



GET.transform Workstream: Long-Term Energy Planning

9 April 2024

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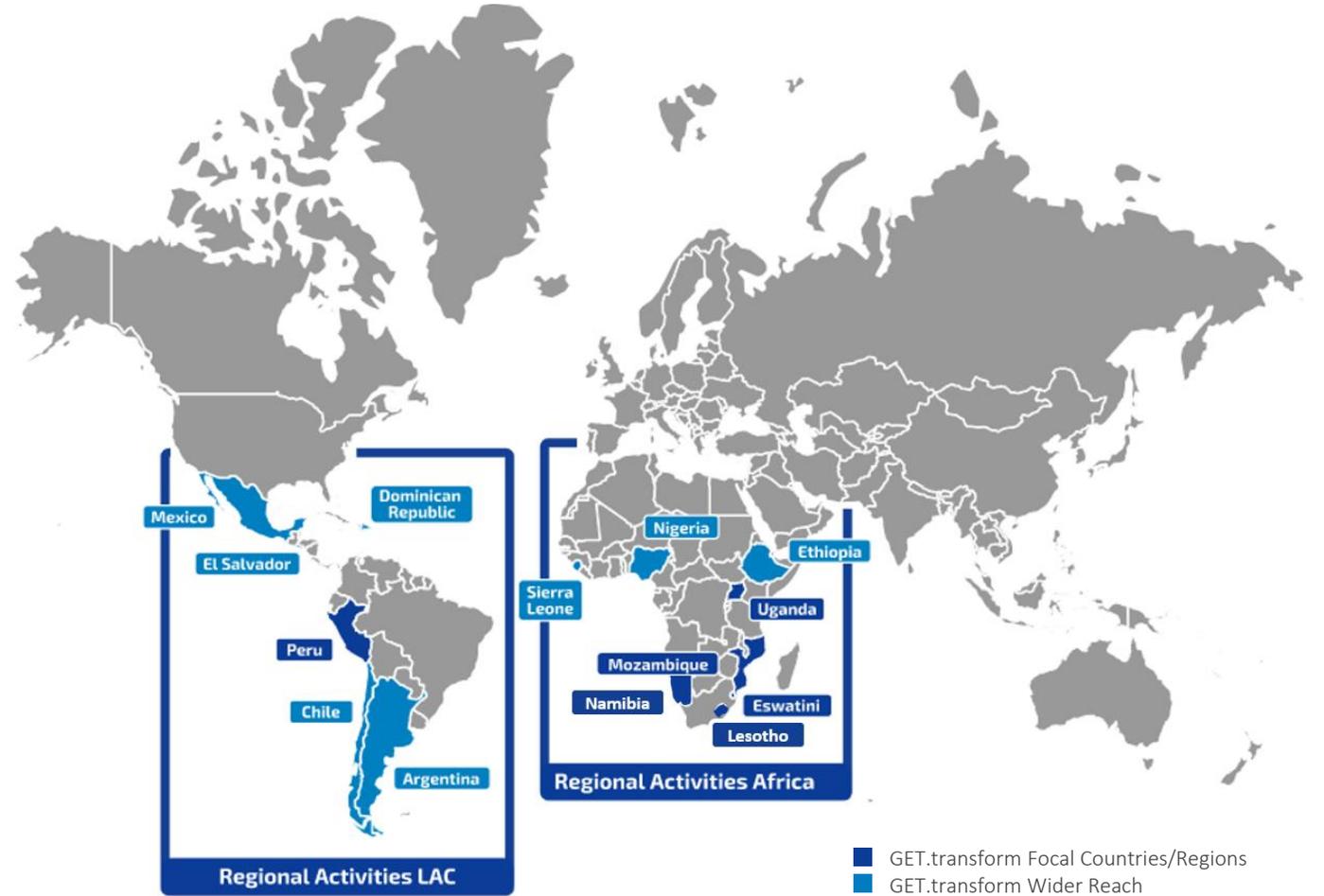


Contents

About GET.transform	3
Outline	5
Why Long Term Energy Planning	6
GET.transform Focus in Energy Planning	9
Prominent Components	11
Support Highlights	12
Deep-Dive into LTEP	13
Lessons Learned	14
GET.transform Offer	15
LTEP Advisory Services	17
Contact	19

