Joining forces for the SDGs

sim2sustain

for decisions with a future

Our Vision

We aim for a sustainable economy and society where decisions of societal relevance
will be reached through open collaboration, based on facts, stated goals, and declared values. Decisions, interventions, transformation strategies, and investments reflect the ecological and societal urgency we are facing and contribute to the United Nations' Sustainable Development Goals (SDGs).

How to reach this Vision – A Glance into the Future

We are taking our clients on a journey into the future. A journey that reveals the implications of the choices and actions taken today and planned for tomorrow. A journey with sim2sustain can start with a simple or strategic question, or a choice that affects a large number of actors in complex ways. Together with our clients, we integrate relevant stakeholders' perspectives to define and agree on targets and indicators to be reached. The simulation provides as a result the net impact of the decisions on these targets and indicators.

### The Challenge – Balanced Value Generation for Business, Economy and Society

Despite an immense progress in science and technology and despite an unimaginable amount of knowledge we observe that humanity is destroying its own basis of living. We believe part of this problem derives from a lack of easily understandable, comparable and comprehensible information about consequences and interdependencies of decisions, investments and actions.

The sim2sustain Answer – Coherent Decisions, Actions, and Impact

To effectively find and implement sustainable decisions and strategies, sim2sustain offers a radically new systemic approach for computer simulation and stakeholder engagement to evaluate the impact of decisions and investments in all areas of a business and in our economy, society and nature. sim2sustain provides a simulation that determines which decisions and investments will have the maximum impact on different SDG-related KPIs and risk-adjusted business KPIs across time.

Do you want to know more?

Please contact us at sim2sustain@scaling4good.com or visit https://scaling4good.com/sim2sustain/
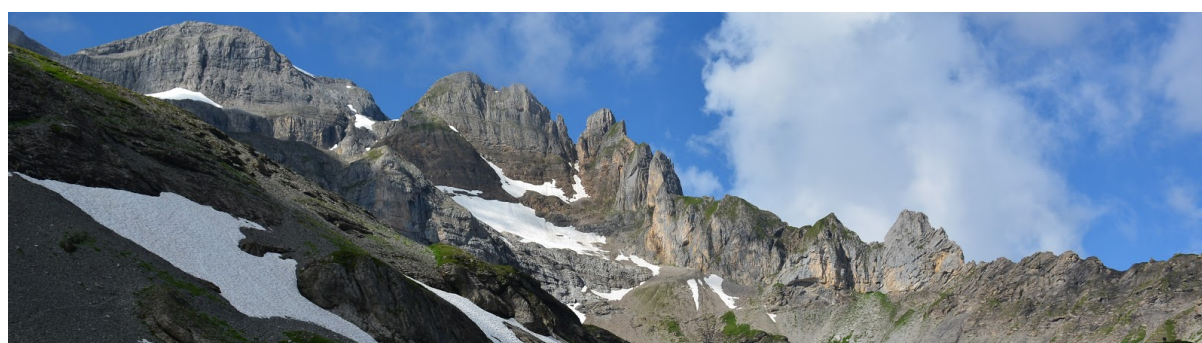
What Challenges can we Support - Example: Net Zero Cities

Societal challenge: Cities account for a sizeable share of the world's energy consumption and the global CO_2 emissions. Cities will be highly affected by climate change. At the same time, cities also have the opportunity to be an integral part to solution finding. Some cities have already started to develop a strategy to become fully CO_2 neutral, but so far, few of them have quantified the strategies.

Value of simulated action analysis: Clarity will be provided about which actions (policies, direct investments, incentives/nudges, voluntary individual actions etc.) best support a fast transition to net zero emissions, taking into account the limited resources. sim2sustain will provide answers to questions and trade-offs such as: Which sequence and timing of which interventions will achieve the greatest impact? What is the optimal sequence and balance between forceful and enabling actions? What are the most cost-effective interventions? What is a good framework to estimate the baseline, and are we on track to achieve the targets?

