

# Solutions for healthier people and planet

How interregional cooperation contributes to the zero-pollution ambition

2 June 2021 | Webinar

EU GREEN WEEK 2021 PARTNER EVENT

**ZERO** #EUGreenWeek  
**POLLUTION**  
for healthier people and planet



# Agenda (1/2)

## Interregional cooperation and good practices for pollution reduction and greener future



**Martin Romantschuk**  
University of Helsinki  
TANIA project



**Jan Marek**  
INOTEX  
RESET project



## Turning exchange of experience into practice through pilot actions



**Matti Allam**  
Film London  
Green Screen project



# Agenda (2/2)

**Leveraging good practices and experience from the regions for further action**



**Astrid Severin**  
Policy Learning Platform  
Interreg Europe

**Towards further cooperation and new inspiration for regions**



**Nicolas Singer**  
Joint secretariat  
Interreg Europe

# **Interregional cooperation and good practices for pollution reduction and greener future**

# Martin Romantschuk

University of Helsinki  
TANIA project

# TANIA → NANORAUTA



Euroopan unioni  
Euroopan aluekehitysrahasto

**LADEC**  
LAHDEN SEUDUN KEHITYS

Vipuvoimaa  
**EU:lta**  
2014–2020



PÄIJÄT-HÄMEEN LIITTO  
The Regional Council of Päijät-Häme



UNIVERSITY OF HELSINKI



**LAMK**  
Lahden ammattikorkeakoulu  
Lahti University of Applied Sciences

Martin Romantschuk, University of Helsinki

**EU GREEN WEEK 2021 PARTNER EVENT**

**ZERO #EUGreenWeek**  
**POLLUTION**  
for healthier people and planet

**TANIA**  
Interreg Europe



European Union  
European Regional  
Development Fund

TreAting contamination  
through NanoremedIAtion

# Motivation to take part in the TANIA project

- Our thorough experience with *in situ* bioremediation and electro-kinetics
- Initiative from the Päijät-Häme Regional Council to interact with European experts in nanoiron (nZVI) use for soil & ground water cleaning
- Novel idea: *in situ* electro-kinetics to enhance nZVI spread



## Novel remediation techniques



**SUSTAINABLE REMEDIATION SOLUTIONS/TECHNOLOGIES AND  
THEIR APPLICATIONS IN THE FIELD:**

**SUCCESS STORIES AND EXPERT DEBATE**



## Funding instruments supporting the use of new techniques



**FUNDING FRAMEWORKS FOR SUPPORTING RESEARCH, INNOVATION  
AND THE IN SITU EXPLOITATION OF THE NOVEL SOLUTIONS:**

**PROJECTS AND SHOWCASES**



## Political steering instruments in the EU countries

**POLICIES FOR THE MANAGEMENT OF THE CONTAMINATED AREAS:**

**STRENGTHS AND WEAKNESSES OF THE NATIONAL AND EU  
LEGISLATION**





**TANIA collaboration**

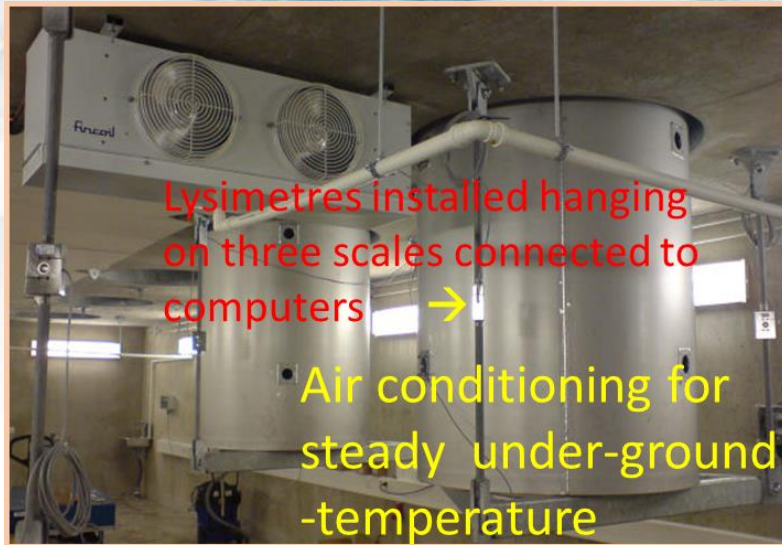


**Soil research station  
Lahti, Finland  
&**



**Groupement d'intérêt scientifique  
sur les friches industrielles**

**Lorraine, France  
&  
Facilities planned for  
Tuscany, Italy**



# Inspiration from partners

- University of Lorraine: to use nZVI for brownfield reclamation
- Lead partner & network: idea to apply for ERDF-funding for putting theory into practice → Nanorauta
- Partners in Tuscany eager to plan and build soil research station like Soilia/Finland, Gisfi/France → chance to do comparative research in different climatic conditions



