

FFE

District heating supply transformation – Strategies, measures and status quo of network operators transformation phase

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Inhalt



1

Background on analysis

2

District heating transformation matrix

3

Transformation strategy for heating transformation

4

Conclusion, outlook on paper insights and future work



Background and need for analysis

Missing knowledge exchange on district heating transformation with regard to

- Measures
 - Types of measures
 - Dependencies between measures
 - Structure
- Strategy development
 - Timely prioritization of steps
 - Needed data and information as well as detailedness
 - Relevant stakeholders and best practice in approaching them

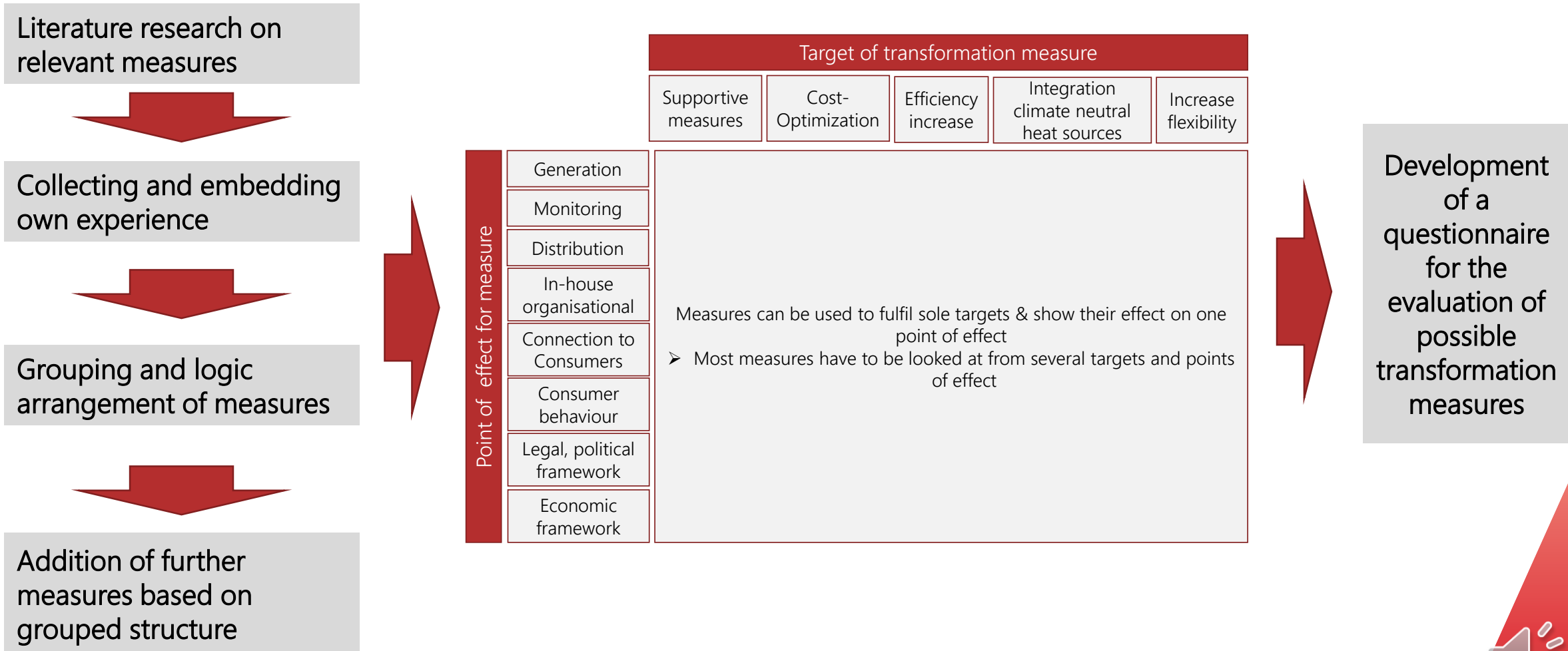
Initiation of [District Heating Competence Network](#)



- Detailed Status Quo analysis with nine district heating operators regarding their current status of district heating transformation and the future strategy



Course of action for the development of a workflow regarding the development of the transformation matrix



Course of action for the development of a workflow regarding the development of a transformation strategy