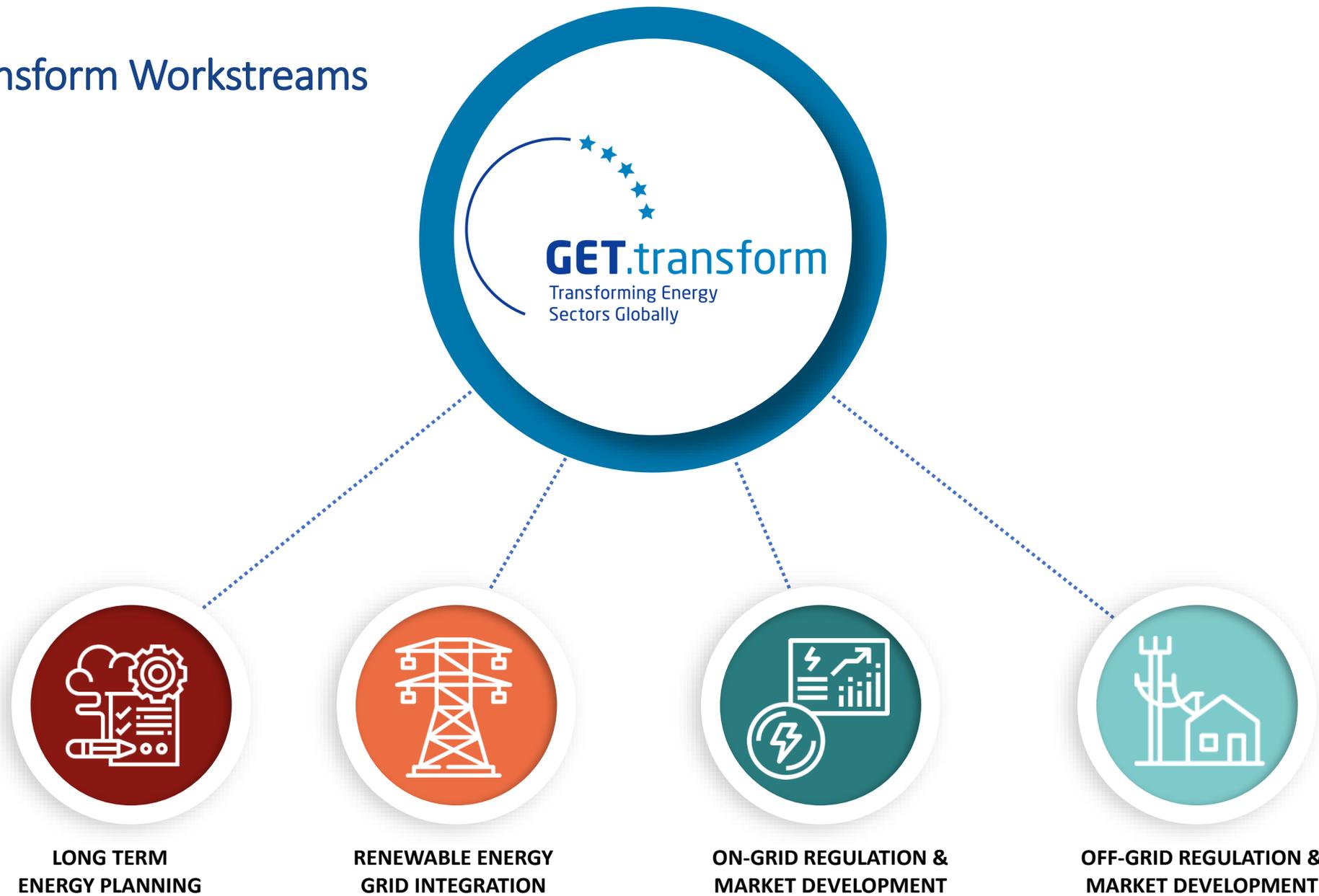
What is GET.transform?

