

# European Green Deal / Farm-to-Fork Strategy / Circular Economy

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# United Nations Sustainable Development Goals

Transforming our world: the 2030 Agenda for Sustainable Development, adopted by the UN General Assembly (193 nations) on September 25, 2015 (<https://sustainabledevelopment.un.org/>)



# EU's Response to SDGs and Resource Use

## 2014 EU Consultative Communication on Sustainable Use of Phosphorus

Proposals include: Increasing knowledge and research,  
P-recycling, risk of soil contamination  
by mineral or recycled fertilisers

see [www.phosphorusplatform.eu/scope107](http://www.phosphorusplatform.eu/scope107)

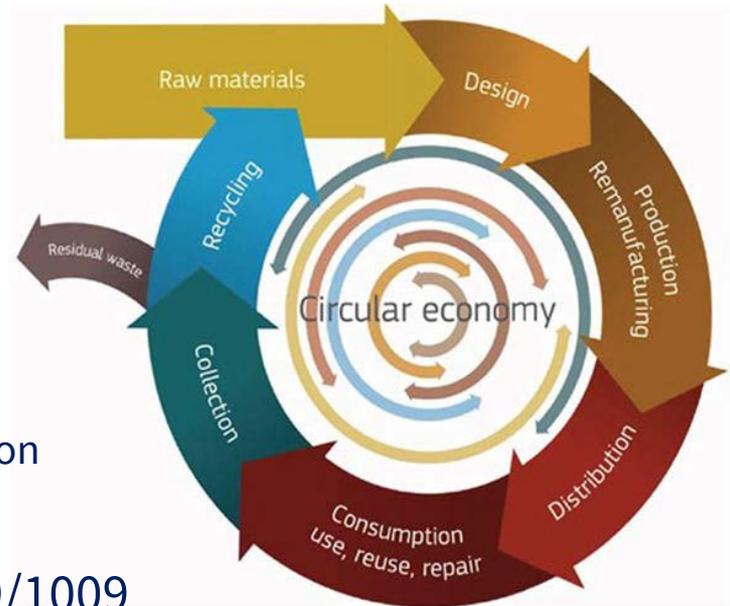
## 2015: EU Circular Economy Package

Flagship initiative = new EU Fertilising Products Regulation

[www.phosphorusplatform.eu/scope118](http://www.phosphorusplatform.eu/scope118)

## 2019: EU Fertilising Products Regulation 2019/1009

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=OJ:L:2019:170:TOC>



# European Green Deal

- Climate Pact
- Farm2Fork strategy
- GHG sequestration in agriculture
- Biodiversity
- Rural economy
- Greening Industry and transport
- Bio-based industries
- Eliminating pollution
- Just transition for all
- Finance



# Farm-to-Fork Strategy



- 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. 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

- Reduce agricultural GHG emissions: Agriculture causes >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 30% of 1<sup>st</sup> Pillar support payments to conditionalities for sustainable Ag practices such as precision agriculture, agro-ecology, agro-forestry, protecting/enhancing bio-diversity (e.g. wetlands)
    - Farm Sustainability Tool for Nutrients” (FaST)
- Nutrients targets included in the Biodiversity Strategy
- Sustainable aquaculture including nutrient recycling
- Healthy, sustainable diets
- Reducing food loss and waste



# Nutrient Related Politics



## 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](https://ec.europa.eu/info/news/evaluation-eu-water-legislation-concludes-it-broadly-fit-purpose-implementation-needs-speed-2019-dec-12_en)
- Urban Wastewater 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 5<sup>th</sup> 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](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/](https://ec.europa.eu/environment/strategy/zero-pollution-action-plan_en/)



# Fertilising Products Regulation (EU) 2019/1009



IN or OUT?		Sewage	ABP Manure	Animal by-products Cat 2+3	Animal by-products Cat 1	Food waste / bio waste	Food industry
CMC3 Compost		X	(√) Endpoint required	(√) Endpoint required	X	√	X
CMC5 Digestate non-energy crop		X	(√) Endpoint Required	(√) Endpoint Required	X	√	X
CMC6 Food industry by-products		X	X	X	X	X	Only lime, molasse, vinasse, distillers' grains
CMC10 Animal by-products		"Endpoint in the manufacturing chain" undefined, yet included in CMC3, CMC5, STRUBIAS					
CMC11 by-products (2008/98/EC)		Study underway at JRC, products will be defined 2021/2022					
STRUBIAS P-salts	Including when used as fertiliser production ingredient	√	(√) Endpoint Required	(√) Endpoint Required	X	√	√
STRUBIAS Ashes		√	(√) Endpoint Required	(√) Endpoint Required	X	√	√
STRUBIAS Biochar		X	(√) Endpoint Required	(√) Endpoint Required	X	√	X



# The new Circular Economy Action Plan

- Make sustainable products the norm in the EU;
- Empower consumers and public buyers;
- Focus on the sectors that use most resources and where the potential for circularity is high such as:
  - Electronics and ICT;
  - Batteries and vehicles;
  - Packaging; plastics;
  - Textiles; construction and buildings;
  - Food; water and nutrients;
- Ensure less waste;
- Make circularity work for people, regions and cities,
- Lead global efforts on circular economy.



# Enabling the Transition

## Research, innovation, technology and investments

- Horizon 2020 – Green Deal Call, deadline 26<sup>th</sup> January 2021
- Horizon Europe – 100 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



# Thank you for your attention!



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