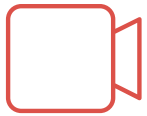
WEBINAR

Stories of use cases: Open data for the European Green Deal

17 March 2023

10.00 — 11.30 CET

Rules of the game



The webinar will be recorded

Please mute yourselves during the webinar

Please reserve 3 min after the webinar to help us improve by filling in our feedback form

For questions, please use the ClickMeeting chat.

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Agenda

10.00 – 10.15	Introduction to the series ‘Stories of use cases’ and the European Green Deal
10.15 – 10.45	Presentation of work by 3 use cases
10.45 – 11.25	Panel discussion with representatives from use cases
11.25 – 11.30	Wrap up and feedback

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Introduction

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Knowledge Management, data.europa.eu

Matthias Böck
Environ-Mate

Arnout Sabbe
Geofluxus

Nikola Damjanovic
MyBioEUBuddy

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Introducing ‘Stories of use cases’

What

Sharing experiences from the **Use Case Observatory**, **EU Datathon** and **data.europa.eu use case repository** to share how initiatives contribute to major global priorities

Why

Stories help grasp opportunities and showcase their potential and the impact of open data on innovative business opportunities

How

Delve into the green transition across Europe through 3 open-data-driven initiatives responding to environmental challenges

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europa
academy

A European Green Deal (europa.eu)

The European Green Deal is about **improving the well-being of people**.
No one will be left behind.

The EU will:

Become climate-neutral by 2050

Protect human life, animals and plants, by cutting pollution

Help companies become world leaders in clean products and technologies

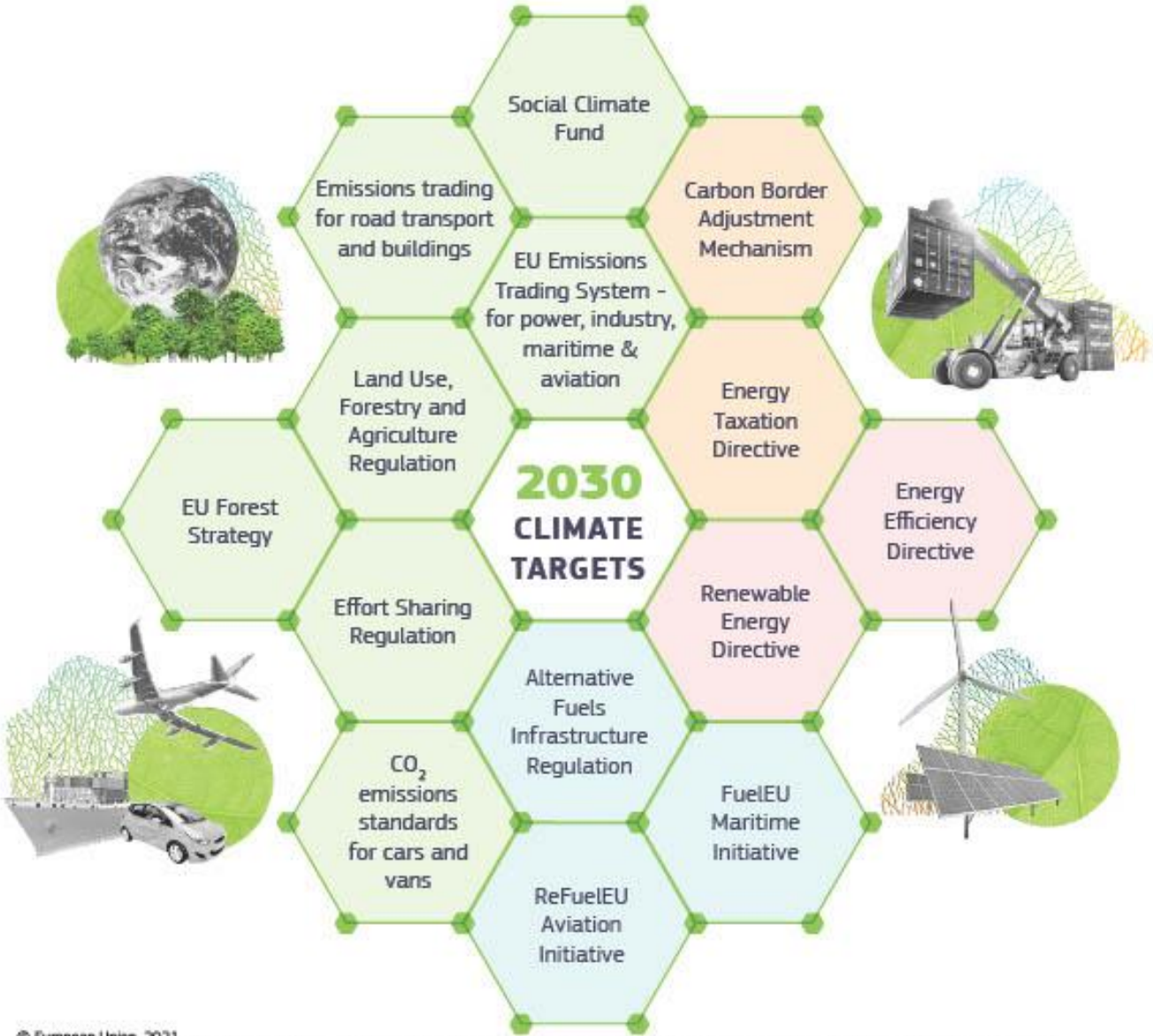
Help ensure a just and inclusive transition

WHAT WILL WE DO?

- **ENERGY** Decarbonise the energy sector
- **BUILDINGS** Renovate buildings, to help people cut their energy bills and energy use
- **INDUSTRY** Support industry to innovate and to become global leaders in the green economy
- **MOBILITY** Roll out cleaner, cheaper and healthier forms of private and public transport

DELIVERING THE EUROPEAN GREEN DEAL

THE DECISIVE DECADE



Our panellists

data.europa academy

Get to know: Environ-mate

Matthias Böck

data europa academy

FELDM

Marketing input for
business output.

Topic

Environ-mate

Focus

https://environ-mate.feld-m.de

Partner
EU

Author
FELD M

Date
16/03/2023

Why

In 2019, about half a year after Fridays for Future was started, we decided to participate in the EU Datathon and to find a solution that would help tackle climate change.

Climate is changing and we already feel the consequences

Overwhelming amount of sources of information

A new generation of politically active people

Educate pupils about climate change and means to act.

Who

We set out as a team of four and are/were part of FELD M.

FELD M is a Munich-based consultancy for digital products and strategies founded in 1999 with today 80 people.