# Next steps and future outlook

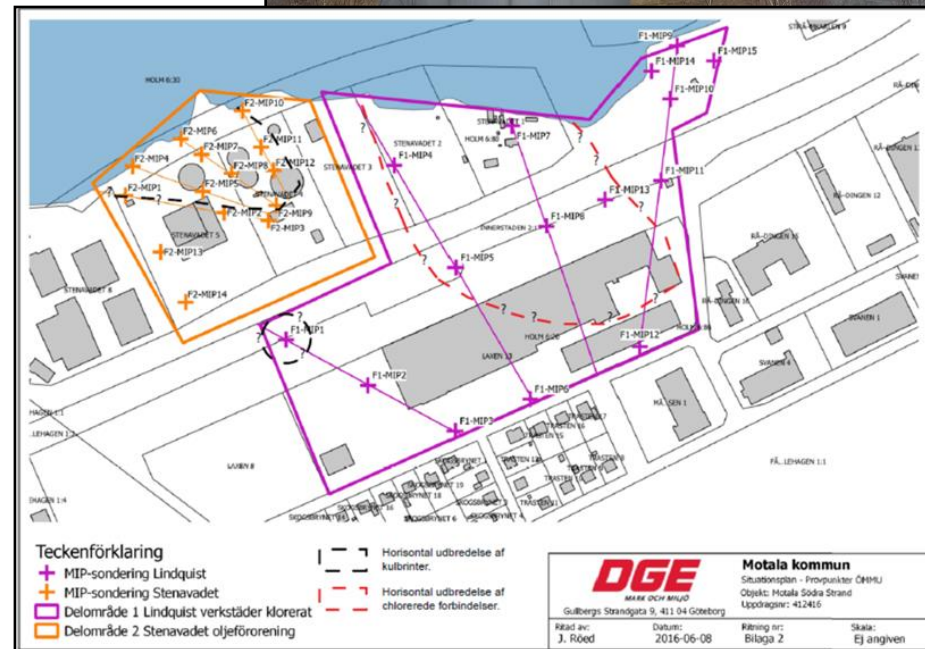
## Based on TANIA plans & ideas

- NANORAUTA – ongoing  
(Universities, municipal authorities, SMEs)  
Lab test done; pilot tests ongoing; field tests this summer
- REHAZE – application in preparation with  
Baltic Sea partners  
Land fill leachate treatment and control



# Summarising benefits

- New international contacts: TANIA partners and European enterprises  
→ new business
- New ideas for joint activities e.g. additional soil research stations  
→ international comparative research
- Info on novel methods for environmental remediation to us & from us  
**GOAL: TO USE IN SCALE ON PICTURE**





# Jan Marek

Inotex  
RESET project



# Promoting a more sustainable approach to production in the textile sector

Jan Marek – INOTEX

EU GREEN WEEK 2021 PARTNER EVENT

**ZERO** #EUGreenWeek  
**POLLUTION**  
for healthier people and planet

**RESET**  
Interreg Europe



European Union  
European Regional  
Development Fund

RESearch centers of Excellence  
in the Textile sector



## RESET addressed 6 key policy themes:

- 1 Recycling in textile and waste disposal
- 2 Water consumption and energy saving, sustainable organisations
- 3 New sustainable chemistry, incl. reduction of chemical substances
- 4 Smart textiles and new ways of production
- 5 Eco creativity, natural fibres, short value chains
- 6 New materials and new applications

Action Plans aiming for:

**significant reduction of the environmental impact of TC production across EU  
increasing the competitiveness of the sector**

Exchange of existing solutions – sharing ideas and experience (best practices)

# POLICY THEME 1 – Recycling in TC and waste disposal

## CORNET – **BleNaBis**

(CLUTEX – FKT Germany ITA Aachen)

Blends of Nat. and Biosynt. Fibers  
for eco-efficient yarns and home textiles

## CLUTEX – INOTEX part:

Approved „**Bio Retting**“ – enzymatic extraction  
of fibres from the waste oilseed flax stalks –  
complex wasteless utilization of crop  
Finishing of BioPA/Oilseed Flax 50/50 blend

Related also to Theme 5:

Eco creativity, natural fibres, short value chains





# POLICY THEME 1 – Recycling in TC and waste disposal

## **Dematerialization of the hospital care / elderly people nursing home textiles**

construction, functional finishing, reactivation in ind. laundry (AMB, soil/liquid resistant effects, FR) incl. study of volumes to be recycled (step towards CE)

New interregional action „Health textile“ (STFI/VTI – DE)

Info Exchange – TCoE UK (+NW Network, Bradford)

**Participation of CTPT in ETP FTC „Circular Economy“ strategic program**



# POLICY THEME 2 – Water consumption, energy saving

„**ECO-DYEING**“ – **Pre-cationization** of cellulosics and wool substrates to significantly enhance anionic dyes dyebath yield, shortening of process, eco-design – new multicolor effects in dyeing/printing – single bath, salt less/free dyeing – step towards technological water reuse

