

Criteria of vulnerability and strategies of resilience in recovery plans

SUR Project >> ARTUR: Approaches towards Urban Resilience in Ukraine

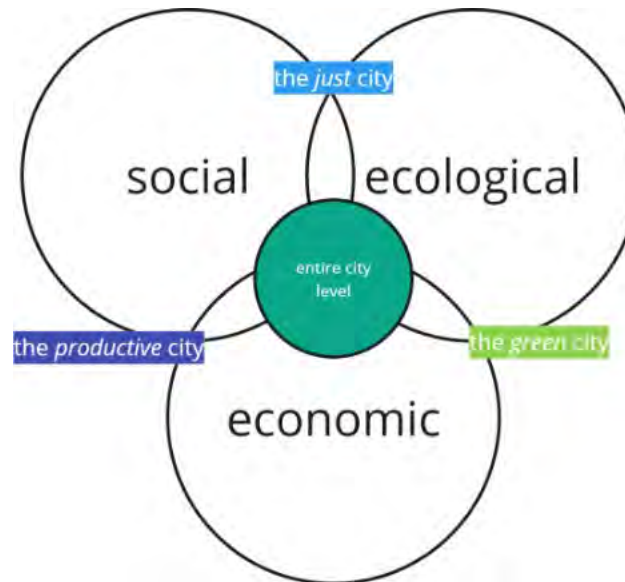
Digital City Science - HafenCity University Hamburg

Alignment of Concepts for UR - HCU + RPTU

Reference Conceptual Framework

Goals alignment

UR - Dimensions



ARTUR - Introduction of the project to Cities

How does ARTUR understand urban resilience?

Urban resilience is the capacity of cities to recover quickly, to manage uncertainty, and to be better prepared for the future

ARTUR - Aim of the Project

What does ARTUR do?

ARTUR develops a method to measure a city's urban resilience.
That method is:

- for Ukrainian cities
- digital
- interactive
- replicable
- modifiable

ARTUR - Expected Impact

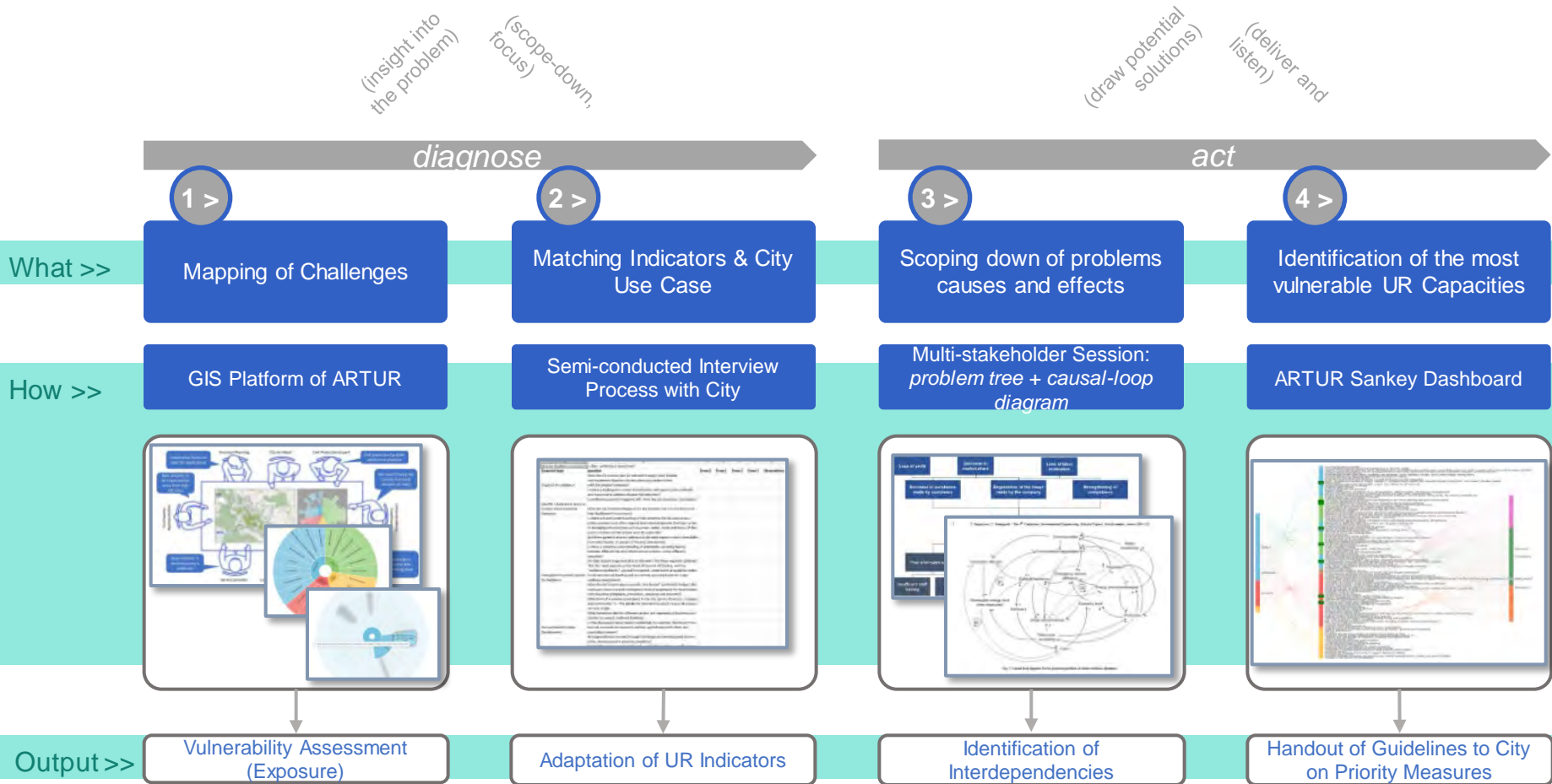
How does a city benefit from having its resilience analysed?

