



**TIPPING+**

**Enabling Positive Tipping Points towards clean-energy transitions in Coal and Carbon Intensive Regions**

## BACKGROUND

Clean energy transitions in Coal and Carbon-intensive Regions (CCIRs) are a priority for the EU's climate and sustainable development strategies. They help to secure the creation of quality and decent jobs in the long term. The COVID pandemic has accelerated the need for grounded knowledge about how to enact deliberate deep transformations in social-ecological systems. However, little is known about why, how and when abrupt and irreversible changes triggered by apparently small events, or tipping points, occur in social-energy systems.

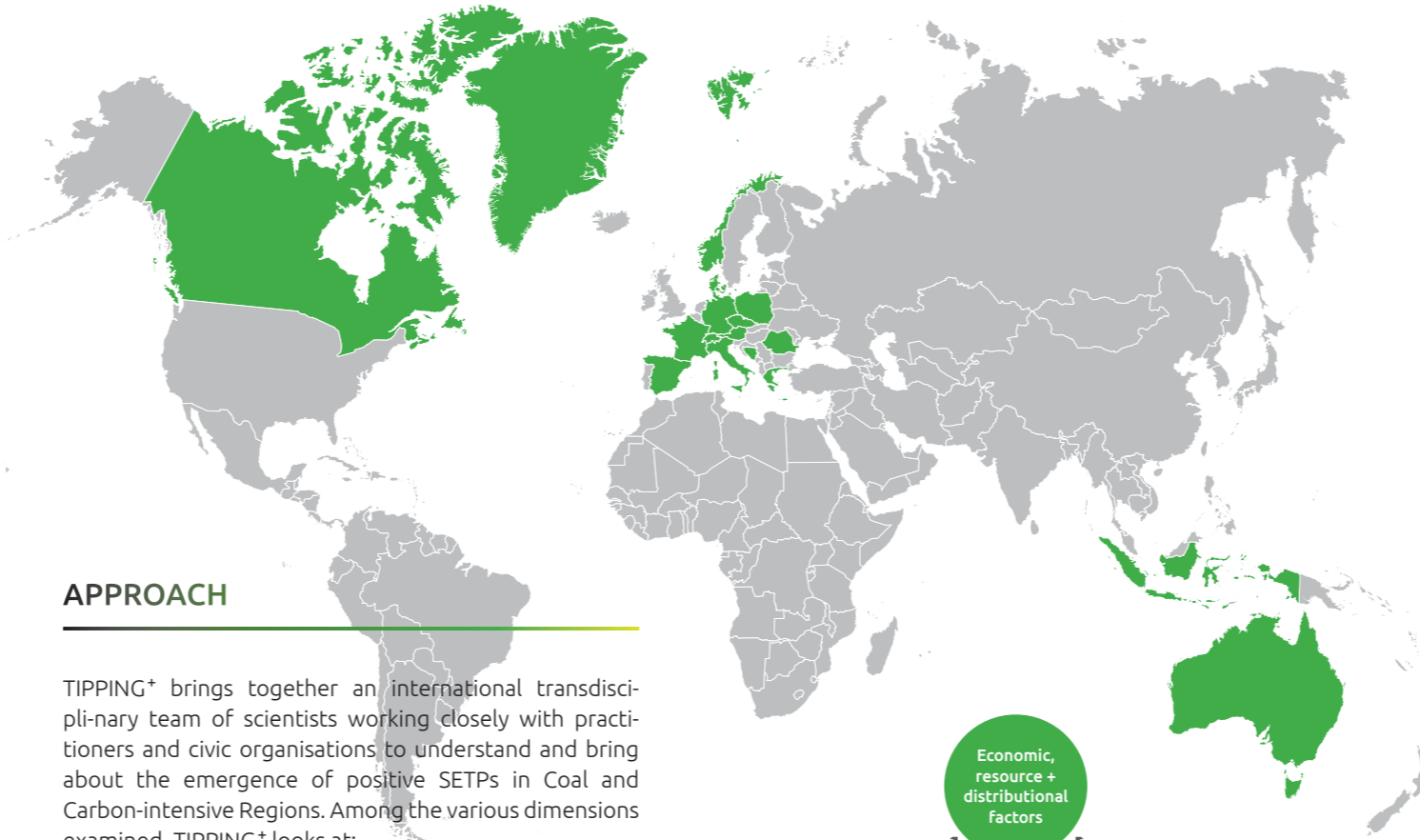
## OBJECTIVES

TIPPING+ will further the scientific and practical understanding of why and under what conditions regional systems heavily dependent on coal and carbon-intensive activities flip into low-carbon, clean energy development trajectories; or on the contrary, go in the opposite direction with all their negative social-ecological implications. In particular TIPPING+ will:

- ✗ Examine the critical concept of Social-Ecological Tipping Points (SETPs) to understand and support clean energy transitions in over 20 Coal and Carbon Intensive Regions (CCIRs) in Europe – including Greenland - Australia, Canada and Indonesia.
- ✗ Identify tipping interventions aimed at: 1. supporting positive SETPs through transformative policies and / or 2. preventing catastrophic outcomes provoked by crossing negative social-economic thresholds derived from e.g. inaction, the rise of populism or anti-democratic attitudes.
- ✗ Assess collective visions and narratives and the required transformative capacities to generate key strategies, solutions and socio-technical innovations which will lead to systemic transformations in CCIRs toward low-carbon clean energy futures.

## CASE STUDY REGIONS

The project will carry out a systematic and comparative analysis of at least twenty Coal and Carbon Intensive Regions in the world.



## APPROACH

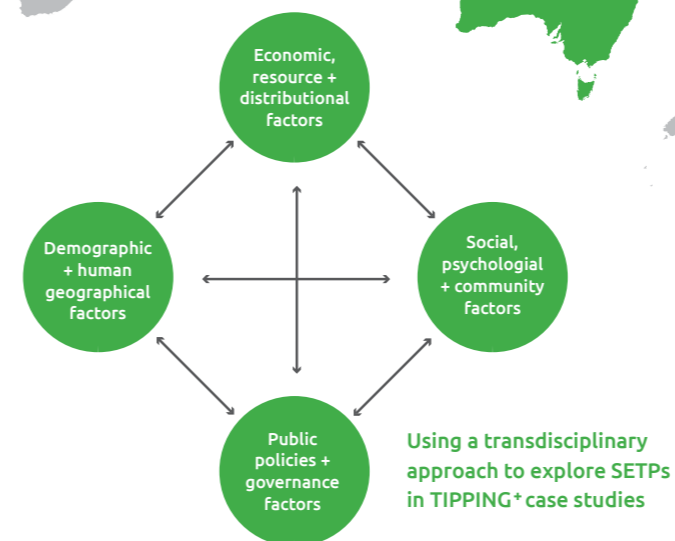
TIPPING+ brings together an international transdisciplinary team of scientists working closely with practitioners and civic organisations to understand and bring about the emergence of positive SETPs in Coal and Carbon-intensive Regions. Among the various dimensions examined, TIPPING+ looks at:

- ✗ Human geography and geographic factors
- ✗ Cultural, community and psychological factors
- ✗ Public policy and governance factors, including those related to the impact of populism in climate and energy policies
- ✗ Economic trends, including jobs creation/destruction and distributional changes in welfare

Enabling Positive Tipping Points towards clean-energy transitions in Coal and Carbon Intensive Regions



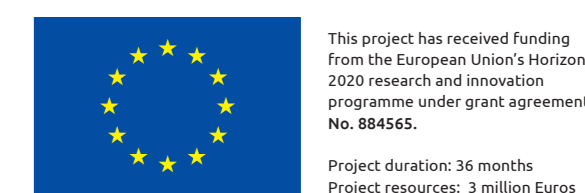
+ 20 regional case studies



## PROJECT PARTNERS

Global Climate Forum (GCF) DE (coordinator), Delft University of Technology – TU Delft NL, CIRPA - Università Degli Studi di Roma La Sapienza IT, Institute for Advanced Sustainability Studies e.V. DE, Ecole d'Economie de Paris FR, Nordlandforskning – Nordland Research Institute NO, Universitaet Graz AT, University of Piraeus Research Center GR, Palacky University Olomouc Faculty of Science CZ, Westport Consulting BA, National School of Political Studies and Public Administration RO, Institute for Structural Research PL, Aalborg Universitet DK, su-re.co - Sustainability and Resilience ID, Eco-union ES

Associated Partners:  
 Ilisimatusarfik – University of Greenland, Innolab Space Canada - Center for Urban Transitions, Swinburne University of Technology Australia



**Visit us in our web: [www.tipping-plus.eu](http://www.tipping-plus.eu)**

Learn more about the project at:  
 Global Climate Forum (GCF), Germany  
 mail: [tippingplus@globalclimateforum.org](mailto:tippingplus@globalclimateforum.org)  
[www.globalclimateforum.org](http://www.globalclimateforum.org)

Photo by Tyler Casey on Unsplash / Layout: ka@jahonimed.com