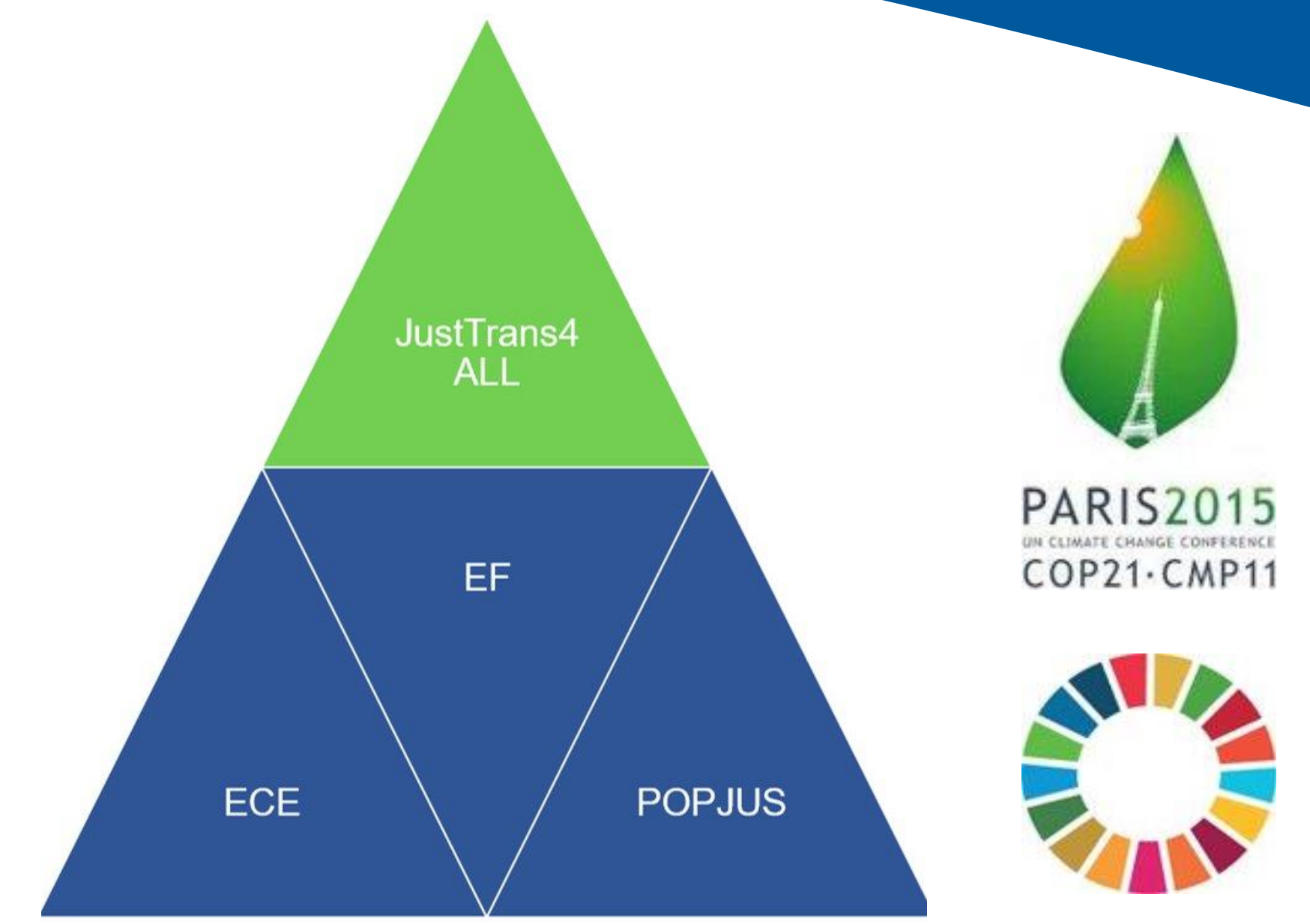


Just Transitions to Net-zero Carbon Emissions for ALL – JustTrans4ALL

IIASA Strategic Initiative Project Sept 2021 - August 2024

