

UNECE Sustainable Energy Week, Geneva, 25.09.2019

THE KOPERNIKUS PROJECT ENAVI



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KOPERNIKUS
ENAVI PROJEKTE
Die Zukunft unserer Energie

FOUR KOPERNIKUS PROJECTS FOR THE ENERGY TRANSITION



ENSURE – New electricity grids
Coordination: KIT

Foto: Schleswig-Holstein Netz AG



ENavi – System integration
Coordination: IASS

Foto: FONA/photothek



P2X – Storage
Coord.: RWTH Aachen, FZ Jülich

Foto: FONA/photothek, FZJ



SynErgie – Industrial Processes
Coord.: TU Darmstadt

Foto: Schott AG

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Universities



Non-university Research



Companies



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NGOs

100 Prozent
erneuerbar
stiftung



INNOGY
STIFTUNG
FÜR ENERGIE
UND GESELLSCHAFT

Regional Authorities



Municipal Utilities



Competence Partners

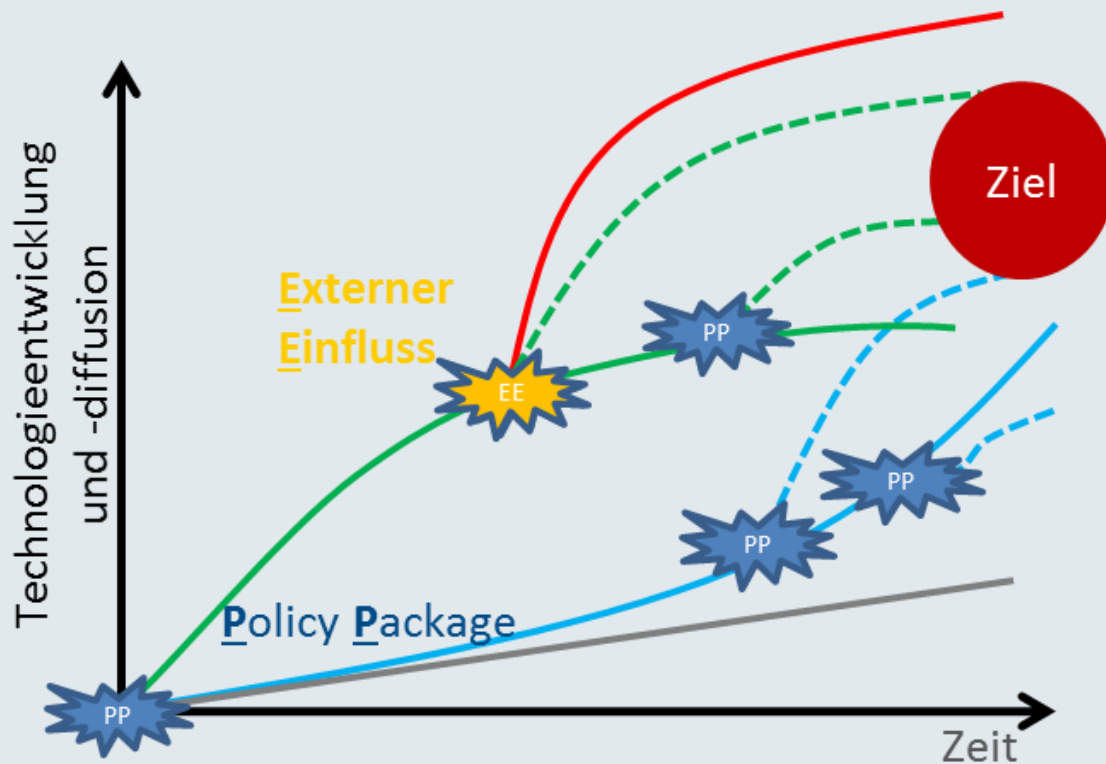
ABB AG
Becker Büttner Held PartGmbH
Berliner Agentur für Elektromobilität
Bundesverband CarSharing e.V.
Cluster EnergieForschung.NRW
deematrix Energiesysteme GmbH
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„ENERGIEWENDE“ - NAVIGATION ENAVI