Supporting You in Your Own Challenges

Do you want to create leverage across multiple SDGs, to join forces for the SDGs, or to understand and optimize the outcome of solutions to your challenges? Please contact us at sim2sustain@scaling4good.com.

The sim2sustain Model

- provides a simulation that evaluates the impact of investments and interventions on SDG-related KPIs and risk-adjusted business KPIs in the future;
- enables decision makers to determine which strategy will have the maximum balanced impact on these KPIs over time;
- generates comparable results, both quantitatively and qualitatively, and allows comprehensible communication of decisions and their impact on different groups of society and business;
- puts assumptions into context explicitly within the model structure;
- evaluates multiple cause-effect chains across systems, feedback and rebound effects within and between all areas of human interaction and nature;
- supports structured continuous learning by building on previous work and data sets consistently.
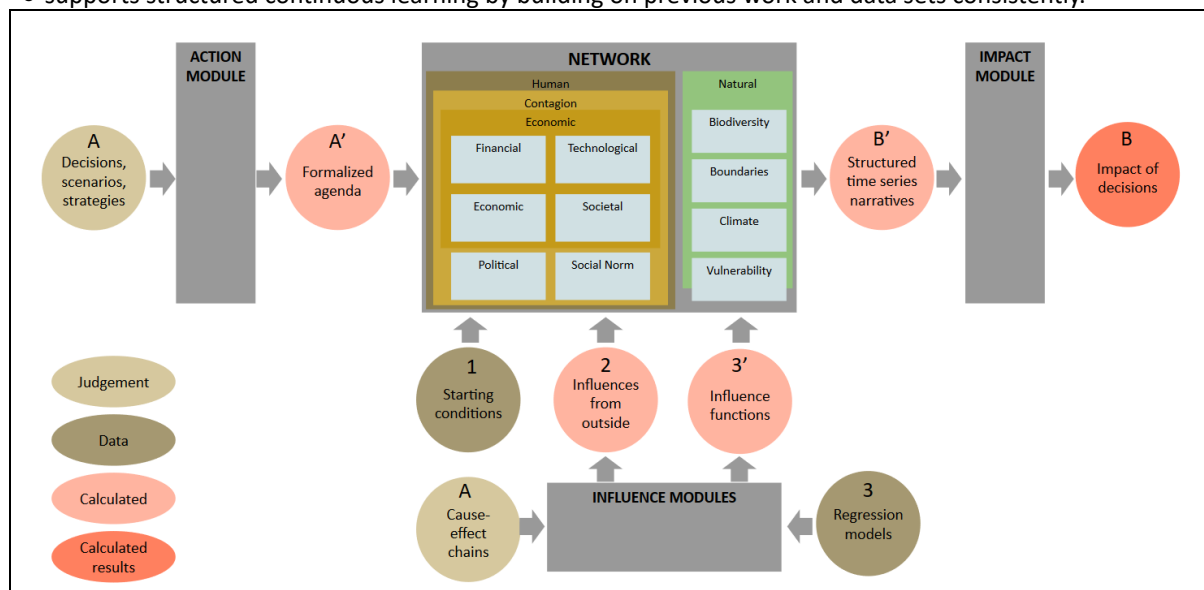
How Does it Work

- Starting conditions of a defined system are determined (1), integrating the data sets of various models.
- The outcomes (B') of a baseline scenario and a formalization (A') of user-provided decisions, scenarios, or transformation strategies (A) are calculated within a defined system scope and time horizon.
- The outcomes are compared to the baseline in order to calculate their effects (B).
- Multiple cause-effect chains (3) and influences from outside (2) are considered across system boundaries including feedback, collective dynamics, and rebound effects.
- Identified, estimated, or calculated correlations (3') are integrated into forward calculations.
- Back test results on already known functions and data allow stepwise and iterative result improvement.

Such a forward-looking approach has been applied successfully in the (re-)insurance industry for more than ten years, building on the success story of natural catastrophe modeling. Verifiable results can be obtained within a relatively short time because sim2sustain is using and connecting already existing and scientifically proven static and dynamic models.