There is tremendous urgency for reducing cities’ energy footprint through behavioral change. However, we hardly know how to enable individuals to learn how to behave energy-responsibly in their daily lives. This project combines information, cognitive and social sciences into a real-life experiment in urban neighborhoods. It will provide:

a) a deeper understanding of learning and behavioral change to reduce energy consumption in an urban setting;

b) a tested prototype of an interactive web-based platform for sharing data about individual and community energy consumption choices;

c) a tailored set of policy and market recommendations for the wider application of this platform.

**Aim/objective**

Explore how to enable behavioural change towards reduced energy use through a web-based platform, that will enhance individual and community learning processes and inform policies for the smart use of big data.

**Approaches/methods**

Generating ‘Data to Individual’, ‘Individual to Community’ and ‘Community to Policy’ learning and adaptation feedback loops through designing and testing support software for data-sharing and social interaction (see figure).

**Expected results and impacts**

- Conceptual understanding of data-driven feedback loops to enable learning and behavioral change in energy choices
- Marketable software platform for data-sharing and social interaction about energy use
- Policy innovations for energy transition

**Urban neighborhood living labs in:**

- Amsterdam (social housing estates)
- Graz (town of Leibnitz, smart city quarter Waagner Biro, smart urban neighborhood Reininghaus)
- Istanbul (municipality of Kadikoy)

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**CODALoop – Community data-loops for energy-efficient urban lifestyles**

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