



# **Bio-based industries related R&I in the context of Horizon Europe preparations**

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# EU Green Deal



# Role of bio-based industry in the EU Green Deal

- Decarbonisation
- Circularity
  - Valorisation of waste
  - Substitution of abiotic materials (including fossil-based) by bio-based materials
- Sustainable agriculture
- Pollution reduction
- Rural development
- Competitiveness of EU bio-based industry

**=> Continued commitment to implement the EU  
Bieconomy Strategy**

# Bio-based systems in Horizon Europe

- Specific Programme (2021-2027)
  - Thematic cluster
    - Intervention area Bio-based Systems
- Strategic plan (2021-2024)
- Work Programme 2021-2022
- Proposal for a new partnership Circular Bio-based Europe
  - Earmarking EU funds
  - Mobilising private funding
  - Involvement of all relevant stakeholders (bio-based industry, primary producers, regions, investors)

# Are other stakeholders committed?

- Success of BBI JU
  - Growing interest in BIC (including from research organisations and regions)
  - A number of successful project implemented
  - Mobilisation of private funding (270% leverage)

# Potential of Bio-based industry not fully exploited in EU-13

- Value generation from local biomass is low
- Lack of advanced biorefineries
- Missing national/regional strategies
- The need for mobilisation of the research community
- Untapped human capital



# BioEast initiative

Support for EU-13 countries to accelerate bio-based development:

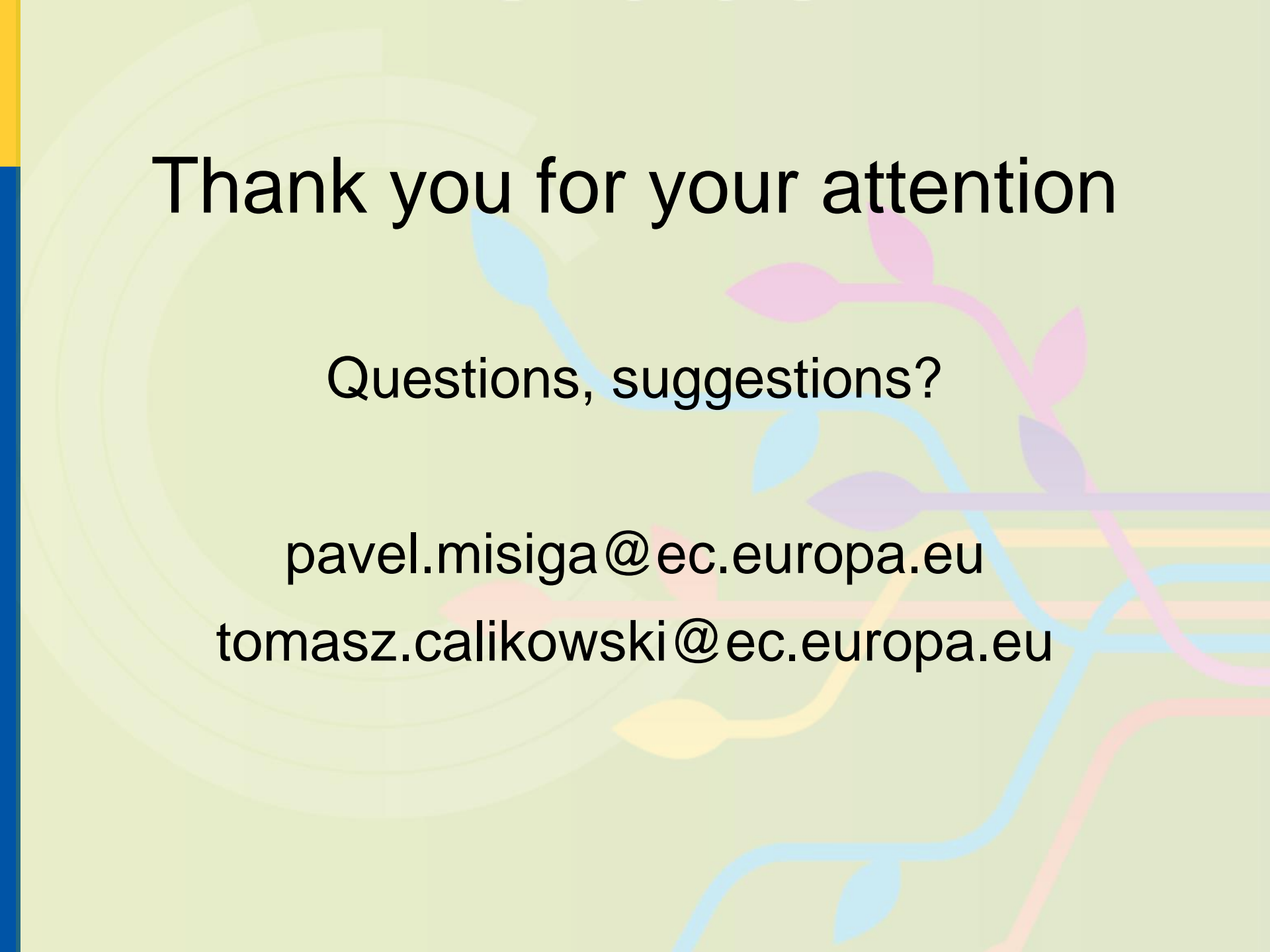
- Demos and flagships
- H2020 projects
  - Power4Bio
  - Rural-BE
- Dedicated BioEast project

=> EC committed to support EU-13 under Horizon Europe

# Sustainability dilemma

- Potential trade offs
  - Guiding principles:
    - GD principle: no harm
    - Cascading the use of biomass to maximise the economic value
  - Limited capacity in decision makers to analyse the potential negative effects and set sustainability conditions
  - Lack of analytical tools (e.g. suitable LCA methods, assessment of the effect on biodiversity, etc.)
- => EU workshop on sustainability criteria for bio-based industry 30-31 March 2020





# Thank you for your attention

Questions, suggestions?

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