



The CLIMAKID project: Digital solutions for attributing climate change impacts on child nutrition and health

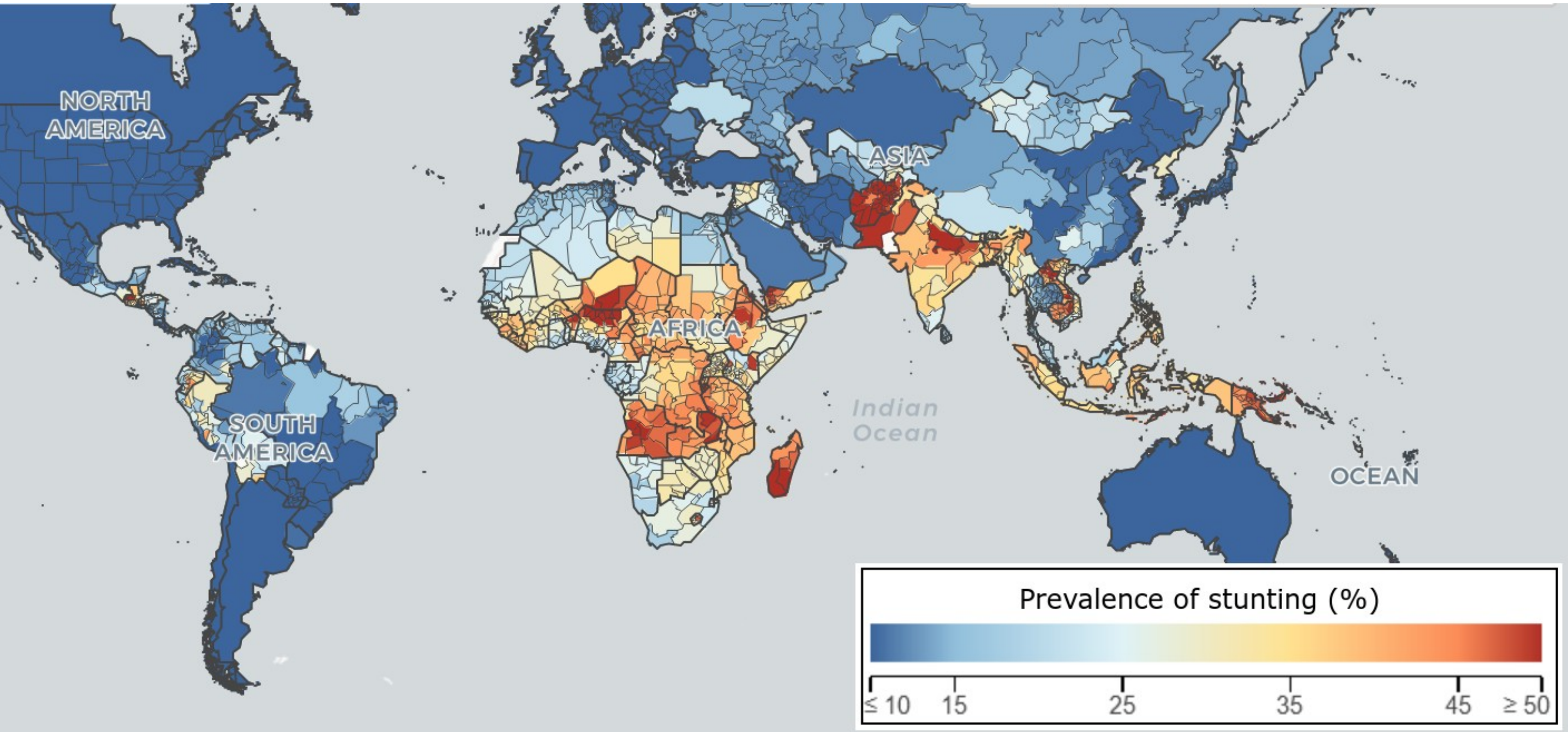
Wellcome Trust, Attraverse program, April 2025 – April 2028

