

JustMIP: Advancing Justice Considerations in IAM Scenarios



JustMIP brings together research teams from Annex-I and Non-Annex-I countries and builds upon extensive stakeholder interactions. The initiative is coordinated by IIASA together with partners from the ELEVATE project. **For more information please contact: justmip@iiasa.ac.at**

About JustMIP

- a **model intercomparison effort** systematically incorporating a set of underrepresented justice considerations into global integrated assessment modelling (IAM) frameworks
- initiated under the **ELEVATE project** and open to any interested external partners with global and national models
- model protocol is available for **public review and feedback**

Information and feedback

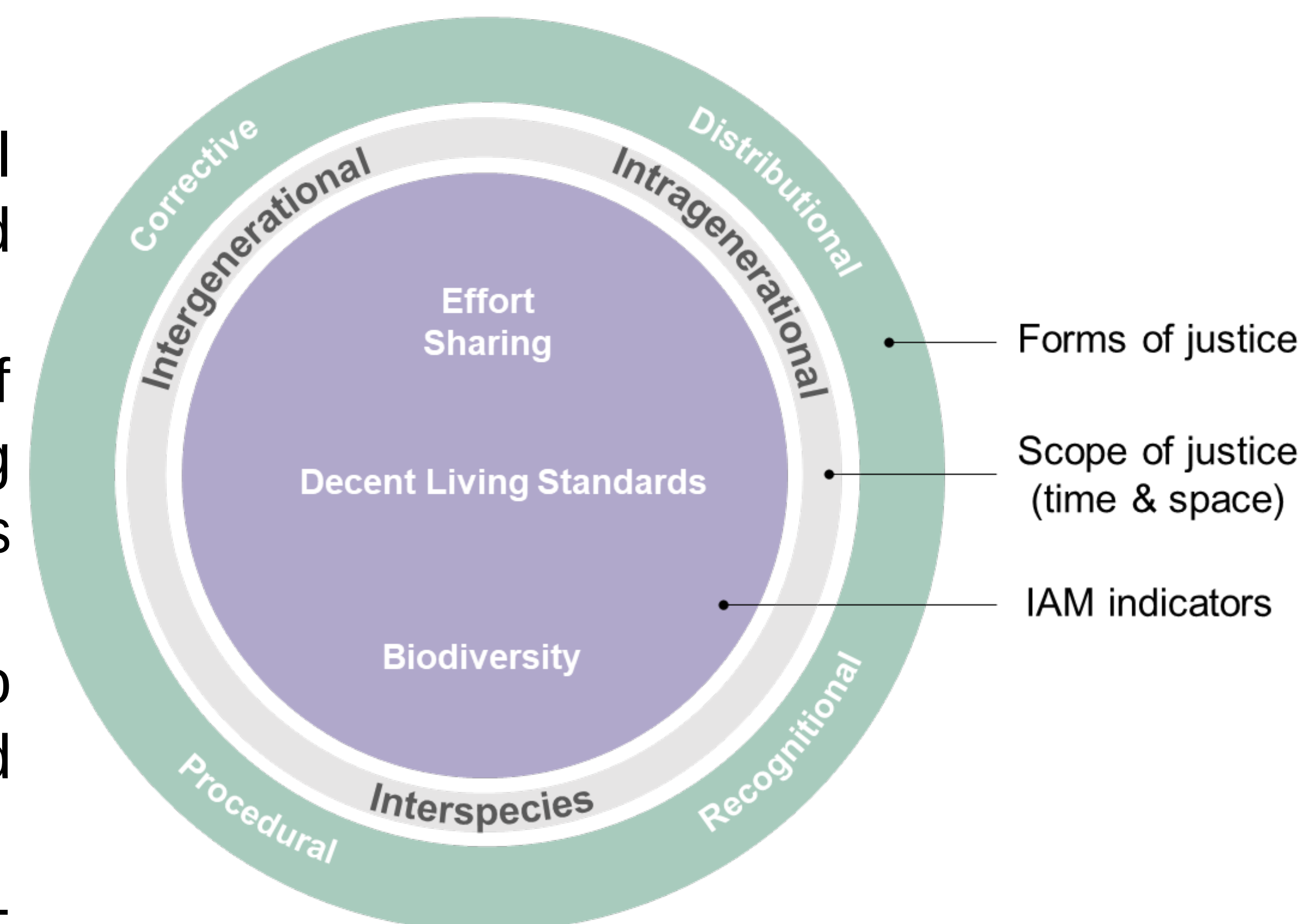


Why JustMIP?

- **IAMs inform global climate policy** by outlining mitigation pathways, but often assess equity and justice only after scenarios are developed, for example, through ex-post assessments of financial transfers
- **Emerging needs call for a greater range of scenarios integrating justice considerations** including those exploring wellbeing convergence, fair effort sharing and strengthening natural ecosystems
- **Expanding IAMs to include more justice considerations** can better inform climate and sustainable development policies and context-sensitive pathways

What are justice considerations?

- **Framing within Earth System Justice:** Draws on conceptual advances^{1,2} that identify ‘three Is’ of justice that should be embedded in IAM frameworks
 - **Interregional Justice:** calling for fairer distribution of mitigation efforts and development outcomes recognising differences in responsibilities, capabilities, and vulnerabilities across regions
 - **Intergenerational Justice:** emphasizing responsibility to future generations, particularly regarding resource depletion and managing climate overshoot impacts across and within regions
 - **Interspecies Justice:** advocating for the protection of non-human species and ecosystems in climate mitigation strategies



Overarching Goals

- explore trade-offs and co-benefits across a set of **underrepresented justice considerations in the IAM literature**, contributing to ongoing community efforts to expand the solution space informing climate and sustainable development policy deliberations
- create **more transparency** and entry points for scenario co-design

Research Questions

- What are the implications of meeting minimum energy needs, defined as achieving **decent living energy** for all?
- What are the implications of introducing **effort-sharing** and considerations of historical responsibility?
- What are the implications of the interacting these two considerations?

Implementation in IAMs

- Stricter limits on biomass use and carbon storage
- Universal access to **decent living energy**
- Significant **inequality reduction**
- An **effort-sharing framework** that includes considerations of historical responsibility

¹ Gupta, Joyeeta, Diana Liverman, Klaudia Prodan, Paulina Aldunce, Xuemei Bai, Wendy Broadgate, Daniel Ciobanu, et al. “Earth System Justice Needed to Identify and Live within Earth System Boundaries.” *Nature Sustainability* 6, no. 6 (March 2, 2023): 630–38.
² Zimm, Caroline, Kian Mintz-Woo, Elina Brutschin, Susanne Hanger-Kopp, Roman Hoffmann, Jarmo S. Kikstra, Michael Kuhn, et al. “Justice Considerations in Climate Research.” *Nature Climate Change* 14, no. 1 (January 2024): 22–30.

Related Initiatives

We encourage all to consider a new call under the NEWPATHWAYS project to generate **development oriented socio-economic projections** by an interested scientific institution, preferably located in a country in the Non-Annex-I region. In case of interest please contact **NEWPATHWAYS** (newpathways_dsp_contact@listserv.dfn.de).