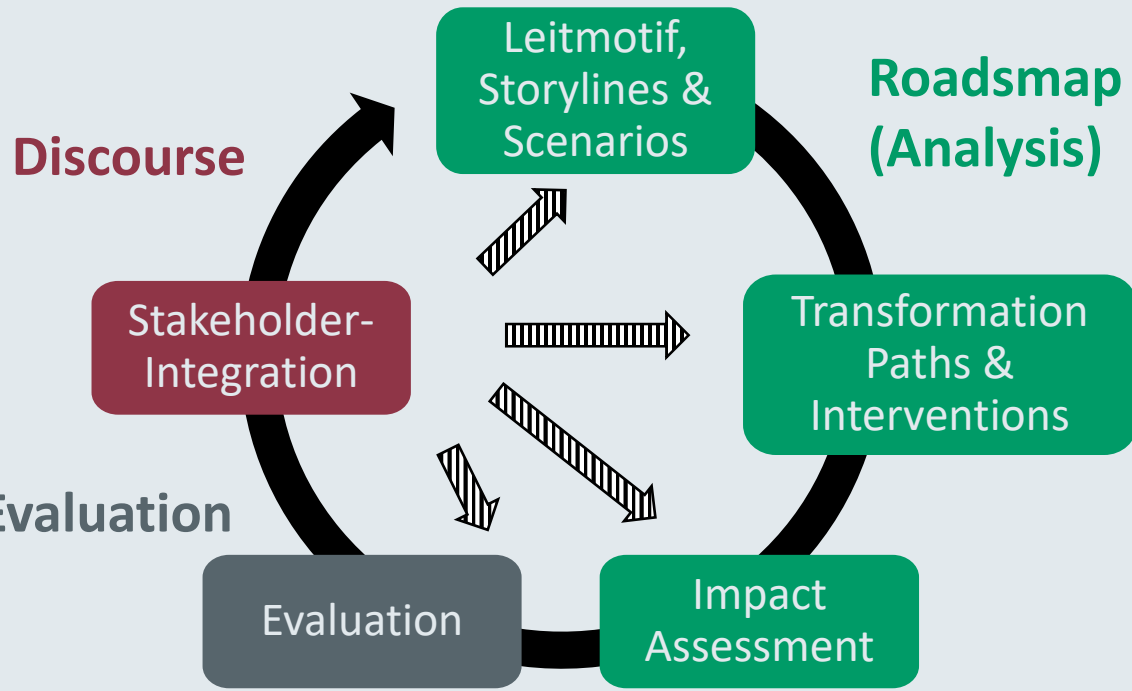


Development of a platform to better estimate the effects of policy decisions and **policy packages** (intervention impact assessment).

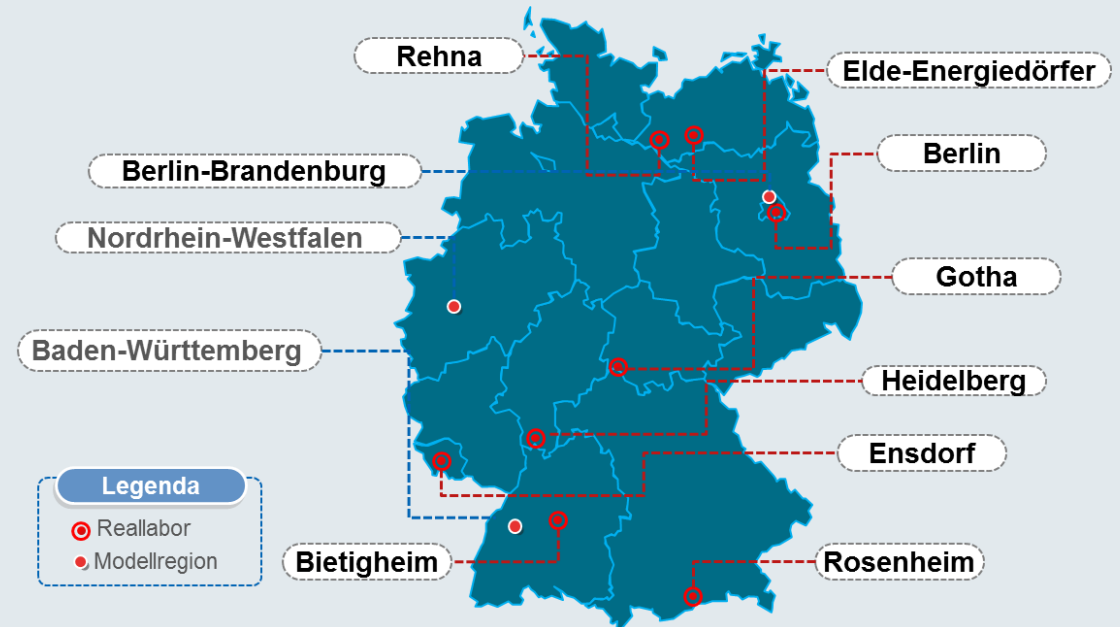
The **goals** of the energy transition can be achieved through various transformation paths (so-called **Roadmap**), which are always due to **exogenous influences** (e.g. international energy prices, European legal frameworks) or endogenous factors (e.g. acceptance of measures, exit from coal-fired power generation) to be readjusted again.