**Resilience can
be translated to the desired
levels of precision (scale)**

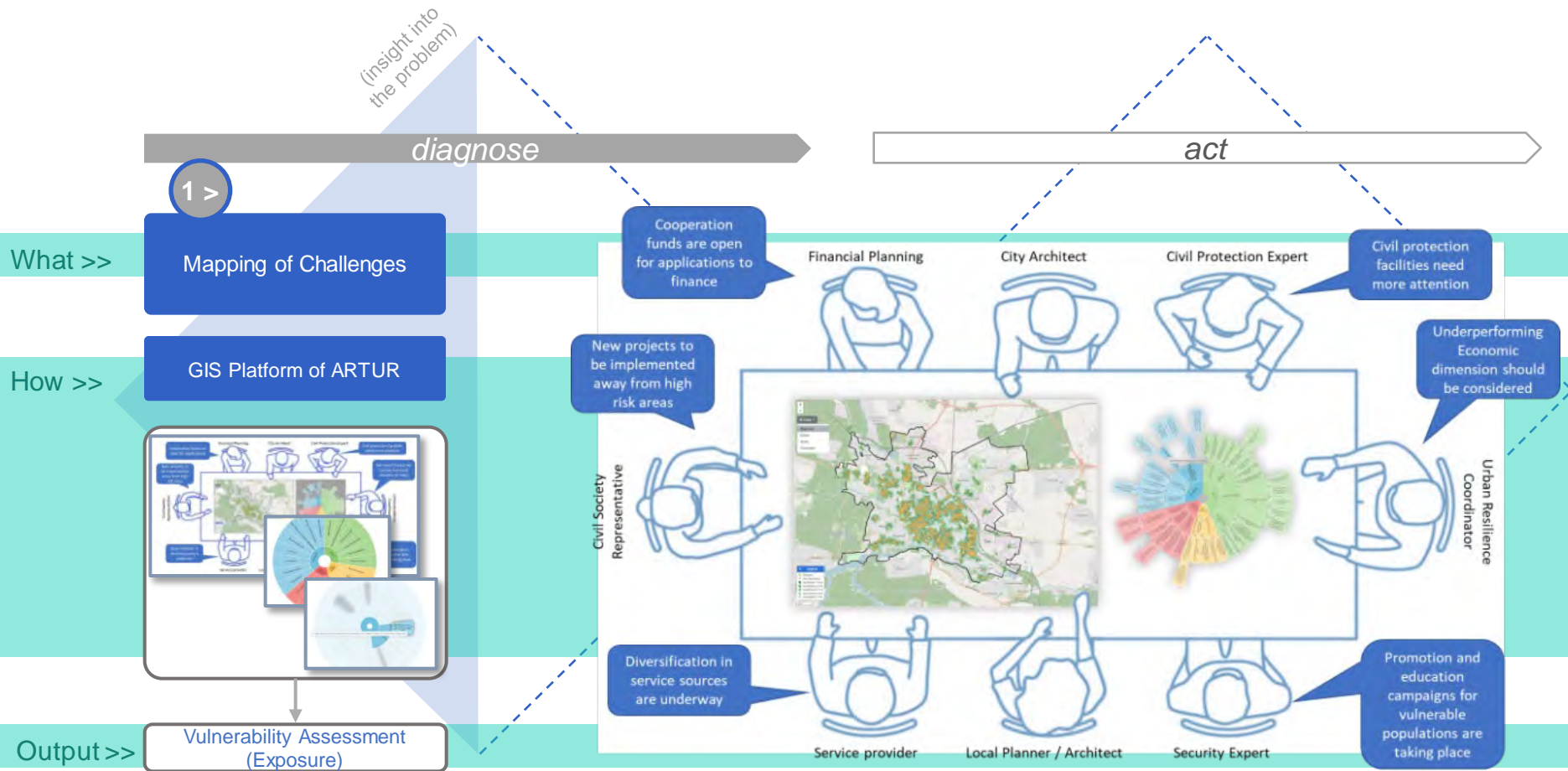
**Areas or sectors of
improvement can
be ranked**

**Planning more effective
measures can
be supported**

ARTUR - Assembly of an operational toolbox



ARTUR - Step 1



Our Pilot with 2 Cities - Nikopol and Kryvyi Rih

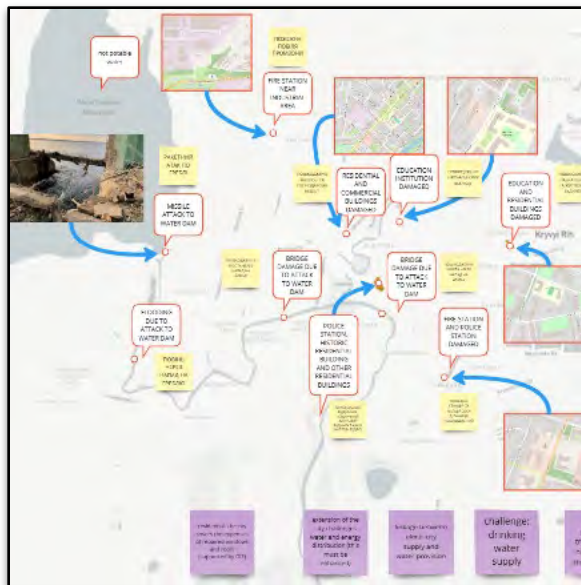


Our Pilot with 2 Cities - collaborative alignment

Open Data Assessment

Iterative alignment

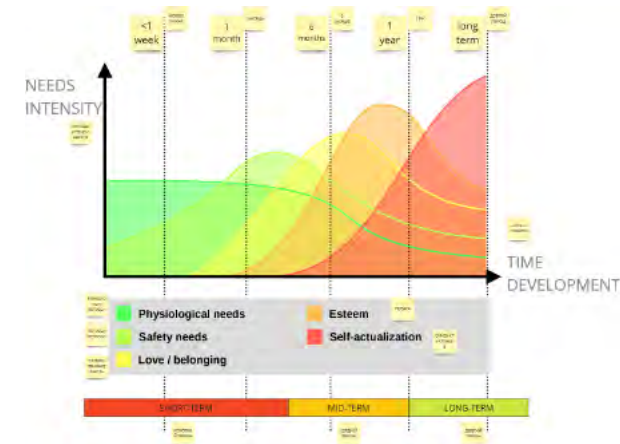
UR – from needs to Indicators



Current impact of conflict



Local knowledge on current needs and priorities guide the decision process on where to focus on the UR assessment

