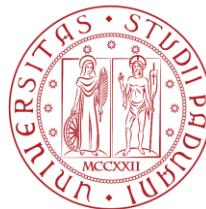




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INTERNATIONAL CONFERENCE ON CLIMATE JUSTICE – 27th October

# The Atlas of Unburnable Carbon: the state and the future outcome of the research

Daniele Codato

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JM CoE on Climate Justice

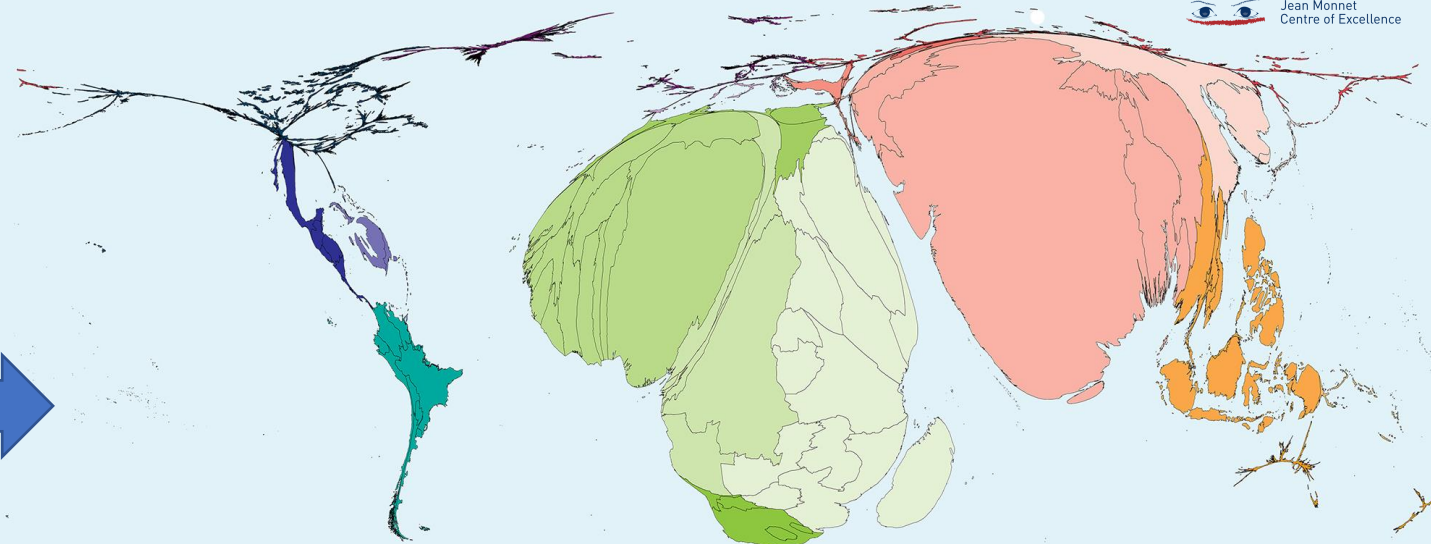
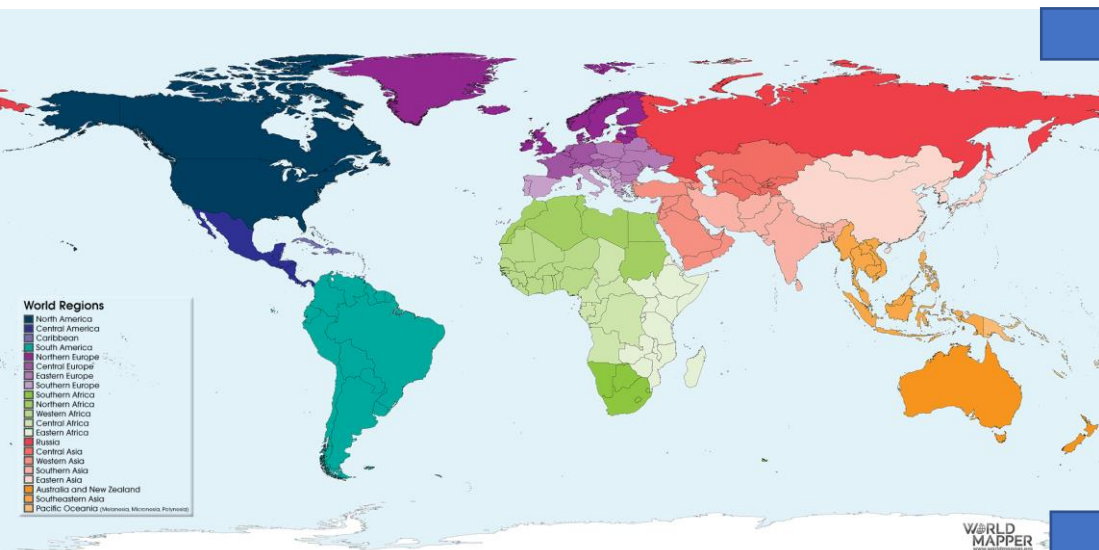
[www.climate-justice.earth](http://www.climate-justice.earth)