TEXAMIN ECE new INOTEX product – IT, PL, TCoE UK, CITEVE PT



Initial condition

Non modified

Cationized substrate

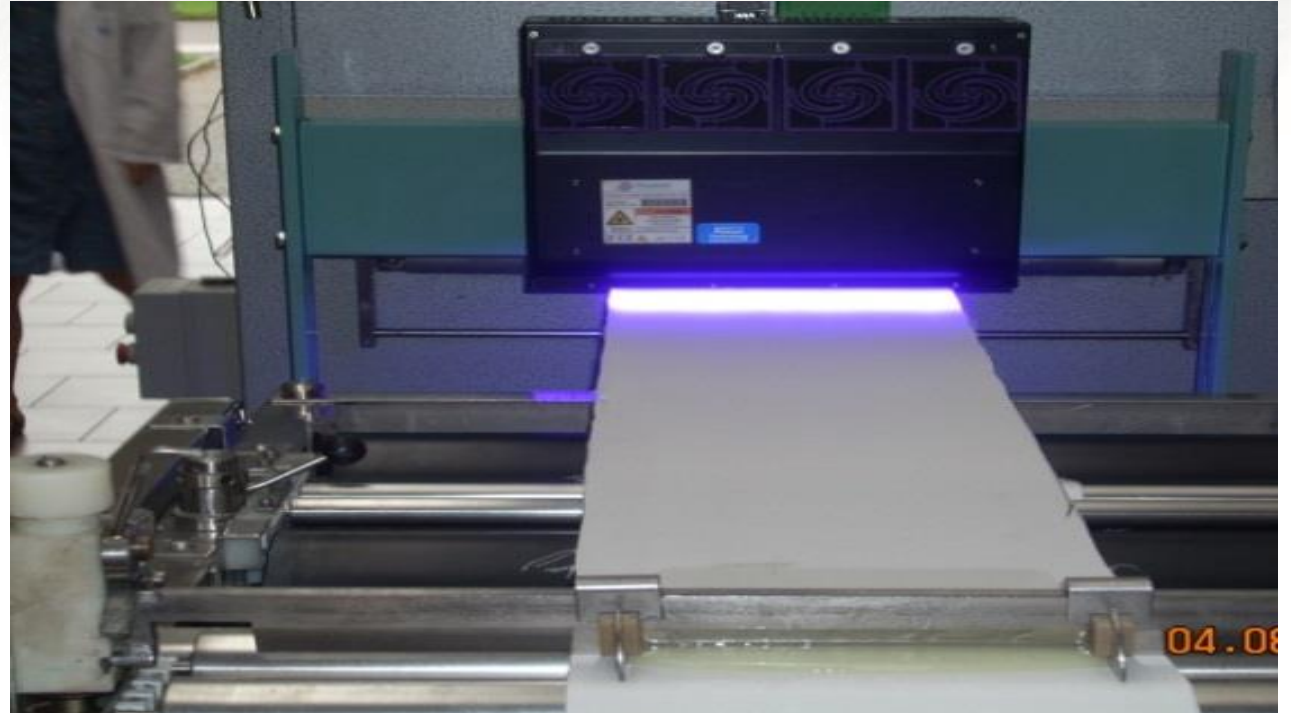


# POLICY THEME 2 – Water consumption energy saving

**UV-LED curable coating and finishing** – new efficient processing saving energy, processing time and space

„from wet to dry“ – ETP/CTPT TFE2

**CORNET LED CURE** with STFI (+CENTEXBEL) followed by national **UV CUTEX** project – development of new chemistry, tandem UV LED exposure 365 and 395 nm



# POLICY THEME 3 – New sustainable chemistry incl. reduction of chemical substances

**CP FTEX** – Cleaner production of (multi) functional textiles  
Halogen, antimony and formaldehyde free durable flame-retardant for Co and PES, Co/PES 50/50 blends. **TEXAFLAM DFR** (INOTEX, CZ). Minimum loss of tear/tensile strength pass the EU FR standards. Communicated during TCoE visit CZ (TCoE activities presentation on TEXCHEM / REGIOTEX 2018 annual conference Pardubice CZ).

**ECO-DWOR (Eurostars)** – CZ, ESP – FC free water resistant / soil release durable systems, actually in the industrial scale-up of finishing.

# POLICY THEME 6 – New materials and new applications

## **MUFCIRC** – CLUTEX CZ collective research

Screening of emerging recycled and bio-based fibres to be an alternative replacing fossil based synthetic fibres – study of processing (dyeing, finishing, functionalization) by use of existing technologies

## **CLUTEX** participation in „**BIO-BASED FIBRES**“ ETP FTC strategic program

**TCoE UK – CAMIRA** company UK – learning about production of WO/bast fibre (flax, hemp, nettles) blends as inherently FR upholstery – no FR chemicals needed.  
Oilseed flax fibre (INOTEX) tested as an alternative (BS 5852/EN1021 requirement).

**3D KNIT (CORNET)** – Novel upholstery materials based on 3D weft knitted fabrics – replacement of PU foam – simplification of recycling (CLUTEX – SINTEX CZ, STFI DE)

# CONCLUSIONS

## Benefits:

- internationalization and multidisciplinary of R&D
- identification of industry needs
- approval of R&D activities + speed-up of dissemination
- sharing of experiences and good practices – boosting of TRL
- support of needed readiness to follow CE and Green Deal in TC

## Set-up of RIS3 new mid- and long-term tools:

- Textile domains defined in 3 leading TC CZ regions (HK, LB, PU)
- Pilot action RegioTEX on COVID 19 response and recovery interregional partnership (TC waste recycling pilot plant investment)

# Turning exchange of experience into practice through pilot actions



**Matti Allam**

Film London  
Green Screen project





# Green Screen – The Grid Project A Pilot

Matti Allam, Film London

EU GREEN WEEK 2021 PARTNER EVENT

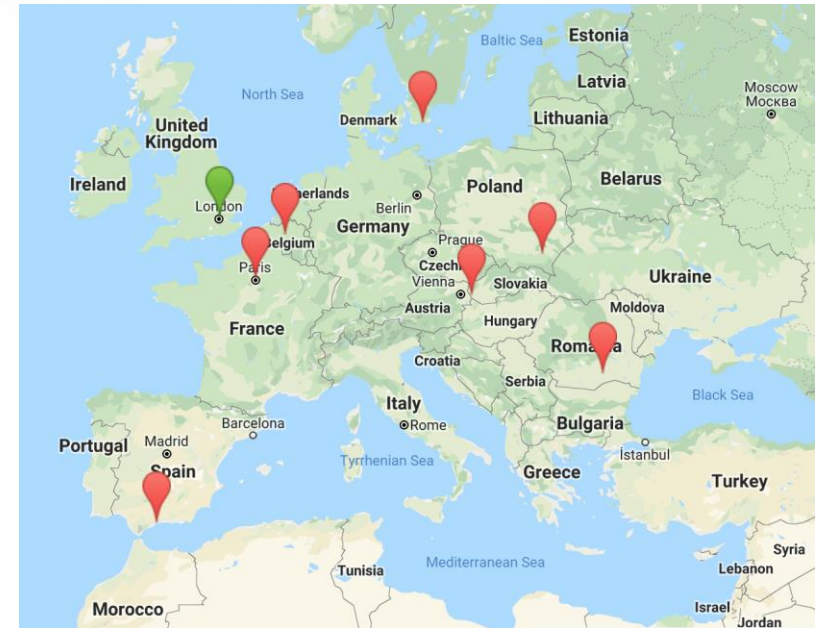
**ZERO** #EUGreenWeek  
**POLLUTION**  
for healthier people and planet

[#greenscreeneu](https://www.instagram.com/greenscreeneu)

# About Film London & Green Screen



**Green Screen**  
Interreg Europe



# Film London – The UK Capital's Screen Industries Agency



*The Crown* courtesy of Netflix

- Growing inward investment & jobs
- 15,000 filming days pa.
- Filming Partnership of over 500 members
- Free professional advice for productions
- Dedicated locations service
- Extensive database of crew & locations
- Social & environmental sustainability



*Isle of Dogs* © Fox Searchlight Pictures

# Inspiration for the Grid Project – Buck TV series Flanders

TV series *Buck* for Ketnet TV

*Buck* received funding and **sustainability coaching** from VAF

The production used an alternative power source on location



Achieved 93% reduction in carbon emission and saved €20,000 by using **alternative power source**

