

CASUA

We are architects and engineers with 20 years of experience of CASUA Atelier, founded and owned by Aleš Podebrad and Oleg Haman.

Casua is a founding member of Czech Green Building Council and member of Sweden Green Building Council.

Casua has been a member of Equator European Architects since January 2007.

Casua has been a holder of certificate of National Security Authority since 2005.

Casua has been a holder of certificate of ISO 9001/2008.

At the end of this year, we will exhibit our most important works, on the Faculty of Architecture ČVUT, such as:

Czech terraces, reconstruction and extension of Airport of M. R. Štefánika in Bratislava, Korunní residence, Mixed use Malešice, Malšovice-leisure center in Hradec Králové, Office Islands of HOCHTIEF Development Czech Republic, and many more...



Equator european architects

are architects who live and work across Europe. Their pan-European coverage and experience allows them to take a lead in the development of a sustainable society by exchanging experience and knowledge with more intensity than ever. EEA develop a sustainable society by delivering sustainable

design through their experience and knowledge.

Established in 1991, EEA is today a network of architectural practices with more than 250 staff members in seven offices in Europe.

Equator members:

Czech Republic, Finland, France, Hungary, Portugal, Sweden, Ireland.



Hammarby Sjöstad/ - unique environmental project in Stockholm

Erik Freudenthal

Head of
Communications
in
GlashusEtt

The Environmental Information
Centre for Hammarby Sjöstad

Abu Dhabi January 2010





Brown field - 1996



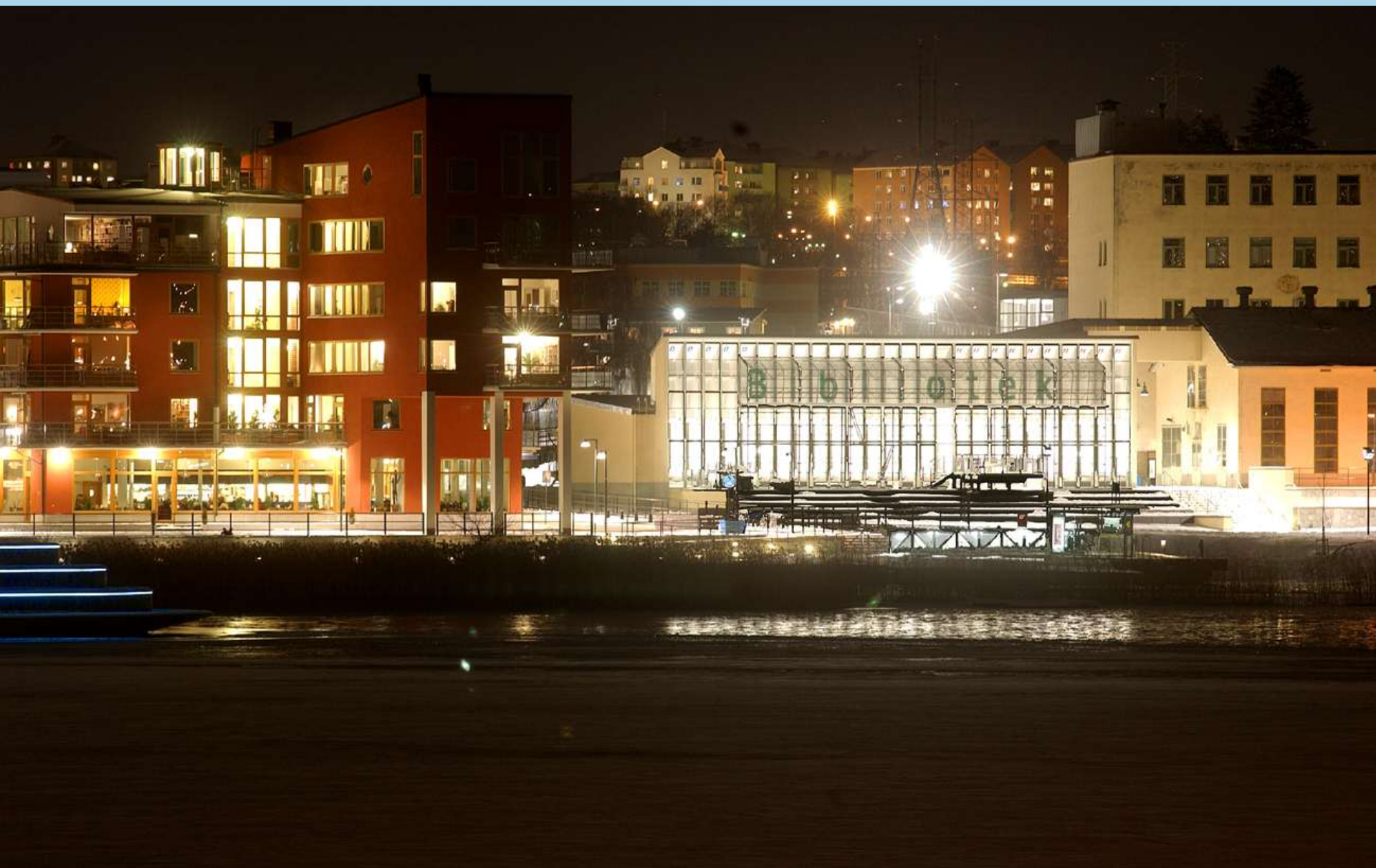
June 2009











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... a modern sustainable city area.