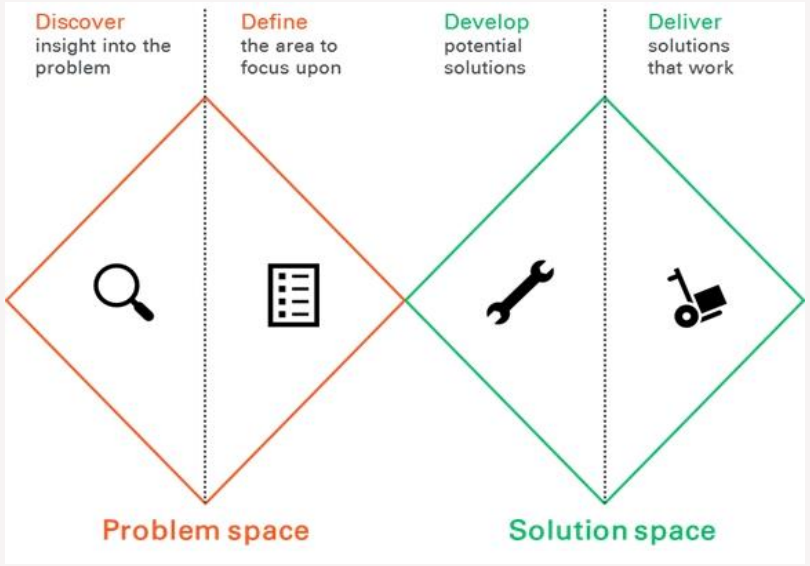
FELDM

Team:
1 x Data Architect
2 x Data Scientists
1 x Working Student

What

We followed a Design Thinking approach to come up with our idea and tried to integrate our target group as much as possible throughout the development. One time-consuming aspect, which we did not account for in the beginning, was the creation of content (explanations).

Approach

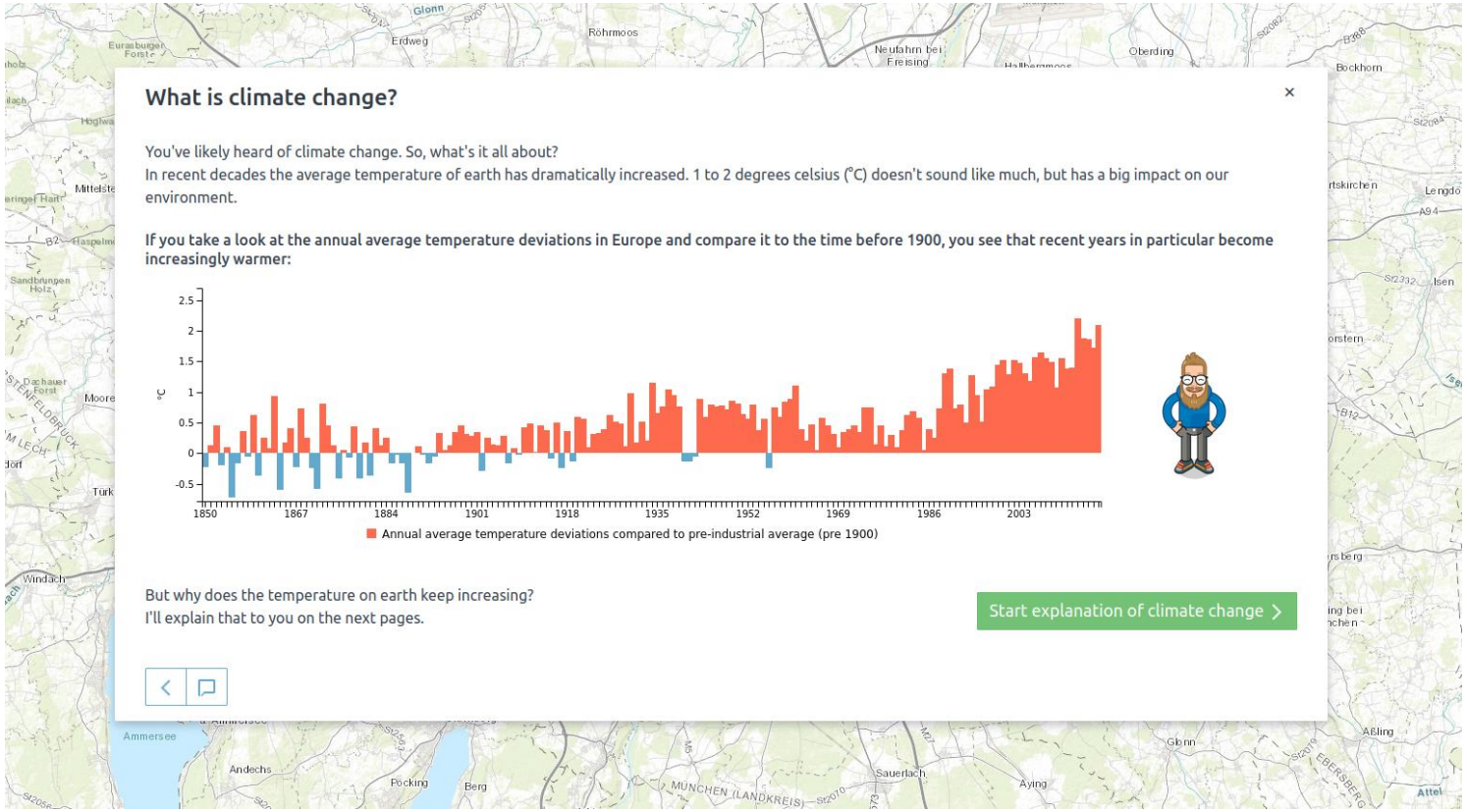


Our Vision

- Explain cause and effect of climate change to pupils (10-14 years old)
- Interactive and intuitive platform, which uses scientific data
- Learn and act principle
- Open-source platform to allow development of own stories (framework)

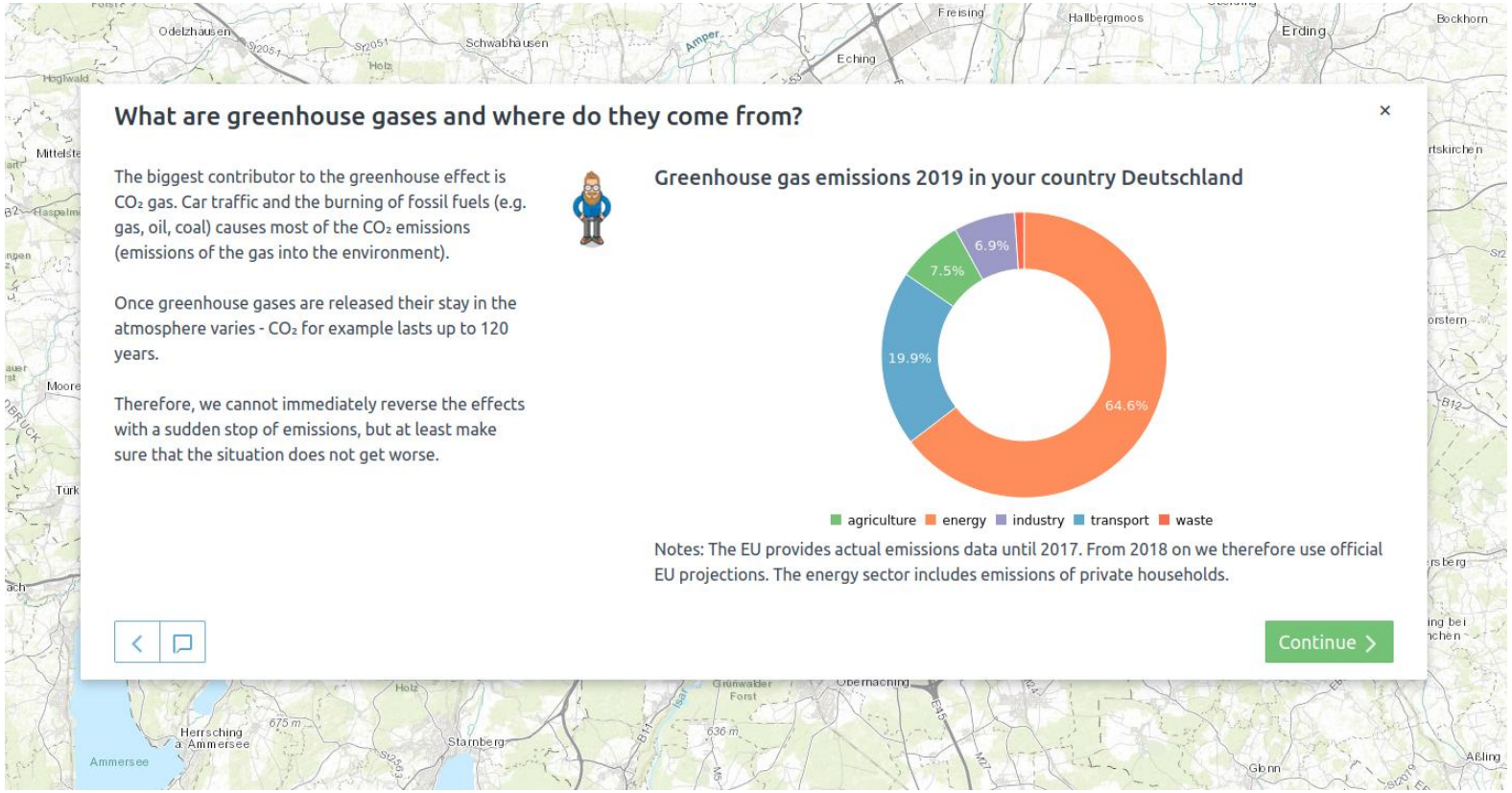
Be the platform to go to for recent and reliable information on climate change for your own country and the whole of Europe.