## Why we need climate Justice?

& the power of maps

Which Cartogram represents absolute poverty (2016) and which the cumulative CO2 emissions (1750-2020)?

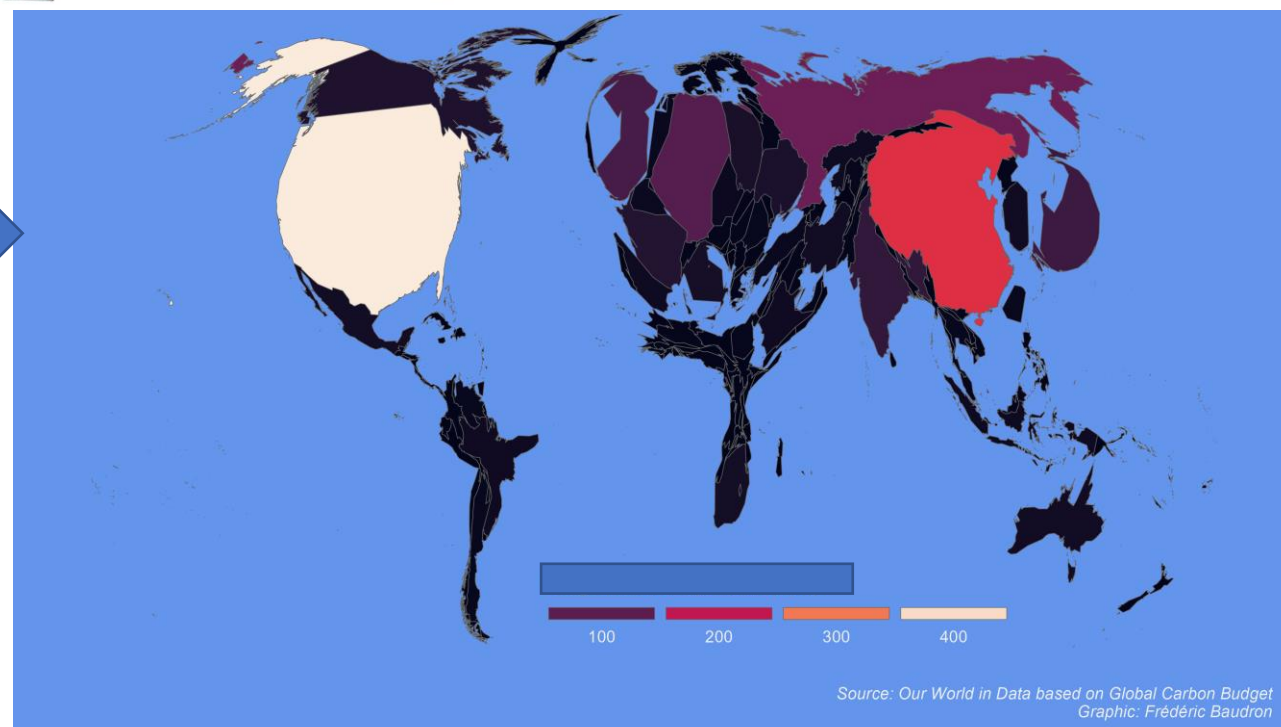


“The focus on the equity and justice aspects inherent to both the causes and the effects of climate change” (Jafry et al., 2019)