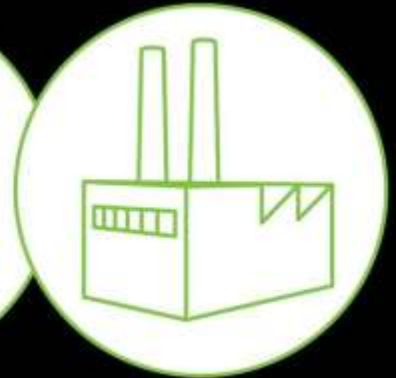




SymbioCity

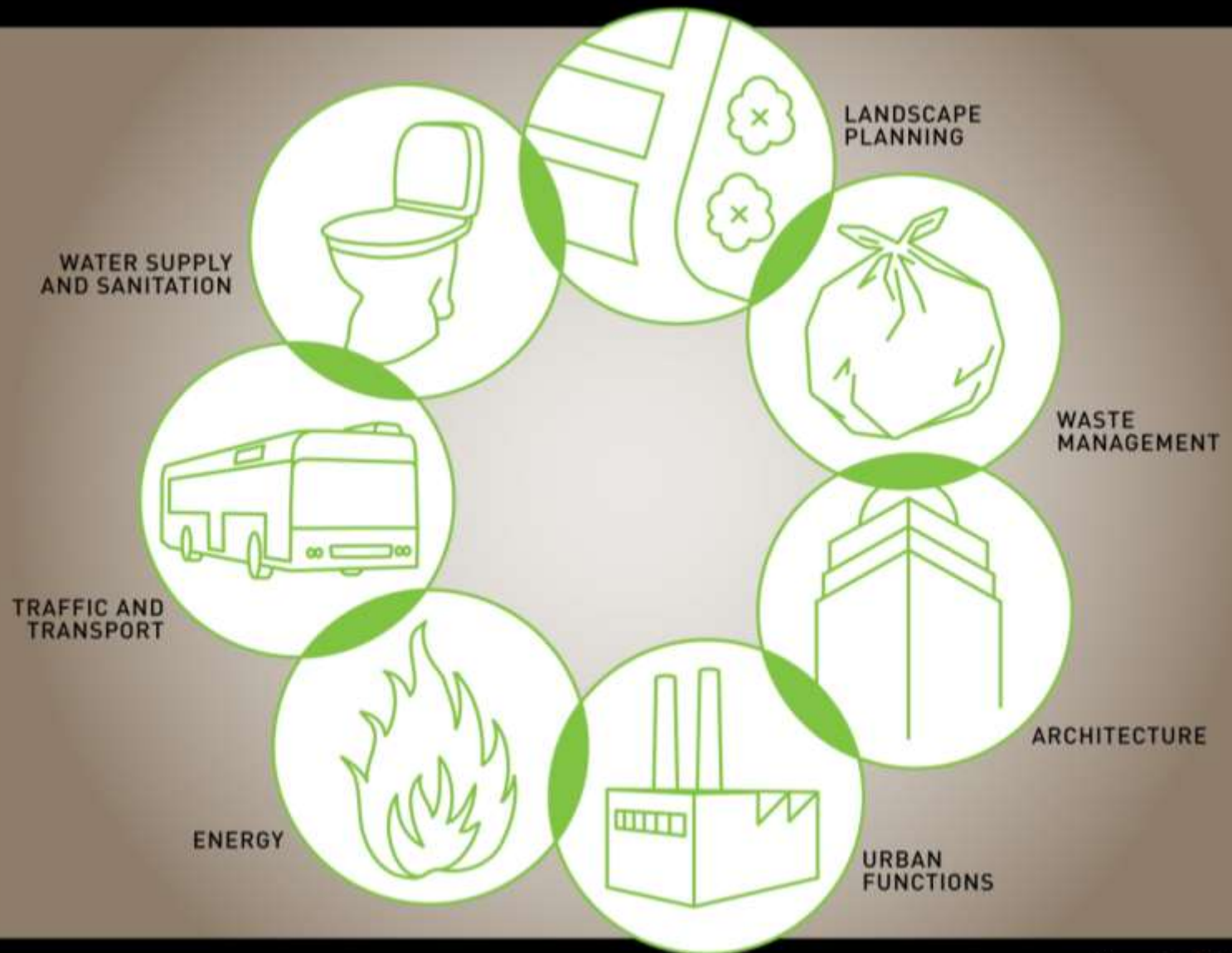
SUSTAINABILITY BY SWEDEN



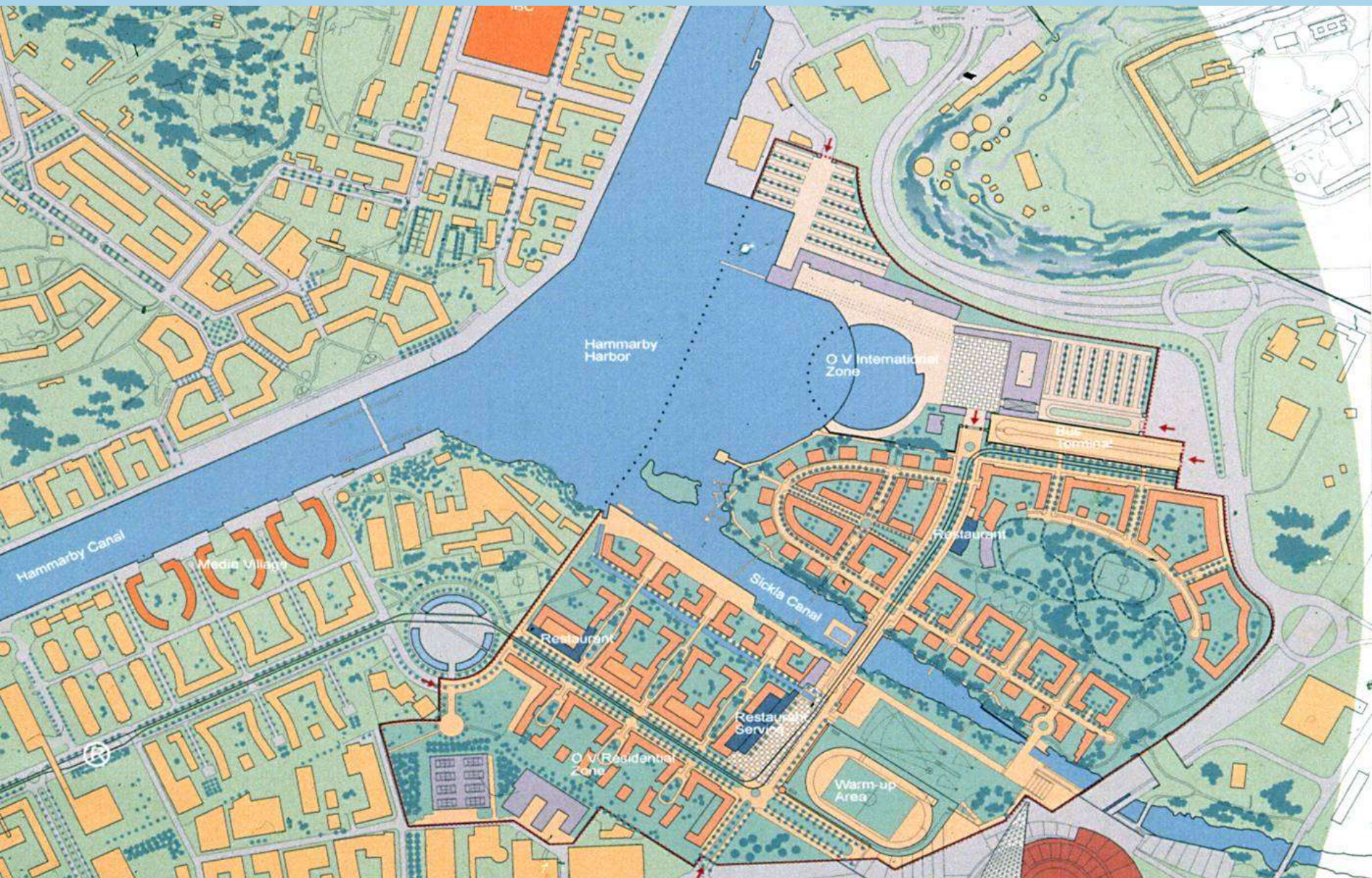




Synergies

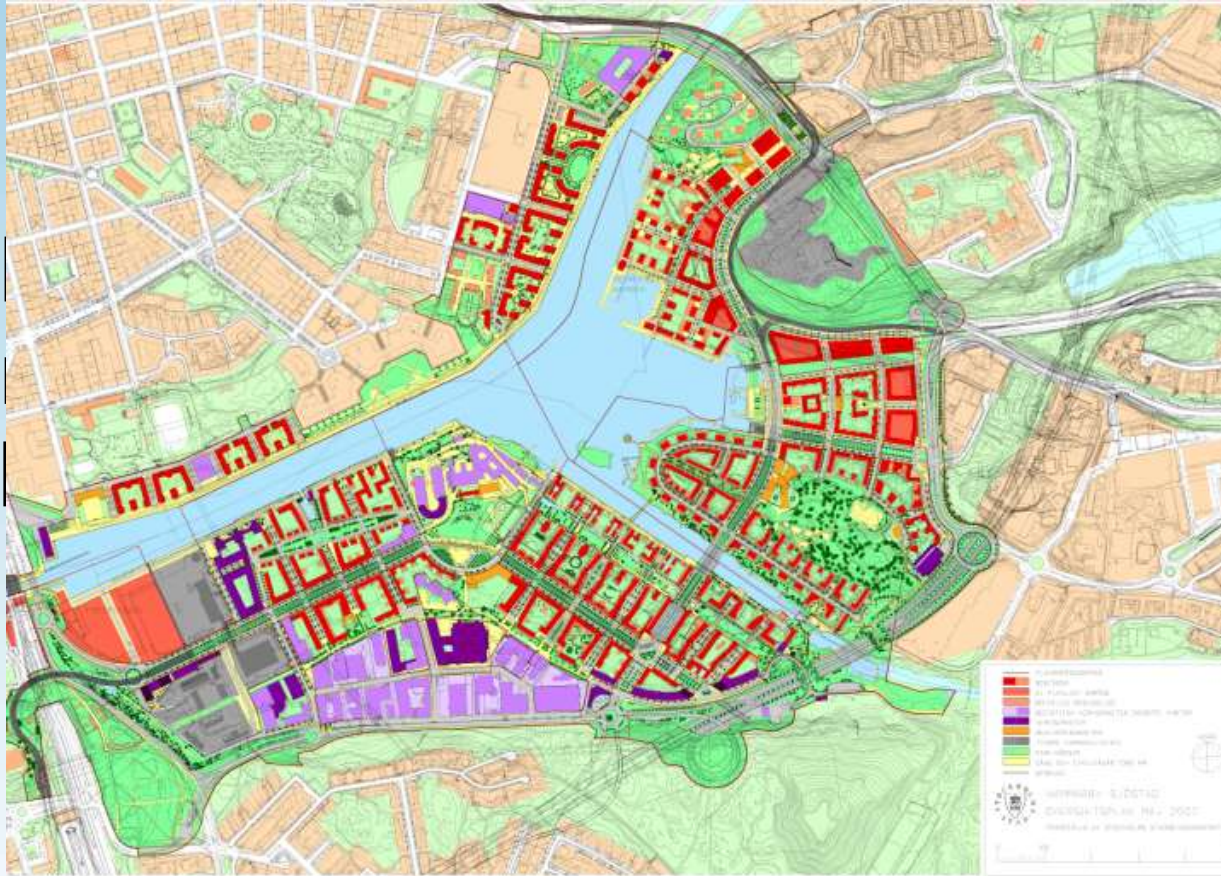


The Olympic project 2004



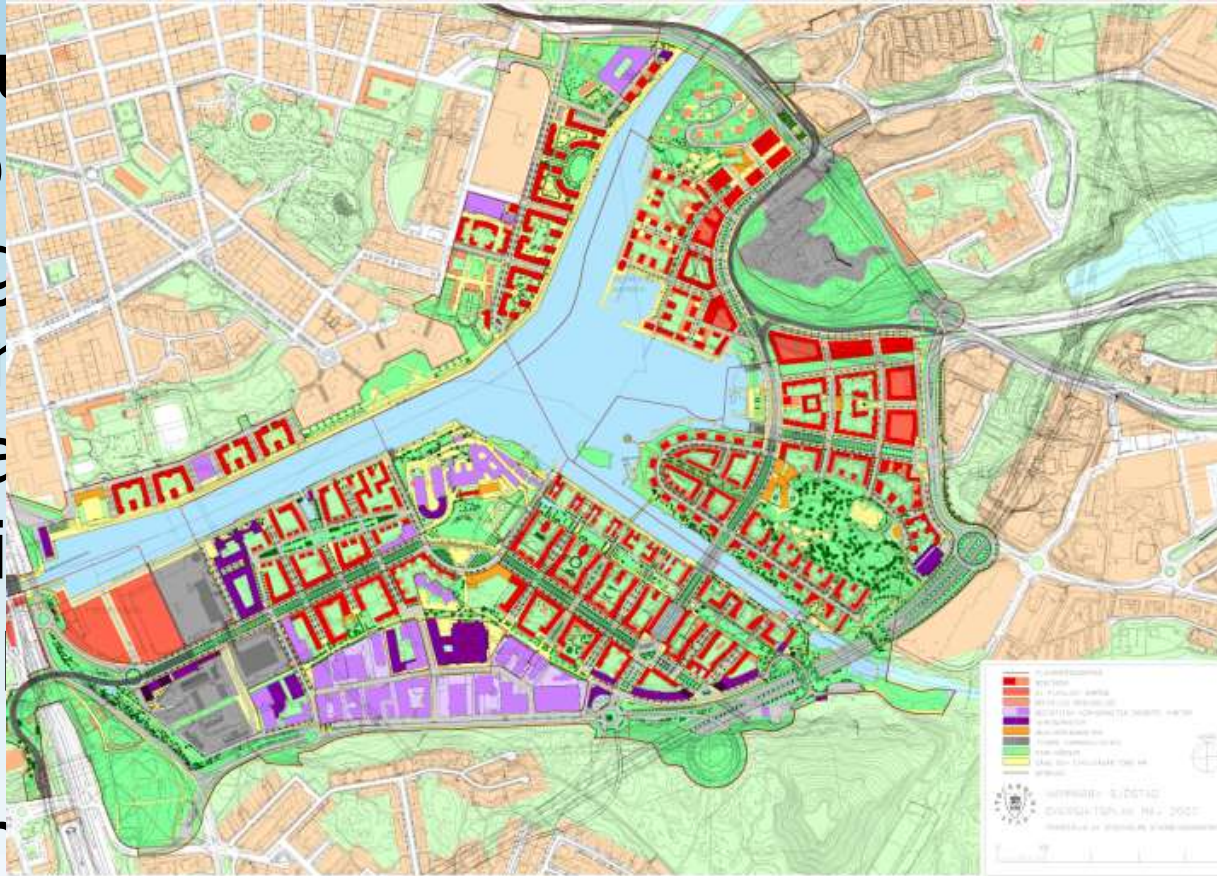
Environmental programme

Lower t
environ
impact



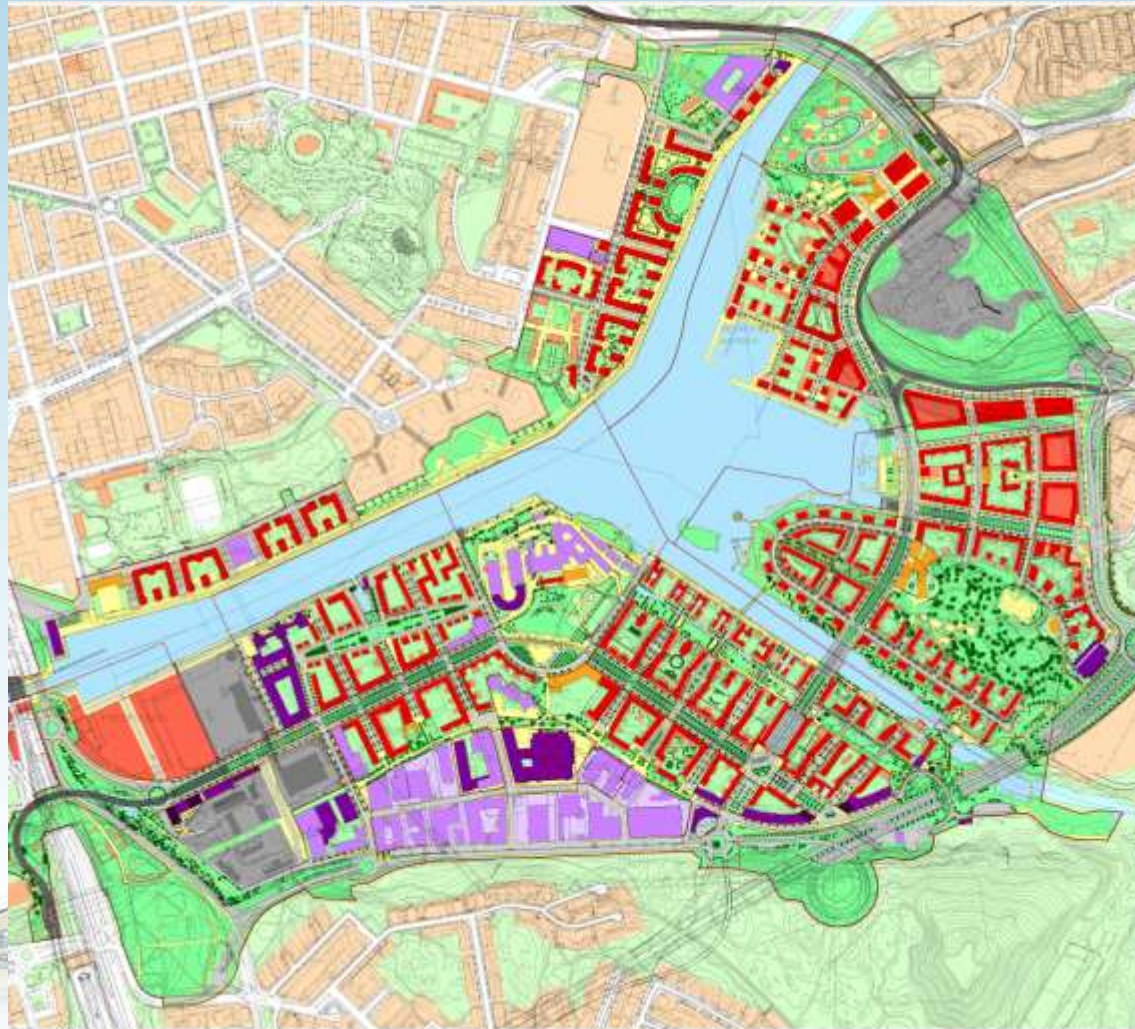
Environmental programme

- land use
- soil pollution