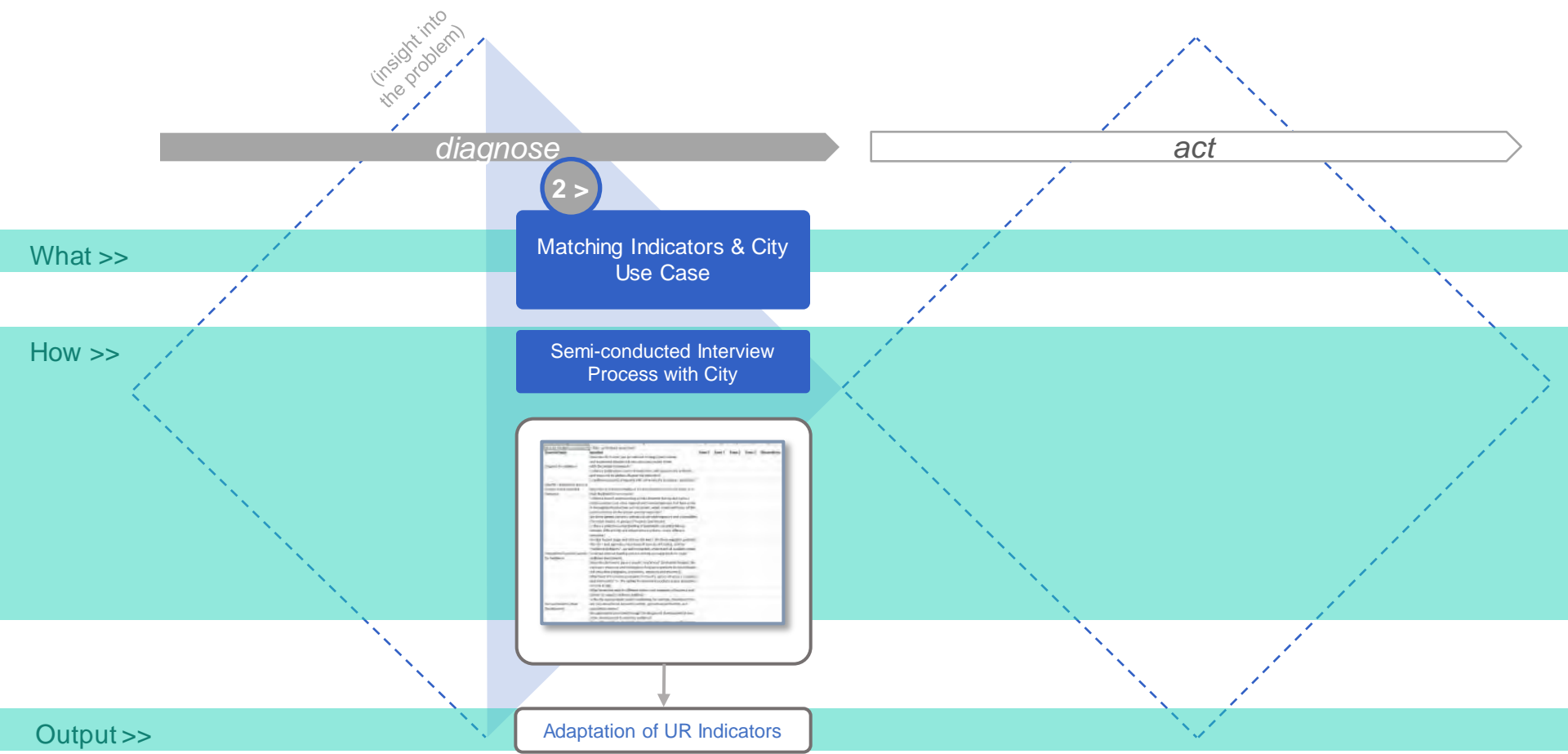


Integration of local needs and priorities

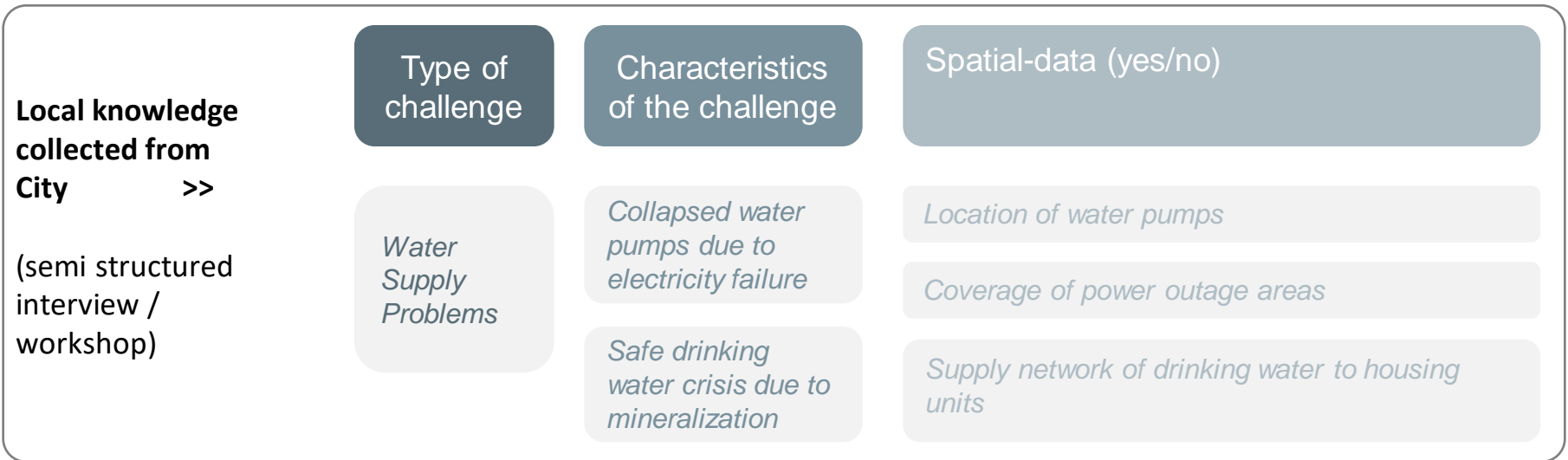


Selection of relevant UR indicators

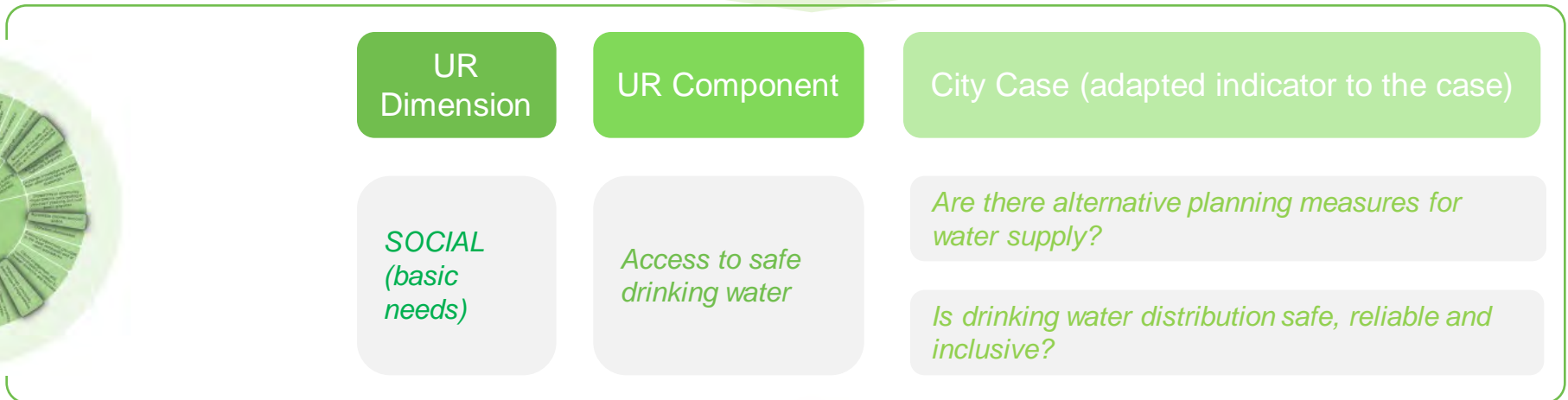
ARTUR - Step 2



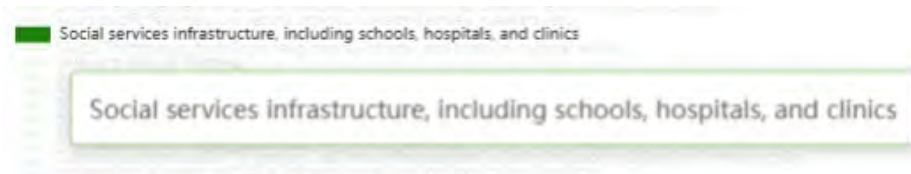
ARTUR - Step 2: from City's own assessment to first synthesis