Demo – Intro



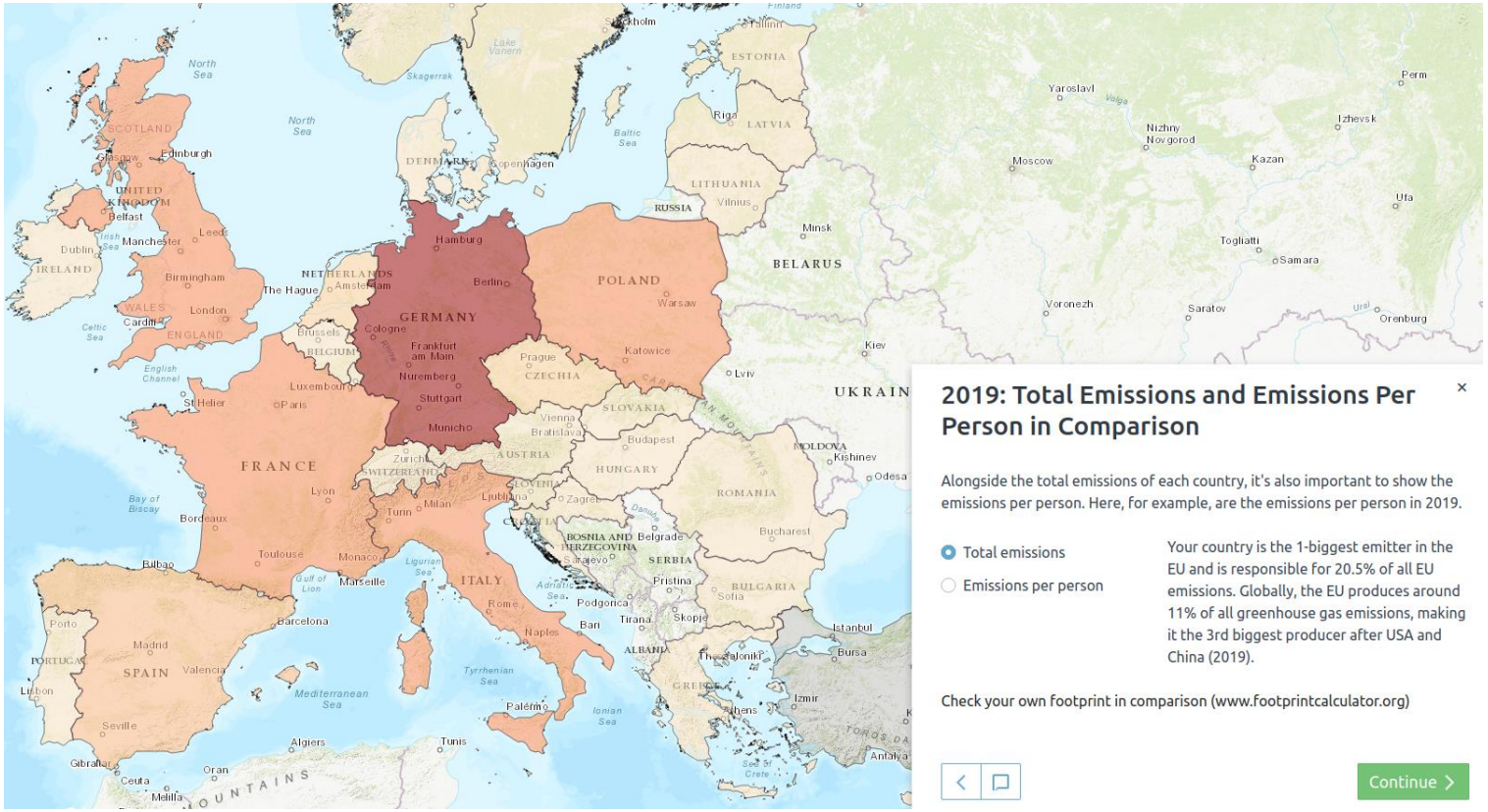
In the intro we briefly explained the effect of climate change and ist cause

