

**Interreg**   
EUROPEAN UNION  
**North-West Europe**  
**ReNu2Farm**  
European Regional Development Fund

**WEBINAR** 

**REGULATORY DEVELOPMENTS ON MANURE RECYCLING**

24 NOVEMBER 2021, 16h00 - 17h30 CET

# Overview and perspectives of manure regulatory challenges

**Laura van Schöll & Romke Postma**

*nmi*  *nutrient management institute*

# Legislative framework fertilisers in EU



## GOAL

to accelerate Europe's transition to a carbon neutral, resource-efficient and competitive economy by helping "close the loop" of product lifecycles through **greater recycling and re-use**, with benefits for both the environment and the economy.

## FPR

Fertilising Products Regulation  
EU 2019/1009

Adopted, implementation July 2022

## GOAL

- promote **increased use of recycled and organic materials for fertilising purposes**,
- allow a more **resource-efficient general use of nutrients**, while
- reducing Union dependency on nutrients from third countries
- safe and sound fertiliser products
- free trade within internal EU market after conformity assessment

# Legislative framework manure in EU



## ABP regulations

**Goal:** to prevent and minimise risks to human and animal health and to ensure the food and feed chain is kept safe

- Rules for collection, transport, handling, treatment, transformation, processing, storage, placing on the market, distribution, use or disposal of manure or manure derived products.
- All actors and actions are subject to notification, registration, approval, controls and restrictions.
- Rules are complex, implementation is country specific, pose a logistic and administrative barriers, do not account for high quality manure-derived products.

## Nitrate directive

**Goal:** the protection of waters against pollution caused by nitrates from agricultural sources

- Restrictions on use of animal manure, limiting amount of manure applied.
- Limits market entry of high quality manure-derived products.

# Legislative framework manure in EU



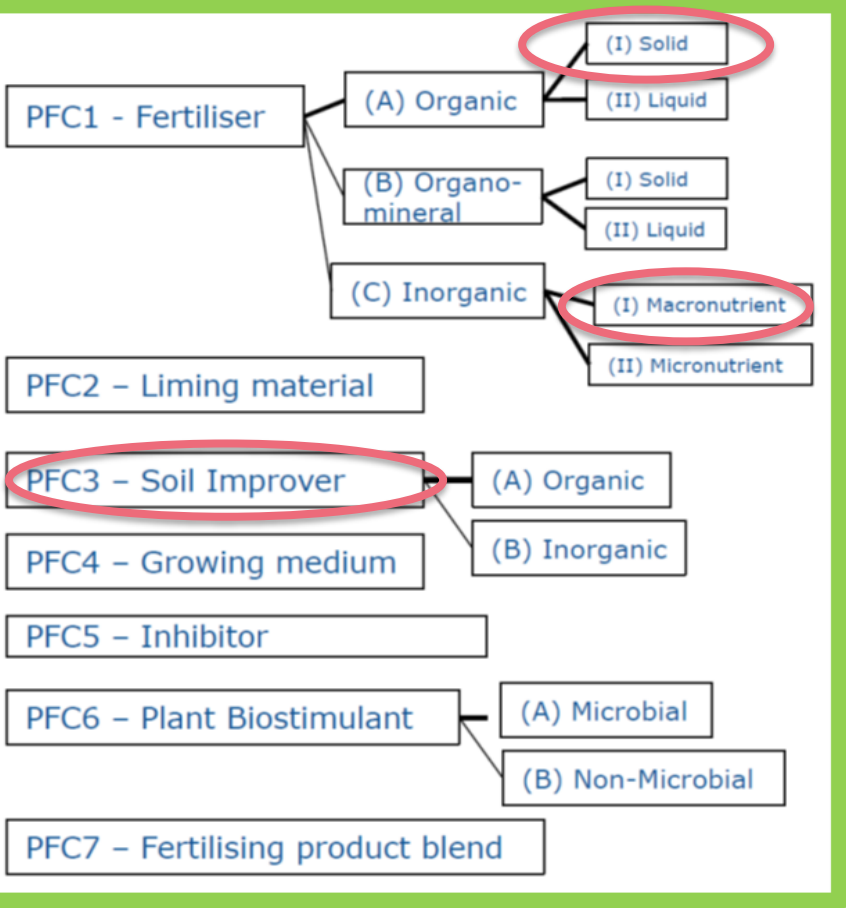
- The legal status as ABP and manure hinders the development of transfrontier market
- Slows down the implementation of innovative manure valorisation chain
- Barrier to enter fertiliser manufacturing chain
- Barrier to enter animal feed chain

**Leave the scope of ABP: End Point in the ABP manufacturing chain**  
(safe to use without risk for human and animal health)

**Implementation of RENURE**  
(safe to use without nitrate contamination of waters)

**Enter the scope of FPR:**  
(conform to criteria for safe and sound fertilising products and components)

# Fertilising Products Regulation EU 2019/1009



- CMC 1: Substances and mixtures, primary
- CMC 2: Simple plant parts or extracts
- CMC 3: Compost
- CMC 4: Energy crop digestate
- CMC 5: Other digestate
- CMC 6: Food industry by-products
- CMC 7: Micro-organisms
- CMC 8: Nutrient polymer
- CMC 9: Other polymers
- CMC 10: Products derived from animal by-products
- CMC 11: By-products

- CMC 12: Precipitated phosphate salts or derivatives
- CMC 13: Thermal oxidation materials or derivatives
- CMC 14: Pyrolysis or gasification materials

- CMC 15: recovered products



End product	Process	FPR category	Nutrients and OM	Heavy metals	CMC	remaining issues
Ash	incineration	PFC1C1	+	-	CMC 13	CMC is waste
Compost	composting	PFC 1.A.1 or PFC 3A	+	+	CMC 3 / CMC 10	end point ABP, criteria?
Digestate	digestion	PFC 3A	-	-	CMC 5 / CMC 10	end point ABP, criteria?
Solid fraction	digestion+separation	PFC 3A	+	+	CMC 5 / CMC 10	end point ABP, criteria?
Liquid fraction	digestion+separation	PFC 1C1	-	-	CMC 10	end point ABP RENURE
Struvite	P precipitation	PFC 1C1	+	+	CMC 12	end point ABP (not foreseen)
calcium phosphate	P precipitation	PFC 1C1	+	+	CMC 12	end point ABP (not foreseen)
ammonia water	stripping/scrubbing	PFC1 C1	+	+	CMC WW-15	CMC criteria? RENURE
ammonia salts	stripping scrubbing	PFC1 C1	+	+	CMC WW-15	CMC criteria? RENURE
mineral concentrate	separation + reverse osmoses	PFC1 C1	-	-	CMC 10	end point ABP, RENURE