Matched to ARTUR indicators framework



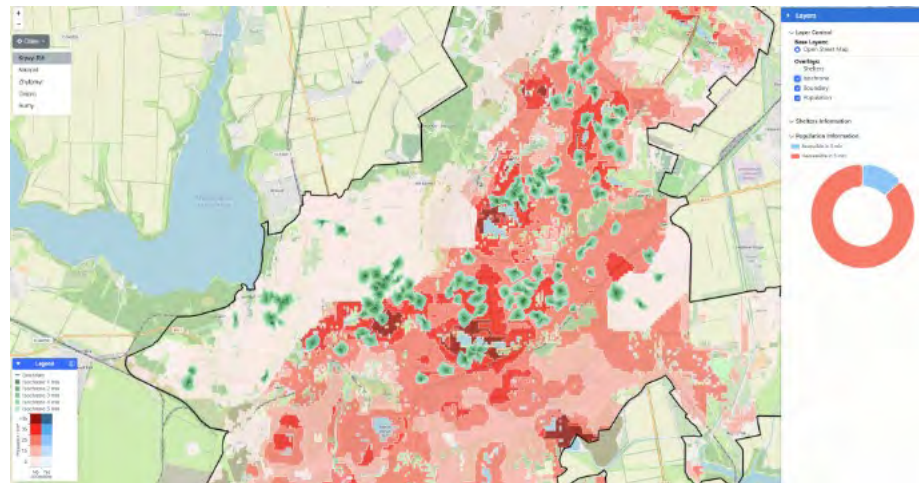
ARTUR - Step 2 (first synthesis)



UR - dimensions



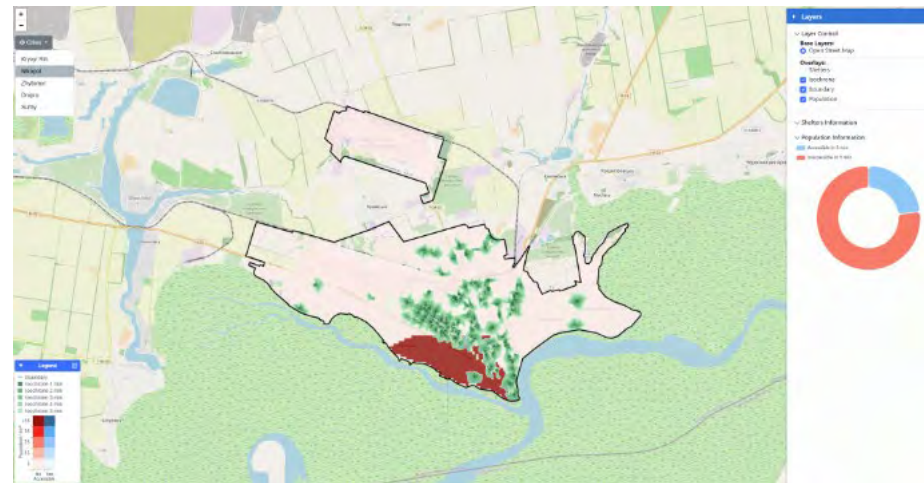
The Kryvyi Rih Case



Prioritise and adjust indicator measures aligned to City challenges and needs:

- **Social**
- **Institutional**
- **Infrastructural**

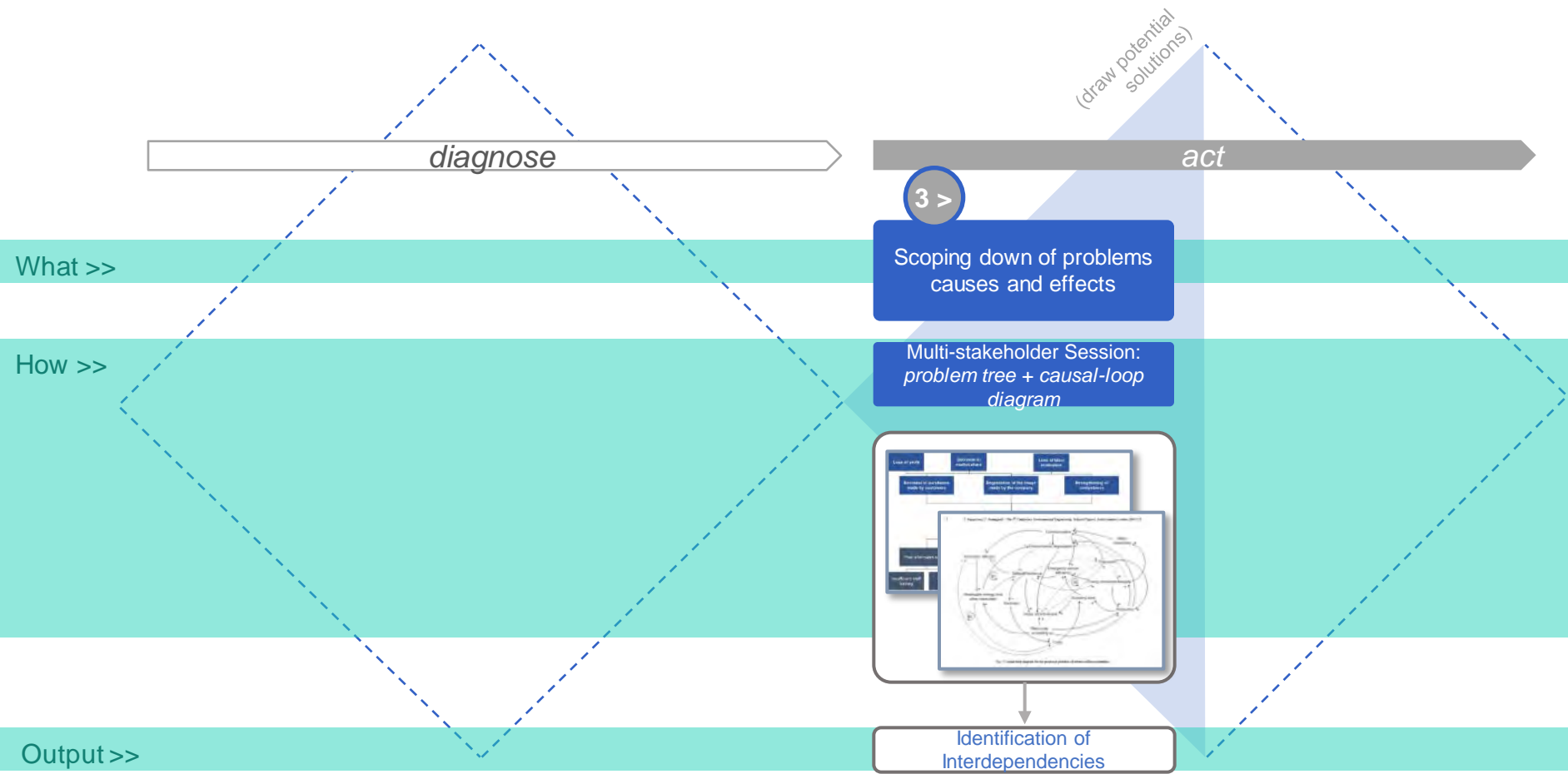
The Nikopol Case



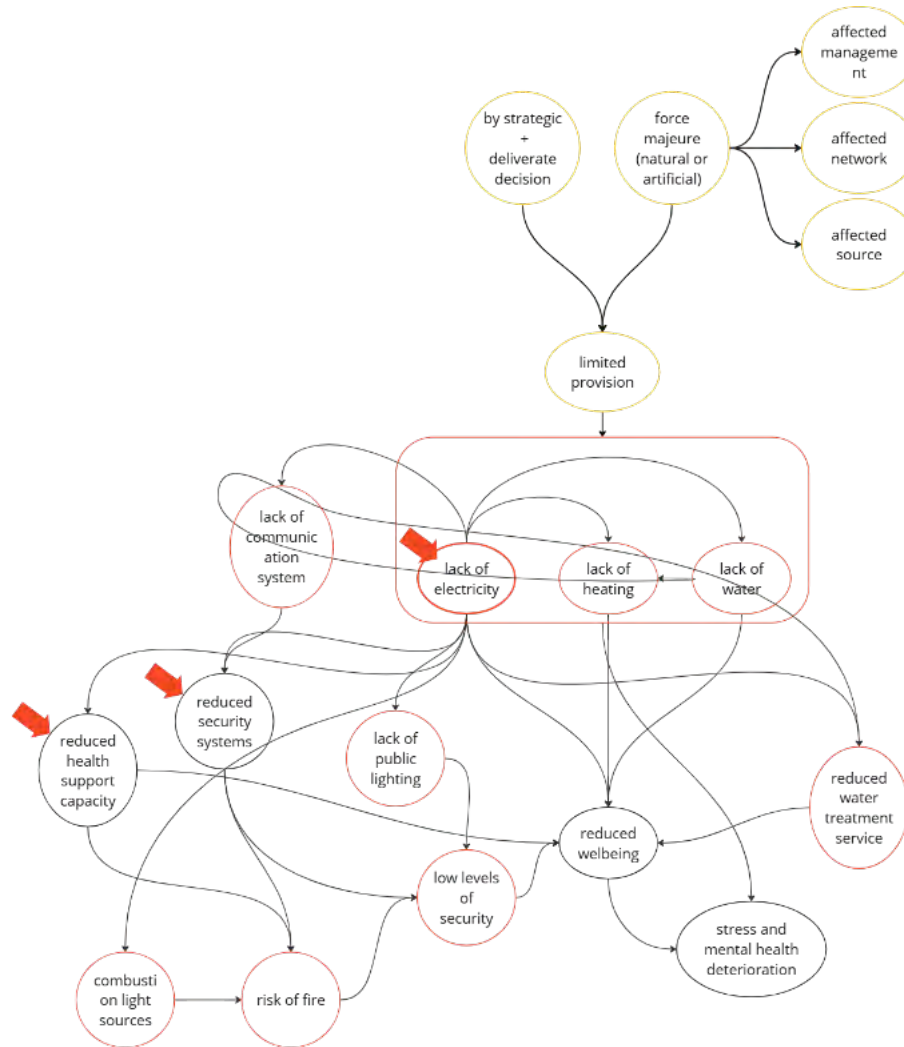
Prioritise and adjust indicator measures aligned to City challenges and needs:

- **Infrastructure**
- **Planning**
- **Economic (access to funding)**

ARTUR - Step 3

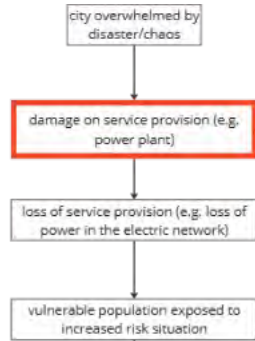


ARTUR - scoping-down problem(s) / identifying interdependencies

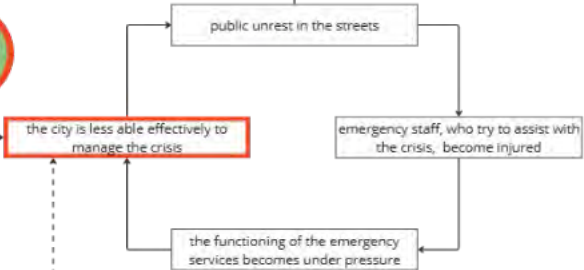


ARTUR - Highlighting Interdependencies across challenges

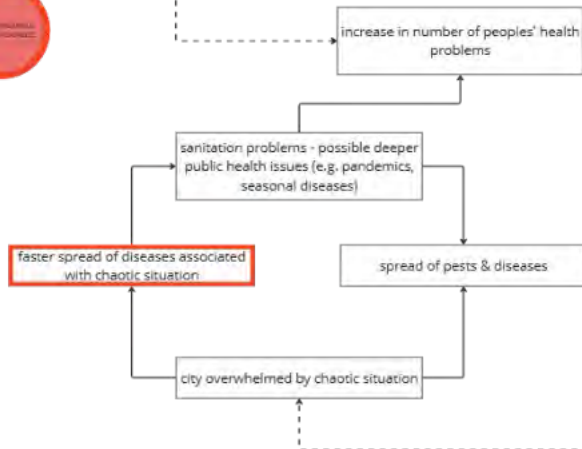
(PHYSICAL)



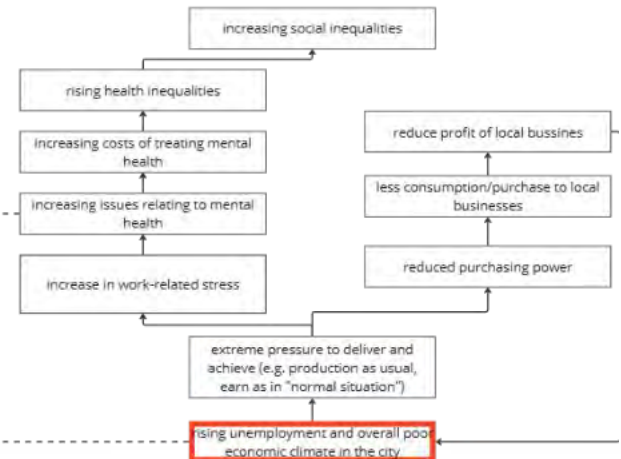
(SOCIAL)



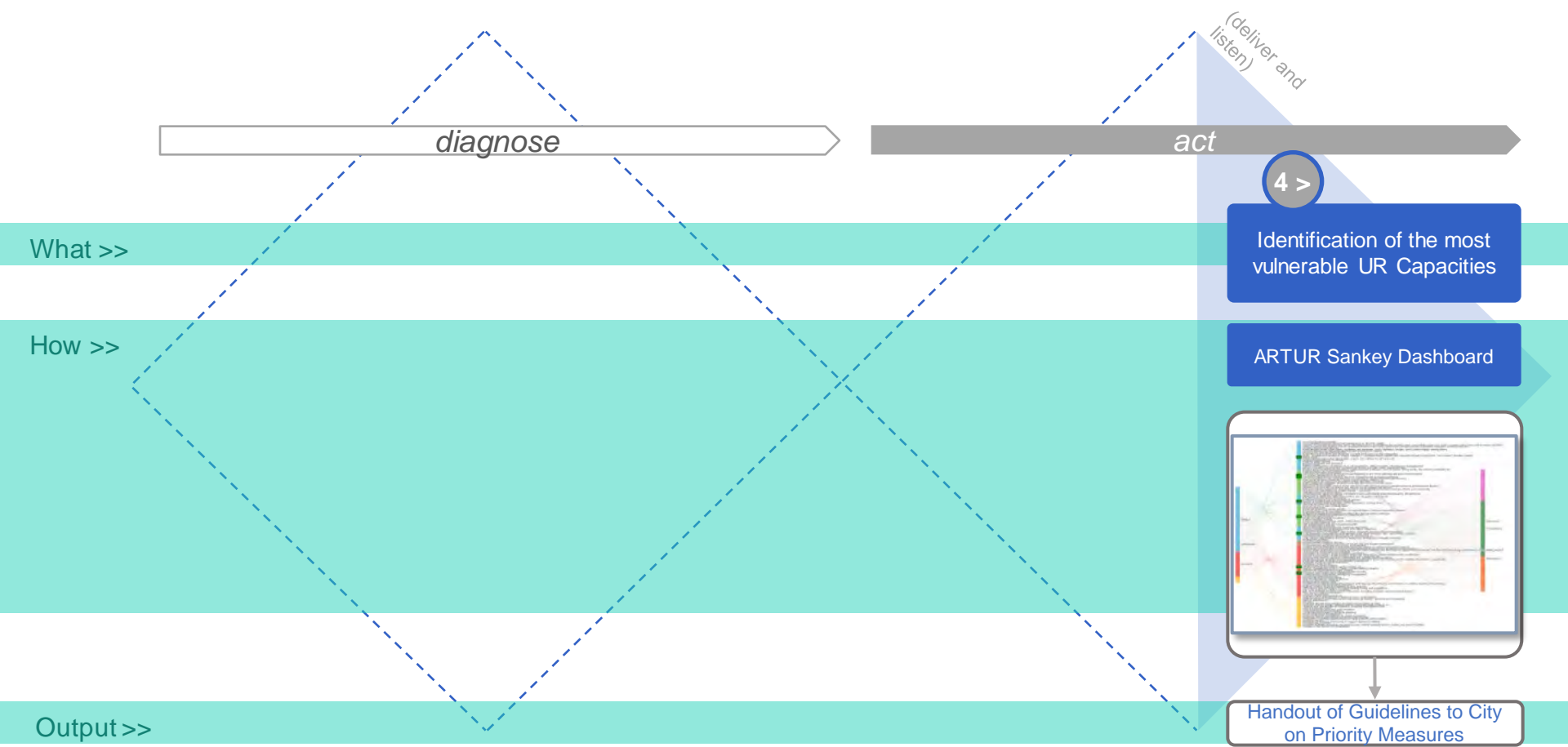
(INSTITUTIONAL)