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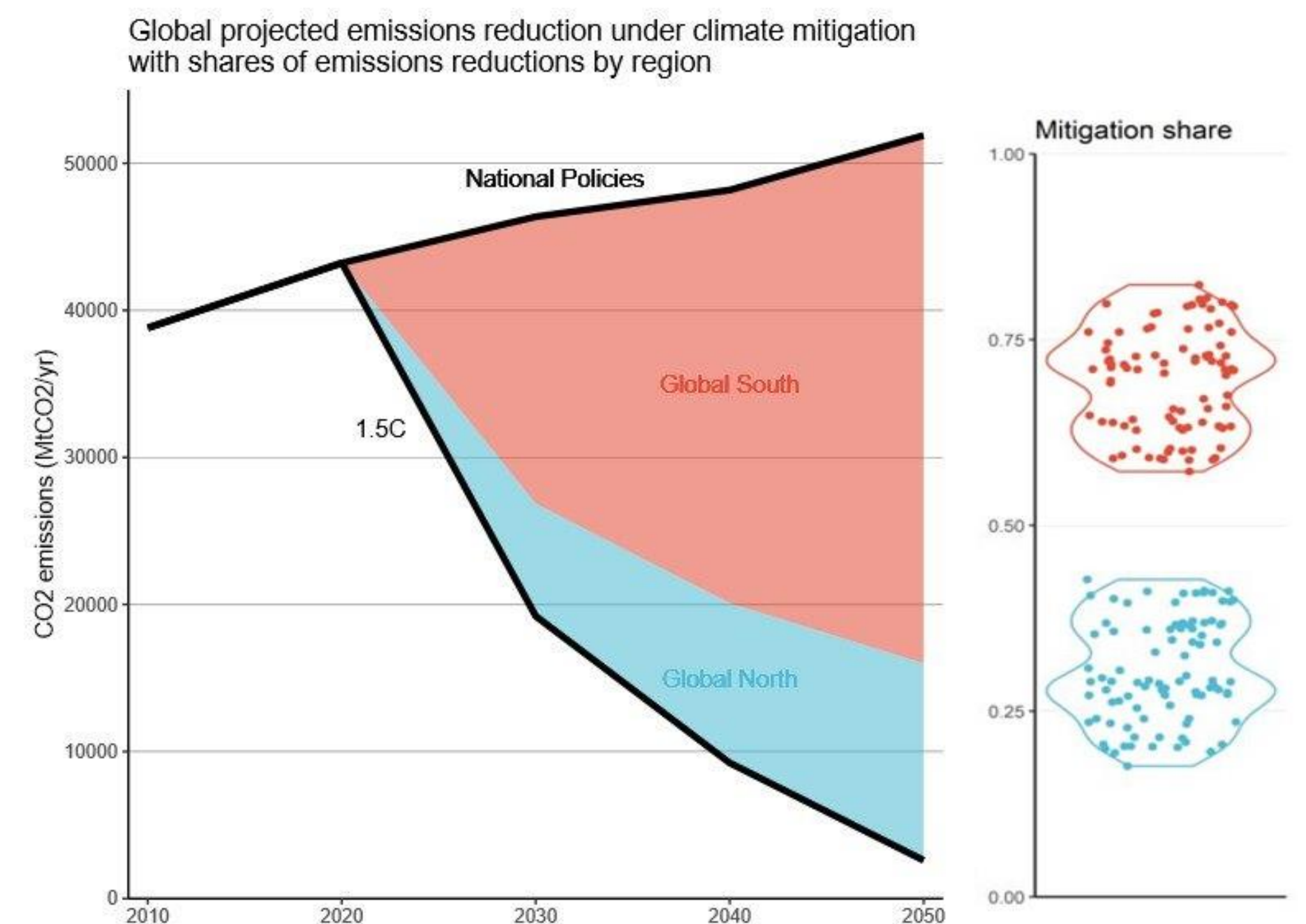
The challenge: Address the intertwined sustainability & inequality crises