Demo – Carbon Levels p. Industry



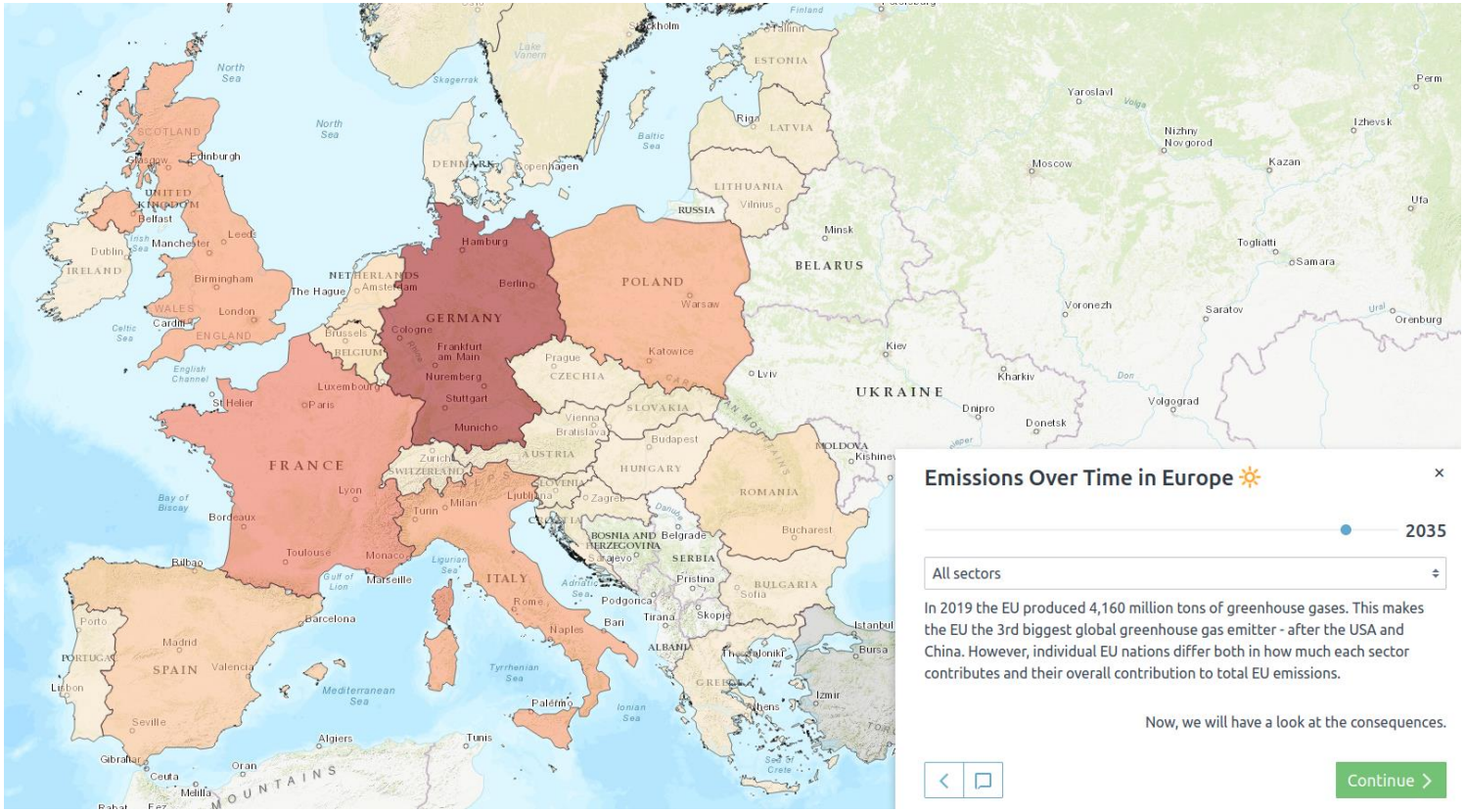
For your selected country we showed how the carbon emissions are distributed across different sectors

Demo – Carbon Levels p. Country



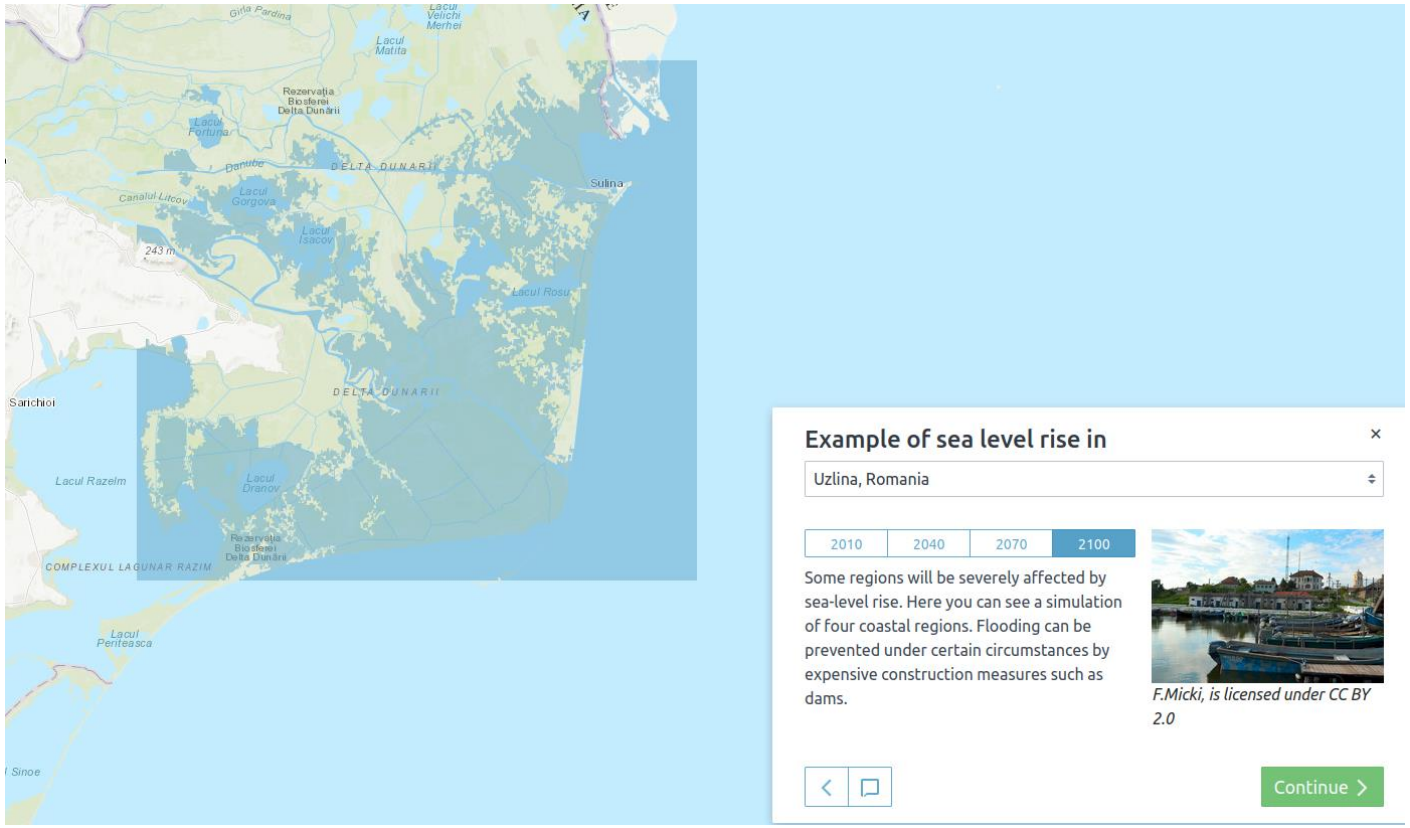
We also showed the emissions per country to put it in relation within an European context

Demo – Carbon Levels over Time



Using the projections from the EEA to show the development over time

Demo – Sea Level Rise



We showed for specific regions in Europe how the sea level rise might effect them.

Demo – Consequences/Actions

Giving some tips on how to act as an individuum and the consequences for our future if we do not act now

Learnings

- Also with a small team and a small amount of time we can contribute to global problems
- Finding a sustainability strategy for the solution is difficult and needs additonal time, effort and especially funding
- Open data is key for many initiatives and needs dedicated funding to be made accessible to the public
- Today we probably must less think about the younger generation since they are aware and are mostly educated on this topic but in the aging societies of Europe (median age above 44 years in 2022), politics are mostly driven by the older generations.

Thank you!