# The Grid Project, London

Scaling up the Flemish best practice for use at unit basis

Developed feasibility

Designed electrical cabinets to industry specification

Powered by renewable energy

Replacing the use of generators



# Benefits of the Grid Project – Victoria Park

## Using generators

- The estimated CO2 emitted by the generators was 169,556kg
- The estimated nitrogen oxide produced by the generators was 2,393kg
- The estimated particulate matter produced by the generators was 7.43kg

## Plugging into renewable energy

- Zero carbon
- Nil PM
- Nil Nox
- No noise pollution



# The Pilot Site – Victoria Park



- Located in London's **Ultra Low Emission Zone (ULEZ)**
- Tower Hamlets –  
2018 – 1,407 filming days  
2019 – 1,299 filming days

Including

*Mission: Impossible – Fallout, Pokémon Detective Pikachu, Killing Eve, Luther, Judy and Informer*

- Heavily used as Unit Base

# How will it work?



- Replacing the use of generators with an **electrical cabinet**
- Purpose built & designed cabinet to industry specification
- Powered by **renewable energy**
- Smartlocks to allow access



# Leveraging good practices and experience from the regions for further action



# Astrid Severin

Policy Learning Platform  
Interreg Europe



# How interregional cooperation contributes to the zero pollution ambition

EU Green Week Webinar, 2 June 2021

**Astrid Severin**  
Thematic Expert  
Environment & Resource Efficiency  
Policy Learning Platform  
Interreg Europe



**Interreg  
Europe**



European Union | European Regional Development Fund

# What is the Policy Learning Platform?



- A space for **continuous learning**, dedicated to **regional policymakers**
- We help people **deliver better policies by finding inspiration in what others do** around Europe
- We **take stock** from all the knowledge and experience gathered around the Interreg Europe funded projects
- We believe in **the power of cooperation** and facilitate networking among peers



# Meet the thematic experts





# Circular economy in Interreg Europe

**BIOREGIO**  
Interreg Europe

**LINDANET**  
Interreg Europe

**CAPonLITTER**  
Interreg Europe

**COCOON**  
Interreg Europe

**SYMBI**  
Interreg Europe

**BIGDATA  
4RIVERS**  
Interreg Europe

**PLASTEKO**  
Interreg Europe

**WINPOL**  
Interreg Europe

**CESME**  
Interreg Europe

**AQUARES**  
Interreg Europe

**SMART WASTE**  
Interreg Europe

**2LIFES**  
Interreg Europe

**TRIS**  
Interreg Europe

**TANIA**  
Interreg Europe

**OptiWaMag**  
Interreg Europe

**INTHERWASTE**  
Interreg Europe

**CircE**  
Interreg Europe

**GPP4Growth**  
Interreg Europe

**ECOWASTE  
4 FOOD**  
Interreg Europe

**CONDEREFF**  
Interreg Europe

**COLOR  
CIRCLE**  
Interreg Europe

**GPP-STREAM**  
Interreg Europe

**REPLACE**  
Interreg Europe

**RETRACE**  
Interreg Europe

**EURE**  
Interreg Europe

**ENHANCE**  
Interreg Europe

At least **26** projects featuring good practices to enhance circular economy, industrial symbiosis, sustainable water and waste management, green public procurement and resource efficiency

# #policylearning



# 4 services

## Knowledge hub

- 15-page policy briefs
- Articles, Stories



## Good practice database

- Over 2,000 expert validated good practices

## Community (18,000+ members)

- Thematic workshops
- Webinars
- Online discussions



## Expert policy support

- Policy helpdesk
- Matchmaking
- Peer Reviews



# Knowledge hub: Policy briefs



**Over 70  
policy  
briefs**

<https://www.interregeurope.eu/policylearning/knowledge-hub/>



# Community: Webinars



More than 2,000 views !



More than 1,000 views !



**Watch the replay:** <https://www.interregeurope.eu/policylearning/knowledge-hub/>

# ‘Acting now: policy solutions to stop marine litter and plastic pollution’



**Webinar**



**Acting now: policy solutions to stop marine litter and plastic pollution**  
3 June • 14:00-15:30 CEST

[Meet our speakers](#)

**Laura Koerselman**  
Associate at SYSTEMIQ

**Eleni Tzagaraki**  
Head of Heraklion Civil Protection Regional Unit (CAPONLITTER)

**Isabelle Poitou**  
Director at MerTerre (CAPONLITTER)

**Sofia Savova**  
Expert at SZ REDA (PLASTEKO)

**Astrid Severin**  
Moderator - Thematic Expert  
Environment and resource efficiency

**#EUGreenWeek**  
2021 Partner Event

 **interreg Europe**  
European Union / European Regional Development Fund

More information on [interregeurope.eu/EUGreenWeek](https://interregeurope.eu/EUGreenWeek)

 **European Commission**

3 June, 14:00 - 15:30 CET Register here: <https://bit.ly/3oC0sFB>



# Individual expert policy support

- **Policy helpdesk**

Ask the experts and receive written policy advice online

- **Targeted matchmakings** (1.5 hours online or back-to-back to events)

Get together with 2-3 relevant partners (from outside your own project consortia) to share your challenges and discuss good practices

- **Peer reviews** (2 days onsite or online)

