



SmartFood: Engaging citizens in food diversity in cities

D1.5. Recommendations on refining based on feedback of end-users on the designs of SmartFood

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Executive Summary

The SmartFood project aims to provide a novel evidence-based socio-technological framework of sustainable food production and consumption towards the sustainable smart city of the future by engaging micro-local communities through novel in-house food self-production and households' behavioural change of diet. To facilitate this process, an innovative hydroponic food self-reproduction system will be developed and installed in corridors of a selected building in Łódź (Central Poland) to provide sustainable food for citizens within the planned Urban Living Lab. This report describes the inception phase of this process. To create the necessary understanding of socio-technical needs and opinions among potential users of the system, a participatory co-design method was used.

The first part of the report (chapters 1-3) provides an introduction, information on the territorial context of the SmartFood Urban Living Lab location, i.e., city of Łódź, and an overview of co-creation methodologies that could support the SmartFood co-design processes. This part is based on the literature review and informs the development of SmartFood co-design approach.

The second part of the report (chapter 4) analyses the feasibility of implementation of the planned SmartFood technical solutions in multi-family residential buildings, allowing for: (1) hydroponic production of edible plants in SmartFood Cabins in communal areas (corridors); (2) shared rainwater collection, treatment, and use within SmartFood Water (3) sustainable energy management within SmartFood PV. This part of the report is based on technical inspections in 14 multi-family residential buildings located in Łódź.

The third part of the report (chapter 5) summarises the results of two online interactive workshops organised to co-design SmartFood solutions, based on the preliminary designs developed by the SmartFood research team. As a result, recommendations on refining of SmartFood solutions based on feedback of end-users are provided.