- energy
- water
- garbage
- buildings
- transport
- noise
- green



Hammarby Sjöstad

- 11 000 flats
- 26 000 people
- live
- 10 000 people
- work
- 1997 start
- 2017 est finish





Size: 204 ha (171 ha land)

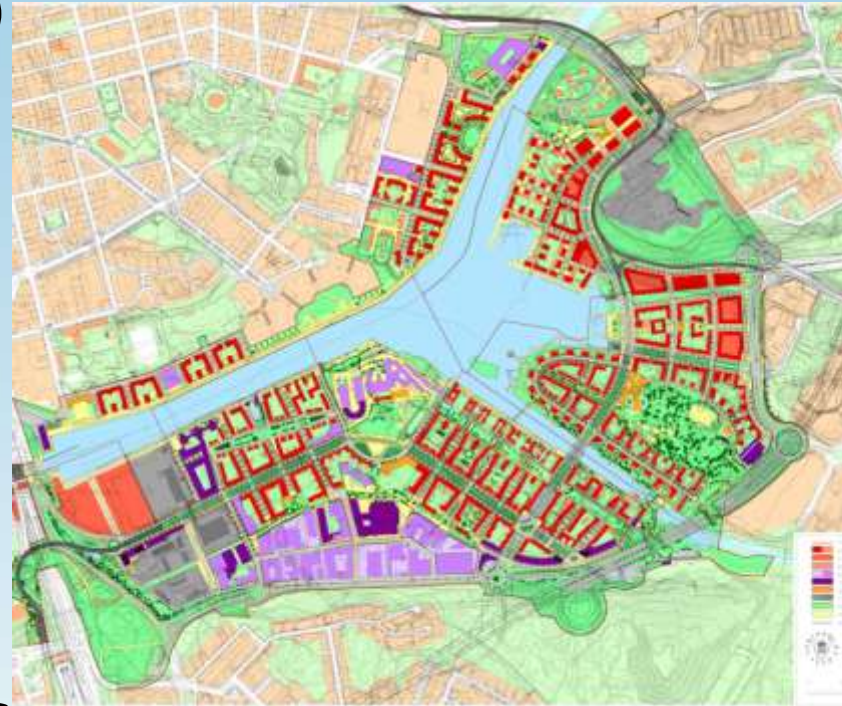
Costs: € 4.5 billion

Investment from the City
net: € 0.2 billion

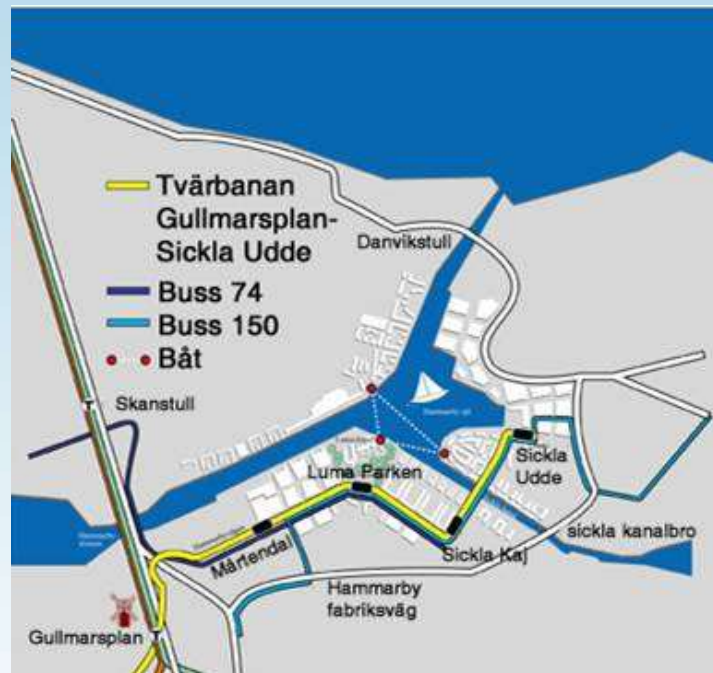
The City of Stockholm
had owned almost all land

The land is sold