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IPCC AR6 “[...] negotiations to finalize the report were bogged down as government delegates hashed out perennial arguments over climate mitigation. [...] arguing that [the emissions scenarios] assume too much action on the part of developing countries and do not adequately reflect questions of equity and responsibility.” [1]

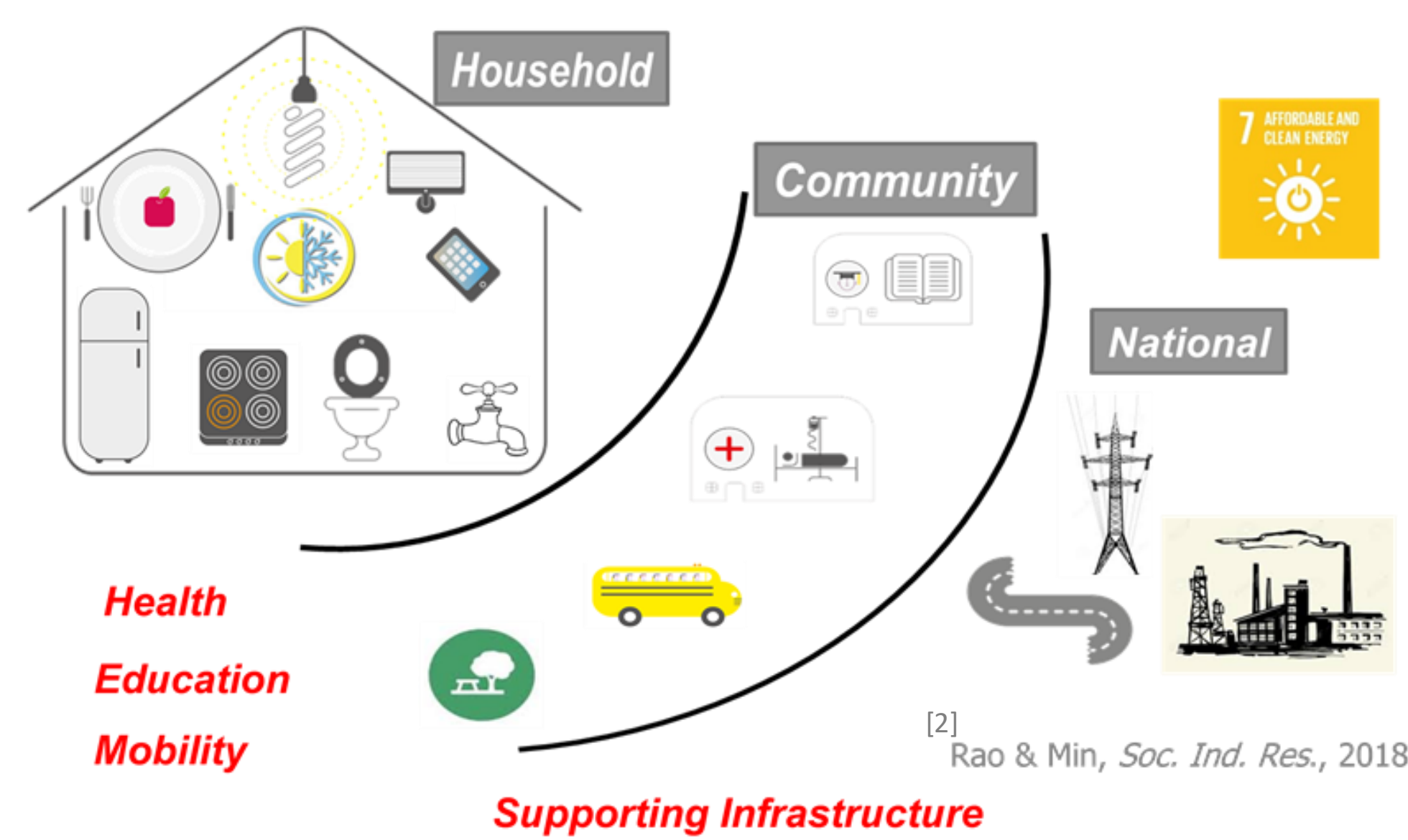
- No just transition scenarios to net zero available
- Need for a framework for safe and just societies
- Need to operationalize this for modelling



