

# CONFERENCE

on the Evaluation of EU Cohesion Policy

# Shaping Transitions with Evidence

**16-17 September 2021** Porto, Portugal

# **Session 4:**

How can evidence-based policy keep up with the fast-changing world?

Thursday 16 September 2021 14:30 – 15:45 GMT+1

> Regional and Urban Policy

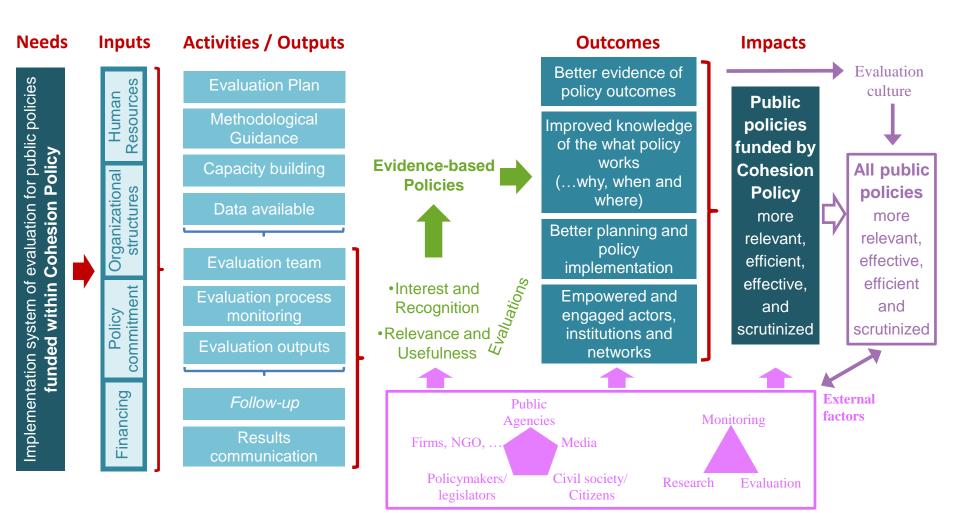


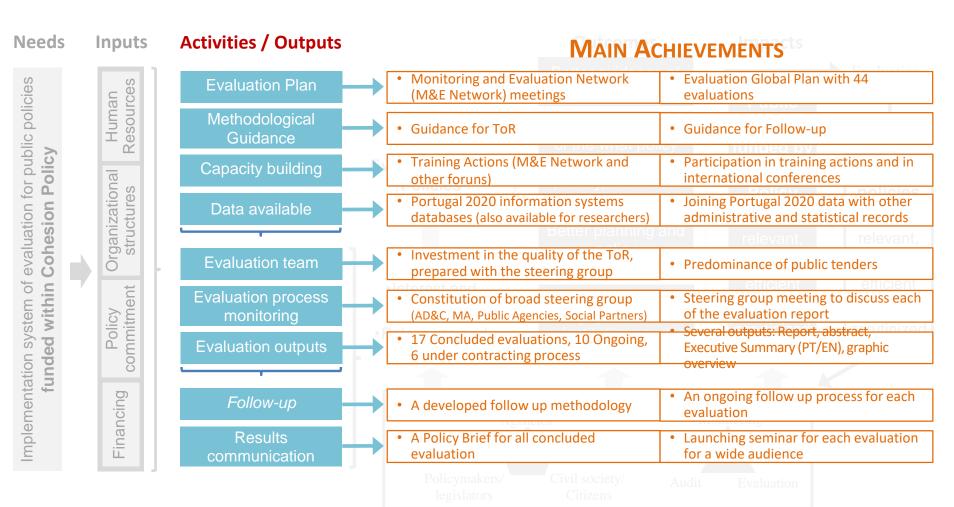
**Moderator: Jennifer Baker** 

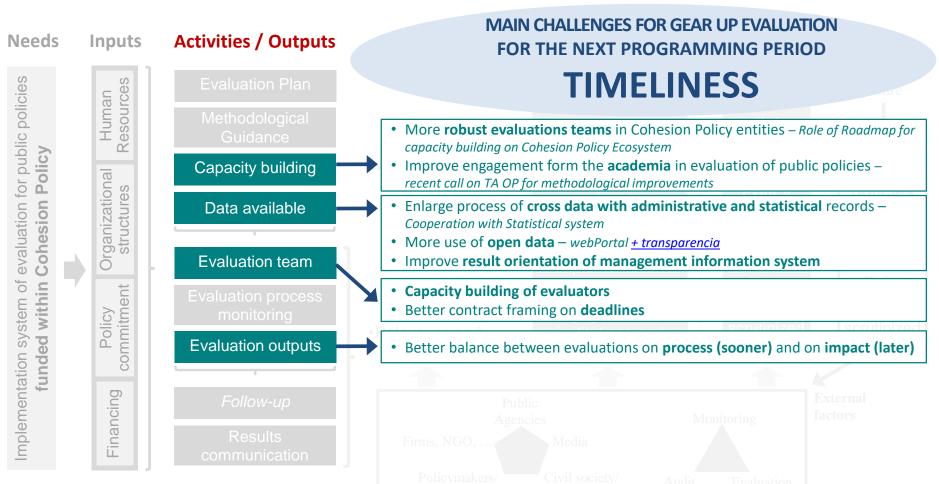
**Chair: Peter Berkowitz**, Policy Director, Directorate-General for Regional and Urban Policy, European Commission

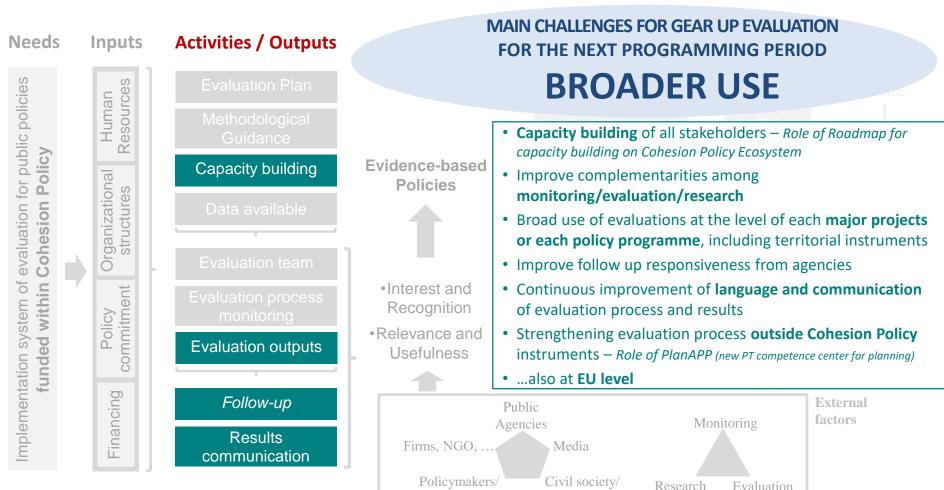
# **Speakers:**

- Duarte Rodrigues, Vice-President, Agency for Development and Cohesion, Portugal
- Riccardo Crescenzi, Professor of Economic Geography, London School of Economics
- Julia Bachtrögler-Unger, Economist, Austrian Institute of Economic Research
- · Katerina Mantouvalou, Director, Europe Policy, ICF
- Jos Vaessen, Adviser, Independent Evaluation Group, World Bank
- Dominika Rogalińska, Director of the Department of Spatial and Environmental Research, Central Statistical Office, Poland









legislators

Citizens





9<sup>th</sup> Conference on the Evaluation of Cohesion Policy Shaping Transition with Evidence 16<sup>th</sup> September 2021

# How can evidence-based policy keep up with the fast-changing world?



Riccardo Crescenzi London School of Economics

# The 'new' world

Marked heterogeneity of Covid-19 impacts across sectors, GVC segments and regions within countries

New geo-political fragmentation, stagnating FDI flows, reorganisation of GVCs

New forms of innovation driving response to Covid-19 and recovery (e.g. Work-from-Home and digital transition; net zero targets etc.)