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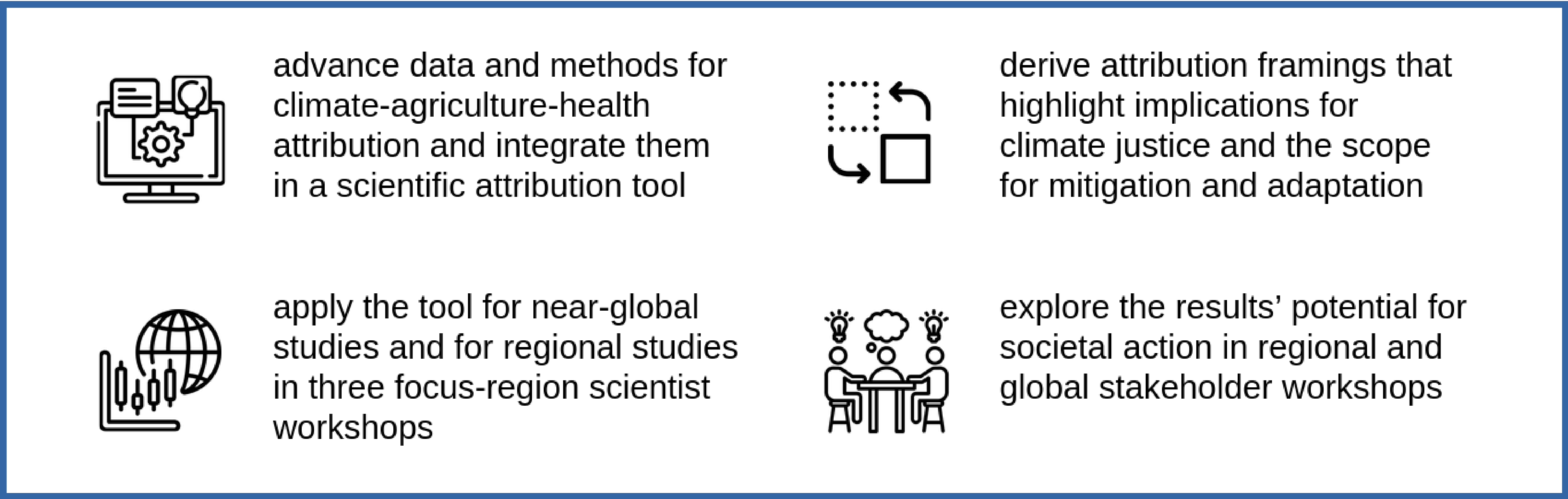
- 1 Potsdam Institute for Climate Impact Research, Germany (PIK-AAS)
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- 7 Potsdam Institute for Climate Impact Research, Germany (PIK-CCH)
- 8 University of Edinburgh, United Kingdom, (Edinburgh Uni)
- 9 International Institute for Applied Systems Analysis (IIASA)
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Child undernutrition as a climate change impact

