



LUNDS  
UNIVERSITET

# Research on urban transformations

LUND UNIVERSITY | INTERNATIONAL INSTITUTE FOR  
INDUSTRIAL ENVIRONMENTAL ECONOMICS (IIIEE)





**All over the world, cities are experiencing complex sustainability challenges, and the future calls for a significant change towards modern, sustainable and just cities. Knowledge and understanding of transformation pathways and processes are fragmented and insufficient and there is a vital need for building transformative capacity, which is based on sound knowledge, to underpin urban transformations.**

The International Institute for Industrial Environmental Economics (IIIEE) at Lund University conducts research on urban transformations for climate-neutral and resource efficient societies.

Our research is interdisciplinary, and it synthesises insights from social sciences, economic theory, engineering and natural sciences. Our focus is on advancing knowledge for transformative capacity and learning cities.

We strive to enhance the research agenda on urban transformations, reframing debates and shifting perceptions and norms in society. We aim to influence the development of policy, business, practice and alter behaviour. We work in close collaboration with municipalities, businesses, public organisations and citizens to define current challenges, develop collaborative research and build transformation capacities together.

# Core research subjects

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## **URBAN TRANSFORMATIVE CHANGE**

Focus on a critical assessment of various modes of mission oriented transformative change and how to provide insights into the nature and dynamics of individual and societal issues of transformation.

## **URBAN GOVERNANCE, INNOVATION & LEARNING**

Focus on how to develop sustainable urban governance in a multilevel governance perspective; how to support innovation to foster the modern city; and how to enhance learning to advance learning cities.

## **URBAN LIVING LABS**

Focus on exploring urban living labs (ULL) – sites devised to design, test and learn from social and technical innovation in real time; engaging in and studying processes of collaboration and co-creation.

## **SHARING CITIES & SUSTAINABLE CONSUMPTION**

Focus on how and when sharing economy organisations contribute to sustainable cities and communities, and on understanding the role of municipalities in governing the sharing economy.

## **URBAN NATURE**

Focus on how urban nature and nature-based solutions can deliver multiple benefits to cities and their residents; through sustainable processes of planning, governance and participation advance biodiverse, climate adapted, resilient and just cities.

## **AGENDA 2030**

Focus on cities localising sustainable development goals (SDGs) into their processes of planning, governance and evaluation of sustainability.

## **LOCAL ENERGY**

Focus on decentralized energy systems, cost dynamics of implementing new technologies, the role of energy communities to lead energy transitions, democracy and citizen control over energy resources, the electrification of societal infrastructure and governance of the smart grid development.

## **CLIMATE NEUTRAL & CIRCULAR CITIES**

Focus on strategies of decarbonisation and circularity for energy supply and energy efficiency, climate neutral buildings and circular building materials, sustainable consumption and waste. Research also covers tangible symbiosis solutions within and across sectors and value chains.



### Research projects and publications

For more detailed information about research projects and publications see [www.iiiee.lu.se/research](http://www.iiiee.lu.se/research)

### Selection of Key Collaborative Networks

- Lund University: Sustainability Forum, Urban Arena, A Circular Building Sector, CIRCLE and LUCSUS
- Local: Lund Municipality, Malmö Municipality
- National: Viable Cities
- International: WWF Cities, ICLEI, Sharing Cities Alliance, Shareable, City of Melbourne, City of Amsterdam

### Selection of Key Outreach Activities

- MOOCs (<https://www.iiiee.lu.se/moocs>)
- Greening the Economy: Sustainable Cities
- Urban Nature: Connecting Cities, Nature and Innovations
- Cities and Consumption: Urban Sustainability and the Sharing Economy
- Podcasts (<https://www.iiiee.lu.se/podcast>)

### Contact

[www.iiiee.lu.se](http://www.iiiee.lu.se)

[www.twitter.com/IIIEELund](https://www.twitter.com/IIIEELund)

[www.linkedin.com/company/iiiee-lund-university](https://www.linkedin.com/company/iiiee-lund-university)