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FELDM

Get to know: Geofluxus

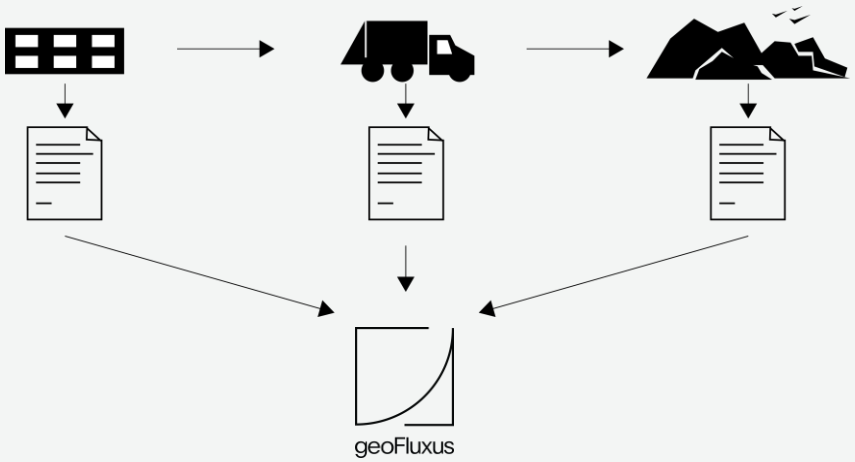
Arnout Sabbe

data europa academy

Linking open data for a less linear economy


TU Delft
AMS
AMSTERDAM INSTITUTE FOR
ADVANCED METROPOLITAN SOLUTIONS


Show stocks
Show actors
Show flows
Display materials
Cluster locations
Light/dark
Animate flows
lines only
dotted
Leaflet | © OpenStreetMap contributors, © CartoDB



+ data cleaning
+ geolocation
+ geospatial data enrichment
+ machine learning for the free text field interpretation
+ semantic reclassification of (waste) materials

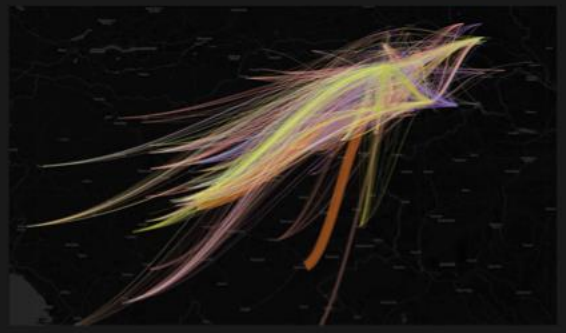
Poland

Italy

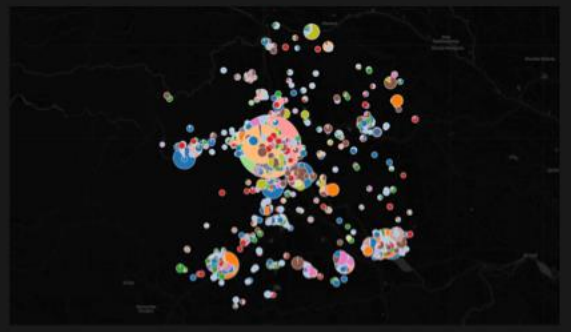
Hungary

Belgium

Spain



Slovenia



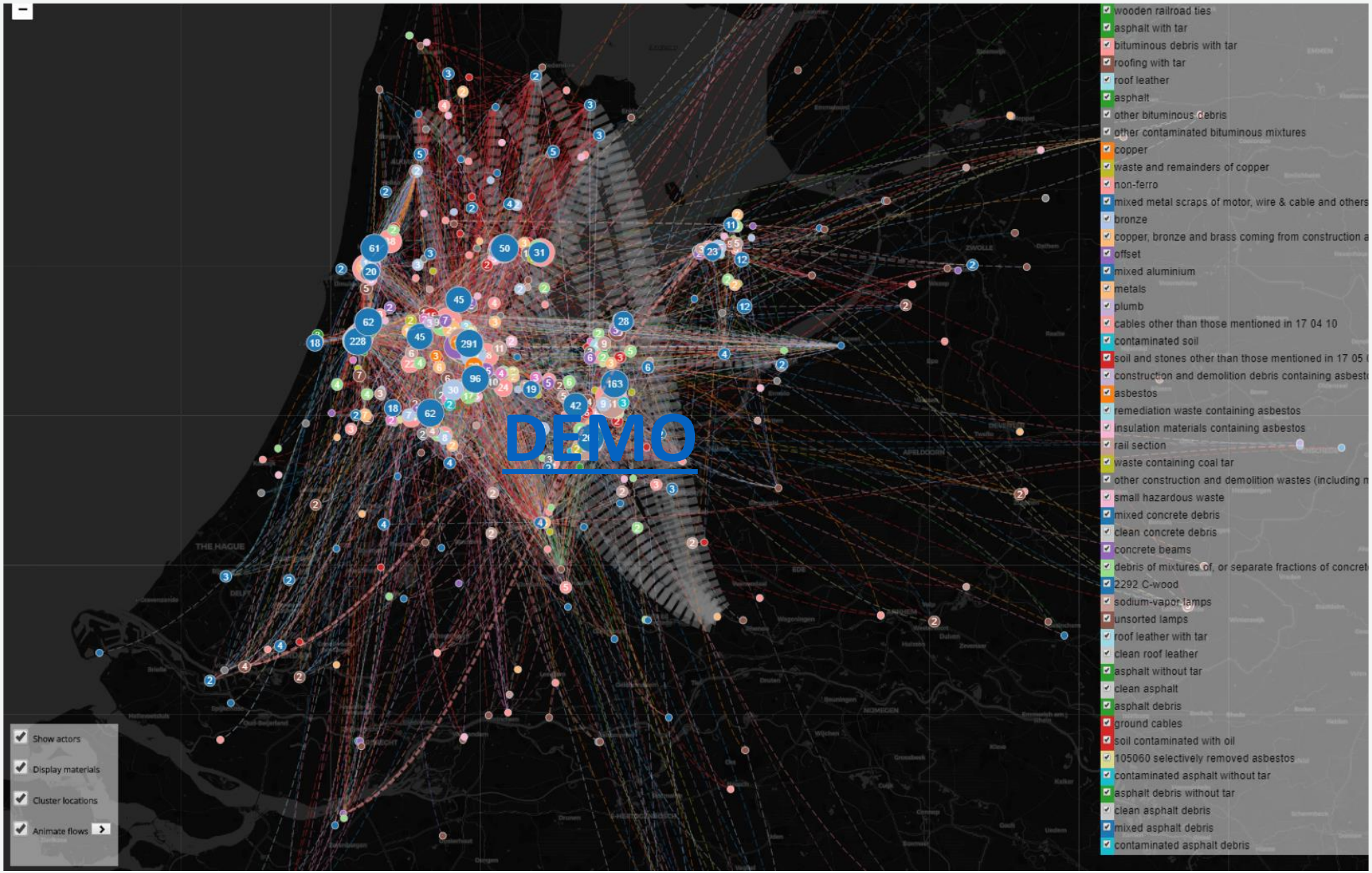
Germany

The Netherlands

TUDelft AMS

CINDERELA

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 688920
Grant Agreement No.: 688920


DEMO
wooden railroad ties
asphalt with tar
bituminous debris with tar
roofing with tar
roof leather
asphalt
other bituminous debris
other contaminated bituminous mixtures
copper
waste and remainders of copper
non-ferro
mixed metal scraps of motor, wire & cable and others
bronze
copper, bronze and brass coming from construction a
offset
mixed aluminium
metals
plumb
cables other than those mentioned in 17 04 10
contaminated soil
soil and stones other than those mentioned in 17 05
construction and demolition debris containing asbest
asbestos
remediation waste containing asbestos
insulation materials containing asbestos
rail section
waste containing coal tar
other construction and demolition wastes (including
small hazardous waste
mixed concrete debris
clean concrete debris
concrete beams
debris of mixtures of, or separate fractions of concret
2292 C-wood
sodium-vapor lamps
unsorted lamps
roof leather with tar
clean roof leather
asphalt without tar
clean asphalt
asphalt debris
ground cables
soil contaminated with oil
105060 selectively removed asbestos
contaminated asphalt without tar
asphalt debris without tar
clean asphalt debris
mixed asphalt debris
contaminated asphalt debris
Show actors
Display materials
Cluster locations
Animate flows

89%

of all waste comes from companies.