**Unprecedented shift in public policy paradigm** and resources mobilised for recovery

New patterns of social and territorial inequalities

# How to keep up?

Learn from Cohesion Policy for **inclusive** territorial impacts

 Look at what works (and where) in Cohesion Policy to make impacts more inclusive

Learn from Cohesion Policy for **timely** Recovery by informing and shaping **other EU policies** 

 Learn from Cohesion Policy as a laboratory for other policies (e.g. Recovery Fund)

Learn from **other policies** for Cohesion Policy to **deal successfully with** 'new' challenges

 Take inspiration from 'outside' Cohesion Policy in order to keep up with a fast changing world (e.g. Global Value Chains and internationalisation)

# **Cohesion Policy for inclusive impacts**

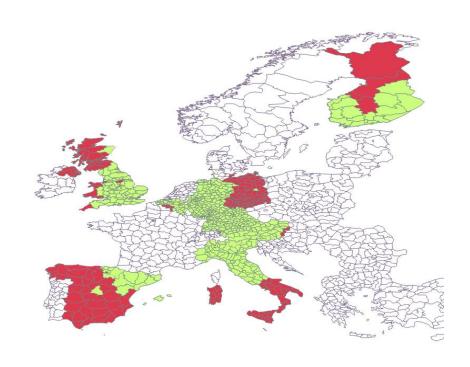
**New Challenge** - Cohesion Policy will operate (together with Next Generation EU) in regions affected by a major pandemic shock. How to build 'resilience' in all regions?

**Evaluation Methods & Data** - Spatial Regression Discontinuity Design (RDD) estimates distinct but fully comparable regional impacts for each individual Member State before the Crisis and during Recovery

**Evidence** - Positive EU-wide impact on regional employment that survived the Great Recession and supported less developed regions in the recovery period

Regions in Germany and the UK 'kept' their bonus after the Crisis vs. regions in Italy and Spain that 'lost' their advantage with the Great Recession

**Lessons** – Addressing institutional and governance conditions should be a priority in order to 'build'



Treated NUTS-3 regions (Objective 1 regions in 2000-2006) in red. Counterfactual NUTS-3 regions in green

resilience Crescenzi R. and Giua M. "One or many Cohesion Policies of the European Union? On the differential economic impacts of Cohesion Policy across Member States", Regional Studies, 2020, 54(1), 10–20

# **Cohesion Policy for timely Recovery**

|                 |   | 'Traditional'<br>Projects | Digital &<br>Green<br>Projects | Total   |
|-----------------|---|---------------------------|--------------------------------|---------|
| On time         | # | 249,736                   | 9,945                          | 259,681 |
|                 | % | 88.24                     | 69.83                          | 87.36   |
| Light delay     | # | 15,780                    | 1,253                          | 17,033  |
|                 | % | 5.58                      | 8.80                           | 5.73    |
| Severe<br>delay | # | 17,494                    | 3,044                          | 20,538  |
| иелау           | % | 6.18                      | 21.37                          | 6.91    |
| Total           | # | 283,010                   | 14,242                         | 297,252 |
|                 | % | 100.00                    | 100.00                         | 100.00  |

'Digital and Green' projects by completion status – 2014-2020 Cohesion Policy - Italy

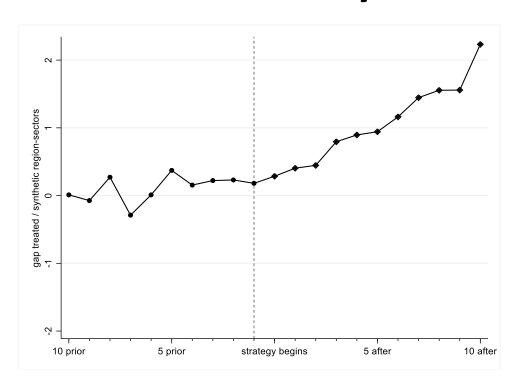
**New Challenge** - Cohesion Policy will impact the same territories as the Recovery Fund. How to support the digital and green transitions in all regions for timely impacts?