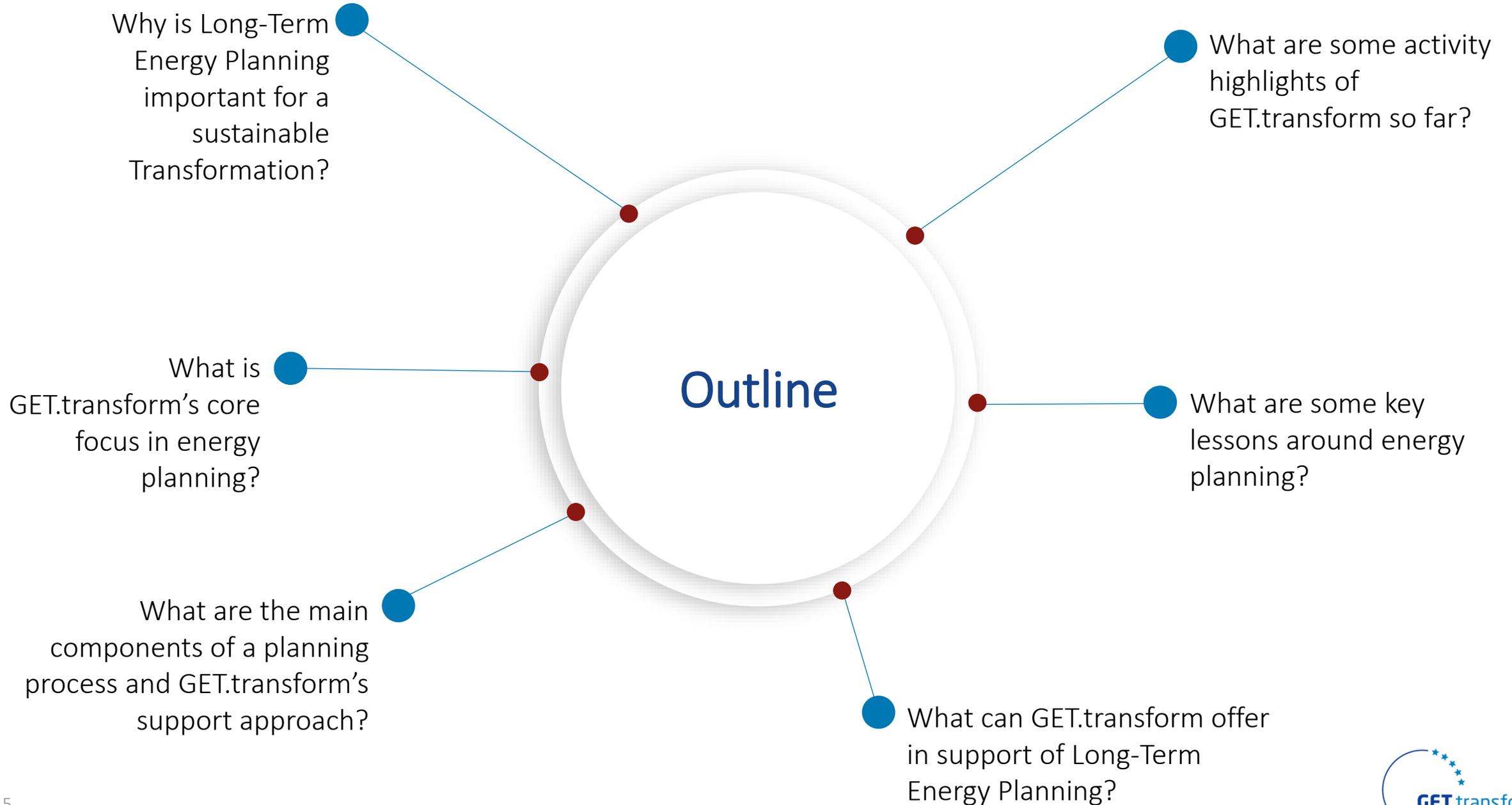
- Technical assistance (TA) and capacity building for the **public sector** to establish conducive policy and investment frameworks for the transition of the energy sector
- Hub of expertise with > 50 renowned (inter)national energy experts
- Implementation through **regional** and **country windows** with expert staff on the ground incl. secondments
- **Scaling across countries** through collaboration with regional institutions and other TA initiatives



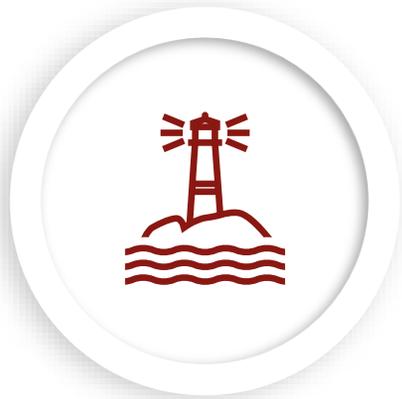
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GET.transform Workstreams