Only

11%

is household waste

[Metropoolregio Amsterdam, 2019]

60%

of all waste can be processed in a better way.

[Metropoolregio Amsterdam, 2019]

70%

of all waste is produced by only

7%

of all companies.

[Metropoolregio Amsterdam, 2019]

Yearly more than

9 million kms

are travelled to transport waste from Amsterdam to processors around the country.

[Metropoolregio Amsterdam, 2019]

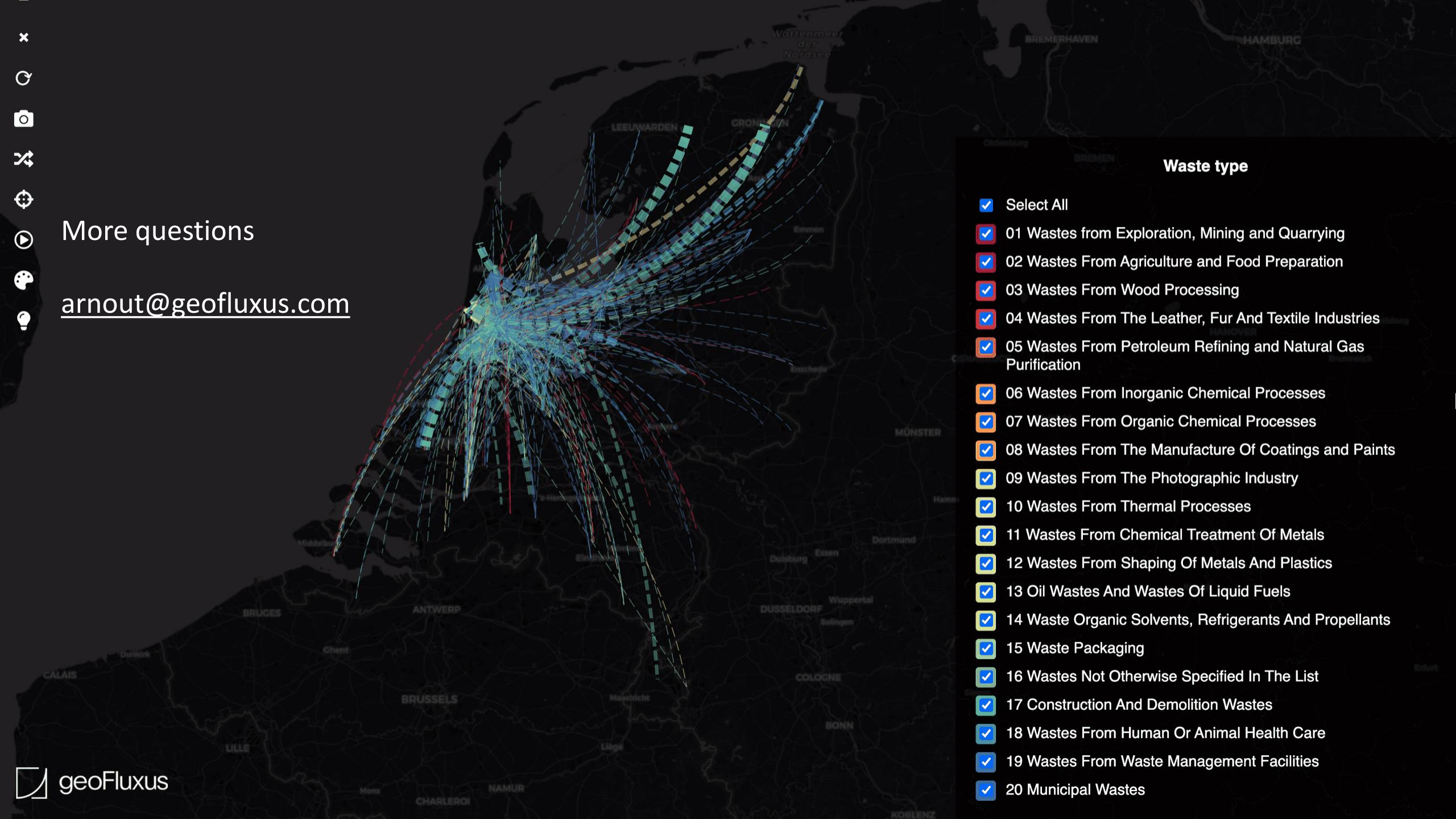

Waste
Economic activities
Product
Raw material


RUSSIA
CANADA
UNITED STATES
CHINA
MEXICO
CUBA
GUATEMALA
PANAMA
COLOMBIA
ECUADOR
PERU
BRAZIL
BOLIVIA
PARAGUAY
URUGUAY
ARGENTINA
Atlantic Ocean
TUNISIA
ALGERIA
LIBYA
EGYPT
MAURITANIA
SENEGAL
MALI
NIGER
CHAD
SUDAN
ERITREA
YEMEN
BURKINA FASO
SIERRA LEONE
LIBERIA
GHANA
NIGERIA
CAMEROON
SOUTH SUDAN
ETHIOPIA
KENYA
GABON
DEMOCRATIC REPUBLIC OF THE CONGO
ANGOLA
ZAMBIA
ZIMBABWE
MADAGASCAR
BOTSWANA
SOUTH AFRICA
Indian Ocean
PAPUA NEW GUINEA
AUSTRALIA
Leaflet
CartoDB

+ “Improving security of supply of products, components and materials”

+ “Reducing the environmental impact of material use”

+ “Developing forward-looking European economy”


More questions
arnout@geofluxus.com
Waste type
Select All
01 Wastes from Exploration, Mining and Quarrying
02 Wastes From Agriculture and Food Preparation
03 Wastes From Wood Processing
04 Wastes From The Leather, Fur And Textile Industries
05 Wastes From Petroleum Refining and Natural Gas Purification
06 Wastes From Inorganic Chemical Processes
07 Wastes From Organic Chemical Processes
08 Wastes From The Manufacture Of Coatings and Paints
09 Wastes From The Photographic Industry
10 Wastes From Thermal Processes
11 Wastes From Chemical Treatment Of Metals
12 Wastes From Shaping Of Metals And Plastics
13 Oil Wastes And Wastes Of Liquid Fuels
14 Waste Organic Solvents, Refrigerants And Propellants
15 Waste Packaging
16 Wastes Not Otherwise Specified In The List
17 Construction And Demolition Wastes
18 Wastes From Human Or Animal Health Care
19 Wastes From Waste Management Facilities
20 Municipal Wastes
geoFluxus

