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Workshop: How to model the Ukrainian energy system
Day one – Which models exist and how to use them

Approaching model-based scenario analysis “as a means of understanding”



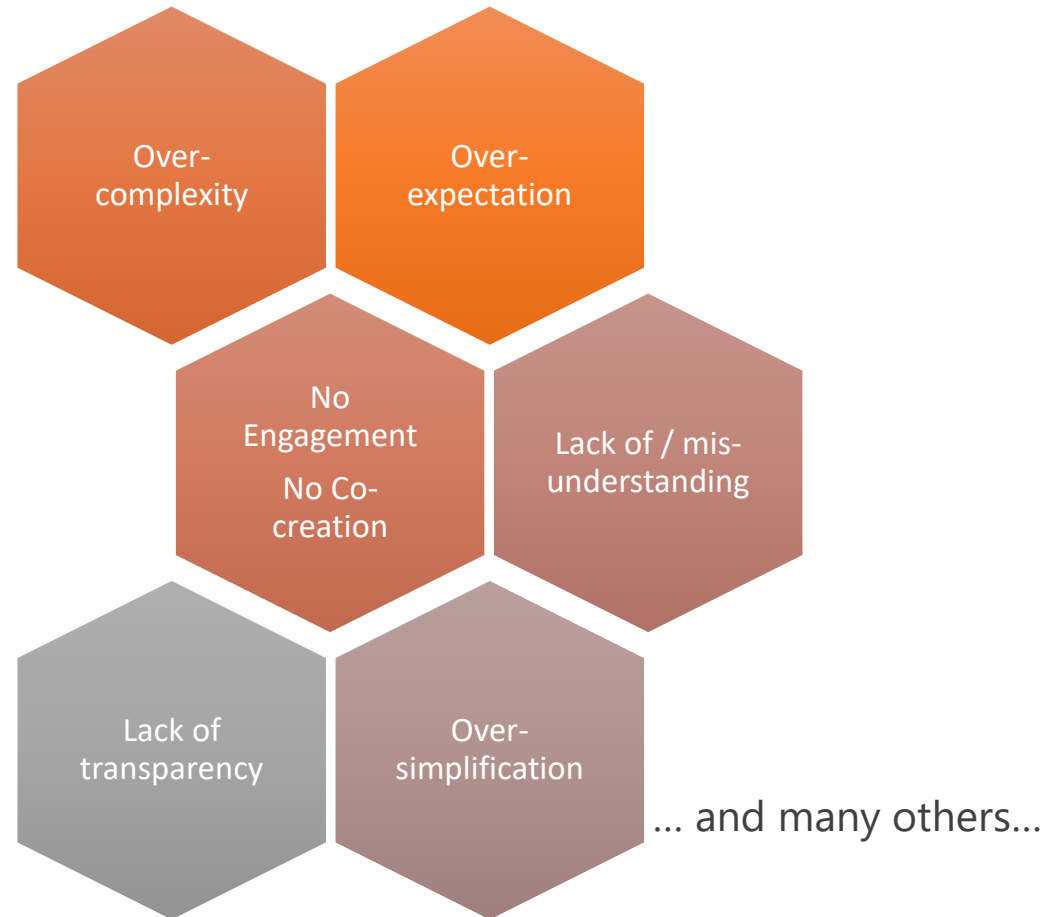
www.paris-reinforce.eu

Rocco De Miglio (Energy system modeler and analyst)

Issue: gap between
"theory and practice"

