

CADRE

CLIMATE AND DISPLACEMENT
RESEARCH ENSEMBLE

Earth Institute Strategic Priority, 2026–27

Elisa D'Amico, School of Politics and International Relations

Chloé ten Brink Sara Dada Michael Fop Isabella Gollini Madhusanka Liyanage
Ronan McDermott Ravi Rastogi Manuel Saviane Ranul Thantilage

Who we are so far

- Politics and International Relations
- Computer Science
- Mathematics and Statistics
- Nursing, Midwifery and Health Systems
- Centre for Humanitarian Action

There are ten of us, a mix of faculty, fellows and postgraduate students.

We want to know what can actually be measured, and what can't.

How many people will climate change displace?

143 million
to
1.2 billion
by 2050

Both ends of that range are enormous, so the scale of this is not in question.

The precision is, and responses get planned on these numbers.

Where the research looks

Almost all of it looks at the global south, and for good reason. That is where climate disasters hit hardest and where the humanitarian need is greatest.

But it is also where an independent record of who moved rarely exists, so the uncertainty sits in the models.

We piloted one storm in two countries

Storm Daniel, September 2023. Thessaly on the 4th, Derna on the 10th.

Libya	Shared	Greece
None of its own	IDMC figures	Civil protection evacuations
	IOM assessments	EU Solidarity Fund assessment
	Copernicus mapping	73,771 compensation claims
	Humanitarian reporting	Census, schools, utilities, tax

Ground truth exists in one country and not the other. The global north is being hit too, so that is where we can work out what is measurable.

Where we are looking, and at what

Country	Events in scope
Spain	Valencia (DANA), Oct 2024 · Storm Filomena, Jan 2021 · Storm Gloria, Jan 2020
Italy	Emilia-Romagna, May 2023 · Storm Boris, Sept 2024 · Marche, Sept 2022 · Ischia, Nov 2022
Greece	Storm Daniel, Thessaly, Sept 2023
Slovenia	Slovenia floods, Aug 2023
Czechia	Storm Boris, Sept 2024 · Emilia-Romagna system, May 2023
Poland	Storm Boris, Sept 2024
Austria	Storm Boris, Sept 2024
Romania	Storm Boris, Sept 2024
Ireland*	Storms Bert and Conall, Nov 2024 · Storm Eunice, Feb 2022

Events with 10 or more deaths or a billion dollars of damage.

What happens next

Now	Validating the measures against the records these countries keep, case by case
Spring	A position paper, a workshop with invited external speakers, and an event for students
Summer	A scoping report on what can be measured, and where
After that	Carry the corrections to the rest of Europe, then further, through a bigger funding bid

Please feel free to join us

Estimates of climate displacement vary a lot, because there is not much validation. We work the other way round and validate first, in EU countries where the data exists.

We want to grow. Geography, economics, law, engineering, and anyone curious.

Second Monday of the month, 11:30, Room E4.46, Science East.

There is lunch.



Register your interest