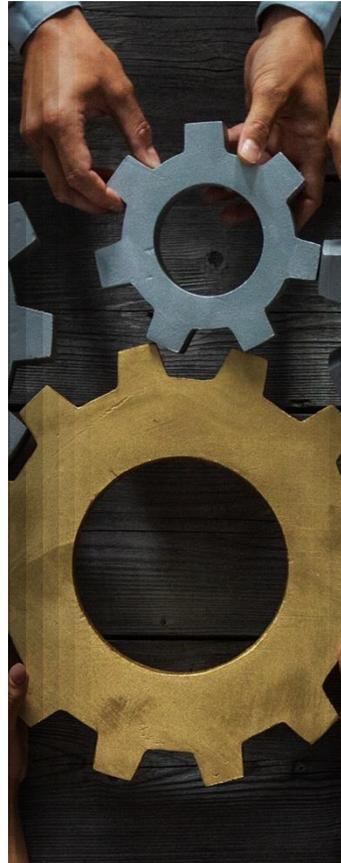




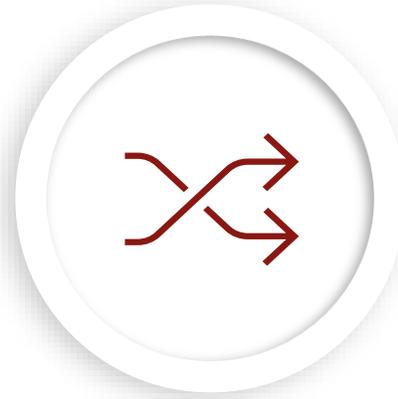
Why is Long-Term Energy Planning (LTEP) Important for a Sustainable Energy Transformation?



Like a **lighthouse**, **energy planning** makes it possible to **illuminate** a distant horizon for which it is necessary to prepare



At the crossroads where different **economic, social, environmental, geopolitical** and **security** considerations intersect, **energy planning** provides a **consistent framework** to evaluate options for the long-term



A **well-designed energy planning process** provides opportunities to foster **consensus**, build **trust** and **strong relationships** between actors