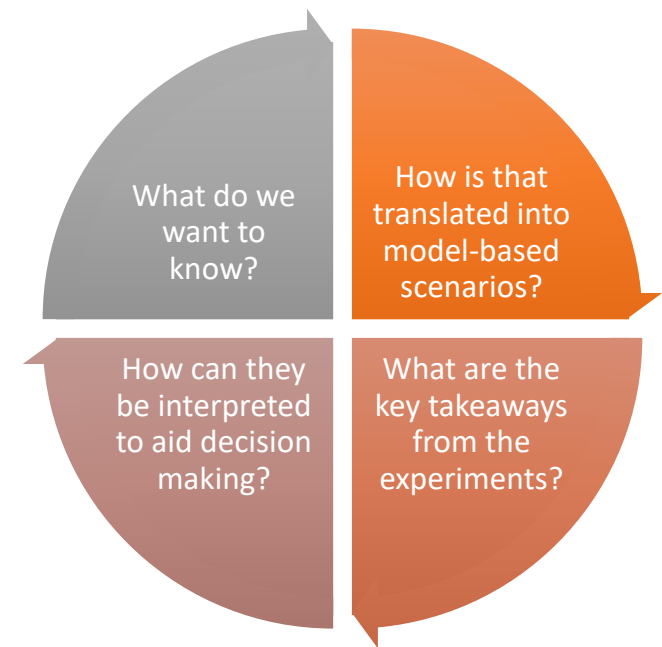
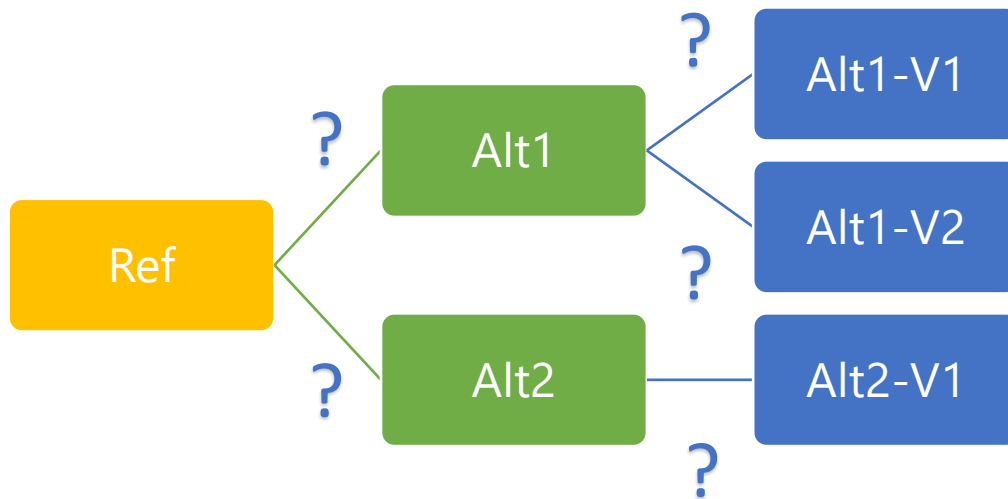
Goal: to share some elements/experience
for your further consideration and
discussion

Message: No (standard/unique)
methodology for developing model-based
scenarios *BUT*
some "weak" practices



Energy scenarios serve as **points of comparison** to evaluate sensitivities and multiple outcomes.

Single scenarios are thus “rarely helpful”, but should rather be combined with, and compared against, diverse alternatives as part of a **larger strategic exercise**.



Multiple explorations: learning by exploring / learning by comparing



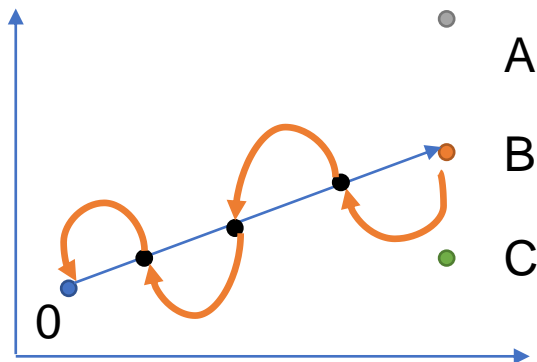
National objectives and targets*

1 (what?)

Include "targets" which must be met in the scenarios

(e.g. EE target, RES target or Emission targets, etc.).

***Targets** define specific quantitative "thresholds" that must be achieved.



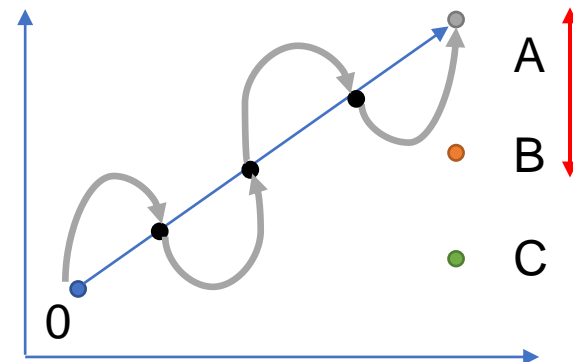
Policies and measures*

2 (How?)

Include a set of policy "mechanisms"

(e.g. CO2 tax, Feed-in tariffs, standards, etc.) and the effects on the energy- and environmental-related indicators.