or leased to the developers

Cooperation between the City
Planning Dept and the developers
architects.



Local traffic



Local traffic – Light railway link



GlashusEtt

Local traffic - Carpool

 CityCarClub.se



Environmental index for personal transport to work

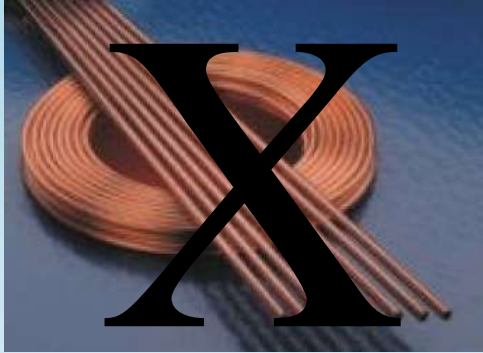
- **~ 79 %** walk, cycle or use the public transport
- Decreased usage of the car for travel to work
~ 40 %



Developers – builders



Developer - Tap water



Copper tubes

Pvc tubes



Other plastic
material or
stainless steel



Developer - Energy class



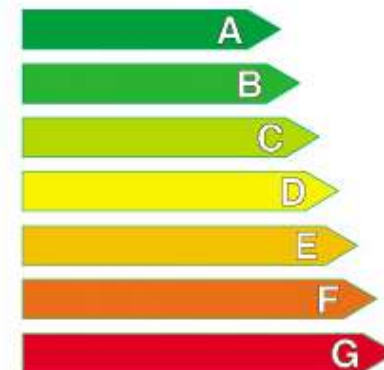
Energi

Leverantör

Modell

(logo)
Fabrikat
Modell

Låg förbrukning



A

Hög förbrukning

Energiförbrukning kWh/år

(Baserad på resultat från standardiserade provningar under 24 timmar)

Verklig förbrukning beror på hur apparaten används och var den är placerad.