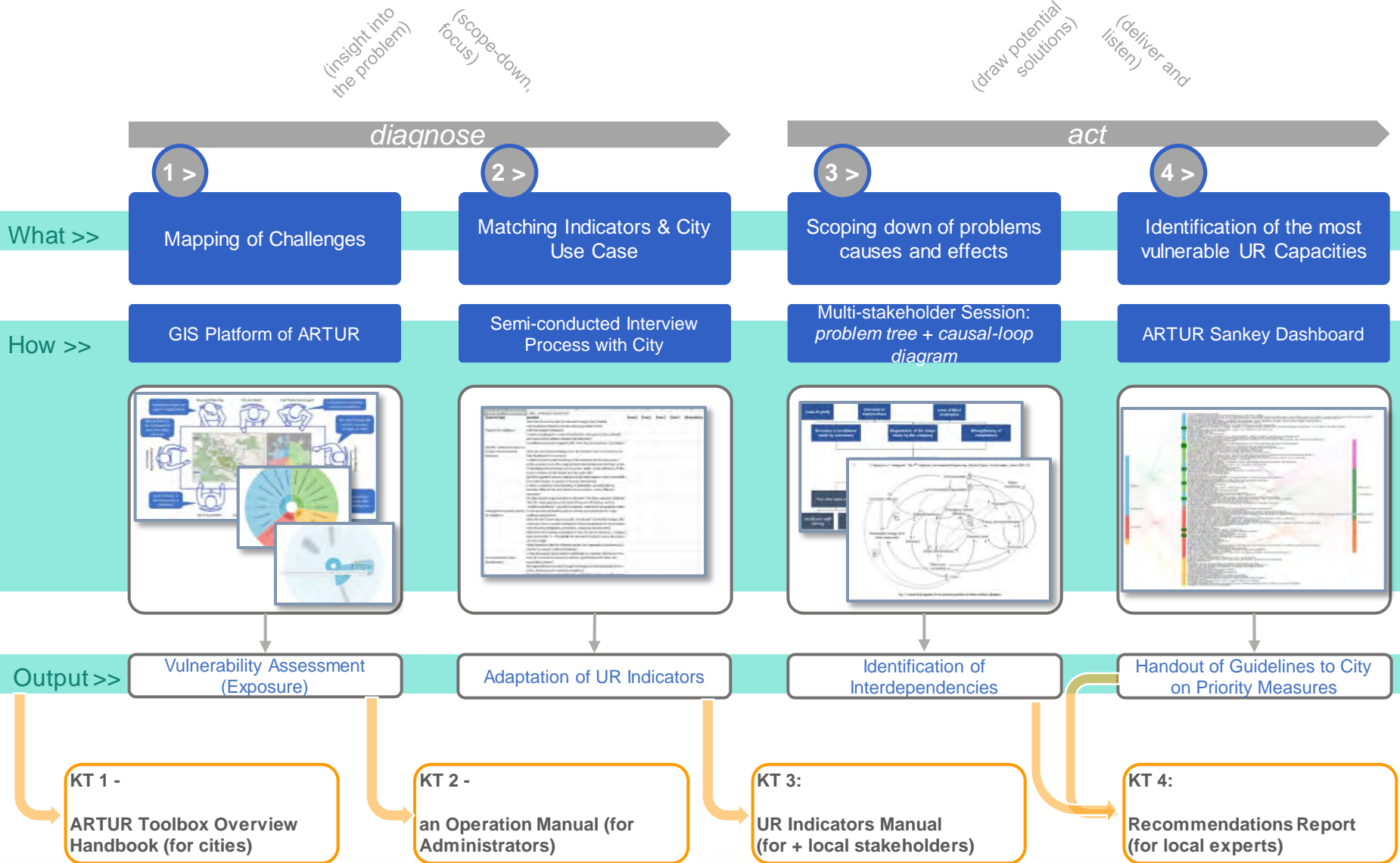
(ECONOMIC)



