



# Revision of the Urban Waste Water Treatment Directive



## WORKSHOP ON SEWAGE SLUDGE MANAGEMENT IN THE DANUBE REGION FOR A GREENER EU

10 June 2021

*Disclaimer: The views expressed are purely those of the writer and may not under any circumstances be regarded as stating an official position of the European Commission.*

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# Approach to the impact assessment

## METHODOLOGY

- **OECD**
- Established models for impacts & costs
- 2 baselines: 2016 + full compliance
- **Expert engagement**

## STAKEHOLDER CONSULTATION

- Web-meetings
- Speed dates
- Stakeholder workshops
- Conference with **DE presidency**
- Online public consultation

## DRAFTING

- In line with Better Regulation Guidelines
- Clarity regarding certainty of findings



- **Draft policy measures**
- Consultation strategy
- Roadmap
- Externalized studies

- Evaluation
- Information from **Member States** & operators + consultation on modelling assumptions
- Literature review

- Quantification/modelling by **JRC**
- Triangulation of evidence

# Long list of policy measures



Today focus on energy, GHG emissions and sludge management.

Interaction of policy measures will be considered

# What is the problem?

## Unused potential of resource recovery

- Water reuse
- Raw materials, in particular phosphorus

## GHG emissions

- Of all methane and N<sub>2</sub>O emissions in the EU:
  - 4% of methane,
  - 3% of N<sub>2</sub>O from waste water and sludge

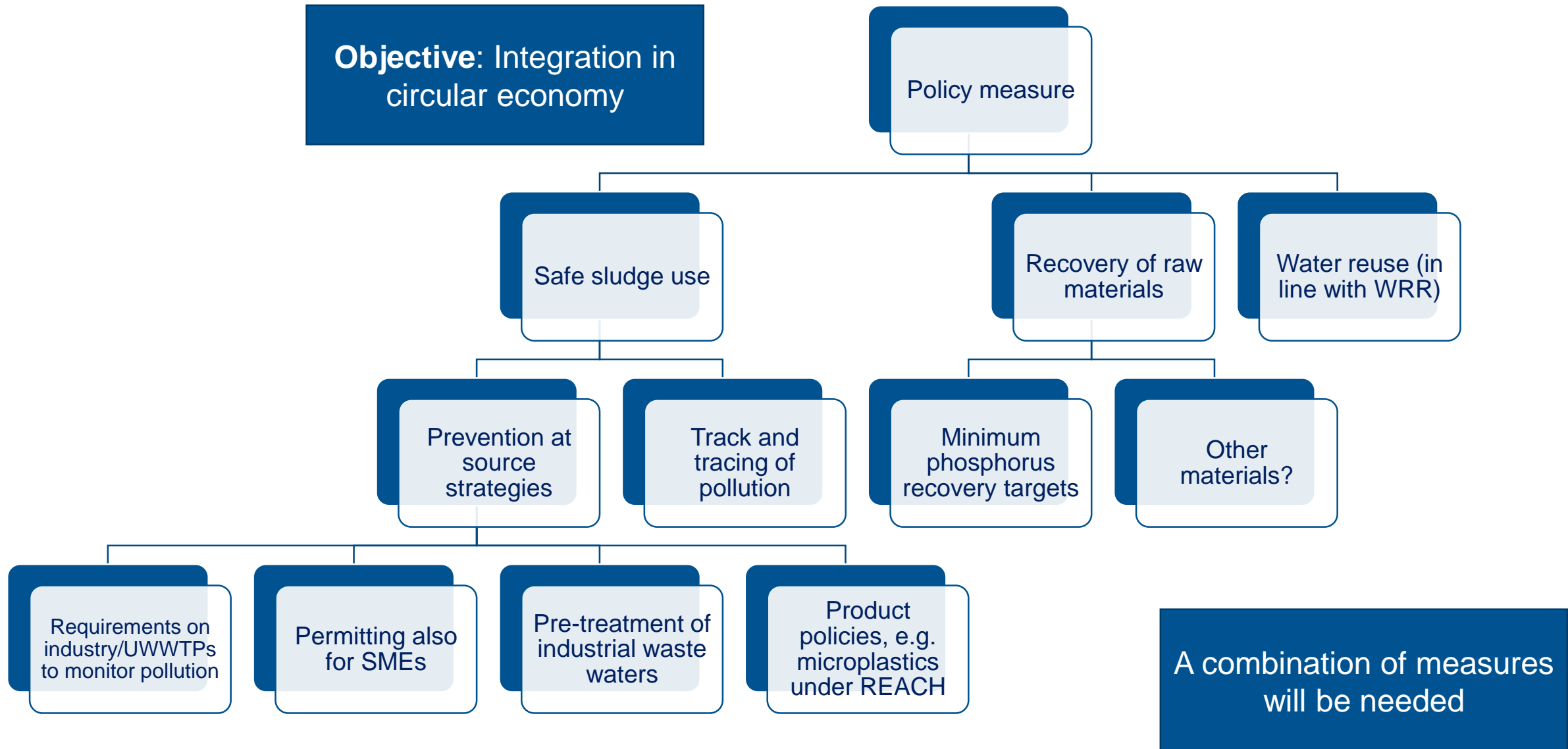
## Energy use

- 1 % of all energy used incl. from non-renewable sources
- Missed opportunities for energy savings
- High costs on municipalities' bill
- Poor uptake of new technologies

## Unused production potential

- Production potential from anaerobic digestion
- Use of wind or solar energy for energy production

# Policy measures for resource recovery



# Policy measures on energy and GHG emissions

Policy measure

A combination of measures will be needed

**Objective:** Energy and climate neutrality of the sector

Energy

GHG emission

Energy audits for large (and later smaller) UWWTPs

Target values for renewable energy generation and use

Benchmark current levels of GHG emissions + require reduction

a. Reduction target at UWWTP level

b. Reduction target at national level

Thank you

# Some over-arching considerations

