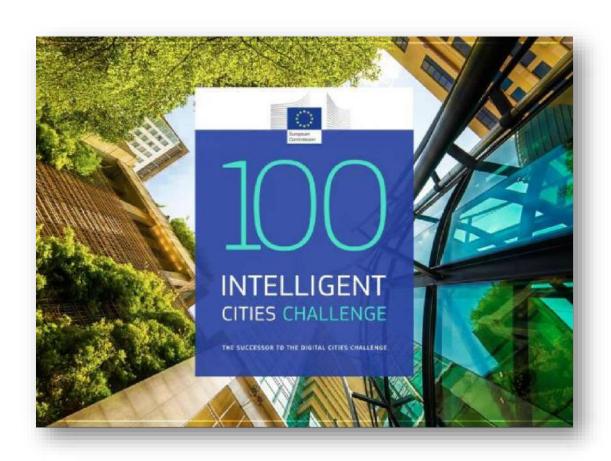


Green initiatives for a climate neutral urban centre 2030 - examples from Trollhättan

Isak Johansson, International Coordinator Johanna Berg Meneghini, Planning Architect

ICC 2.0



- Consortium with Vänersborg, SERN, Cervia och Ravenna
- Stakeholder: Företagarna Thn
- Goal: to develop Local Green Deals (LGDs)
- Linking it to the City's work on sustainability



Trollhättan's LGD

- ➤ Signing ceremony on Nov 13th
- **♦** Objectives:
- (1) Increase access to sustainable energy and
- (2) "effect efficiency" for businesses in the areas Stallbacka and Skogstorpa
- ➤ Site visits from the City's energy-and climate advisor
- Support from an EU-funded thematic expert
- ◆ Opens the door for future projects



Green Urban Award



- Annual award
- 10 000 SEK
- The Urban Planning Committe
- To individuals, businesses or associations who have made a difference for a greener Trollhättan
- A way to inspire and engage the local community



Broad collaboration...

- June 2021 Political decision to prioritize biodiversity (in the city strategy for Agenda 2030).
- April 2021 State grant for a project in Trollhättan.
- Project goal increase biodiversity on the ground owned by the state – and inspire others to follow
- Parts: Park management, forest management, housing company, real estate company, energy company, school administration, ecologists



...to promote biodiversity

- Develop projects seek funds. 8 project has granted funds
- Other stakes without funds.
- Education for city staff and politicians





Sweden's first local biodiversity advisor in Trollhättan

- Property owners
- Companies
- Citizens
- Schools
- > Etc.









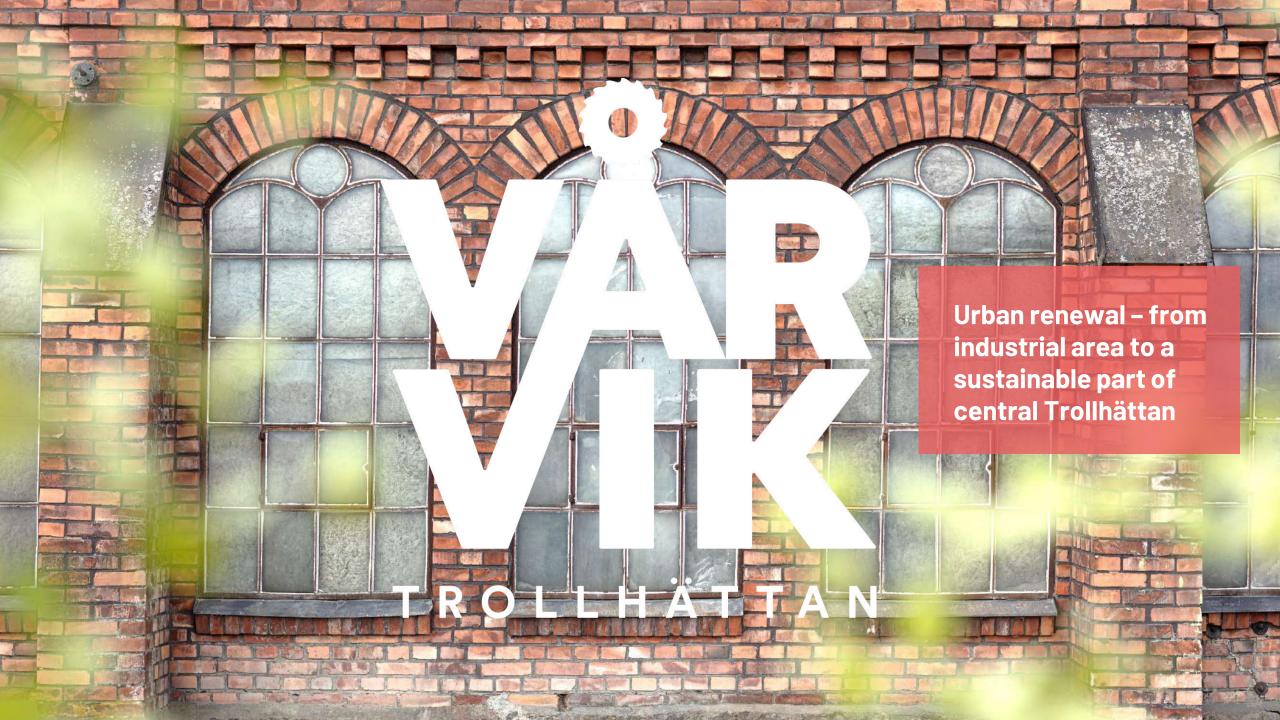




Preparation project for the use of Autonomous vehicles (AV)

- City of Trollhättan (lead), NEVS AstaZero and T-Engineering
- > 2022-2023
- Goal: Create the basis for the permit process to go faster and for Trollhättan and Sweden to be at the forefront of fossil-free, shared mobility of the future.







City centre



Illustration: Sweco Architects

- △ 1600 apartments, offices, commercial services, school and elderly care
- △ 3 sustainability goals
 - ▲ 1. Support a sustainable lifestyle
 - A mobility hub with car sharing services
 - 2. Each construction project
 has a lower climate impact
 than an average project
 - Ex. Woodenconstructions, reusedmaterials





- 3. Variety of housing and public spaces that attract different groups
 - Public spaces are built in first phase
 - Mix of rental apartments and condominiums

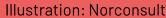






Methods used during the design process of new areas

- Ecosystem analysis
 - Biodiversity, compensation of green values that are lost
- Analysis of social impacts
 - Public spaces, availability for pedestrians and cyclists, public transportations
- Pilot study tool for calculating the CO2 emissions







Key factors

- Project group with urban planners, landscape architects, traffic planners, strategist in social and ecological sustainability
- Workshops early in the project, private developers are involved

Challenges

- Conflicting interests in sustainability
- Too late in the process for major changes
- Connection with policy making and comprehensive planning

