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CENTRAL EUROPE



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PROSPECT2030

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WP T2

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How to compare energy action plans? An evaluation method proposal



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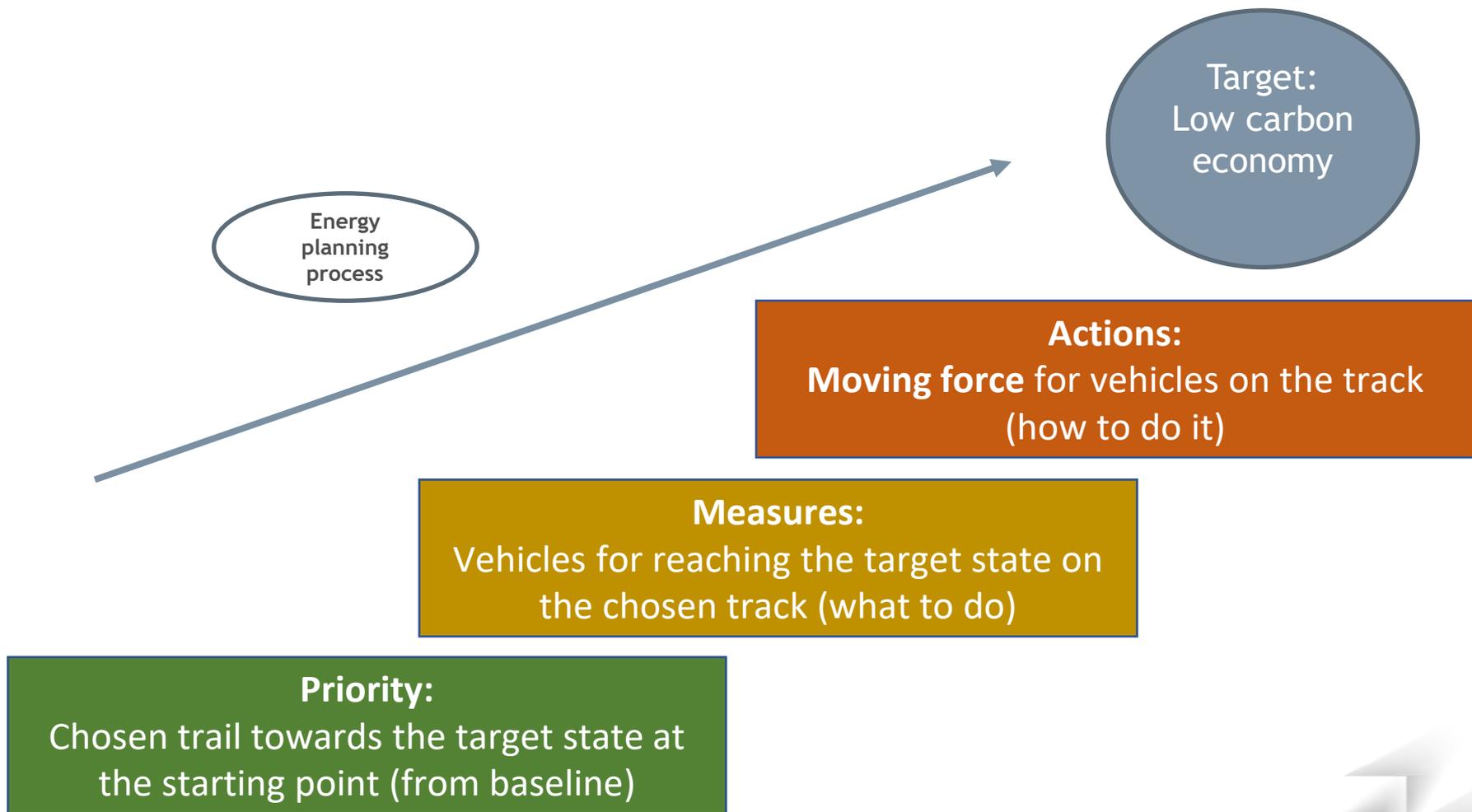


The method of fruitful evaluation is bound to the method of the construction of the energy action plan