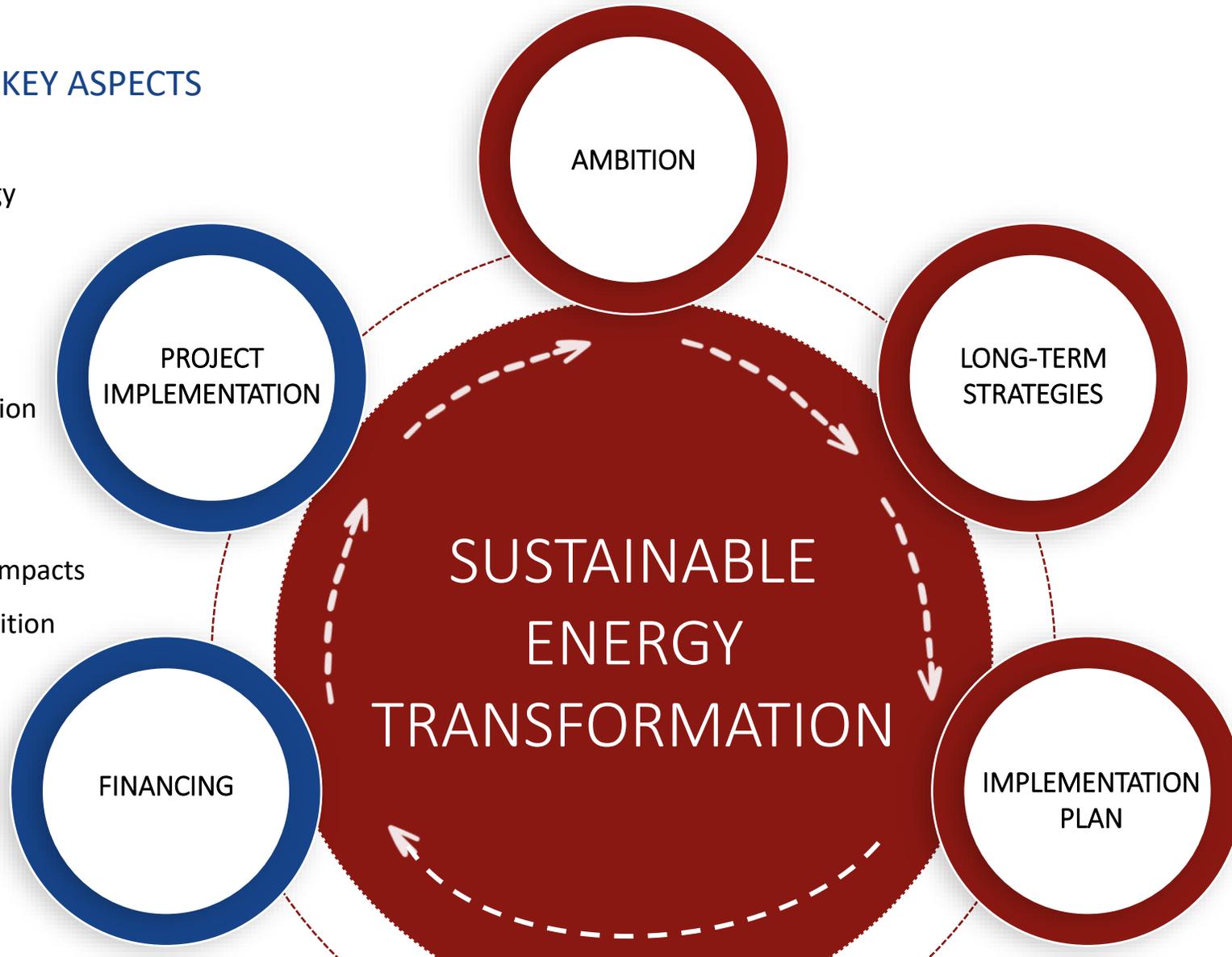


GET.transform supports **national and regional institutions** to better capture and represent **energy transformation** challenges and opportunities through structured and participatory **planning processes** and enhanced **long-term energy plans**

Why is Long-Term Energy Planning (LTEP) Important for a Sustainable Energy Transformation?

WHAT ARE THE KEY ASPECTS TO CONSIDER?

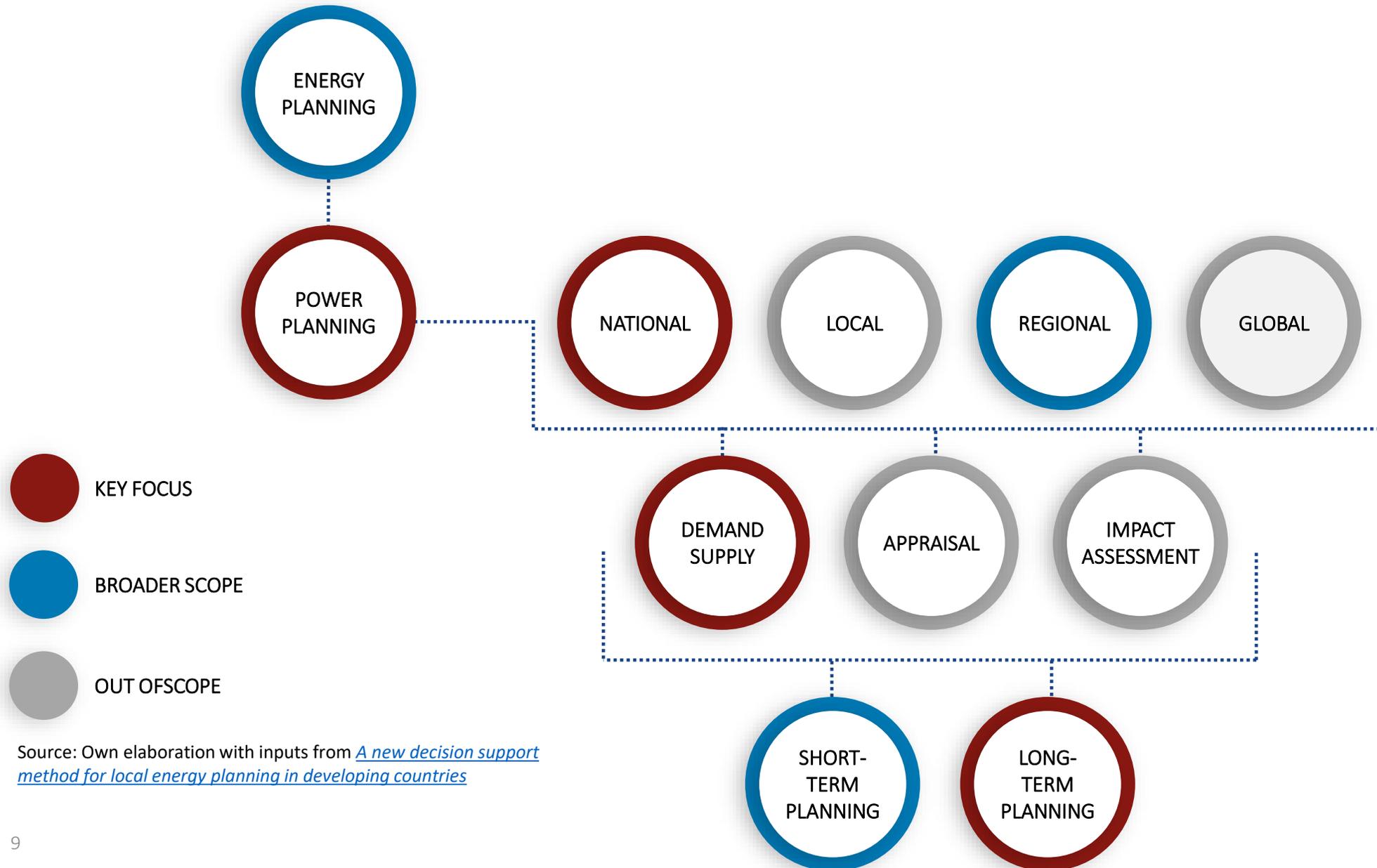
- Renewable energy representation
- Electrification of energy services
- Regional integration
- Climate change alignment
- Socio-economic impacts
- Just Energy Transition