WORLD  
MAPPER  
www.worldmapper.org

- Climate justice related to
- Different geographical areas (different physical and ecological characteristics)
  - Different histories (past emissions, etc.)
  - Uneven development between and within nations

<https://www.ria.ie/reports/geosciences-and-geographical-sciences-committee-reports>



Source: Our World in Data based on Global Carbon Budget  
Graphic: Frédéric Baudron

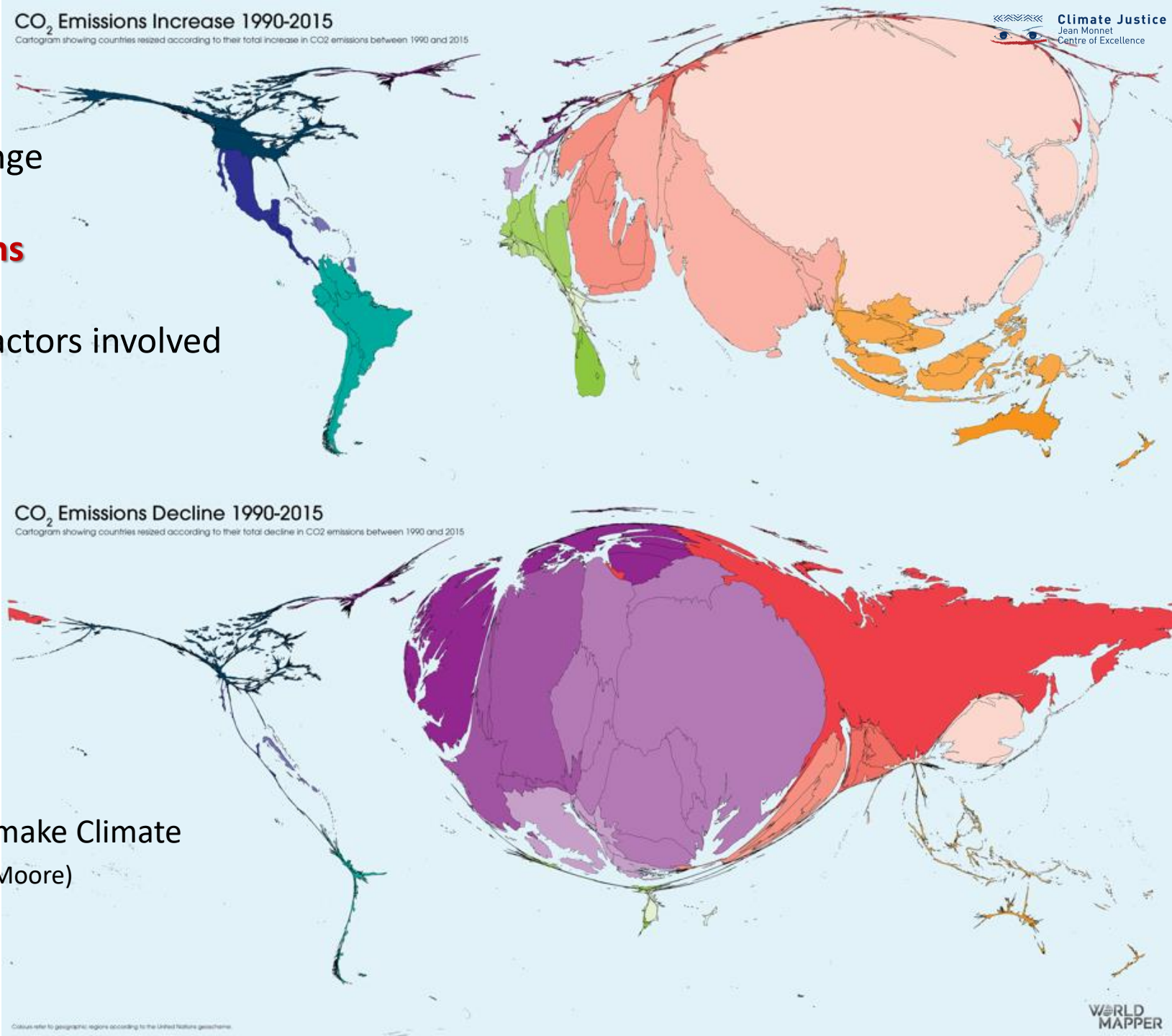
Climate Justice, as CC, is a complex challenge