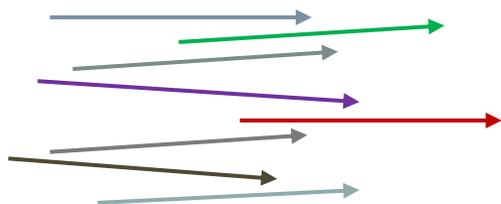
- different premises can be compared in their nature, but not in their applicability within the relevant systems (e.g. roman law vs. anglo-saxon law)
- a conclusive comparability is based on a comparable structure of the components
- Within a standardized system, framework conditions cannot distort the comparability of result as much, but can even be introduced as a weighting factor (e.g. in an impact/effort relation) and cast a closer light on the result



STANDARDIZATION REQUIRED

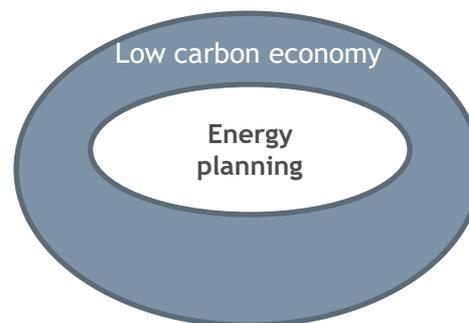


STANDARDIZATION REQUIRED



The baseline:

Overall development of various energy related priorities in different sectors, affecting the region. Some convergent (e.g. efficiency, mobility, low emissions), some divergent (e.g. low consumption but fossil based), some neutral (e.g. independency, security)

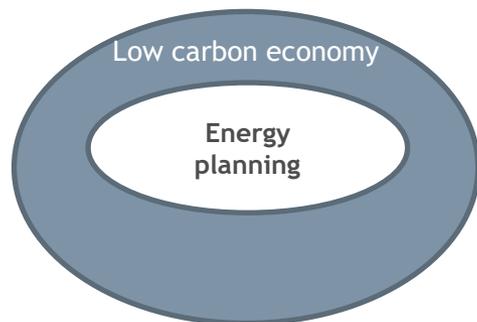


The filter:

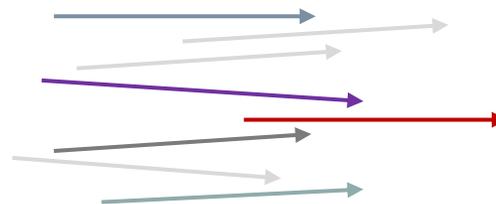
Examination of developments with the highest potential to hit the target under the region's conditions



STANDARDIZATION REQUIRED



Passing the filter.....



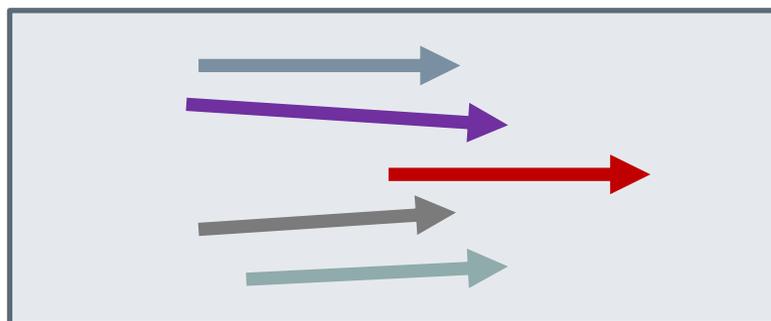
The priorities:

Selection of key energy priorities:

Developments converging to the target **YES**

Developments neutral **YES, if supportive**

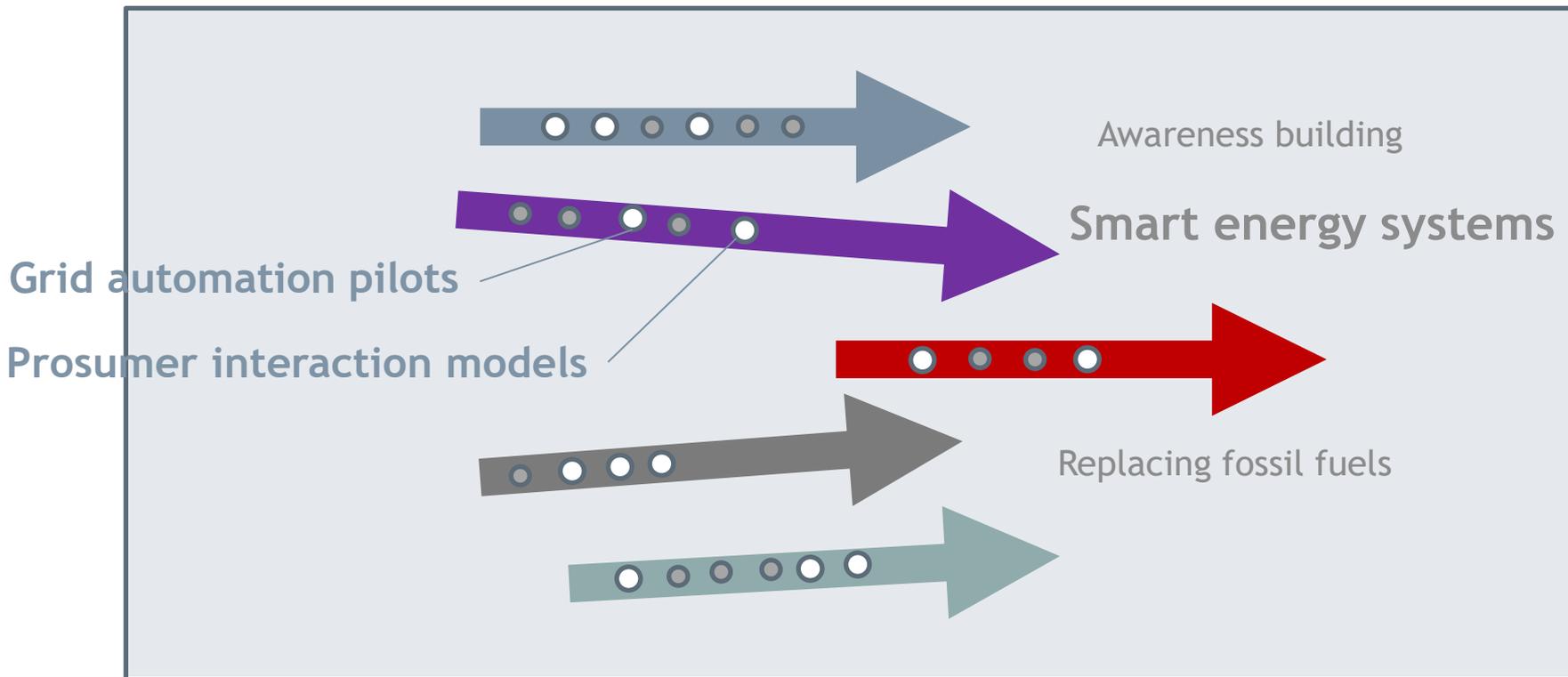
Developments diverging from the target **NO**