LONG-TERM ENERGY PLANNING

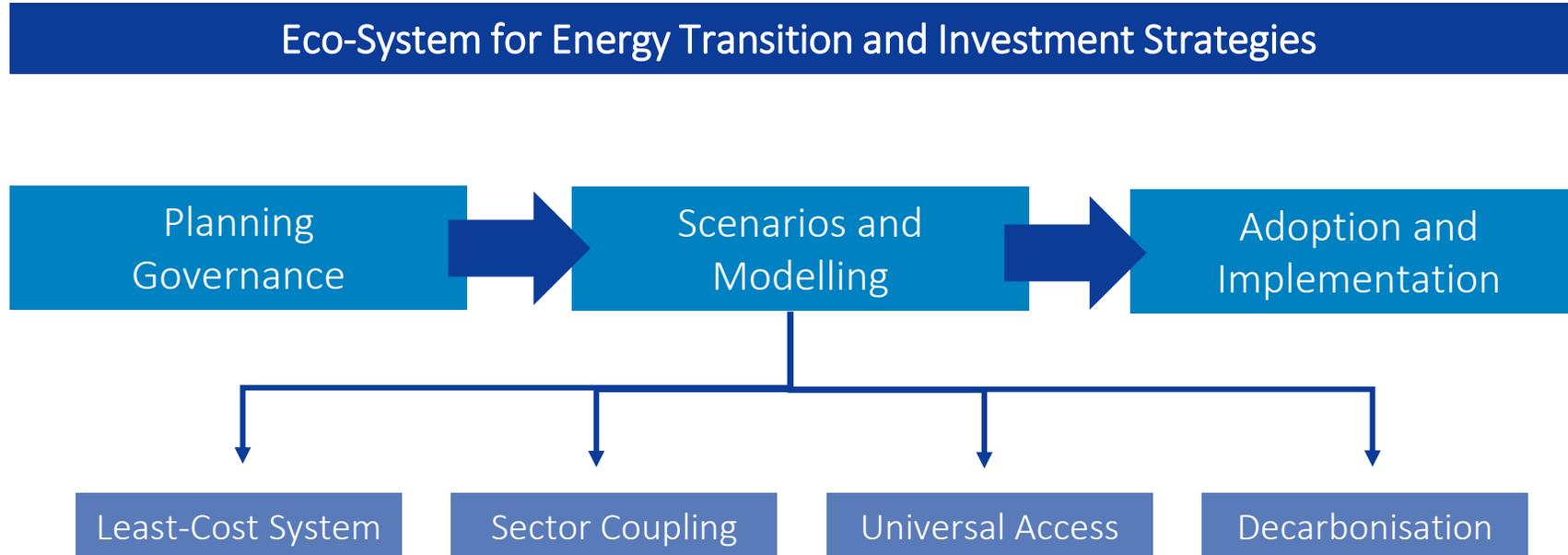
- Supports building a vision for the energy transition
- Transforms ambitions into strategies which in turn generate implementation plans
- Plays a central role in access to finance (via National Plans)