Assess & apply concepts of justice

- Develop a **theoretical framework with clear definitions** based on philosophical and ethical reasoning
- Recognize **different concepts of justice**, and the limits of models
- Suggest **scope and metrics** to analyze different patterns of distributive justice

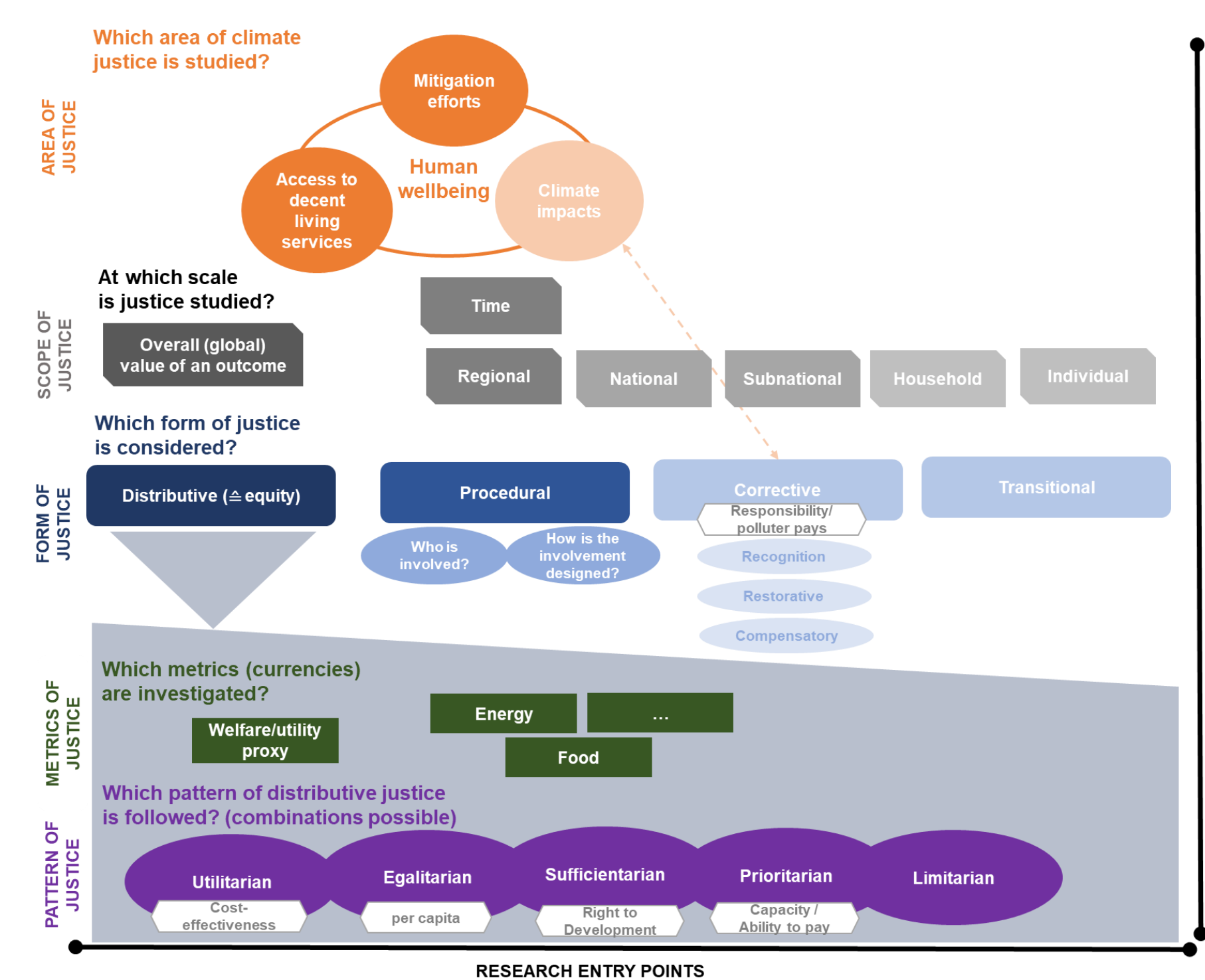
Focus on Decent Living Standards DLS & human wellbeing