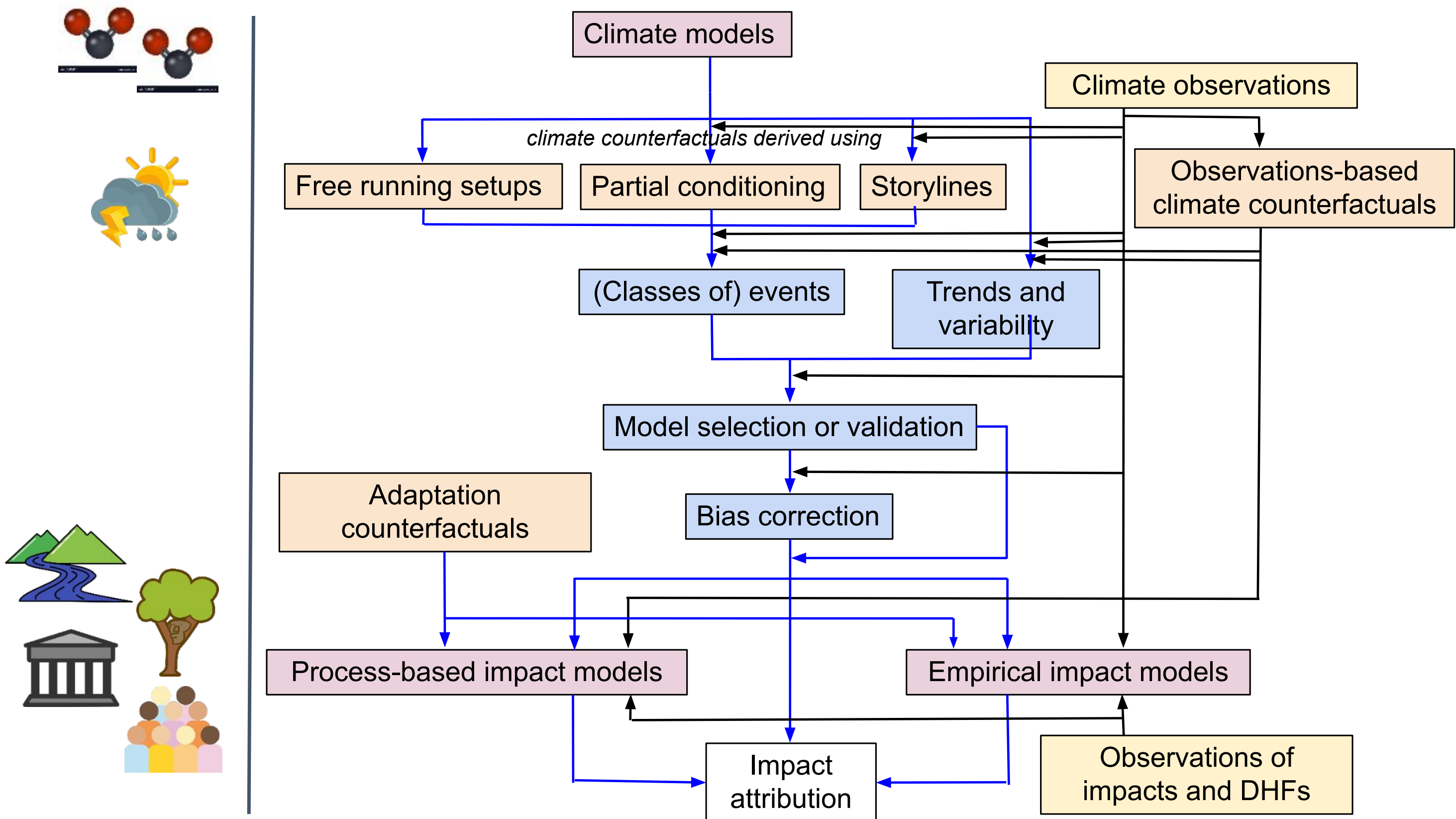
- Undernutrition increases mortality or lifelong health risks especially for children
- Children in low- to middle-income countries are disproportionately affected
- Climate change has impacts on key factors contributing to undernutrition
- Gap: Climate change impact attribution studies on nutrition-related health



Prevalence of child stunting (<5 years of age), 2019. Source: <http://ihmeuw.org/6cxi>