GET.transform Focus in Energy Planning

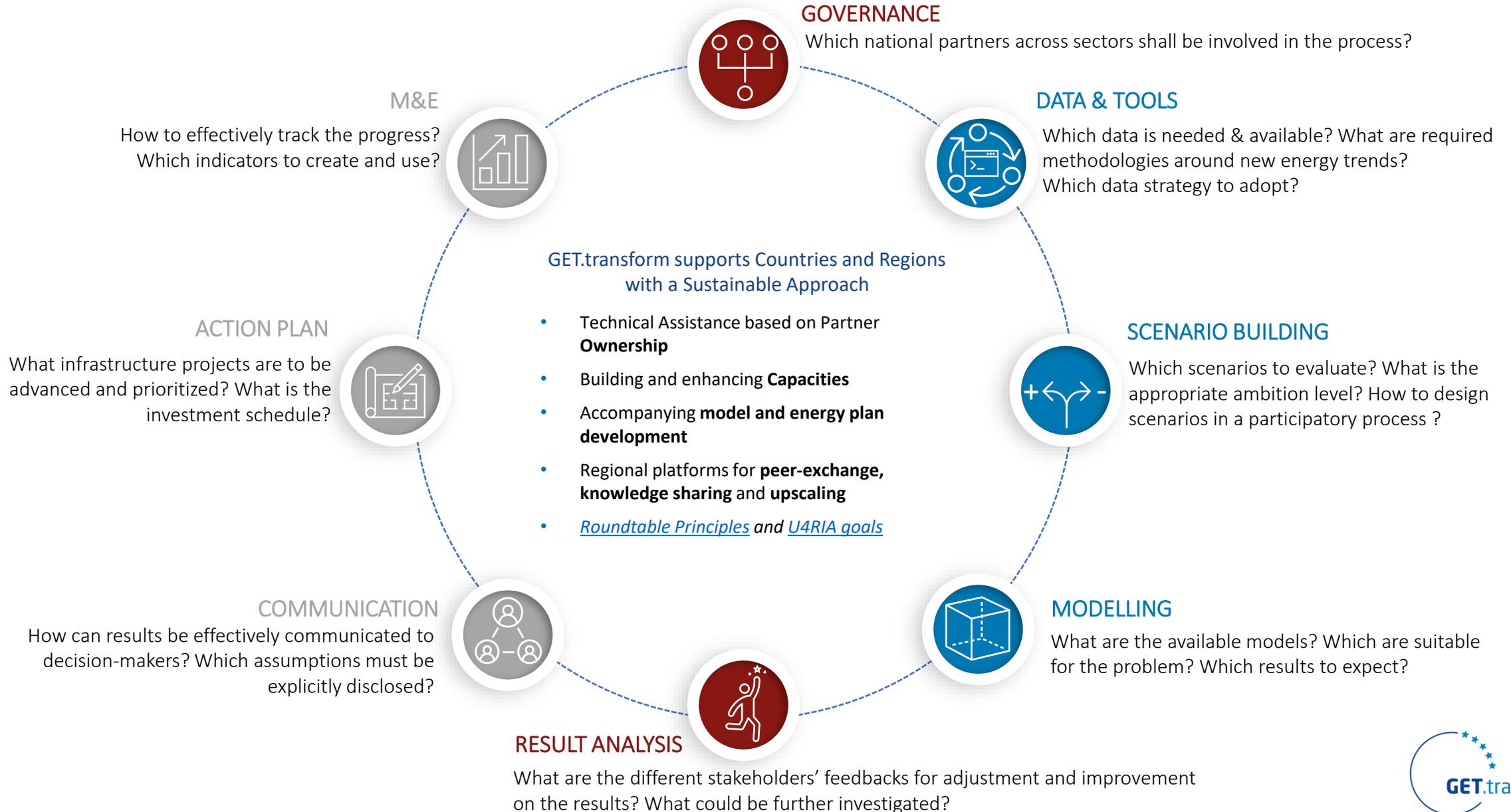


Source: Own elaboration with inputs from [A new decision support method for local energy planning in developing countries](#)