330

Volym kyl I

Volym frys I

183

101

Buller

dB(A)

42

Produktbroschyrerna innehåller ytterligare information.

Standard EN 153 maj 1990
Direktiv om märkning av kyl/frys 94/2/EG


Low flushing toilets

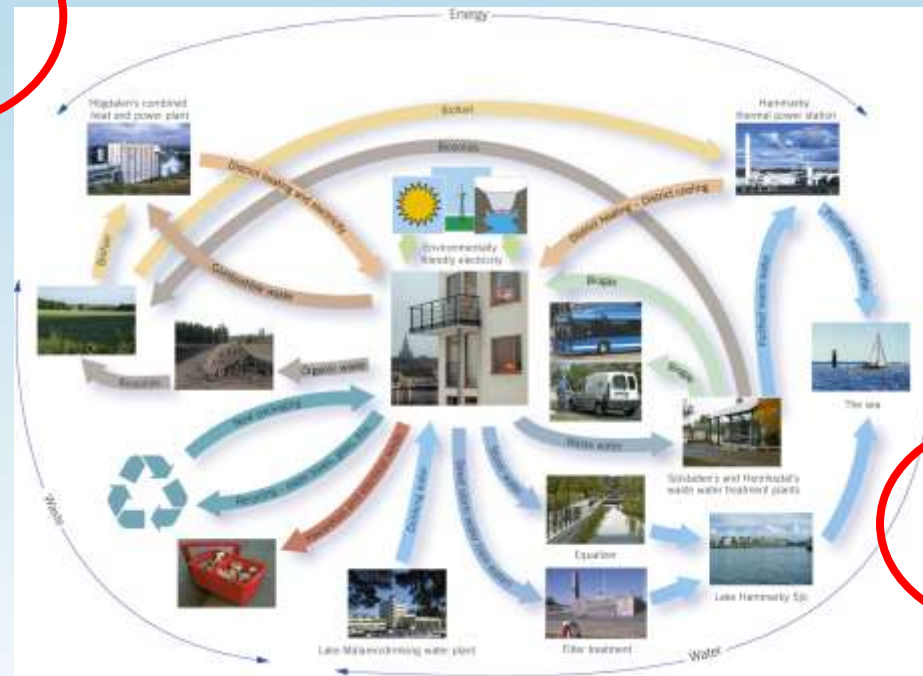


Developer

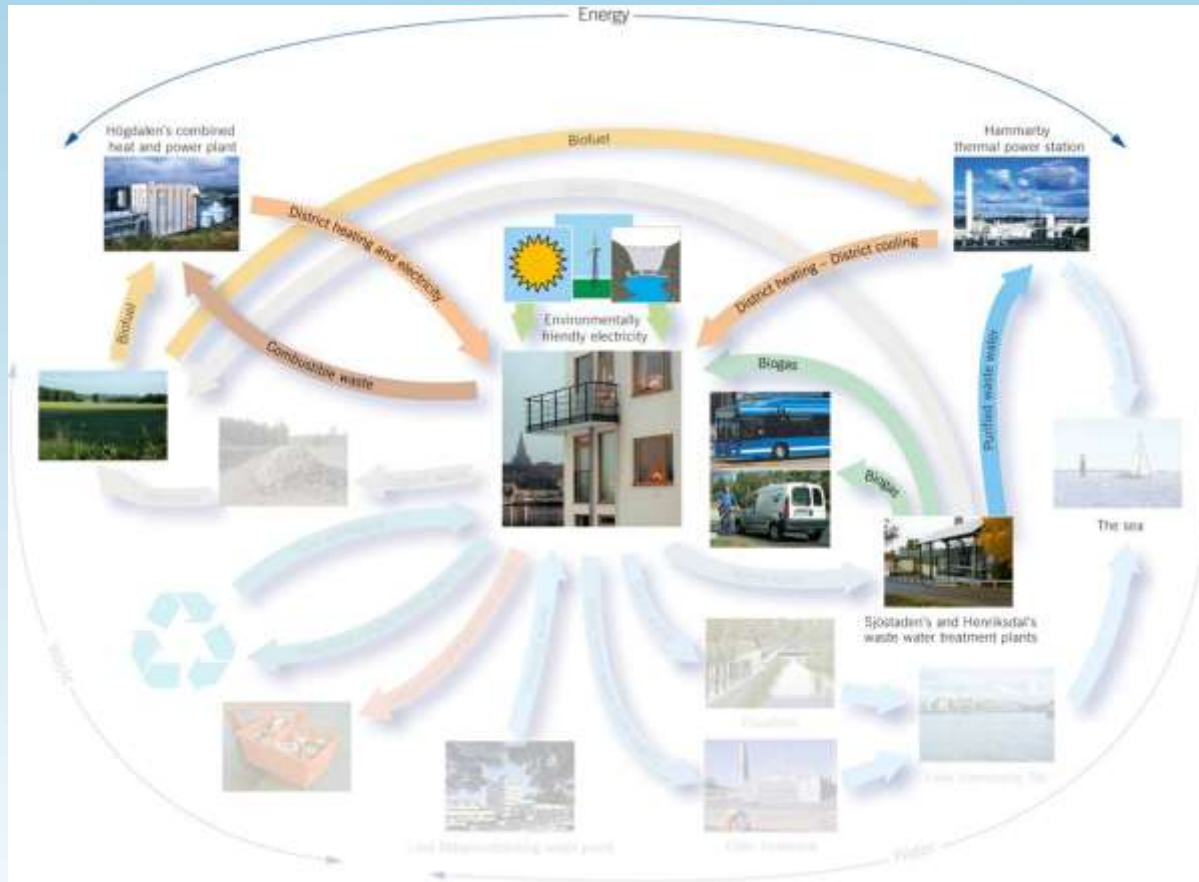
- Environmental material
- Reusable material