ARTUR - Step 4

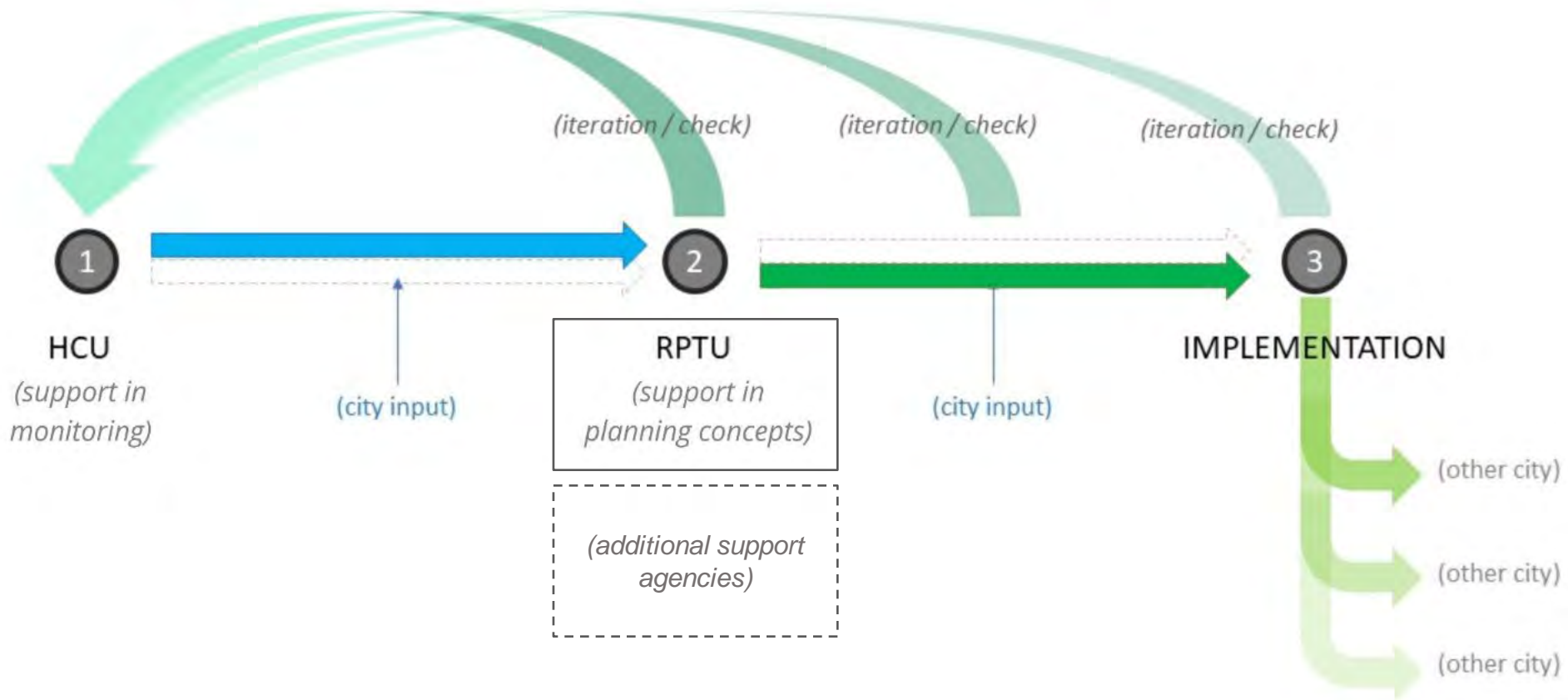


ARTUR Toolbox - envisioned outcome of our cooperation with cities



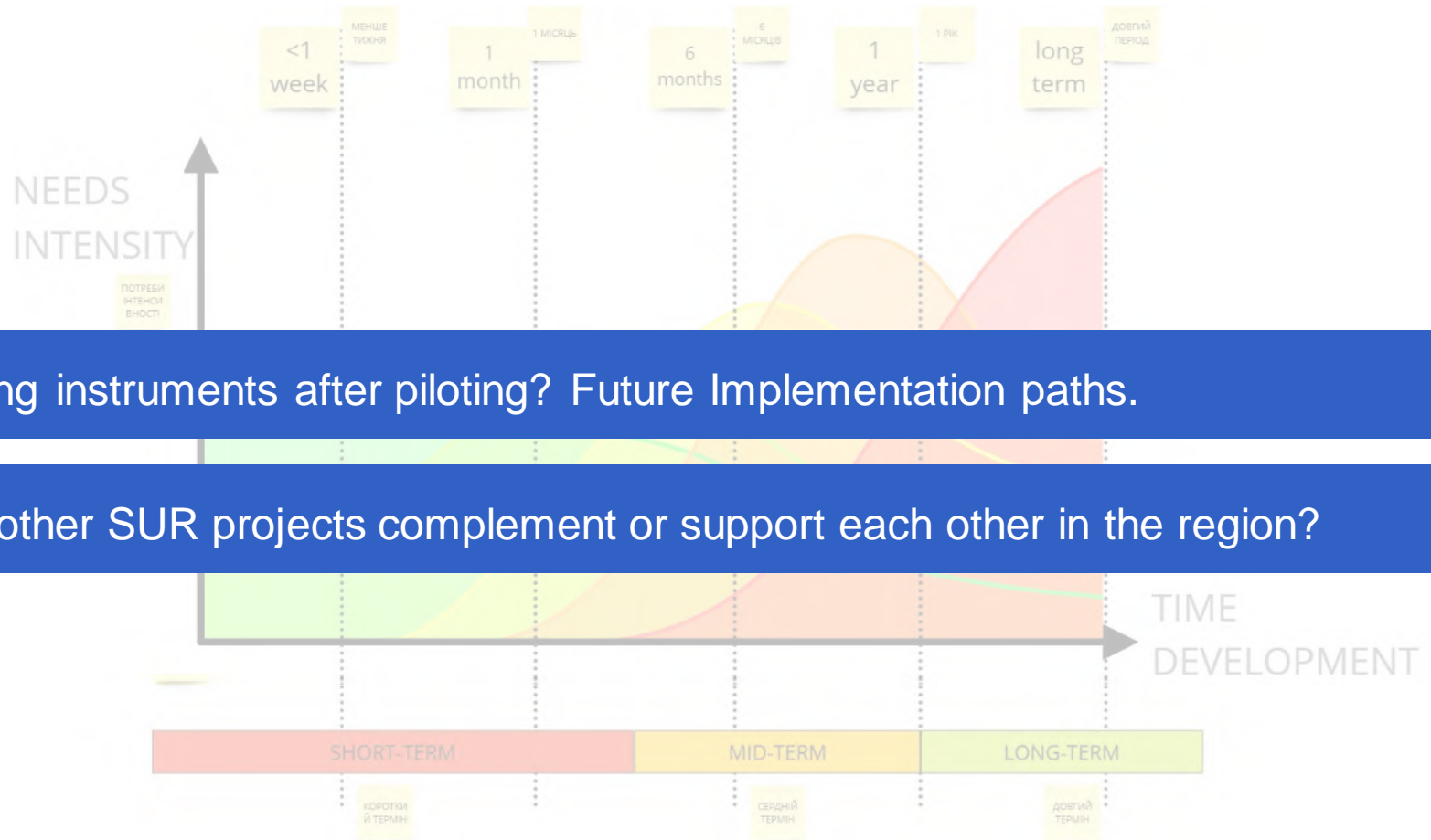
KT = Knowledge Transfer Component

Discussion on future paths - SUR Cooperations in UA



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Open floor for discussion



Calibrating instruments after piloting? Future Implementation paths.

How do other SUR projects complement or support each other in the region?

Thank you