Literature research on relevant steps

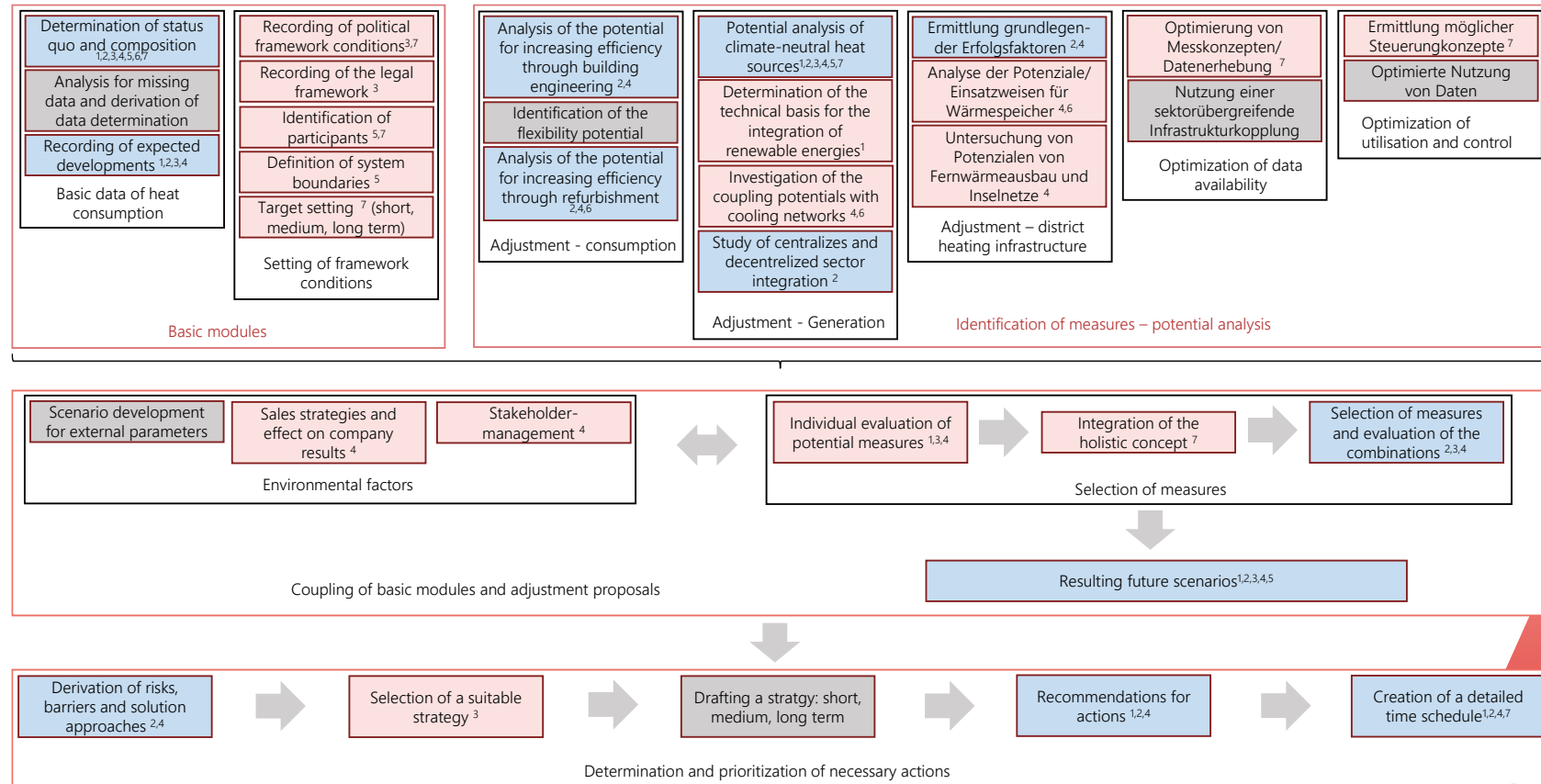
Grouping and logic arrangement of steps

Collecting and embedding own experience

Derivation of logic sequence of steps

Depiction of findings for final check

- FfE: [Heat transition Munich](#) Method
- Steps from literature (see slide 7)
- Own steps/ideas from project



Conclusion, outlook on paper insights and future work

Conclusion

- Up to now, no standards on district heating transformation (strategy and measure analysis) exist
- Discussions based on the generated questionnaire allowed the suggestion of
 - transformation measures
 - next steps regarding strategy development
- Discussions based on the generated questionnaire allowed the addition of further relevant steps which have to be made within strategy development



Future work

- Real life check of:
 - Transformation measure applicability check list
 - Duration of strategy development steps
 - Assessment of District Heating Competence Network

Outlook on paper insights

- Evolution of status quo of district heating operators transformation strategies
- Prioritization of transformation measures
- Further development of current analysis regarding district heating versus decentralized heat supply

Sources for strategy assessment

| | |
|---|---|
| 1 | IFEU; GEF, AGFW (2013): Transformationsstrategien Fernwärme |
| 2 | FfE (2020): Klimaneutrale Wärmeversorgung in München 2035 |
| 3 | AIT Austrian Institute of Technology GmbH (2018): Entwicklung von zukunftsfähigen Versorgungsstrategien für Fernwärmenetze - Tools und Methoden |
| 4 | FfE (2020): Wärmewende erfolgreich gestalten – Impulsvortrag für den Strategieworkshop des Verwaltungsrates der Stadtwerke Landsberg |
| 5 | Deutsches Institut für Urbanistik (2017): Kommunales Transformationsmanagement für die lokale Wärmewende - TransStadt-Leitfaden |
| 6 | ISE (2020): Eneff:Stadt - Weingarten 2020 Monitoring und Optimierung |
| 7 | Adelphi (2018): Climate smart Hyllie - Fallstudie im Rahmen des Projekts Evolution2Green – Transformationspfade zu einer Green Economy |





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