The Hammarby model



Energy



District heating



Combustible
waste is
incinerated



District heating,
hot tap water
and electricity



District heating



Heat from the purified waste water



District heating,
hot tap water
and district
cooling



Solar Energy

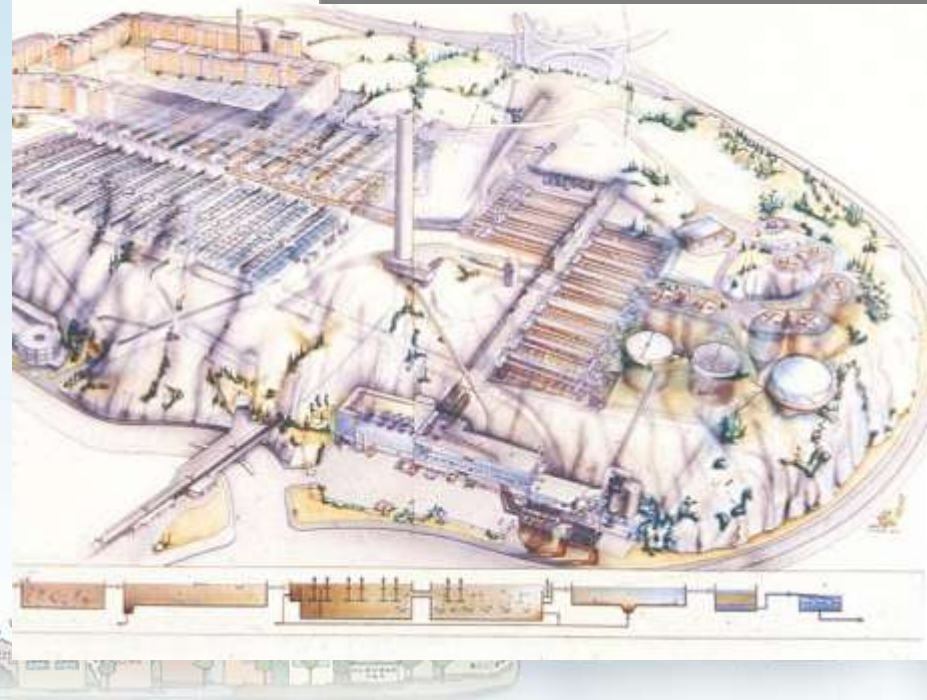
Solar cells



Solar panels



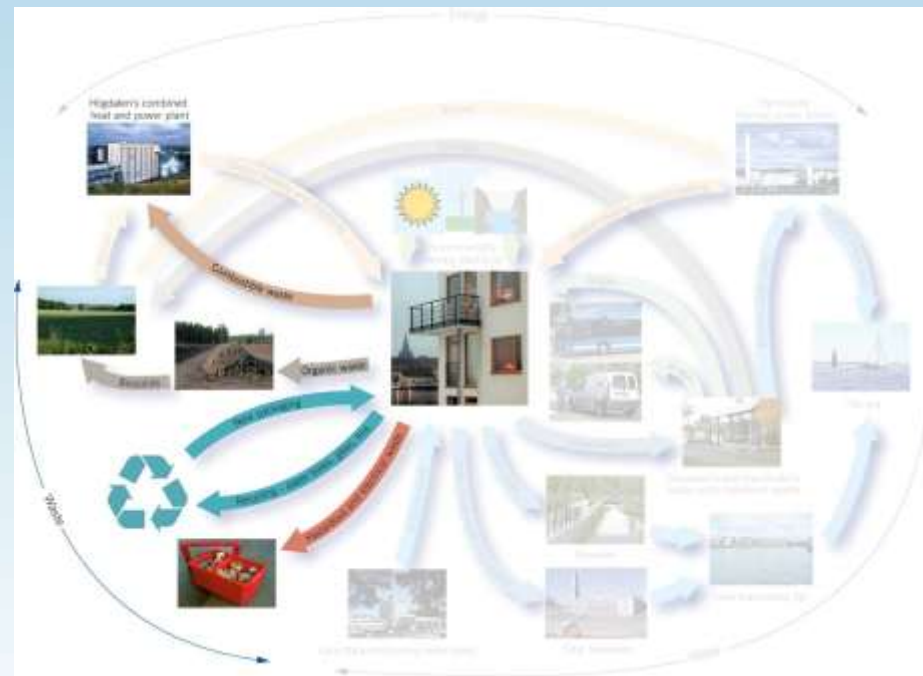
Biogas



Biogas busses/cars



Waste



Stationary vacuum system for waste and recyclables

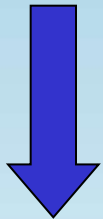


Water



Water consumption

200 l/p/day



Today in
Hammarby
Sjöstad

150 l/p/d



Consulting firms:



Developers:



SKANSKA



ByggVesta

PEAB

Wallenstam

EM EINAR MATTSSON



75 % of all targets built in the buildings and the infrastructure



GlashusEtt

The environmental
information centre





Achievement

- Aim: Lower by half
- Result: 30 – 40%



Use the experience from Hammarby Sjöstad







Norra Djurgårdsstaden – The Stockholm Royal Sea Port

Over all objective:

- Year 2030 is the Royal Seaport fossil free
- Year 2020 under 1,5 ton CO₂ per person
- A Climate adopted area