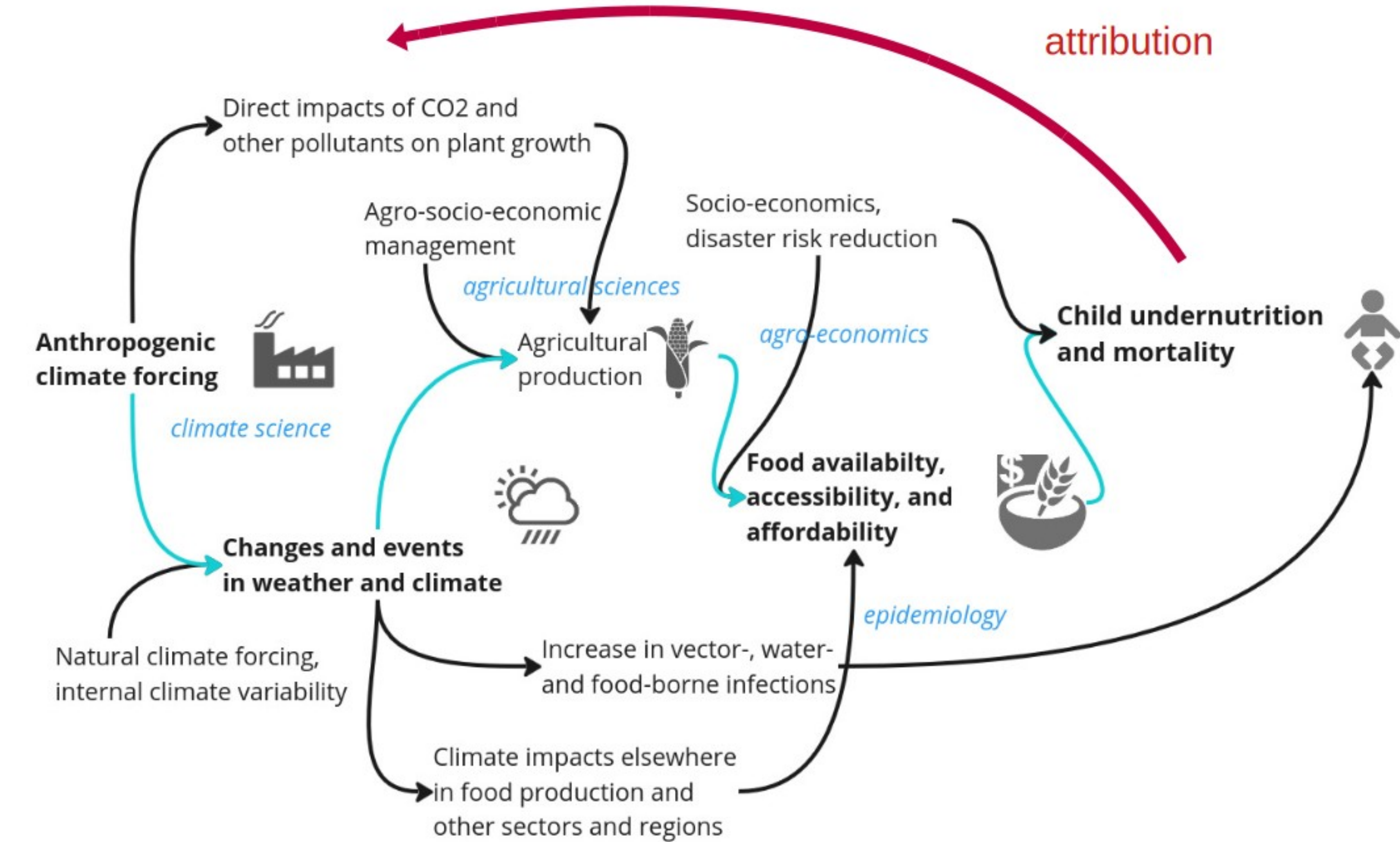


Flowchart of climate impact attribution approaches



Undorf et al., revisions due in NREE

Climate impact/modelling chain for attribution in CLIMAKID



Societal uses of attribution results

	Awareness raising	Risk management and adaptation	UNFCCC Loss and Damage	Climate litigation
Specific role of attribution	<ul style="list-style-type: none">- Make climate change tangible by linking it to the real-world impacts caused by extremes.- Highlight that climate change is already a present problem, and not only a future problem.	<ul style="list-style-type: none">- Separation of drivers, understanding which is the most impactful one.- Highlight potential to reduce impacts by using adaptation counterfactuals.- Identify vulnerable populations and geographic hotspots of climate impacts to enable more effective targeting of interventions.	<ul style="list-style-type: none">- Quantify detrimental impacts of climate change in terms of economic and non-economic losses and damages.	<ul style="list-style-type: none">- Quantify portion of harm/ losses suffered by claimants caused by emissions of defendants¹⁶⁵.- Demonstrate that claimants are adversely affected by climate change to establish standing.
Relevant stakeholders	Media, General public, Decision makers.	Decision makers (public and private sector), insurers and the financial sector, NGOs.	COP negotiators, politicians, funding agencies, media.	Lawyers, NGOs, judges, claimants, media.

Undorf et al., revisions due in NREE

CLIMAKID workflow