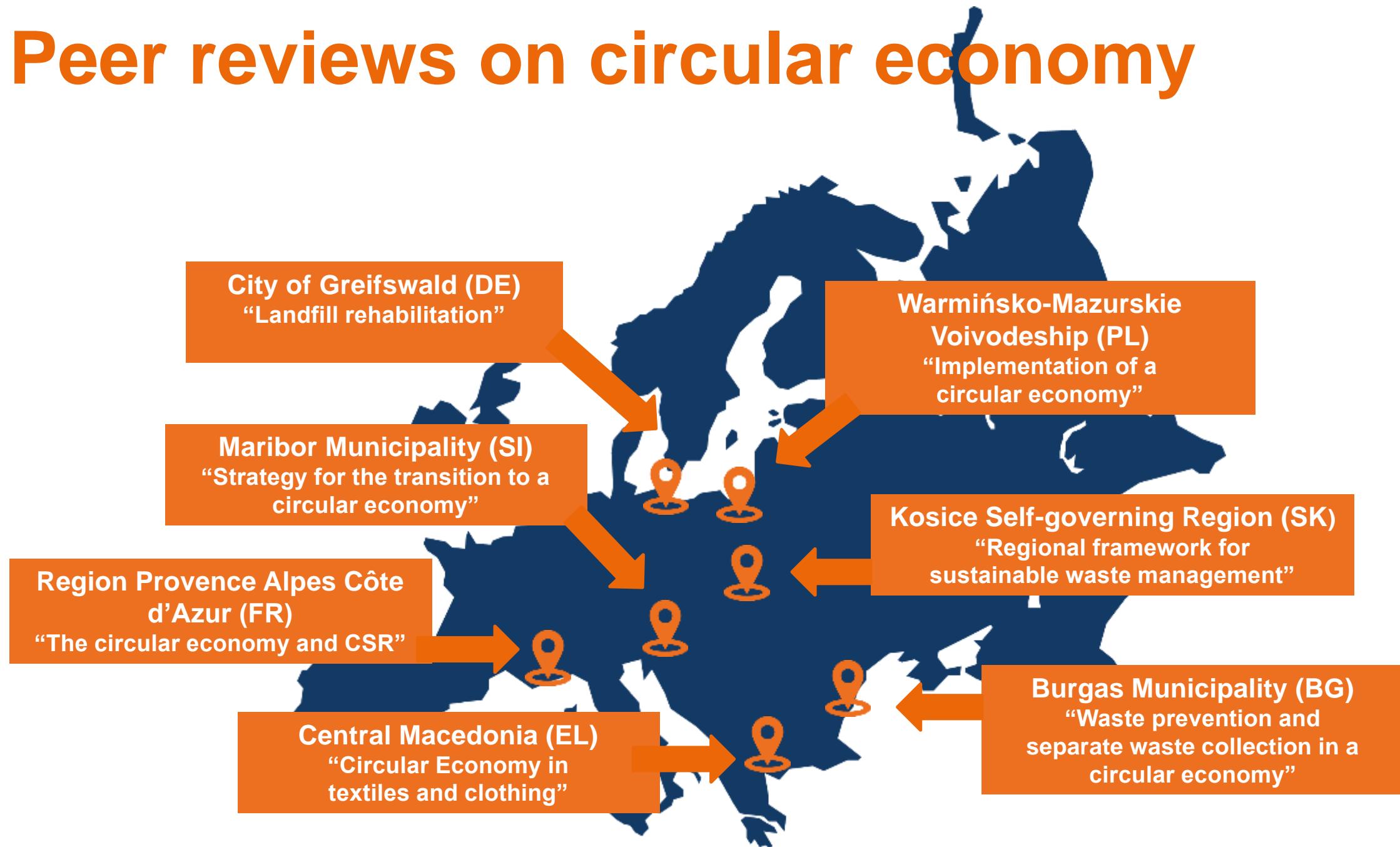
Team up with other European regions to get their feedback and recommendations on your policy challenge



**Request a peer review or a matchmaking any time!**

<https://www.interregeurope.eu/policylearning/expert-support>

# Peer reviews on circular economy



# Beneficiaries say it

*"The peer review was an amazing experience, we have learned a lot and we are doing a small step in order to become a greener region."*

**Barbora Kovacova**,  
Department of Regional  
Development



**Košice Self-governing Region**

*"We have learned that we don't need to reinvent the wheel: it has already been invented! You have shared so many concrete and practical examples with us and we'll keep in contact because we need your support"*

**Vesna Baltina**, Deputy Mayor for Strategic Development, Environment, Digitalization and Adaptation to Climate Change

*"Thanks to all this information, we will be able to foster our transformation towards a more circular region."*

**Tomas Malatinec**, Department of Regional  
Development



**Burgas Municipality**

*"We would be delighted to visit the peers and see their amazing good practices for ourselves once the pandemic is over."*

**Veselina Dimitrova**, Chief Expert  
Strategic Development

*"Thank you very much for your work. All peer sessions and presentations have been very interesting. They show that there is a lot of experience available and the examples that you shared with us have been really inspiring."*

**Dorota Kopeć**, Deputy Director, Regional Policy  
Department



**Warminsko-Mazurskie Voivodeship**

*"Cooperation with the PLP team during the peer review was very smooth and effective. We received help at every stage."*

**Kinga Krupińska**, Head  
of the Coordination Office,  
Regional Policy  
Department

# Thank you!

**Astrid Severin**  
Thematic Expert for  
Environment & Resource  
Efficiency  
Policy Learning Platform  
a.severin@policylearning.eu



