

monitoring and the co-creation of the city's energy transition

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INTRODUCTION

The Cluj-Napoca Pilot within the REFLOW project focuses on the co-design of the city's energy transition and testing innovative tools in this regard. The vision of REFLOW is to develop circular and regenerative cities through the re-localisation of production and the reconfiguration of material flows at different scales. The Pilot will invest in energy efficiency, optimizing consumption, sharing open data and uniting local administrators, communities and energy service providers. The objective is to fast-track the adoption of low carbon tech within Cluj-Napoca's local context. The Pilot will conduct energy consumption analyses of one municipality-owned buildings after a retrofit kit is installed. The data will present the decrease in energy consumption. The aim is to observe the impact and the potential of circular economy-like actions for Cluj-Napoca energy efficiency practices as well as to study the synergetic positive effects of collaboration among multiple stakeholders in the community (ie public authorities, research institutes, clusters and the general public).

Cluj-Napoca Pilot is looking at **energy consumption**.

The Pilot aims to validate and further the measures taken to date by the City regarding energy efficiency and to involve key stakeholders in implementing such measures.

The Pilot team will work to disseminate the information gathered at household and business level to encourage different actors in the ecosystem to propose new ideas regarding renewable energy sources which can be integrated in the City's strategy for a circular economy. This will be complemented by creating awareness, understanding and application contexts for citizens with respect circular economy, its benefits and possibilities.

Pilot members: Municipality of Cluj-Napoca, Aries Transilvania,

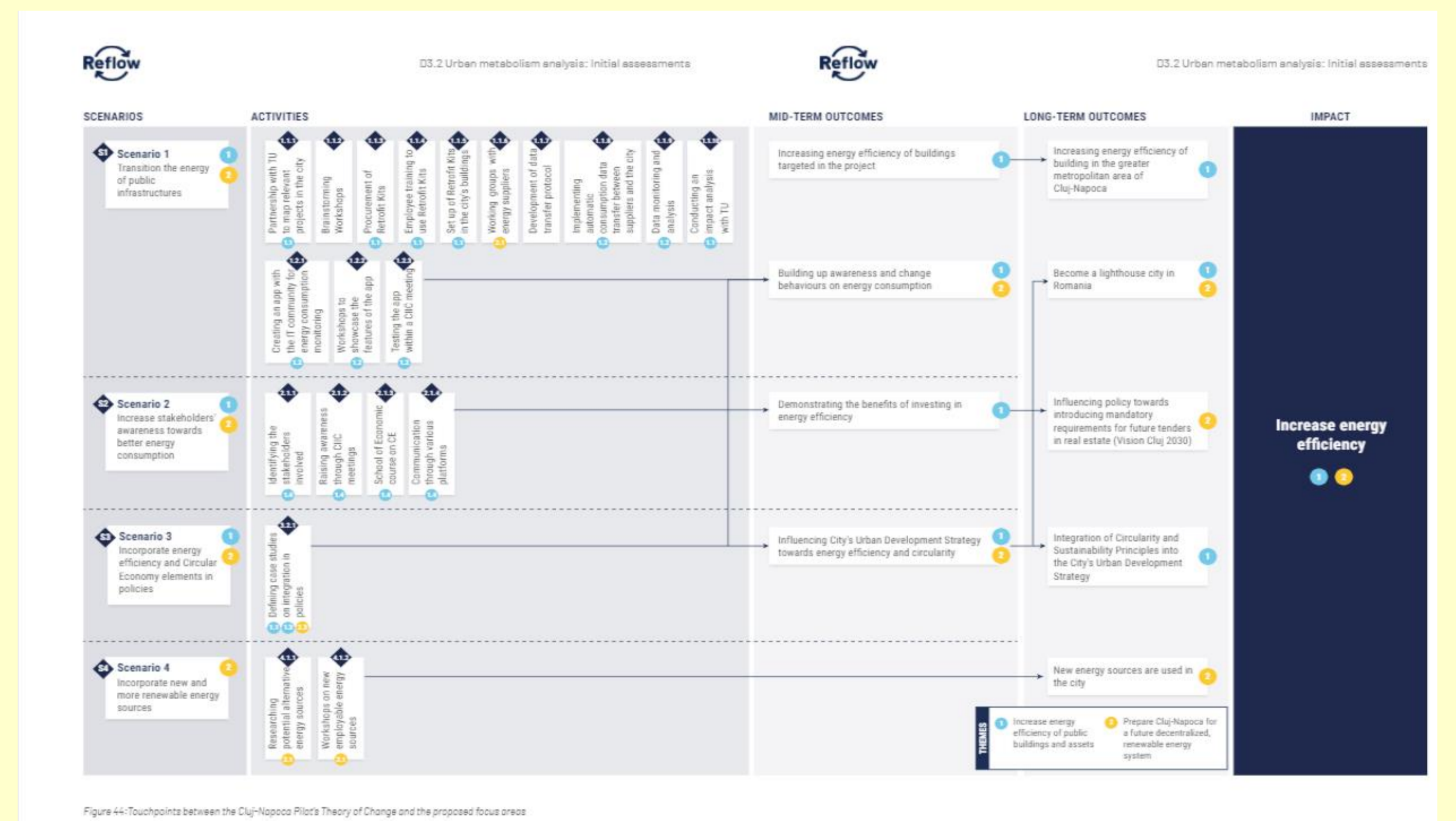
SHORT TERM
The Pilot will conduct energy consumption analyses of municipal and public buildings and public lighting hubs who have installed energy efficiency (CEM) and feed this data into REFLOW OS, an open-data dashboard with data regarding material flows across the Pilots of the project. Also the Pilot implements a number of tech and business solutions that are innovative in nature (retrofit kit, energy installations, circular business models etc). The aim is to observe the impact and the potential of circular economy-like actions for Cluj-Napoca energy efficiency practices.

LONG TERM

The Pilot aims to raise awareness, gather contextualized input and kick-start a community of practice in relation to the city strategy for a circular economy. Cluj-Napoca will involve citizens in the co-creation of future local governance tools regarding energy.

THE CHALLENGE

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CONCLUSIONS

Cluj-Napoca Pilot is contributing directly to the mission of REFLOW (which is to show how rethinking our economy and configuration of the urban metabolism can enable the transition to circular and regenerative cities) by creating the awareness needed to re-think urban energy efficiency metabolism and also by creating in some cases, policy and technology infrastructure and capital of awareness and trust in the educational and business sectors.

What this means in practice, is that we are mapping and consulting with the relevant actors that position themselves at the intersection of circular economy and energy sectors. We are conducting dialogues which result in conceptualising and advancing policy proposals and technology prototypes. This means we are gathering stakeholders in dialogues which aim both at increasing awareness, building trust and generating/consolidating partnerships that are needed to fulfil our long-term vision. More concretely this means mapping, studies, prototyping of solutions, testing of solutions, workshops (or webinars in the current context) and sometimes enthusiastic calls sometimes fear and frustration of not getting it right

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