**Evaluation Methods & Data** - Textual analysis at the project level combined with regression methods shed light on what correlates with timely implementation.

**Evidence** - Digital and Green projects are inherently more prone to implementation delays in particular in 'weaker' regions

**Lessons** - The direct involvement of citizens through participatory procedures led by central governments can significantly cut delays.

# **Cohesion Policy for Global Value Chains**



**Impact of Investment Promotion Agencies in Europe**Treated/synthetic region-sectors and estimated gap, 2003-2017 (less developed regions)

**New Challenge** - In the 'new world order' attracting and embedding GVCs through FDI is central to regional development and Cohesion Policy

**Evaluation Methods & Data** - Combination of innovative survey on FDI promotion covering virtually all EU regions and diff-in-diff and synthetic control methods.

**Evidence** - Regional Investment Promotion Agencies are **highly effective in attracting knowledge intensive investments to less developed regions** (+71% vs. non treated sector/regions)

Lessons – Investment eco-systems are built at the local level. Cohesion Policy can effectively support regions in attracting and embedding FDI





# Riccardo Crescenzi

**London School of Economics** 

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**Linked** in. linkedin.com/in/riccardocrescenzi @crescenzi\_r

# **Key References**

Crescenzi R. and Giua M. "One or many Cohesion Policies of the European Union? On the differential economic impacts of Cohesion Policy across Member States", Regional Studies, 254:1, 10-20, 2020

Crescenzi R., Di Cataldo M. and Giua M. "FDI inflows in Europe: does investment promotion work?" *Journal of International Economics*, in press, 2021

Read also our LSE GILD Blog column: <a href="https://blogs.lse.ac.uk/gild/2019/02/21/what-policies-work-for-fdi/">https://blogs.lse.ac.uk/gild/2019/02/21/what-policies-work-for-fdi/</a>

Crescenzi R., Giua M. and Sonzogno G. "<u>Mind the Covid-19 crisis. An evidence-based</u> <u>implementation of Next Generation EU</u>", *Journal of Policy Modelling*, 43(2), 278-297, 2021

— Read also our EUROPP column: <a href="https://blogs.lse.ac.uk/europpblog/2021/02/15/next-generation-eu-how-the-eus-covid-19-recovery-fund-should-be-implemented/">https://blogs.lse.ac.uk/europpblog/2021/02/15/next-generation-eu-how-the-eus-covid-19-recovery-fund-should-be-implemented/</a>



# Evaluating EU Cohesion Policy Using Satellite data

Project on behalf of Bertelsmann Stiftung, joint work with ifo Institute and the German Aerospace Center

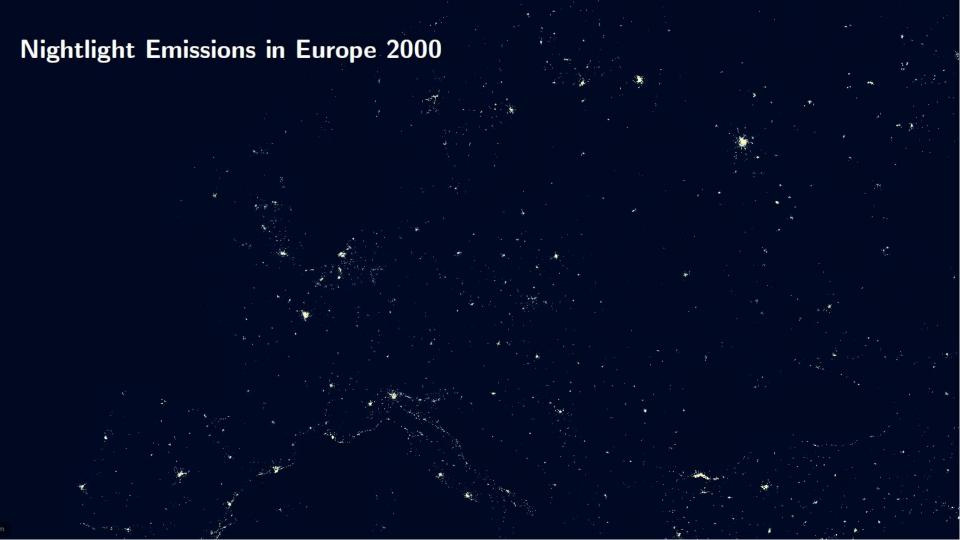
Julia Bachtrögler-Unger, Mathias Dolls, Paul Schüle, Hannes Taubenböck, Matthias Weigand