**Subscribe now to our newsletter:**  
<https://www.interregeurope.eu/policydigest/>



**Interreg  
Europe**



European Union | European Regional Development Fund

# Towards further cooperation and new inspiration for regions

# Nicolas Singer

Joint secretariat  
Interreg Europe



**Interreg  
Europe**



European Union | European Regional Development Fund

# Interreg Europe 2021-2027

## Future in Green

**Nicolas Singer**

Head of Unit – Projects & Platform | Interreg Europe

*n.singer@interregeurope.eu*

2 June 2021 | EU Green Week Partner Event



# Sharing solutions for better regional policy

30

countries  
involved



359m

euros invested  
in policy learning



Research  
and innovation



SME  
competitiveness



Low-carbon  
economy

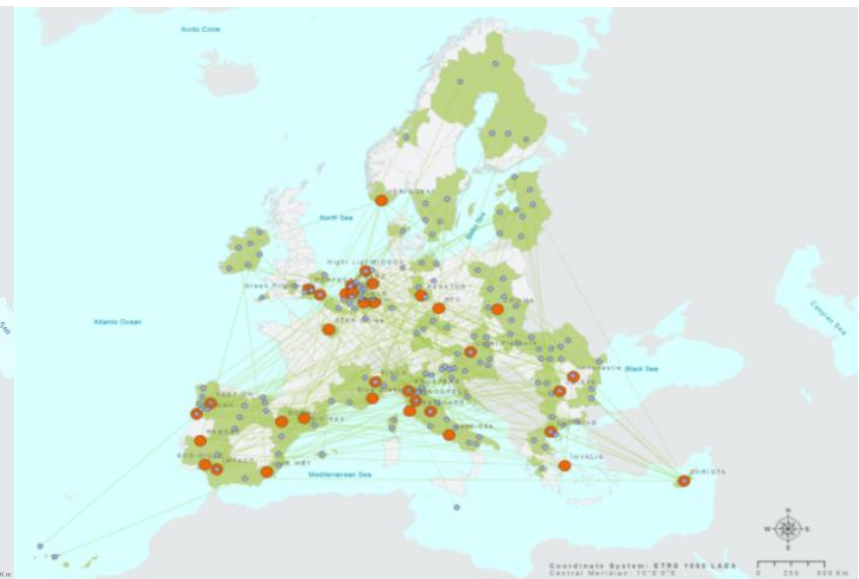
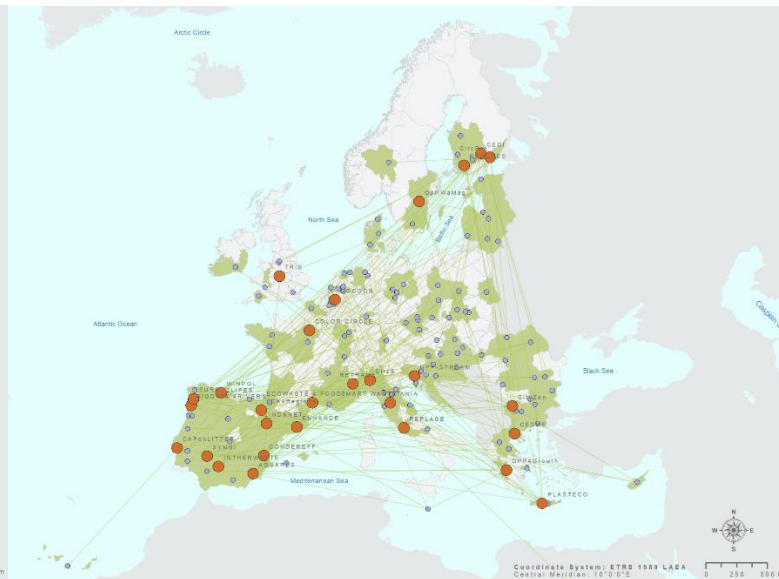
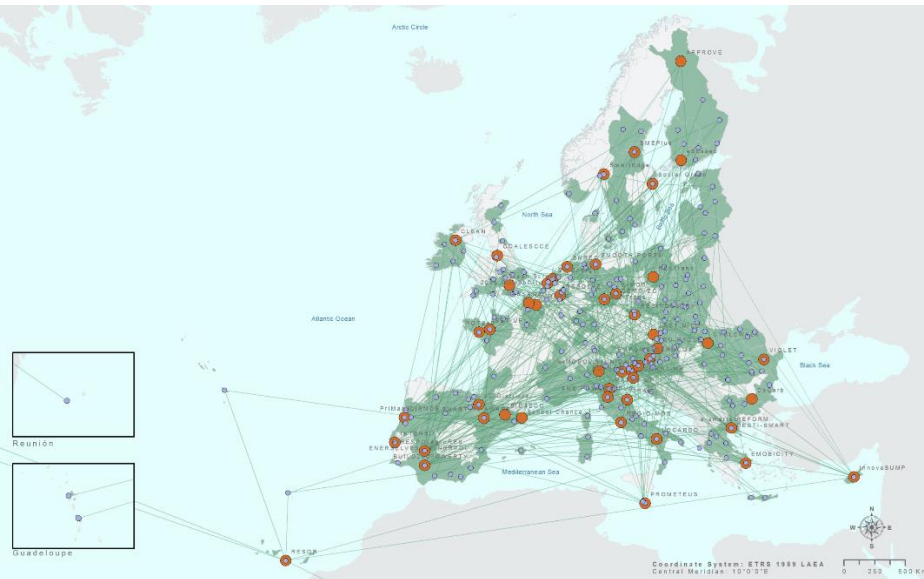