Long-Term Energy Planning Support Approach



Prominent Components of the Planning Process



GET.transform Long-Term Energy Planning Support Highlights

PERU

Strengthening planning capacities, expanding energy modelling and enhancing the National Energy Plan to advance the energy transition

LAC REGIONAL

Strengthening capacities through peer exchange and summary of best practices on LTES of 14 LAC countries (jointly with UN ECLAC and IRENA)

ESWATINI

Supporting investment decision making through an enhanced short-term generation expansion plan

AFRICA REGIONAL

Supporting knowledge products development for the 5 African Power Pools in the African CMP

Strengthening capacities through peer exchange and summary of best practices on LTES of 10 Africa institutions (jointly with AUC and IRENA)

Deep-Dive into Long-Term Energy Planning Support in Peru



OBJECTIVE

Peru strengthens its energy transition **planning practices** and **capacities** and has an updated and official **national energy plan**



THE CHALLENGES

- **Modelling and scenarios** do not yet properly integrate **transition considerations**, e.g. renewable energy competitiveness, distributed generation, electrified transport, 2050 time-horizon, etc.
- The National Planning Unit faces **capacity challenges** to operate and update the national planning system models.
- The **Planning Process** needs to be revised for the energy plan to be an official national document.



OUR SUPPORT

Support Peru's **Ministry of Energy and Mines (MINEM)**, with **expertise, capacity building, provision of modelling inputs and methodologies** for the enhancement of the planning system and update of the National Energy Plan



EXPECTED RESULTS

Improvement of **energy planning practices, strengthened planning capacities, identification of opportunities for the energy transition.**



SCALING UP

Upscaling through peer-exchange at the Regional Forum of Energy Planners of **LAC – FOREPLEN**

Lessons We Learned that We Want to Help Our Partners with

1

The planning process is as important as the model

2

Using existing capabilities and building on those help ensure planning sustainability

3

Interinstitutional coordination and alignment are key for a holistic transformation

4

Participatory processes promote collaboration and help create consensus

5

Scenarios are a great way of dealing with uncertainty and exploring alternatives

6

Building, reviewing, updating and improving planning processes transparently ensure trust

What GET.transform Offers

- Trusted **international** and **regional partner** institutions
- Combination of **technical** expertise, **cultural** awareness, **local** knowledge
- **Relations** to public entities internationally, allowing for facilitation of experience exchange
- Long-term staff **on the ground**, close relationships to partners
- In consequence, **in-depth knowledge** on political situation, context, challenges, cooperation between public bodies
- Expertise in **organisational development**
- Partner-centred process with strong ownership, ensuring **sustainability** of the support



Partnerships and Transformation Experts

REGIONAL



INTERNATIONAL



TRANSFORMATION EXPERTS



Long-Term Energy Planning – Advisory Services



Long-Term Energy Planning (LTEP)

Overarching Activities

Capacity Building

Knowledge Products

Peer-to-Peer Exchanges

Technical Assistance

Key Topics

Planning Governance

Vision Statement and Process Definition

Governmental Mandates and Responsibilities

Institutional Alignment and NDC Integration

Closed and Public Consultation Processes

Scenarios and Modelling

Techno-Economic Optimisation Studies for IRP¹, PSP² and IEP³

Specific Support Studies for Energy Demand, Technology Development and Costs

Data Governance Processes

Sustainability Concept

Adoption and Implementation

Political Adoption

Implementation and Communication Plan

Investment Promotion with Financiers

Enabling Legal and Regulatory Measures

Key Partners

Energy Ministry, National and Regional Energy Planning Unit

¹IRP: Integrated Resource Planning

²PSP: Power System Planning

³IEP: Integrated Electrification Planning



“There is no favourable wind for the sailor who doesn’t know where to go”

Seneca

Thank You for Your Attention

Presented by:

Dr. Gildas Siggini

Technical Advisor Long-Term Energy Planning

gildas.siggini@get-transform.eu

+32 487 472 700

Our Website:

www.get-transform.eu

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