Locally produced food as part of the new life in Brunnshög, Lund

Christian Wilke, Lund Municipality
Brunnshög is large scale urban development in the north-east parts of Lund:
- 225 hektar
- Cirka 1 300 000 sqm BTA
- 40 000 working, living or studying
- 2017-2055
Structure of mixed use development:
Connected:
Opens early 2020:
MAX IV laboratory synchrotron light facility
Opened by the King in June 2016 (Estimated cost 6 billion SEK)
ESS the worlds most poweful neutron source – under construction
(Cost: 16 billion SEK) 17 countries contributing. First use 2019.
The system for Residual heating on Brunnshög

1. Waste heat recovery
2. Prosumers
3. Pipe design and materials
4. Network layout and control
5. Demand side installations
6. Avoiding risk of Legionella
7. LTHD applications: Ground heat
8. Business models / Legislation / Knowledge sharing
New PEX pipes with leak detection

New PEX DN100 (larger dimension), 950 m

New heat loss recovery pipes

ICA Fastigheter

Xplorion, LKF

Steel pipes

PEX, total 2 km
Brunnshög planning
Intentions and Visions:
Where Heart meets Brains..
Where Heart meets Brains.. And Stomach…..?
A World leading science, innovation and living Environment

A World leading science, innovation and living environment developed with MAX IV and ESS as starting engines.

Brunnshög will be a knowledge intense and global living environment where new solutions for city development continually is researched.

An international destination for science, culture and recreation inspiring new discoveries.
Minimize climate impact

Balance the use of high quality farm land

Maximize experiences
Minimize climate impact

Balance the use of high quality farm land

Maximize experiences
Energy production

- 100% renewable, locally produced energy in the buildings
- 150% renewable, locally produced energy for heating, transport and electricity - the city as a power plant – longterm goal
Efficient land use:

- the level of exploitation should be at least 1.0
- 100% of the nutrients in removed masses will be returned to farmland
- 40% of built land should be able to be restored into farmland
- 50% of today's farming potential (2011) should be able to be compensated with urban farming no later than 2025
For every individual phase of expansion an "experience plan" will be put together including:

- **meeting places**
- **mixing use**
- **desired levels of noise/sound, visual impressions/visual problems, scent/smell, taste tactile experiences**
Urban Food, what are we doing?
Various sites
Urban Farming
Urban Farming, allotment

Huge interest – teaching, NGOs and groups, started 2013 on a temporary location.

Will be part of:
Park of Knowledge
Park of Knowledge
• Park of Knowledge
  – Allotment area/urban farm at Kunskapsparken
  – Pedagogy- How is our food produced?
Park of Knowledge
Run by urban farmers, NGO’s and Lund municipality in collaboration, -- opens 2021 part of the park where ambitious growers meets curious park visitors.
Village streets)
Possibility of small scale agriculture
The "village" streets
The Nobel Park
The Nobel park in the heart of Brunnshög
– Community park with thematic zones
The Nobel park in the heart of Brunnshög

– Community park with thematic zones
Innovative green public space
ICA Urban Block
Urban block facing the new central square with ICA food store, Pharmacy, restuarans, housing etc
Communal garden
Locally Grown
Brunnshög School
Brunnshög
School
Brunnshög School
Brunnshög LAB
Brunnshög
LAB, temporary, experimental, demos
Housing projects
Land awarded based on proposed sustainable solutions, partners and level of innovation.
EKO-HUB

Sundeprojektet FÖLJER är stora över att kunna presentera ett lokalt samarbete med varitidss历代竞逐s kompetens inom löj och urban odling, gestaltat av OpenStudio arkitektur.


LKF Explorion
Brunnshög
Living with the landscape:
Suggested sites
-Brunnshög location
-How much is claimed?
-Transport

-Brunnshög intentions and visions
-Balance, Minimize, Maximize
Recilience

-Brunnshög what do have
-Urban farming
-Honung
-Holma Folkhögskola
-Nobelparken
-Park of knowledge
-ESS and MAX, food science and residual heat
-Restaurants Brunns högs Pasta och Mex 4

-Partners and Cooperation
-Räängen
-Science Village
-ICA fastigheter

-How do we make it happen
-Sciencesprojekt?
-School
-Explorion
-Sundsprojekt
-Markanvisningar
-Labbet

Christian Wilke
- Agricultural location
- ICA
- Urban farming
- Holma Folkhögskola
- Nobelparken
- Park of knowledge
- ESS and MAX, food science and residual heat
- Balance
- Transport
- Sciencesprojekt?
- Råängen
- Restaurants Brunnhögs Pasta och Mex 4
- How much is claimed?
- Explorion
- Sundsprojekt
- Markanvisningar
- Labbet