieve robust and resilient food system
- Improve lifestyles, health and environment
- Reduce excess fertilisation
- Increase organic farming
- Improve animal welfare
- Reverse biodiversity loss



Building the Food Chain that Works for Consumers, Producers, Climate and the Environment

Direct impact on nutrients

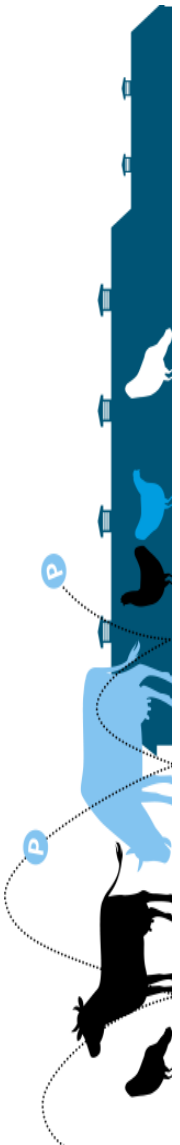
- New green business models (e.g. by carbon sequestering farming)
- Circular, bio-based economy focusing on nutrient recovery & recycling
- Abate soil, air and water pollution by addressing the excess of nutrients **(nitrogen and phosphorus)**
 - **By reducing nutrient losses by 50% by 2030, leading to using 20% less by 2030**
 - **By developing an integrated nutrient management plan (COM & Member States)**
- 25% of EU agricultural land under organic farming by 2030





Ensuring Sustainable Food Production – Indirect impacts on nutrients

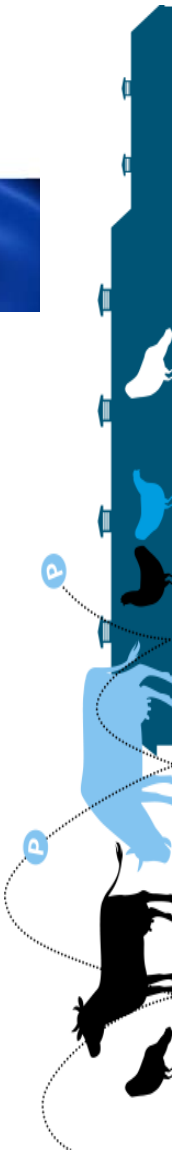
- Reduce agricultural GHG emissions: Agriculture is >10% of GHG of which 70% from livestock
 - Reducing critical feed materials (soya from deforested land)
 - Alternative feed materials: insects, marine feedstock (algae), fish waste
 - New CAP
 - Assigning at least 20-30% of 1st Pillar support payments to eco-schemes - council proposing 20%, Parliament 30%, COM (F. Timmermans) advocates higher ambition;
 - Farm Sustainability Tool for Nutrients” (FaST)
 - Eco-schemes = sustainable Ag practices such as precision agriculture, agro-ecology, agro-forestry, protecting/enhancing bio-diversity (e.g. wetlands)
- Sustainable aquaculture including nutrient recycling
- Healthy, sustainable diets
- Reducing food loss and waste



Enabling the Transition

Research, innovation, technology and investments

- Horizon 2020 – Green Deal Call, deadline 26th January 2021
- Horizon Europe – 10 bn € on R&I on
 - on food, bioeconomy, natural resources, agriculture, fisheries, aquaculture, the environment as well as the use of digital technologies and nature-based solutions for agri-food
- Mission “Caring for soil is caring for life” – 75% of soils healthy by 2030
- Mission “Starfish 2030” – Restore our ocean and waters
- Partnership for a Circular bio-based Europe (following BBI-JU of H2020)
- Investment instruments: European Regional Development Fund and InvestEU Fund fostering investments to the agro-food sector
- Farm Sustainability Data Network



Nutrient Related Policies

- DG GROW Fertilising Products Regulation (EU) 2019/1009 (FPR)
 - Enforced 25.06.2019, in effect 16.07.2022
- ECHA REACH ‘Registration’ (Annex V) exemption for digestates
 - Confirmed by Regulation (EU) 2019/1691 published 10th October 2019
- DG AGRI Organic Farming Regulation (EU) 2018/848: art. 5(c)
- DG ENVI study on contaminants in fertilisers (underway)
 - EFSA Acceptable Daily Intake (ADI) = safe limit for phosphorus in diet
 - Possible actions: EFSA studying Risk Reduction measures for some populations, e.g. kidney patients who have exposure higher than ADI – this study is pending on EFSA conclusions on glutamate, because it is considered “similar” - present both naturally and in additives
 - Some dossiers “stuck”: animal feed, animal by-products, diet, food products

Nutrient Related Policies

Water policy

- Water Framework Directive → fit for purpose (REFIT) 12/12/2019
 - https://ec.europa.eu/info/news/evaluation-eu-water-legislation-concludes-it-broadly-fit-purpose-implementation-needs-speed-2019-dec-12_en
- Urban Waste Water Treatment Directive → evaluation planned
 - <https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12405-Revision-of-the-Urban-Wastewater-Treatment-Directive>
- Sewage Sludge Directive 86/278/EC → public consultation underway
 - open to 5th March 2021 <https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12328-Evaluation-of-the-Sewage-Sludge-Directive-86-278-EEC-/public-consultation>
 - Exploratory study on prospective elements = risk posing pollutants



New Circular Economy Action Plan

- 11/3/2020 <https://ec.europa.eu/environment/circular-economy/>
- “Food, water and nutrients”
- Integrated Nutrient Management Action Plan

Chemicals Strategy - for sustainability towards a toxic-free environment

- https://ec.europa.eu/environment/strategy/chemicals-strategy_en

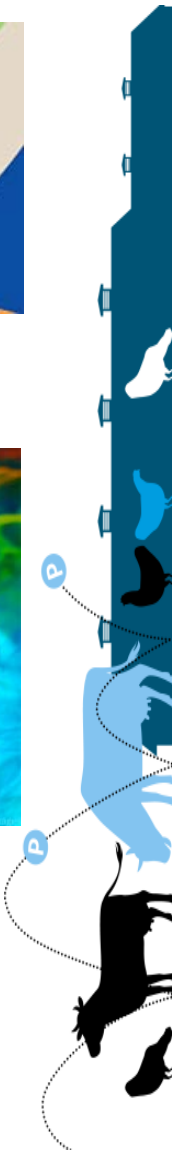


Zero Pollution Action Plan – towards a zero pollution for air, water and soil

- https://ec.europa.eu/environment/strategy/zero-pollution-action-plan_en/

Critical Raw Materials: phosphate rock and P₄ confirmed on 4th CRM List 2/9/2020

- <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52020DC0474/>



Thank you for your attention!

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