Environment and  
resource efficiency



# Interreg Europe's green projects

- Low-carbon economy
- Resource efficiency
- Natural and cultural heritage

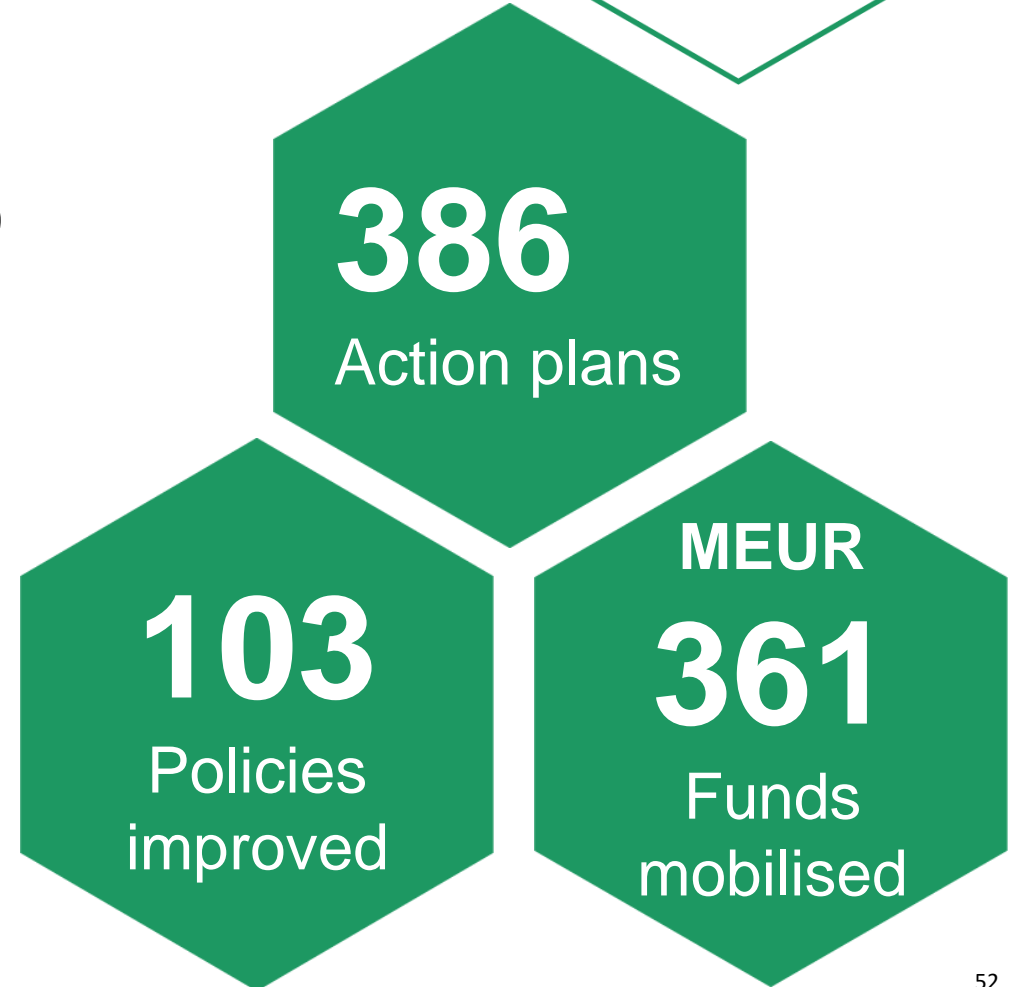


# Low-carbon economy



## 60 projects (23% of all)

- Sustainable transport policies (26)
- Energy efficiency policies (14)
- Low carbon strategies (11)
- Renewable energy policies (9)