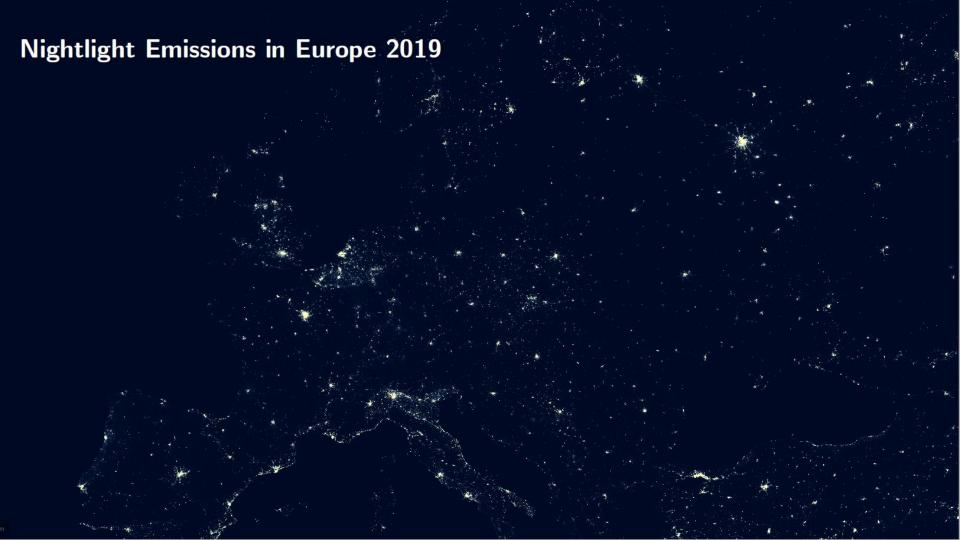




Bertelsmann Stiftung







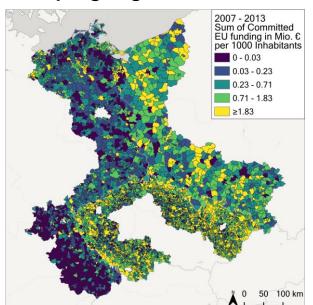
# Motivation

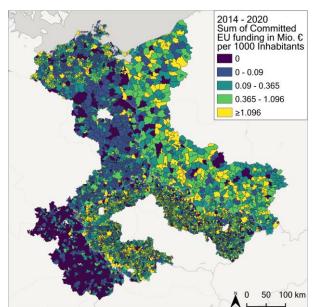
Map data © 2021 CNES/Airbus, Google.



# EU Cohesion Policy and the Development of Nightlight Emissions

- Pilot region: municipalities in border region of CZ, DE and PL
- Does EU cohesion policy affect the local development of economic activity, proxied by nightlight emissions?













