

Future sustainable living (SDG 11)

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Cities are becoming increasingly bigger and are attracting ever more dwellers. Today, more than 50 % of the world's population is estimated to live in cities, and the proportion is expected to continue to increase rapidly in the foreseeable future. This makes it tremendously important to work to achieve an increased sustainability of urban life. Not only do we need to develop and put new technologies and solutions to use, we must also endeavor to influence human behavior in order to increase the likelihood of people acting in a sustainable fashion, and provide the motivation and awareness needed to embrace a lifestyle that can be supported by the world's limited resources.

There is no shortage of projects that aim to find and explore new ideas and avenues to improve the sustainability of urban life. In Gothenburg, Johanneberg Science Park has assumed a coordinating role for urban sustainability initiatives to effectively realize the vitally important goal of creating a sustainable city.

Johanneberg Science Park creates open interaction platforms "Open Arenas" for interdisciplinary exchange of ideas and knowledge between academia, industry, research institutes and society actors. Science Parks act as drivers and catalysts of sustainable innovation.

Johanneberg Science Park develops demonstration projects in collaboration with its owners, and since a great deal of focus is placed upon sustainable urban development at the park, projects tend to naturally concern areas such as living environment and issues related to housing. Sweden has, along with the rest of the world, both expansive plans to build more accommodation for its inhabitants, as well as great challenges associated with reaching the UN's goal on sustainability. In collaboration with two of Sweden's largest construction companies with around 1 000 000 members together, HSB and Riksbyggen, two projects are currently developing regarding future housing seen from all conceivable aspects of sustainability.

Riksbyggen; Positiv Footprint Housing

Positive Footprint Housing: Research and learning run in parallel with construction projects that focus on social sustainability, energy efficiency and reduced environmental impact. Together with Positive Footprint Housing, Riksbyggen seeks to create homes that are environmentally, economically and socially sustainable. The project will result in increased environmental, social and economic sustainability, where the gained insights and lessons will get their first practical application at the Housing Association Viva, with 132 apartments in Guldheden, next to Chalmers campus area in Gothenburg.

<https://www.johannebergsciencepark.com/en/projects/positive-footprint-housing>

The project wish to stress that sustainable building cannot be reduced to single issues to be addressed separately. We firmly believe that the way forward towards a sustainable future must be that of transparent efforts, integrated measures, and ambitions of transition rather than incremental improvements. This is that we have strived to achieve. And we are simultaneously genuinely proud of the fruits of our efforts, and impatiently curious of where our next project will take us.

HSB Living Lab

How should we live in the future? In an initiative by Johanneberg Science Park, HSB and Chalmers, 12 partners are collaborating in a project for future sustainable living. HSB Living Lab is a research and demonstration arena which also includes homes for students and guest researchers. In the 29 apartments of the living lab, equipped with monitoring stations and sensors, 33 people live in a changing building where the walls, facades and interiors develop as the research progresses.

The building is located on the Chalmers campus in Göteborg. Short and long-term research projects will be taking place inside HSB Living Lab throughout the project's ten-year life span. Living Lab offers a unique infrastructure including real and realistic living and working settings for conducting design research activities in close collaboration with future users, industry and other relevant stakeholder involved in the development of innovative technologies.

<http://hll.livinglab.chalmers.se/>