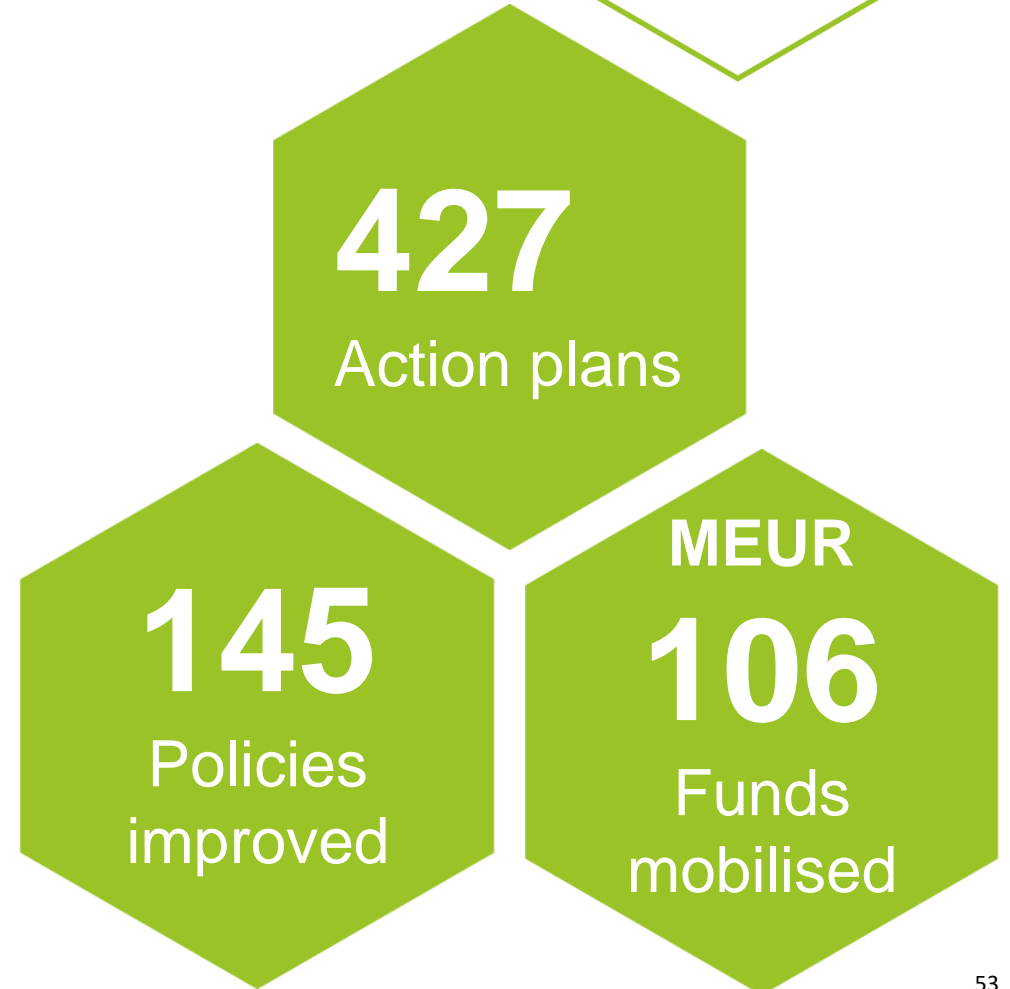


# Environment & resource efficiency

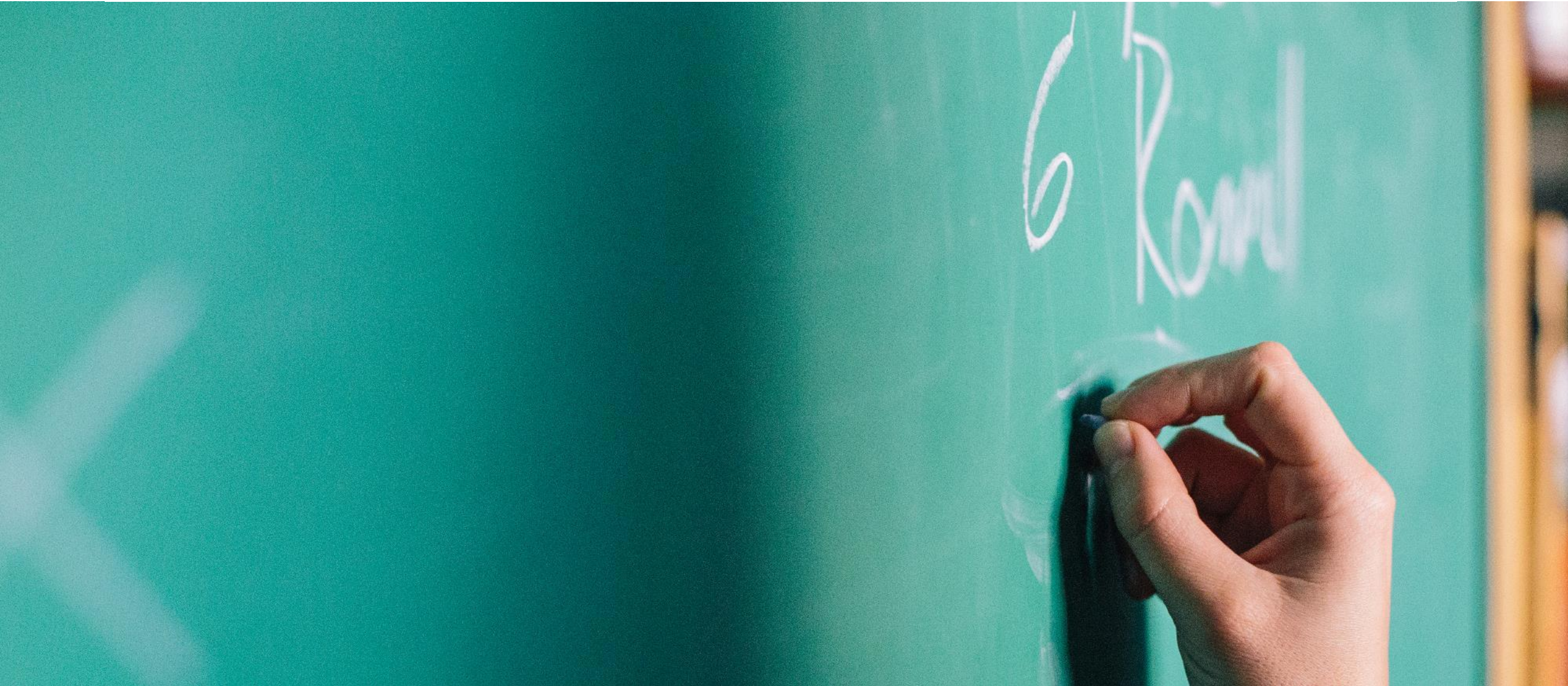


## 67 projects (26% of all)

- Resource efficiency policies (24)
- Circular economy policies (11)
- Natural & cultural heritage policies (28)
- Biodiversity preservation policies (4)



# Future interregional cooperation



# Programme rationale

Key **objective** stays the same:

*improving regional development policies through exchange of experience, innovative approaches and capacity building*

Slight evolution in **eligible area & budget**

**2014-2020**

**30**  
countries  
involved

**MEUR 359**

**2021-2027**

**29**  
countries  
involved

**MEUR 379**

# Sharing solutions for better regional policy

**2014-2020**

**4 thematic priorities**



**2021-2027**

**6 topics for capacity building**





# Future projects

## Evolution of the main features

- ‘Lighter’ focus on **Structural Funds** programmes  
(only 1 policy instrument per project must be a SF programmes)
- More flexibility in the **phases**  
1 core phase & 1 follow-up phase
- **Action plans** depending on core phase results
- **Pilot actions** possible from the start

# Future platform

## Four main services stay

### Community of peers

open membership



### Good practice database

more good practices



### Expert policy support

peer reviews

matchmaking

policy help desk



### Knowledge hub

policy briefs & news





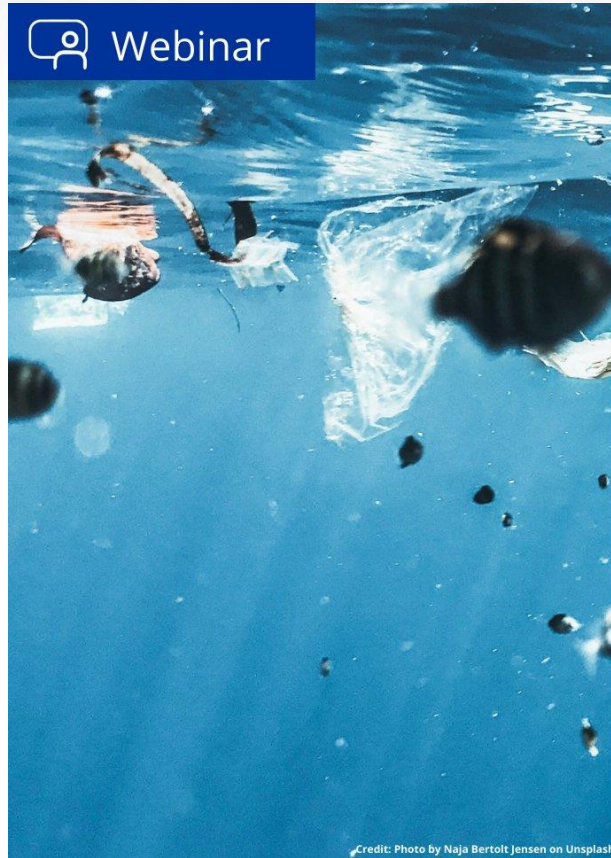
# Thank you!

[www.interregeurope.eu](http://www.interregeurope.eu)



interregeurope

# 3 June: Acting now: policy solutions to stop marine litter and plastic pollution



## Acting now: policy solutions to stop marine litter and plastic pollution

3 June • 14:00-15:30 CEST



**Laura Koerselman**  
Associate at SYSTEMIQ



**Isabelle Poitou**  
Director at MerTerre (CAPONLITTER)



**Astrid Severin**  
Moderator - Thematic Expert  
Environment and resource efficiency



**Eleni Tzagaraki**  
Head of Heraklion Civil Protection Regional  
Unit (CAPONLITTER)



**Sofia Savova**  
Expert at SZ REDA (PLASTEKO)

# 1-4 June: EU Green Week exhibition



# Thank you!

EU GREEN WEEK 2021 PARTNER EVENT

**ZERO** #EUGreenWeek  
**POLLUTION**  
for healthier people and planet

# Share your comments!



#EUGreenWeek