Get to know: MyBioEUBuddy

Nikola Damjanovic

data europa academy

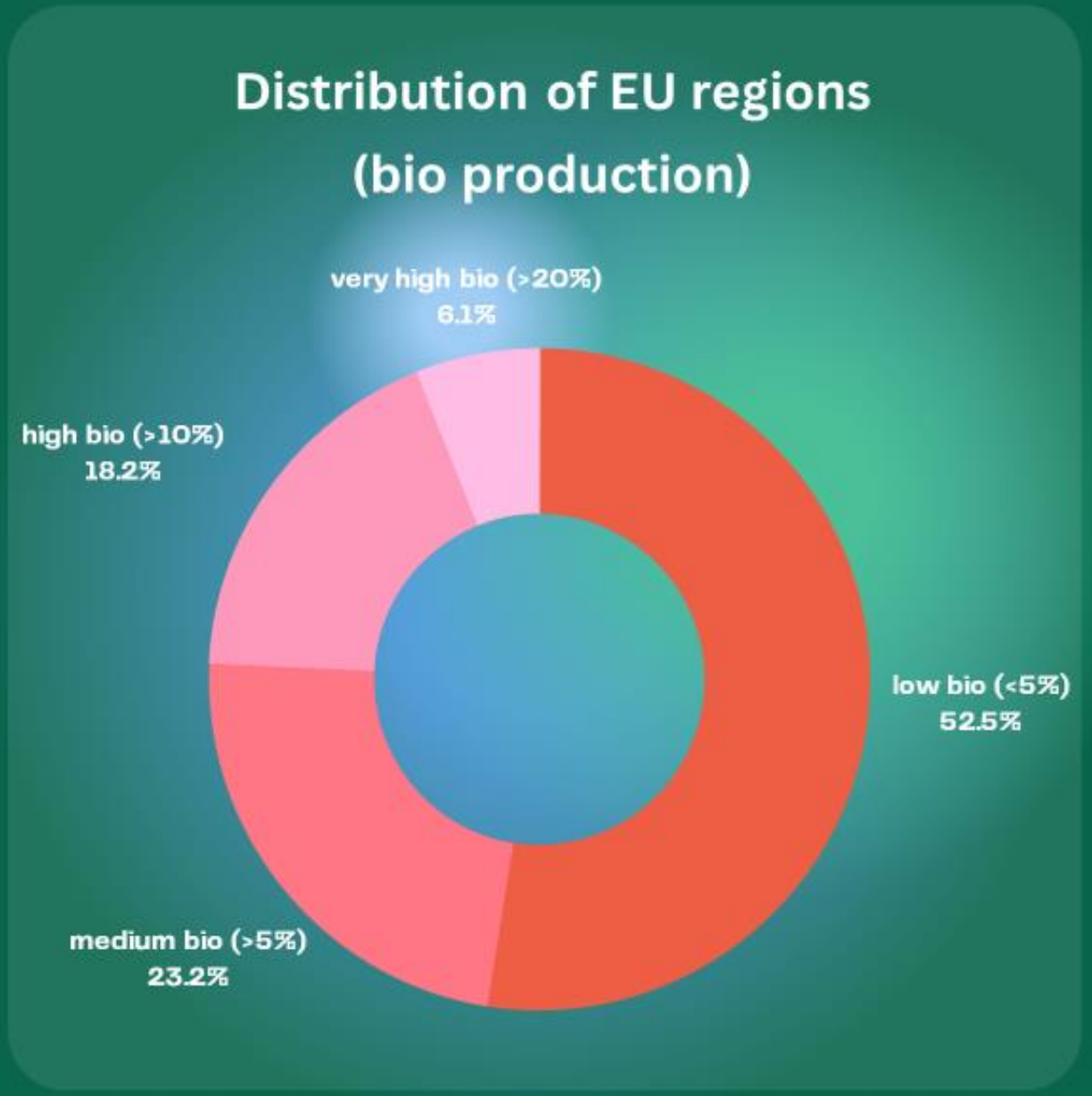
My Bio
EU BUDDY

Discover! Apply! Share!

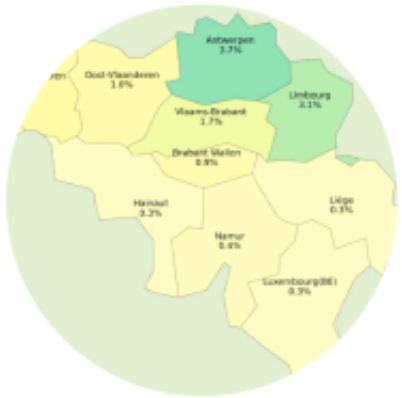
Problem

The average EU bio production is 7.5%.

1	The Farm to Fork program aims to increase bio production to 25% by 2030.
2	y/y growing demand for healthy food.



Proposed Solution



Interactive vizualizations

Dashboards on EU regions based on geo, agro, climate and bio indicators

Clasterization ML models

unsupervised and supervised ML models for identifying clusters

Data-driven recommendation

know-how of "buddy" regions (projects, initiatives, practices...)

Research & Methodology

How do we determine cluster for each region?

- Unsupervised Machine Learning model (clustering) of EU regions.
- Supervised machine learning model for classification of non-EU regions (EU candidate countries).

How do we determine bio-buddy?

- Recommendations are based on the properties of “Very High” and “High Bio” regions from the same cluster (qualitative analysis and benchmarking) .

Tech

PER CATEGORY

Resource Page

Main Data Sources:

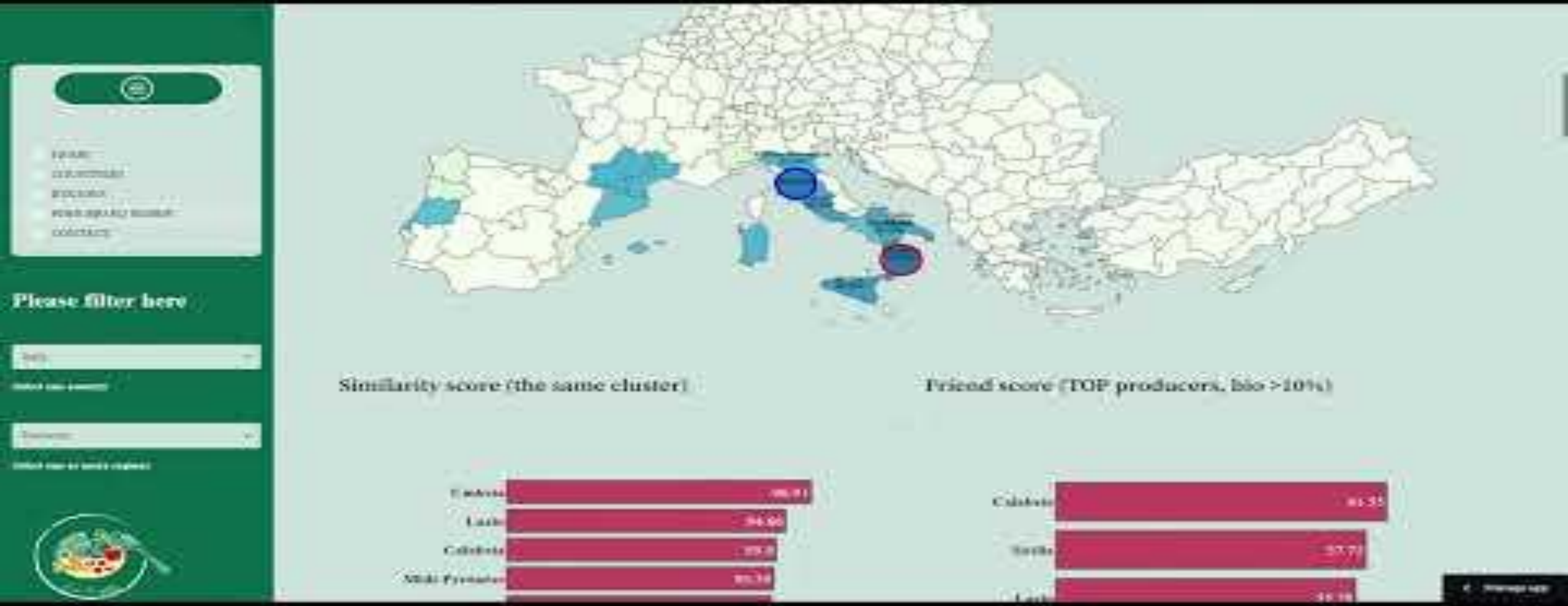
Short analysis on clusters

Climate indicators in January, April, July and October:

Temperature by clusters (°C)

Humidity by clusters

Number of rainy days by clusters


Please filter here
Similarity score (the same cluster)
Friend score (TOP producers, bio >10%)

Key Challenges

DATA COLLECTION ACTIVITIES ON EU LEVEL COVER ONLY PART OF OUR DATA REQUIREMENTS

LOW LEVEL OF DATA GOVERNANCE IN EU CANDIDATE COUNTRIES

DATA AVAILABILITY ON REGIONAL LEVEL

UNIFIED BIO PROJECTS DATA BASE NOT EXISTING

NEXT STEPS

1

IMPROVE QUALITY OF RECOMMEND.

2

UI/UX IMPROVEMENTS

3

CROSSING DATA WITH **EU FUNDINGS FOR BIO-BASED INNOVATION AND BIOECONOMY**

4

STRUCTURING LIST OF BIO PROJECTS

5

COLLABORATION WITH REGIONAL AND LOCAL GOVERNMENTS AND BIOLOGICAL INSTITUTES

Thank You!

@mybioeubuddy

> Let food be thy medicine and medicine be thy food.
>
> HIPPOCRATES

Panel discussion

Leave your questions in the chat!

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The panel discussion starts with a few structured questions

1 How does your initiative make an impact on environmental challenges?

2 What open data do you use for your initiative?

3 How do you gather your necessary data and what are the (quality) standards you maintain?

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The panel discussion starts with a few structured questions

4 What challenges have you faced when founding your initiative?

5 What tips do you have for the open data community to start their own initiatives?

6 Questions from the audience

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Stay up-to-date on our 2023 activities!

- **Webinar series** dedicated to the **Open Data Maturity dimensions** – *coming soon*
- **Webinar series** 'Stories of use cases' continued – *coming soon*
- Ad-hoc **activities on data spaces and open data** – *coming soon*

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Please provide your feedback!

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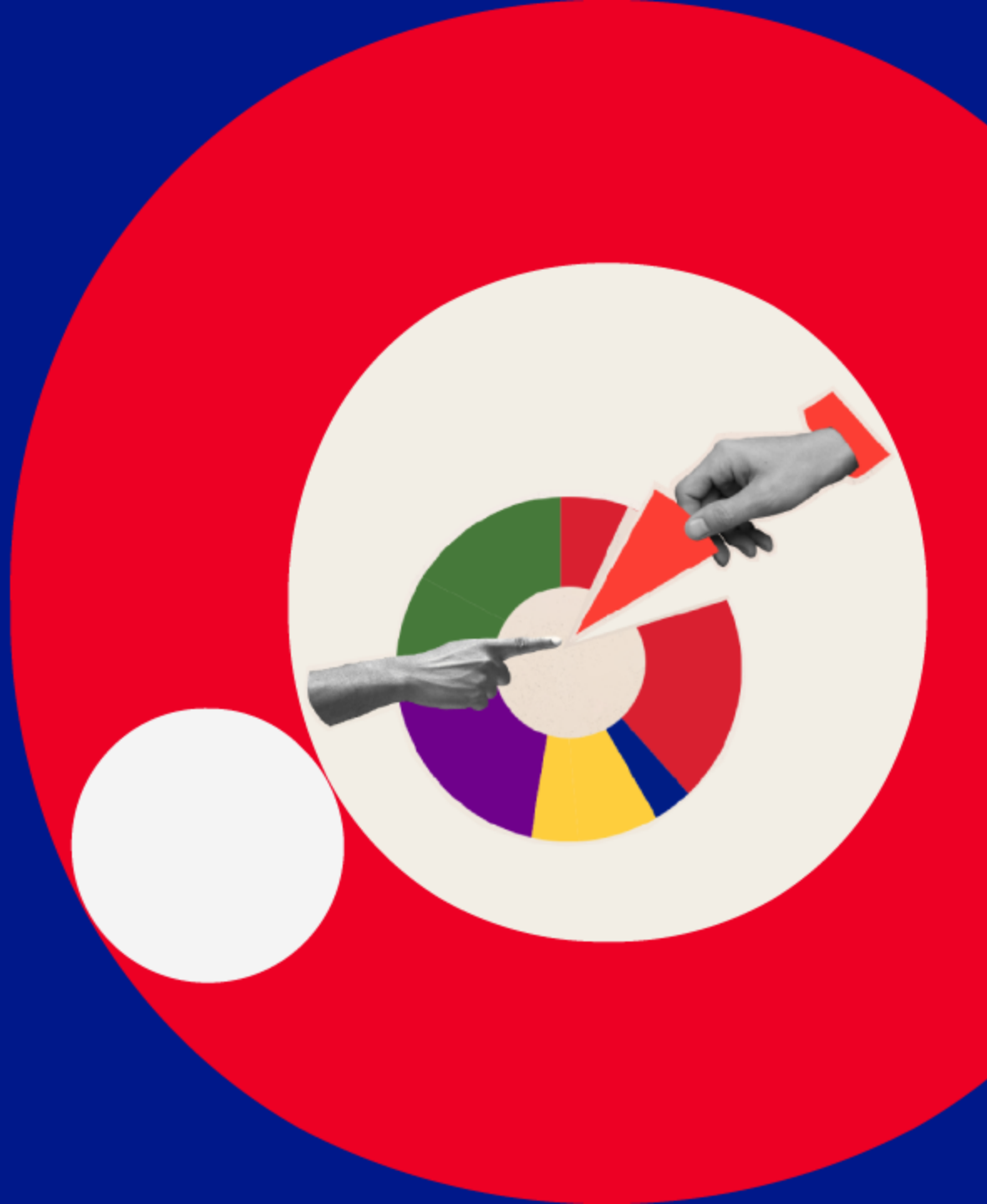
Thank you



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