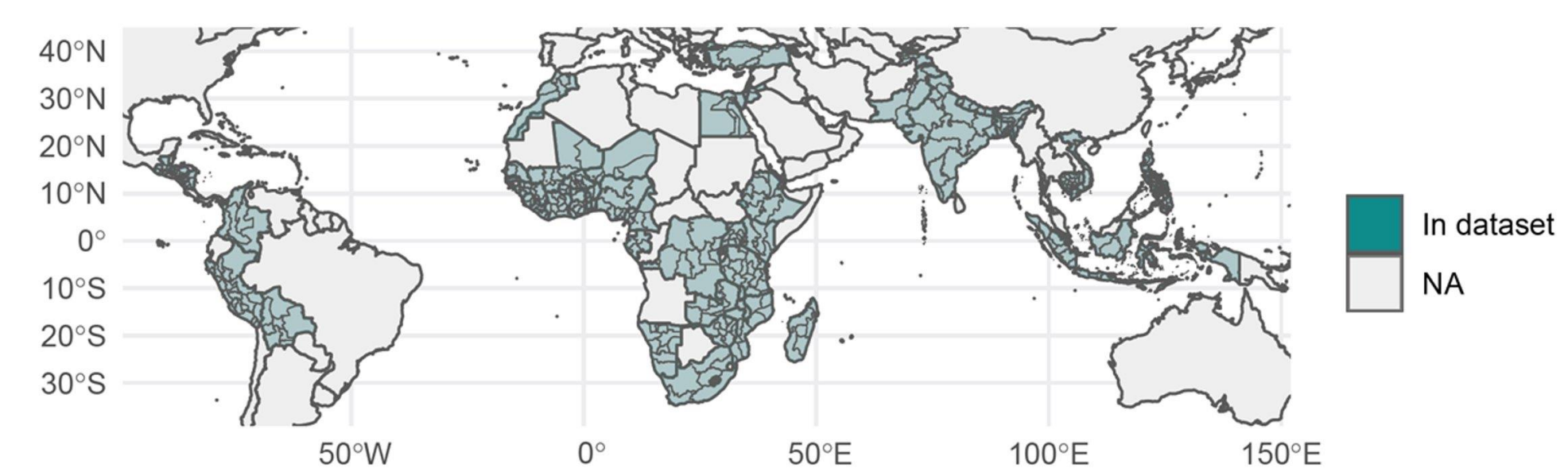
[2] Rao & Min, Soc. Ind. Res., 2018

Explore enablers and implications of just transitions

- Explore potential **health and economic impacts of achieving DLS**, including a **lower disease burden**
- Understand how injustice and inequality affect **transition processes**
- Map **DLS worldwide and overtime** and identify sub-national gaps using Demographic and Health Surveys



- **Broaden the perspective** on just transitions to focus on human wellbeing
- Focus on **overcoming multidimensional poverty** and achieving SDGs to enable wellbeing