**Multiscalar Spatial & Temporal dimensions**

concerning causes, effects, solutions and actors involved

**Anthropocene vs Capitalocene**

“(grassroots) Movements for climate justice make Climate a problem of power and capitalism” (Jason W. Moore)





## The Fossil Fuels supply side dimension

**Unburnable carbon/Unextractable carbon/Unburnable Fossil Fuels...**

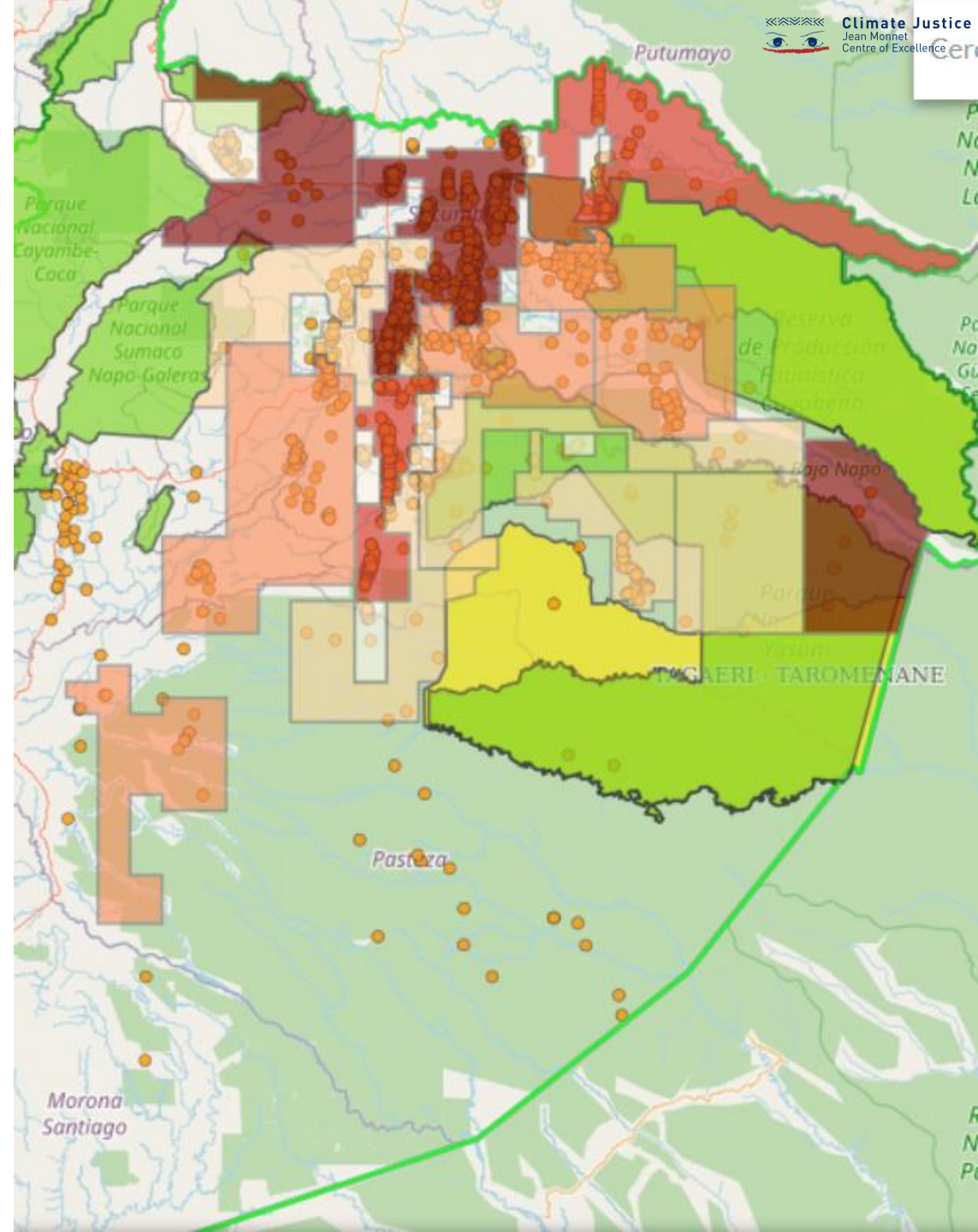
In a (just) transition where we can't stop extracting tomorrow

**People, Places & geographical/temporal scales matter**

Between Countries & Within Countries

An example...