***Measures** are instruments to implement the policies.



Key dimensions of the explorations / co-creation (in the framework of the *Central Asia Caspian energy-climate analysis*)

National Climate
ambitions
(2030 and beyond)

Regional Climate
ambitions (long-term)

International energy
prices

Technology standards

Water consumption
(power sector)

H2 market (I/E)

Promotion of H2
domestic use

Regional integration -
cooperation

- Water availability
- H2 market
- Trades / Trading schemes

Belt and Road
Initiative

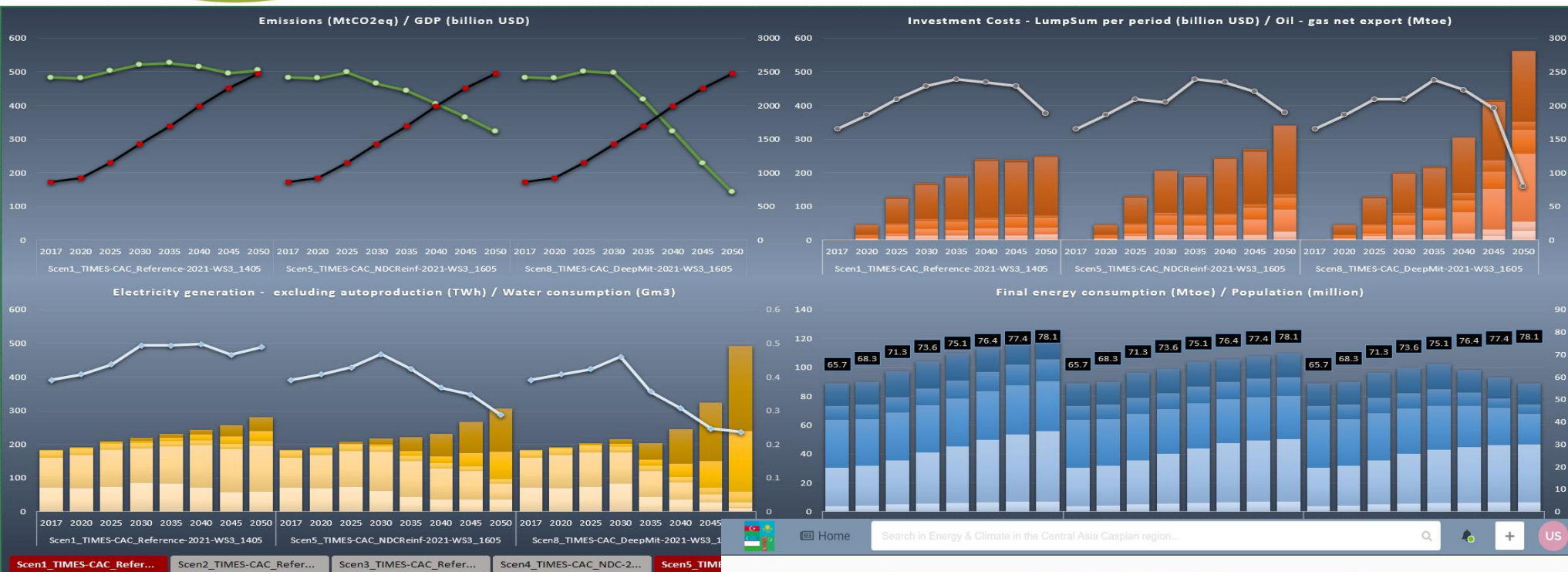
Other international
funds (allocation)

Tariffs
(energy subsidies)

Variants/Uncertainties
(prices, technologies,
targets)



Stakeholder engagement tools



Dashboard

Forum

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Paris Reinforce - CAC

Takeaways

CAC Workshop 3: <https://paris-reinforce.eu/news-events/project-news-events/decarbonisation-central-asia-and-caspian-region-third-final-series>

CAC Workshop 2: <https://paris-reinforce.eu/news-events/project-news-events/decarbonisation-central-asian-and-caspian-region-first-series>

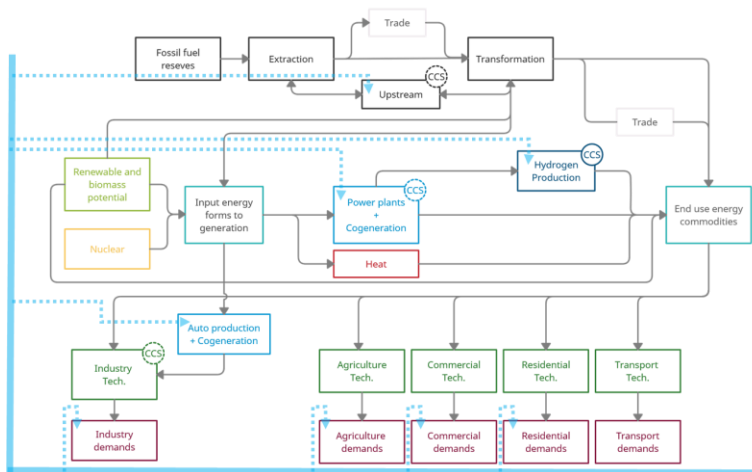
CAC Workshop 1: <https://paris-reinforce.eu/news-events/project-news-events/understanding-regional-aspects-central-asian-and-caspian-region>

Strategic exercise

Search for insights

Mathematical exercises ≠ Decision support analyses

Transparency



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Thank you!

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