



# OVERCOMING URBAN MICROBIOME AND HUMAN PERCEPTIONS AS CONSTRAINTS TO SUSTAINABILITY

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- Sustainable Development Goals: 3) Good health and well-being
- In U.S. and the E.U., the economic losses caused by non-infectious diseases over 200 billion € annually
- The core reason: reduced microbiological exposure particularly in urban areas





# ***ADELE – AUTOIMMUNE DEFENSE AND LIVING ENVIRONMENT (TEKES)***

- Univ. of Helsinki, Univ. of Tampere, Tampere Univ. of Technology
  - Ecological, medical and social scientific solutions to facilitate transitions towards sustainability
  - Large population cohorts and data sets; trial studies to increase exposure to diverse microbiota in daily life
    - Data: sampling of environmental and human microbiota, questionnaires, interviews
- Novel associations between geospatial living environment, microbiota, pollution, and perceived well-being as well as various health indicators
- Various motives and barriers for adopting health-enhancing innovations