# Julia Bachtrögler-Unger

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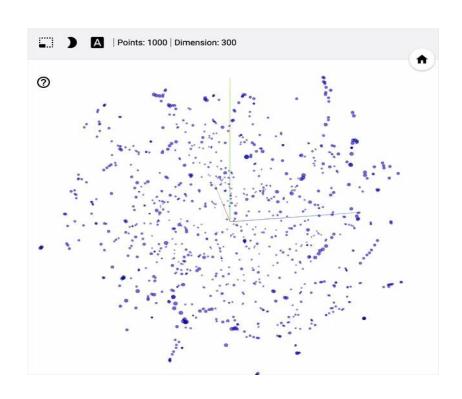


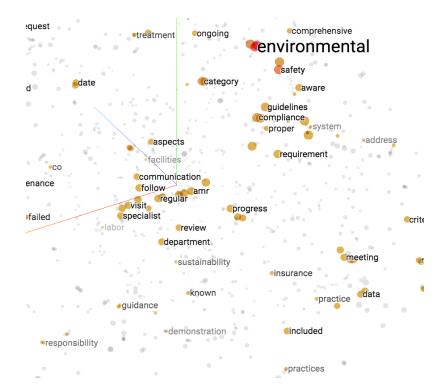
# Dealing with complexity in evaluation through the use of data science applications

Shaping Transitions with Evidence
The 9th Conference on the Evaluation of EU Cohesion Policy

Jos Vaessen, PhD September 16, 2021

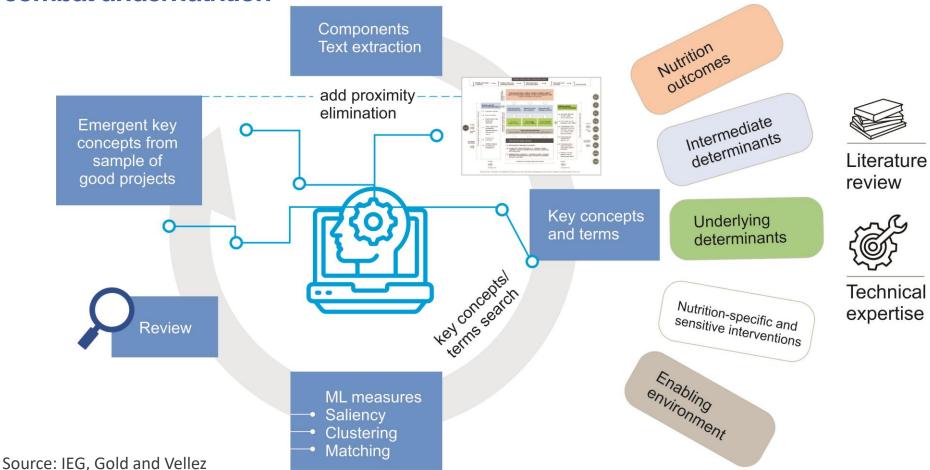
# 1. Evaluators as synthesizers: example private sector development projects evaluative synthesis





Source: IEG, Bravo

2. Identifying the evaluand: example global evaluation WBG support to combat undernutrition



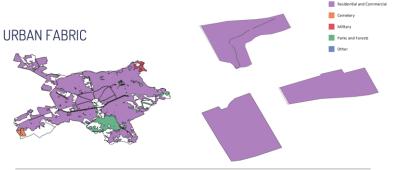
# 3. Using big data for evaluative analysis: example geospatial data Tirana

234,165

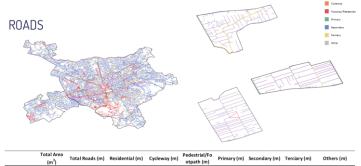
2,248

757

(urban development)



|         | Total Area | Urban Fabric | Residential and              | Parks and                 | - 2                        |                            |                          |  |
|---------|------------|--------------|------------------------------|---------------------------|----------------------------|----------------------------|--------------------------|--|
|         | (m²)       | (m²)         | Commercial (m <sup>2</sup> ) | Forests (m <sup>2</sup> ) | Cemetery (m <sup>2</sup> ) | Military (m <sup>-</sup> ) | Others (m <sup>2</sup> ) |  |
| Tirana  | 39,998,805 | 31,763,400   | 28,379,611                   | 2,729,500                 | 232,704                    | 323,568                    | 98,048                   |  |
| Bathore | 454,457    | 452,127      | 448,366                      | 3,761                     | 0                          | 0                          | 0                        |  |
| Zone 2  | 298,176    | 295,008      | 295,008                      | 0                         | 0                          | 0                          | 0                        |  |
| Zone 3  | 589,747    | 589,747      | 589,747                      | 0                         | 0                          | 0                          | 0                        |  |