Result: Set of key energy priorities



PRIORITIES AND MEASURES - TRAILS AND VEHICLES



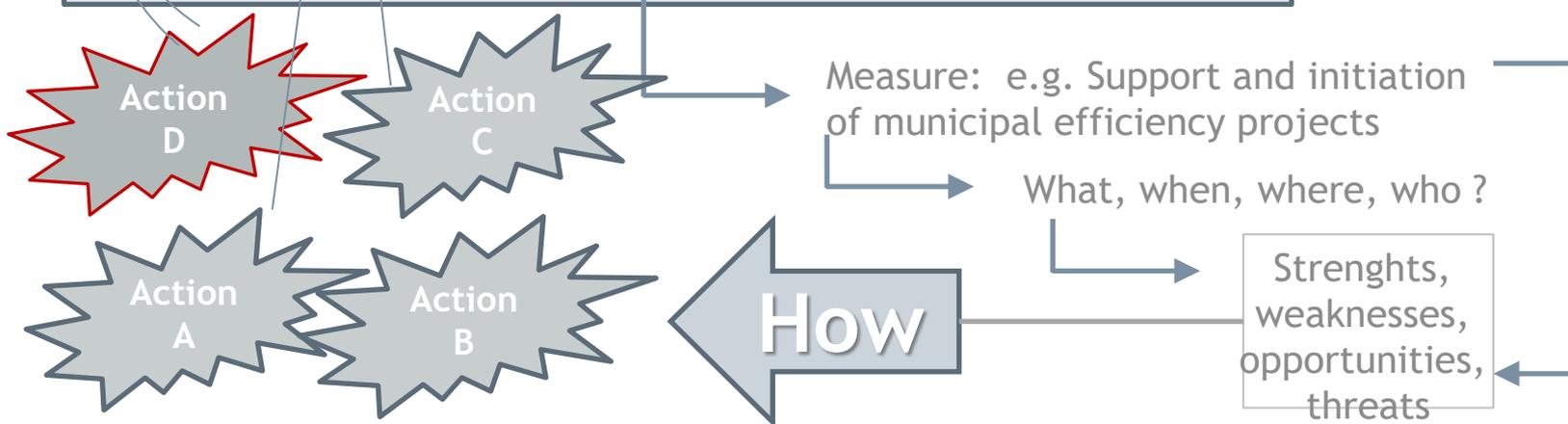
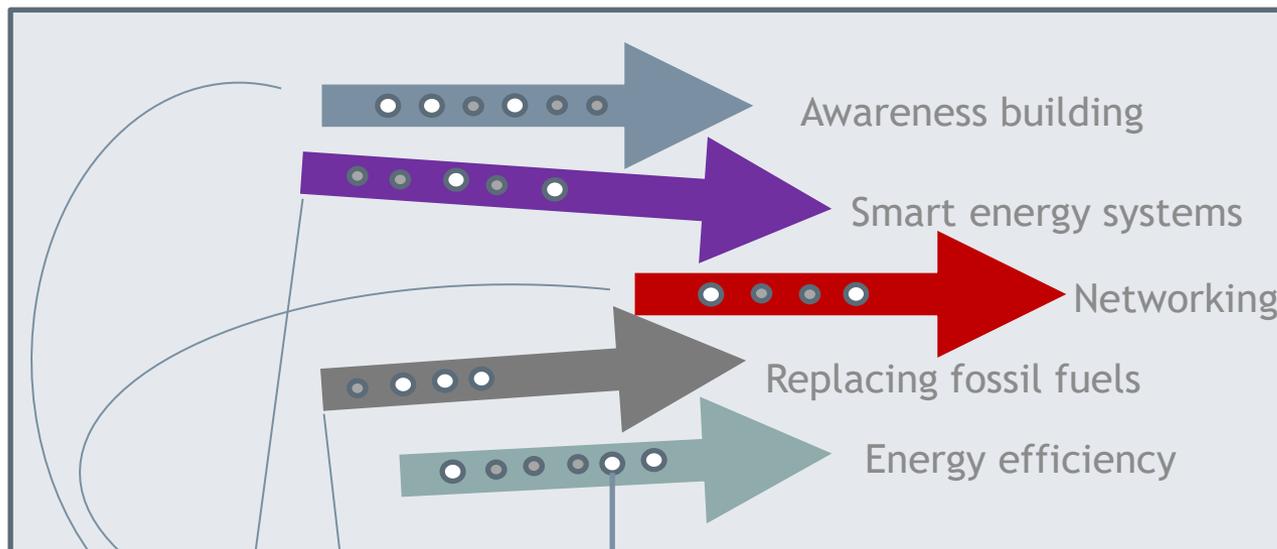
Selecting the most suitable measures out of the many options contained in the priority

