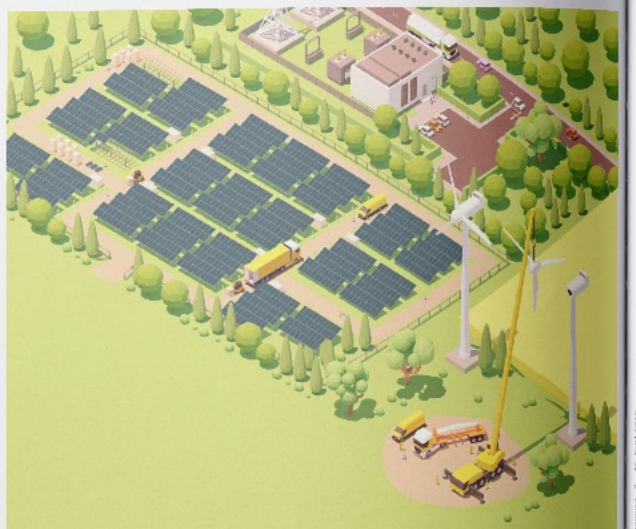
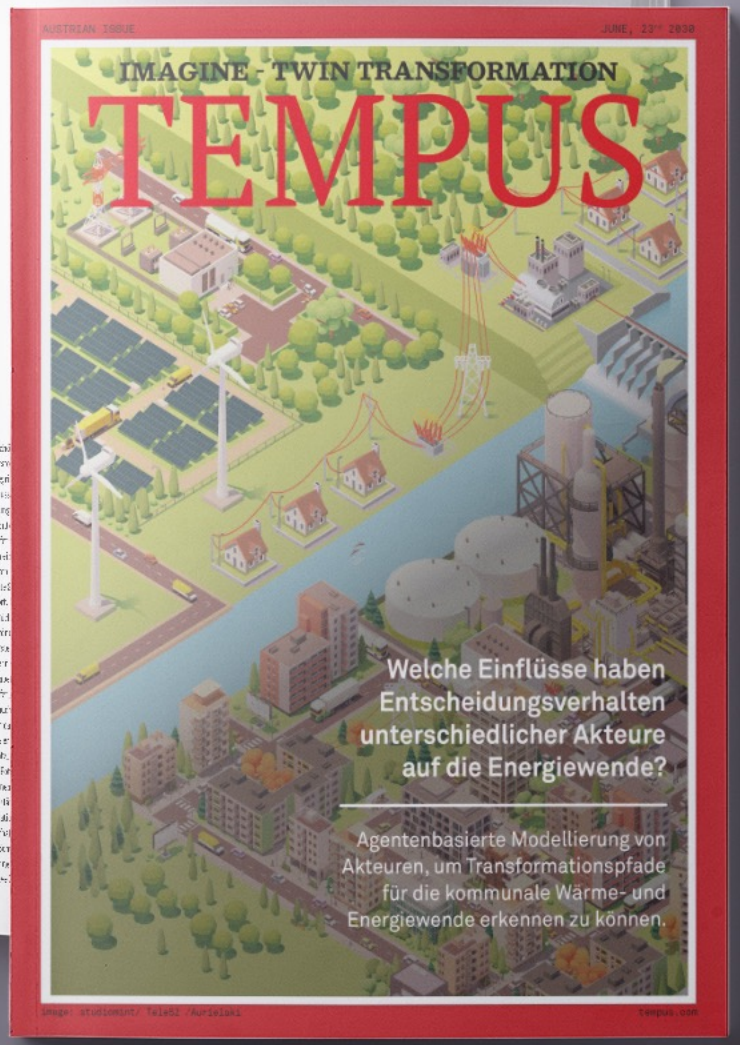


TEMPUS

In dem Forschungsprojekt erstellen wir Modelle von hypothetischen Bürger:innen als autonome Akteure mit jeweils unterschiedlichen Eigenschaften. Ergebnisse des Projektes sind interaktive Karten, die mögliche Transformationspfade für den Wärme- und Energiesektor unter Berücksichtigung technischer, wirtschaftlicher, sozio-ökonomischer und energiepolitischer Einflussfaktoren zeigen.



ABM4EnergyTransition

Agent-based Simulation of Transition Scenarios for regional Heating and Energy Transformation

Consortium:

TU Graz, Institute of Geodesy (Lead) | AEE Institut für Nachhaltige Technologien

École Polytechnique Fédérale de Lausanne (EPFL) - Laboratory of Human-Environment Relations in Urban Systems (HERUS)

Energie Agentur Stmk gGmbH | GISolutions e.U.

Stadtgemeinde Kapfenberg

- Jürgen Hahn | GISolutions e.U.
- Email: juergen.hahn@gisolutions.at

ABM4EnergyTransition

Goal

Establish an agent-based model to

- simulate and visualize the impact of
- public policies on individuals
- for the transition of municipal heat and
  energy consumption

ABM4EnergyTransition

Project Data

- 6 project partners
  - Consortium Lead: TU Graz Institute of Geodesy
    - Assoc.Prof. Johannes Scholz
    - Email: johannes.scholz@tugraz.at
- Duration: 24 months

ABM4EnergyTransition | Approach

identify the behavior of individuals and the interaction between public/policy makers in a quantitative survey

implementation of behavior and interactions in a novel agent-based modeling environment

with respect to

- demographic and socio-technical parameters
- geography and geographic data

present transition paths for most reasonable agent behaviors

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