239

753

2.903

470,524

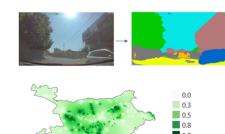
5.076

5.584

12.114

7.536

Streetscape Images



- Description: high resolution street-level imagery.
- Source: GoogleEarth, Mapillary, others.
  - Data type: images.
- Spatial coverage: worldwide
- Temporal coverage: mostly available for recent years. Timeseries analysis with this data might prove difficult.
- Particularly useful for in-depth analysis of smaller geographic areas (e.g. cities) in the context of urban development projects. Different techniques allow to process a large amount of images in a short amount of time and extract its relevant features (such as roads, cars, buildings, sky, etc.). These features can be geocoded and mapped.

Example: Semantic segmentation of a street-level image from Tirana (Albania). The information extracted from 800+ images was used to derive a map showing the level of greenness across different parts of the city.



|         | Total Area | <b>Buildings Area</b> | Number of | Min. Building | Avg. Building | Max. Building |  |
|---------|------------|-----------------------|-----------|---------------|---------------|---------------|--|
|         | (m²)       | (m <sup>2</sup> )     | Buildings | Area (m²)     | Area (m²)     | Area (m²)     |  |
| Tirana  | 39,998,805 | 3,552,670.00          | 12,281    | 1.7           | 289           | 18,826        |  |
| Bathore | 454,457    | 96,325.80             | 762       | 2.3           | 126           | 1,174         |  |
| Zone 2  | 298,176    | 55,012.30             | 452       | 0.2           | 122           | 19,959        |  |
| Zone 3  | 589.747    | 96.860.10             | 762       | 4.0           | 127           | 1.073         |  |



GREENNESS AND SKYVIEW



- Greenness; areas in central parts of the city have a large concentration of green areas due to the existence of parks and a larger number of trees along main trees. Areas in the periphery of the city with a high concentration of green areas mostly correspond to forests
- Skyview: areas in the periphery of the city have the most sky view (around 50%) due to low development
- Maps were produced applying IDW interpolation algorithm.

Source: IEG, Ziulu

454,457

# Thank you!

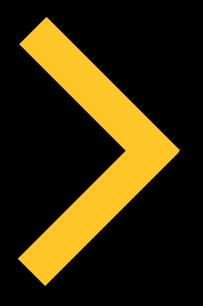




# 9th Conference on the Evaluation of EU Cohesion Policy

16-17 September 2021





# Evaluation cornerstones that should be maintained



# Evaluation of the Electrification of Heat Demonstration Project



# Online Theory of change (ToC) development and validation workshop

# Managed to:

- ✓ Review, amend and sign off the model
- ✓ Demonstrate and discuss the draft model and make changes in real-time

# Missed:

× Anything!

Assessment of the impact 'stay at home orders' had on women during the Covid-19 pandemic



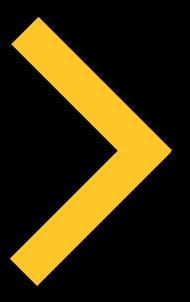
Data analytics (Google trends and website traffic data) showed a sharp increase in searches of the term 'domestic violence' and visits to the websites of organisations assisting victims during the pandemic.