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ENERGY TRANSITION NAVIGATION SYSTEM



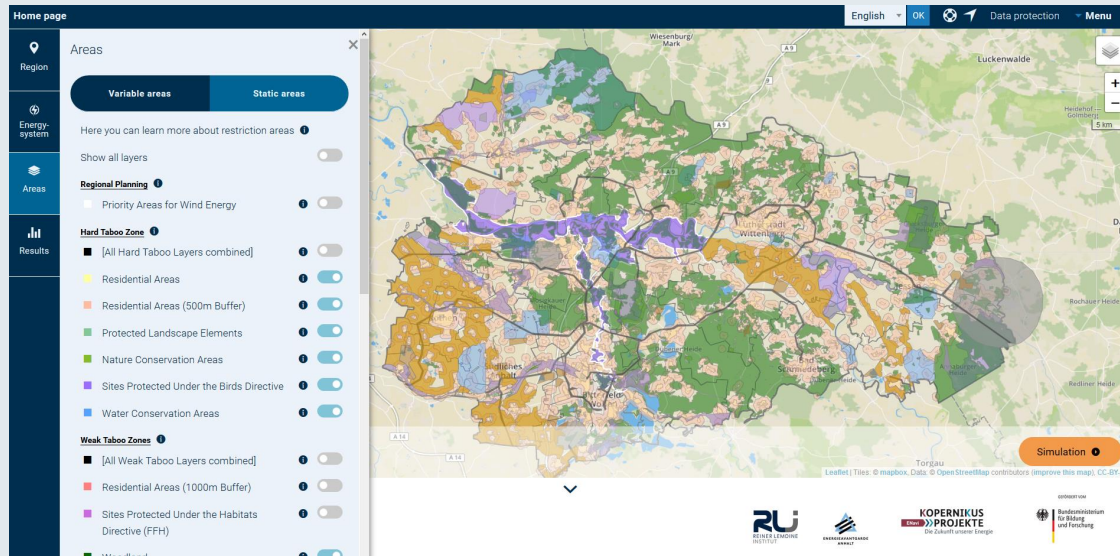
Through **stakeholder integration** and comparison with **real laboratories and model regions**, the science-based analysis are subjected to a practical test. The results of the discourse flow back to the Roadmap for optimization.



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STAKEHOLDER EMPOWERMENT TOOL – SUPPORTING REGIONAL ENERGY TRANSITION IN SAXONY-ANHALT



- › Browser based tool for regional energy supply scenarios with spatial references and constraints (land use/availability)
- › Enables multiple local stakeholders to participate in an early stage of the energy transition process
- › Facilitates public discourse of conflicting interests on one joined basis.
- › Vary parameter of the energy system, check spacial restrictions, let the model calculate and get your energy supply scenario

› https://wam.rl-institut.de/stemp_abw/

STAKEHOLDER EMPOWERMENT TOOL – SUPPORTING REGIONAL ENERGY TRANSITION IN SAXONY-ANHALT

Home page English OK Data protection Menu

Region

Energy-system

Areas

Results

Areas

Variable areas Static areas

Here you can learn more about restriction areas ⓘ

Show all layers

Regional Planning ⓘ

- Priority Areas for Wind Energy ⓘ

Hard Taboo Zone ⓘ

- [All Hard Taboo Layers combined] ⓘ
- Residential Areas ⓘ
- Residential Areas (500m Buffer) ⓘ
- Protected Landscape Elements ⓘ
- Nature Conservation Areas ⓘ
- Sites Protected Under the Birds Directive ⓘ
- Water Conservation Areas ⓘ

Weak Taboo Zones ⓘ

- [All Weak Taboo Layers combined] ⓘ
- Residential Areas (1000m Buffer) ⓘ
- Sites Protected Under the Habitats Directive (FFH) ⓘ

Simulation ⓘ

Leaflet | Tiles: © mapbox, Data: © OpenStreetMap contributors (improve this map), CC-BY-SA

DECISION THEATRE



› Mobility Transition Model (MoTMo)

- › models mobility demand in Germany based on individual choices and interactions

› Decision Theatre

- › discussions between researchers and stakeholders
- › experiment with the model, view consequences of decisions immediately
- › explore potential futures & improve the model itself

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