Husby

9 000 apartments built in the 1960's
in the north suburbs of Stockholm

- Improving energy efficiency
 - From 158 to 30 - 64 kwh/m²/year
- Energy system and supply
 - Photoelectric panels
 - Better use of district heating
 - Reducing the need for bought energy
 - Garbage disposals for biogas production



STOCKHOLM

winner 2010



EUROPEAN
GREEN CAPITAL

GlashusEtt

Congestion tax



SL – Public transport



Parks



District heating



The key to Hammarby Sjöstad's success –



- Integrated planning

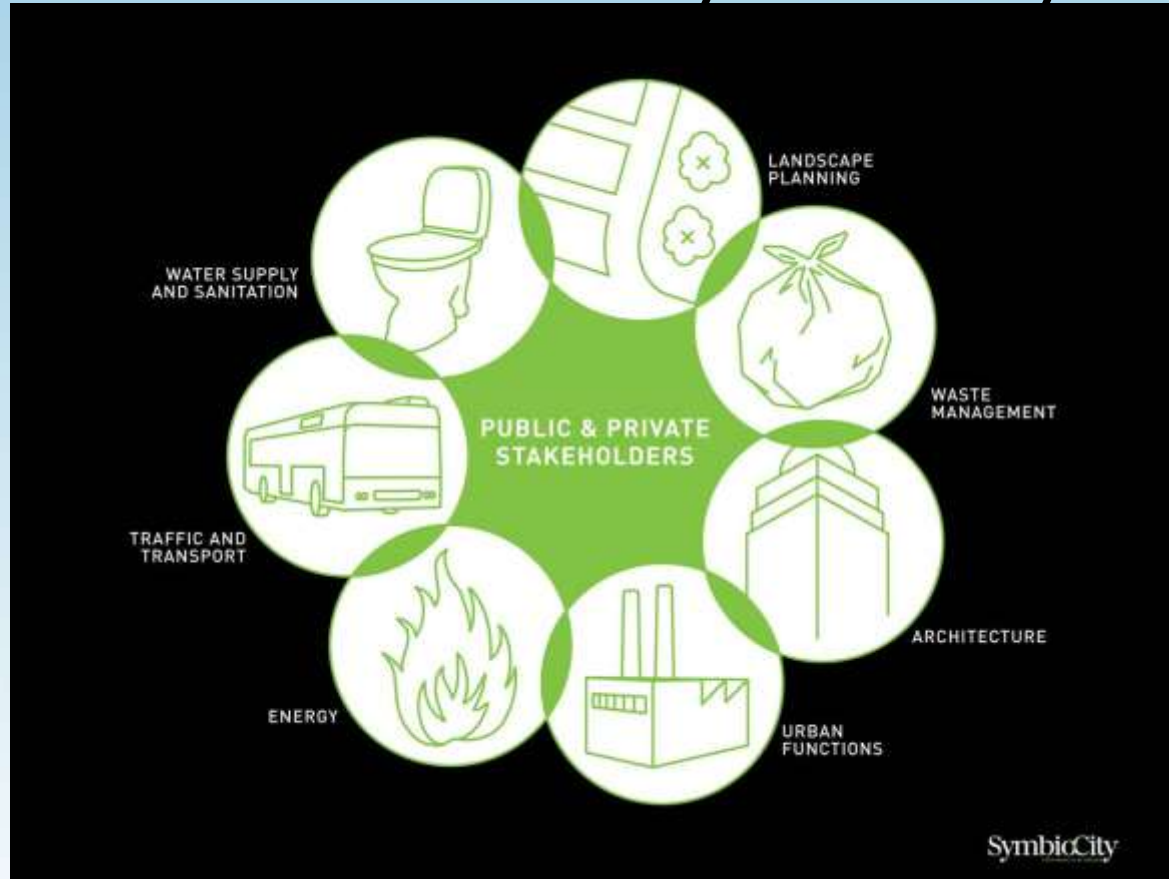


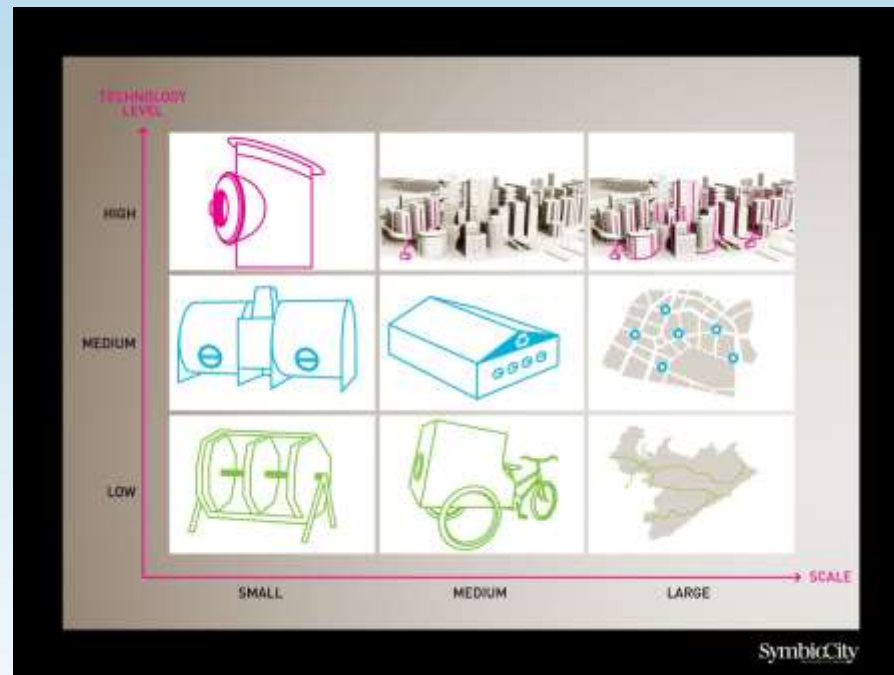
Symbiocity



Philosophy

www.symbiocity.org







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Tack!