<https://research.climate-justice.earth/maps/135/embed>

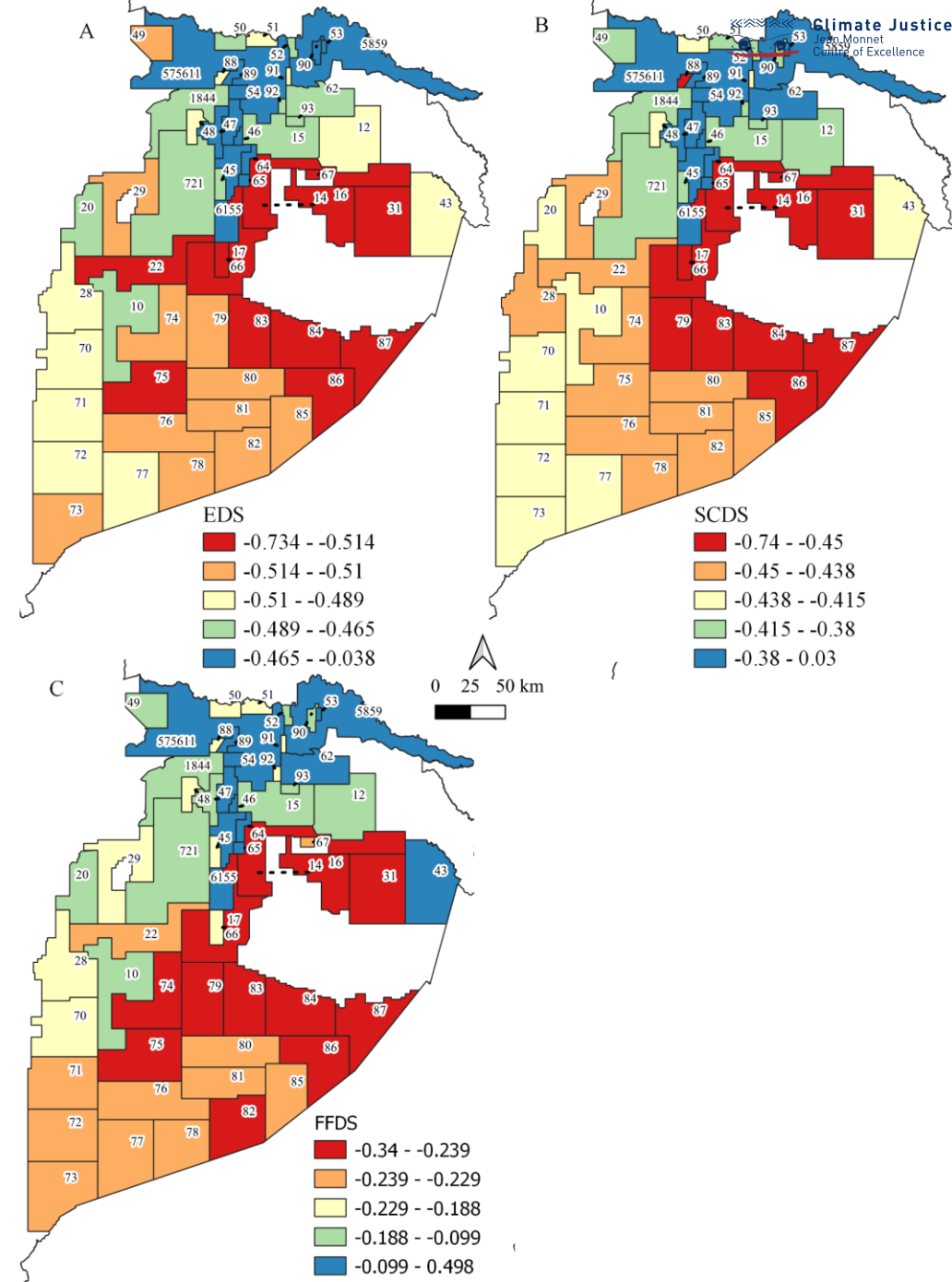


## How to take better decisions in complex situations?

**(s)MCDA methods and analysis** to support  
(participative) decision-making processes concerning  
unburnable carbon areas definition  
on the basis of different (geographical) criteria and development logics

To cope with different eco-environmental, socio-cultural & economic  
Criteria → different interests & trade-offs

If you are interested in this, we will see on 7 September  
(in Italian). Stay tuned on our communication channels!





