

SHAPE: Sustainable development pathways achieving Human well-being while safeguarding the climate And Planet Earth

Overview of the project







SHAPE: Objectives



- Investigate interactions between mitigation of climate change and the broader agenda of the Sustainable Development Goals (SDGs)
- Develop and analyse Sustainable Development Pathways that
 - achieve the SDGs in 2030
 - maintain sustainable development afterwards
 - reach the climate goals of the Paris agreement



Consortium partners





POTSDAM INSTITUTE FOR CLIMATE IMPACT RESEARCH

PIK (Germany): project lead, integrated assessment modelling, water-energy-land nexus, sustainable development pathways



IIASA (Austria): integrated assessment modelling, decent living standards



IASS (Germany): stakeholder dialogue, co-design of scenarios Stockholm Resilience Centre Sustainability Science for Biosphere Stewardship









German Development Institute **SRC** (Sweden): stakeholder dialogue, governance of trans-formations

UU (Netherlands): integrated assessment modelling, water-energy-land nexus

NTNU (Norway): industrial ecology, resource footprints

DIE (Germany): governance of transformations, political economy

Project Structure



WP1 (IASS/SRC): Stock-take & stakeholder interaction

WP4 (IIASA): Climate and inequality

WP5 (DIE/SRC): Governing the transformation



WP2 (PBL): Climate and the Water-Energy-Land Nexus

WP3 (IIASA): Sustainable production and consumption

WP6 (PIK): Sustainable Development Pathways for achieving climate and other sustainability goals

SDG Coverage



WP2 (PBL): Climate and the Water-Energy-Land Nexus

WP3 (IIASA): Sustainable production and consumption

WP4 (IIASA): Climate and inequality

WP5 (DIE/SRC): Governing the transformation

WP6 (PIK): Sustainable Development Pathways for achieving climate and other sustainability goals













10 REDUCED INEQUALITIES

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MYTTIT

1 NO POVERTY











Above SDGs + Scenario design and input assumptions for:









Narrative cross-cutting activity



- Goal: Develop a set of new SDP narratives highlighting branching points that give rise to a multiplicity of ways to a sustainable futures. Those narratives would form the basis for the development of quantitative SDPs.
- Step 1: Identify narrative domains and develop sub-narratives and branching points for these domains: Societal governance, International Architecture, Future of Work, Energy, Land, Water, Consumption & Production, Urban/Rural life, Mobility
- Step 2: Organize sub-narratives into a set of overarching narratives
- Step 3: Run extensive stakeholder and expert consultations on draft narratives
- Step 4: Revise and finalize until end 2020

Scientific Advisory Board



- Dirk Messner (German Federal Agency of the Environment)
- Jale Tosun (U Heidelberg)
- Vaibhav Chaturvedi (CEEW)
- Zoi Vrontisi (E3Mlab)

Target audience and users



- UN Sustainable Development Solutions Networks (SDSN)
- UN High-level political forum on Sustainable Development
- SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK A GLOBAL INITIATIVE FOR THE UNITED NATIONS

- Local/regional SDG initiatives & policymakers
- IPCC AR6 & AR7
- UNFCCC global stocktake
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Research connections



www.twi2050.org

The World in 2050:

 research initiative to support the implementation of the SDGs until 2030 and beyond (most SHAPE partners involved)

Horizon 2020 projects:

- NAVIGATE: next-generation integrated assessment models (coordinated by PIK)
- ENGAGE: informing global and national climate action (coordinated by IIASA)

JPI axis projects:



CHIPS: distributional impacts and inequality (coordinated by PIK)