# Managed to:

✓ Solid evidence about the immediate negative impact of a policy on a specific group

# Missed:

Qualitative insights about the needs of victims and how to assist them



# Evaluation cornerstones revisited



# Thank you!

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### **About ICF**

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# #EU AND ME

Films | Banners | GIFs







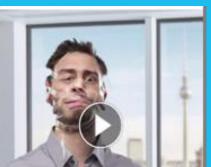












# #EU M&E

## People reached . . .

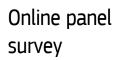
were **interested and inspired** by
thecampaign messages

were **better informed** about the contributions of the EU to their daily lives

take action to
search for more
information about the
campaign topics

have experienced a positive influence on their **trust in the EU** 







Focus group



On the spot data collection



Campaign hub traffic metrics



Analysing the website traffic we collected a wealth of information about the journey of the those reached by campaign material.

We learned whether...

the campaign was successfully launched

individual interest in the campaign was **continuously** high individuals
searched other
sources after
visiting the campaign
hub

they interacted with the campaign content, and, if so, when and how

However, website traffic can only say part of the story for the evaluation...

The full scale and quality of interaction could not be assessed through the campaign hub. Surveys with 36,000 respondents, individual interviews and focus groups shed light into it.



# **Success factors**



# Thank you!

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### **About ICF**

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# Appendix

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### **About ICF**

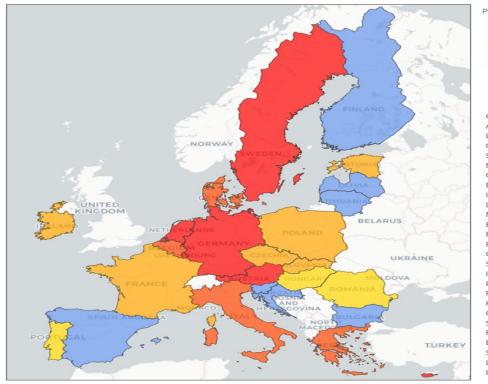
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# Assessment of the impact 'stay at home orders' had on women during the Covid-19 pandemic

# Google trends

Google searches for domestic violence and related terms 2016 - 2021 within the EU 27

Percentage change from the pre-pandemic mean search rate since the onset of the Covid-19 pandemic (01 March 2020)





Cyprus: 71% Austria: 67% Luxembourg: 59% Germany: 54% Sweden: 54% Netherlands: 52% Greece: 49% Belgium: 49% Italy: 37% Denmark: 36% Malta: 26% Estonia: 17% France: 17% Poland: 13% Czechia: 12% Slovakia: 10% Ireland: 10% Portugal: 7% Romania: 3% Hungary: 1% Croatia: 0% Spain: -1% Finland: -5% Bulgaria: -15% Slovenia: -18% Latvia: -23% Lithuania: -30%

# **Assessment of** the impact 'stay at home orders' had on women during the Covid-19 pandemic

# Website traffic data

# Solidarité Femmes 11,581 organic visitors per month Organic Monthly Traffic









### Fundación Ana Bella



### Women's Aid



### Kvinnofridslinjen



### Associazione Nazionale D.i.R.e contro la Violenza





## **EoH Project Draft ToC**

### **Electrification of Heat Project**

### Theory of Change Workshop

26 June | 13:00 - 16:30

### Facilitator:

Avril Blamey, supported by Jen Ku

### Invite List:

Andrew Jarvis, James Leather & colleagues at ICF Adam Cowland & colleagues at BEIS & ESC

### Some tech introductions...

MURAL - VIRTUAL WHITEBOARD

The tool we are operating on is called Mural. It's like a whiteboard but virtual! Avril and Jen will lead you through the experience today.

CAMERA ON! SPEAKER ON!

To get a great session, we kindly ask everyone to try to turn off their notifications if possible this afternoon.

DISCUSS AND SPEAK UP!

Like in an office setting, we need contribution! While you won't be using Mural hands on today, we need everyone's voice to help shape the outcome.

LISTEN, PARTICIPATE AND ENGAGE

To get a great session, we kindly ask everyone to try to turn off their notifications if possible this afternoon.

Be patient with virtual discussion and with technology!



owner experiences (analysis of

dissemination of learning and

cost /use /other data) and



What does