# JM Centre of Excellence on Climate Justice

Geo-platform for sharing maps, data, and more...

The Climate Justice website

<https://research.climate-justice.earth/>

Search for Data.



Search



# Looking for spatial (and not) Data

- Amazon region
- Ecuador
- Italy
- UK
- Arctic
- Mediterranean basin
- ....

The issue of data availability and data reliability



# Looking for criteria between and within Countries & Spatial MCDA analysis

Just transition and Climate justice between Countries possible criteria (about 194 records)

Type	Sub-type	Source	URL	Description	Variable Time Span	Periodicity	Availability of dataset	Methodology	Geographic availability	Geographic coverage	Within-Between	Spatial-Statistical	Unit of measurement	Qualitative-Quantitative	Principles Muttitt-Kartha 2020
Ordina dalla A alla Z			et-20.	Net-zero Target Year   Net-Zero Targets   Climate Watch (climatewatchdata.org)	2021		Online dataset			Countries and regions	Between	Statistical	% of global GHG emissions	Quantitative	3
Ordina dalla Z alla A															
Ordina per colore															
Visualizzazione foglio															
Cancella filtro da "Type"															
Filtra per colore															
Filtri per testo															
Cerca															
<input checked="" type="checkbox"/> (Seleziona tutto)															
<input checked="" type="checkbox"/> Economic															
<input checked="" type="checkbox"/> Energy															
<input checked="" type="checkbox"/> Engineering/Infrastructural															
<input checked="" type="checkbox"/> Environmental/Ecological															
<input checked="" type="checkbox"/> Social/Cultural/Climate Justice															
OK															
Annulla															

Possible geographical criteria for MCDA within a Country/Area  
(About 58 records)

Name	Type	Source	Description	Availability of dataset	Unit of measurement	Qualitative-Quantitative
Active wells density on license area	Geographical criteria for Unburnable Carbon	Ammaturo F., Lazazzera G., Stralla A., (2021), Hydrocarbon extraction in the Arctic: geographical criteria towards a Multi-Criteria Analysis for the unburnable carbon, Master dissertation thesis. Master		p.49-50-51	wells/km2	Quantitative
Density of pipelines	Geographical criteria for Unburnable Carbon	Ammaturo F., Lazazzera G., Stralla A., (2021), Hydrocarbon extraction in the Arctic: geographical criteria towards a Multi-Criteria Analysis for the unburnable carbon, Master dissertation thesis. Master		p.49-50-51	km/km2	Quantitative
Indigenous and community lands	Geographical criteria for Unburnable Carbon	LandMark, 2021. "Indigenous and Community Lands." www.landmarkm	Depicts indigenous and community lands for select countries around the world, classified by legal	Online dataset	km2	Quantitative



# How to reach Climate (& environmental) Justice?

- Best practices <https://research.climate-justice.earth/it/mybestpractice>
- Organizations <https://research.climate-justice.earth/it/myorganization>

## Do you want to contribute?

## Best Practices MAP





# Storymaps for telling (geographical) histories of climate/environmental justice/change/projects

**Power of Maps + Power of Storytelling**

<https://research.climate-justice.earth/apps/67/embed>





# MOOCs for Climate Change/Justice & GIScience literacy

- Freely available for all before the end of 2022
- In moodle platform of UNIPD
- First version in Italian

## Climate Justice - Jean Monnet centre of Excellence

Home > Corsi > Master GIScience > **Climate Justice - Jean Monnet centre of Excellence**

- 2 MOOCs:
  - “Climate Change and Adaptations in Ecosystems and Societies”
  - “GIScience for Climate Justice”

Categorie di corso:

Master GIScience / Climate Justice - Jean Monnet centre of Excellence

Cerca corsi



MOOC: Cambiamenti climatici e adattamenti  
negli ecosistemi e nelle società



MOOC: GIScience e Giustizia Climatica







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Grazie per l'attenzione!!!



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