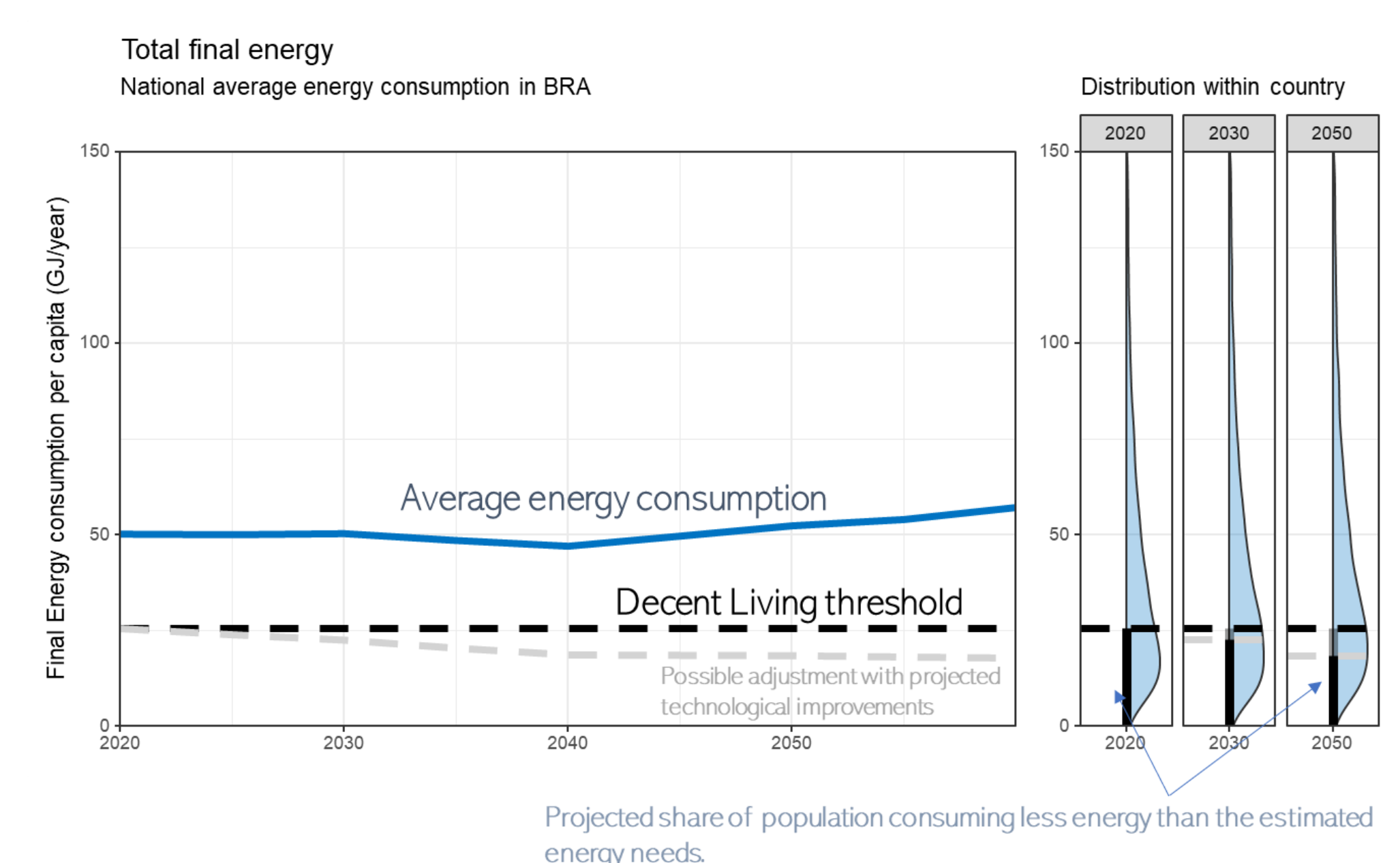


Study justice aspects in energy and mitigation scenarios

- Assess existing literature and scenarios in their **treatment of justice**
- Propose **approaches and indicators to evaluate scenarios along justice dimensions**
- Identify ways to **improve models, scenarios design and analysis** to better reflect justice concerns

JustTrans4ALL is working on

- ✓ A novel justice framework based on decent living standards & human wellbeing
- ✓ Novel empirical insights
- ✓ An operationalization of justice for modelling and scenarios
- ✓ Advancing scenarios used for policymaking incorporating equity aspects
- ✓ Stakeholder and IIASA NMO engagement and capacity building



Projected share of population consuming less energy than the estimated energy needs.

[1] <https://www.nature.com/articles/d41586-022-00951-5>

[2] Rao, N.D., Min, J. Decent Living Standards: Material Prerequisites for Human Wellbeing. Soc Ind Res 138, 225–244 (2018). <https://doi.org/10.1007/s11205-017-1650-0>