○ Suitable

● Non suitable



ACTIONS - THE DRIVING FORCE

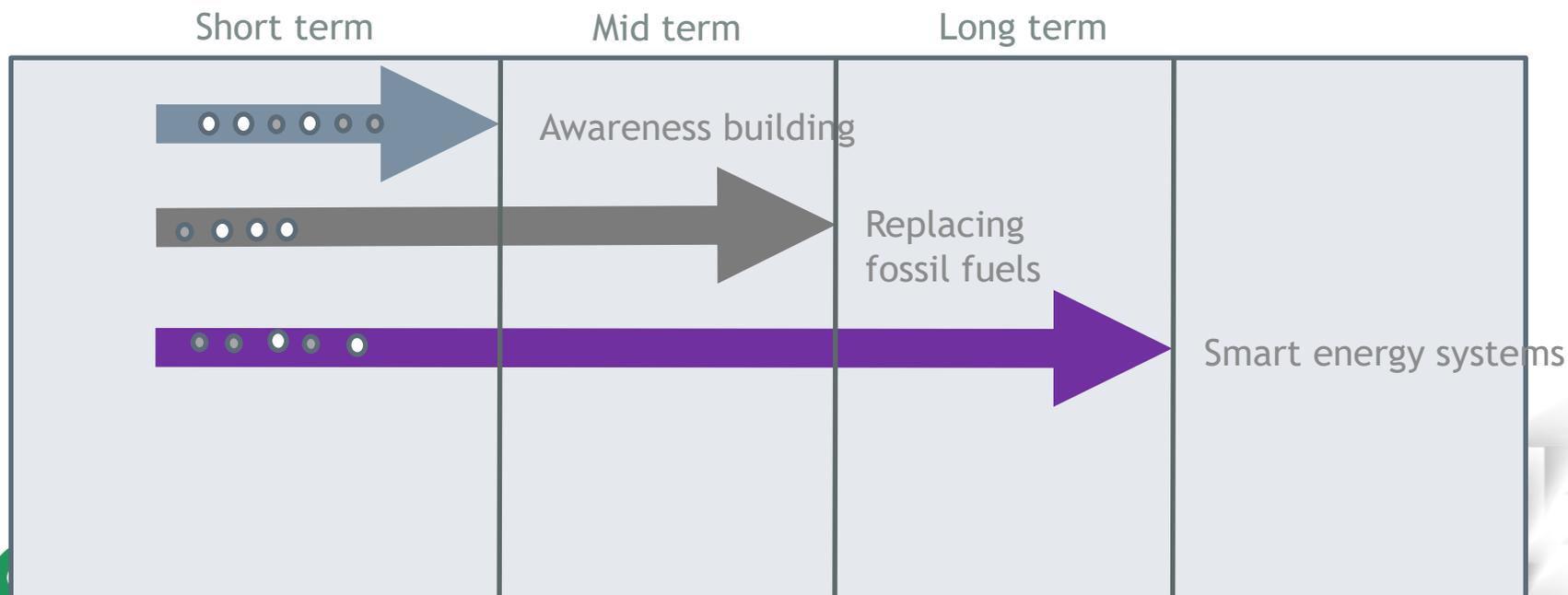


SCENARIOS - SCHEDULING OF ACTIONS

Scenario arrangement in PROSPECT 2030:

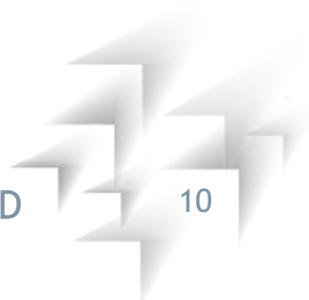
The development of the scenarios is not based on the assumption of possible development trends, but fixed to the unfolding of the measures in the course of time, secured by the chosen actions according to the developed action-plan (target scenarios)

For each timestep a single target value is estimated. Thus, although relevant, not the target value itself is object to the scenario, but the actions to reach this value



Action = How to..... use the instruments at hand:

- Planning instruments: e.g. assignment of selected zones for renewable energy generation
- Policy / regulatory instruments: e.g. obligation to connect to existing district heat grid in case of new built objects
- Financial instruments: investment subsidies, supported loans, tax reliefs
- Organisational instruments: e.g. public participation models
- Business instruments: e.g. purchasing syndicates for electricity, energy communities
- Soft instruments: awareness building, networking



Priorities and measures are often specific to the respective region and not overall usable criteria.

PRIORITIES		MEASURES	
promot*	6	promot*	23
region*	6	region*	20
efficiency	5	building	14
RES	5	public	12
building	4	heat	11
network	3	sector	10
renewable	3	mobility	9
data	2	municipal*	9
district	2	support*	9
financ*	2	research	8
govern*	2	financ*	7
grid	2	manage*	7
heat	2	network	7
municipal*	2	electric*	6
plan*	2	pilot	6
smart	2	renov*	6
SME	2	storage*	6
strategy	2	plan*	5
awareness	1	renewable	5
capacity	1	resident*	5
climate	1	waste	5



A standardized set of existing instruments can be applied to each region, independent from its size or its particularities. The instruments are structured in very similar ways, although the naming may differ....

Examples:

- Measure „Efficiency“ - related action: use of given set of planning instruments to gain more energy efficiency
- Measure „Increase of share of renewable energy“ - related action: use of financial instruments for a higher quote of renewable energy generation
- Measure „Carbon reduction in the heating sector“ - related action: applying most suitable business models to supply large parts of the population with renewable heat



Actions make use of a set of instruments, which are....

- are more ubiquitous and thus more applicable for evaluation than measures
- carry the potential for better benchmarking and mutual learning
- can be applied to a bundle of measures simultaneously

Priorities are not necessarily comparable

e.g. awareness raising vs. electricity grid optimization

Measures are not necessarily comparable

e.g. promotion of energy communities vs. Public transport optimization

Actions are comparable, but may regionally differ in weight

e.g. use of funds, business models etc. for increasing efficiency measures



ACTIONS - THE DRIVING FORCE



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