# URBAN STUDIES & PLANNING

# Urban Challenge Studio 1

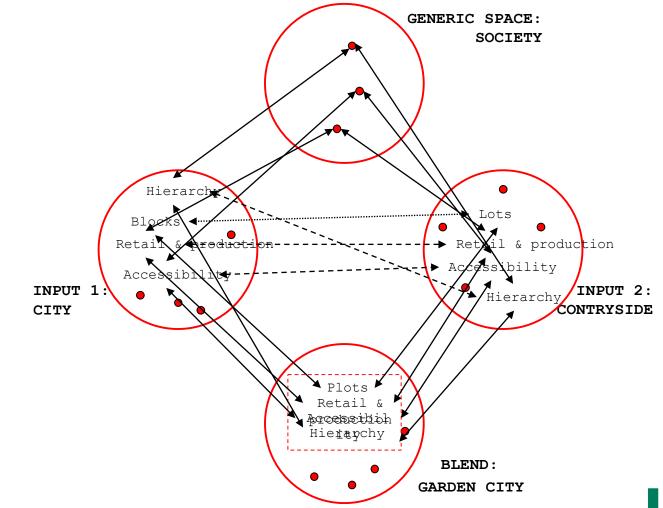
Network city - Sprawl 02.10.2020

KAUP UNKI AKAT EMIA



#### **Conceptual blending**

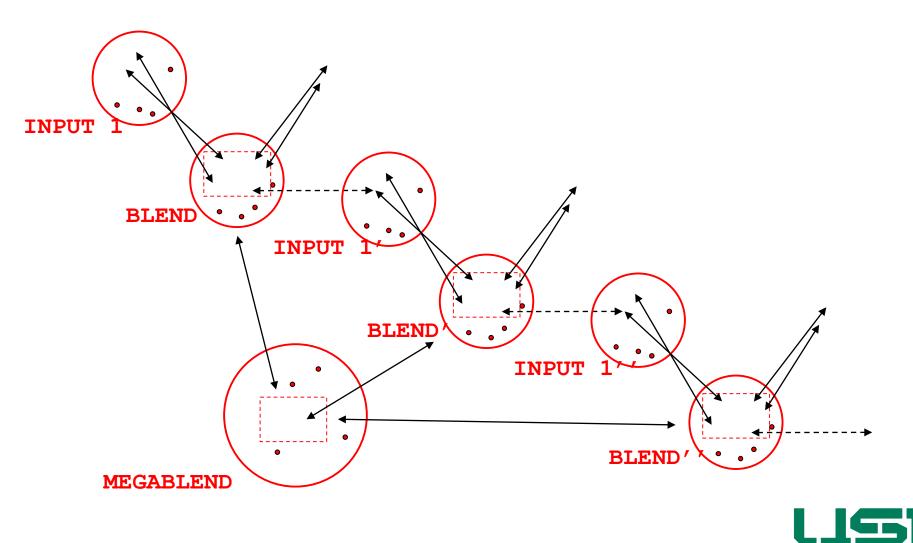
See: Fauconnier & Turner 2002





#### **Conceptual blending**

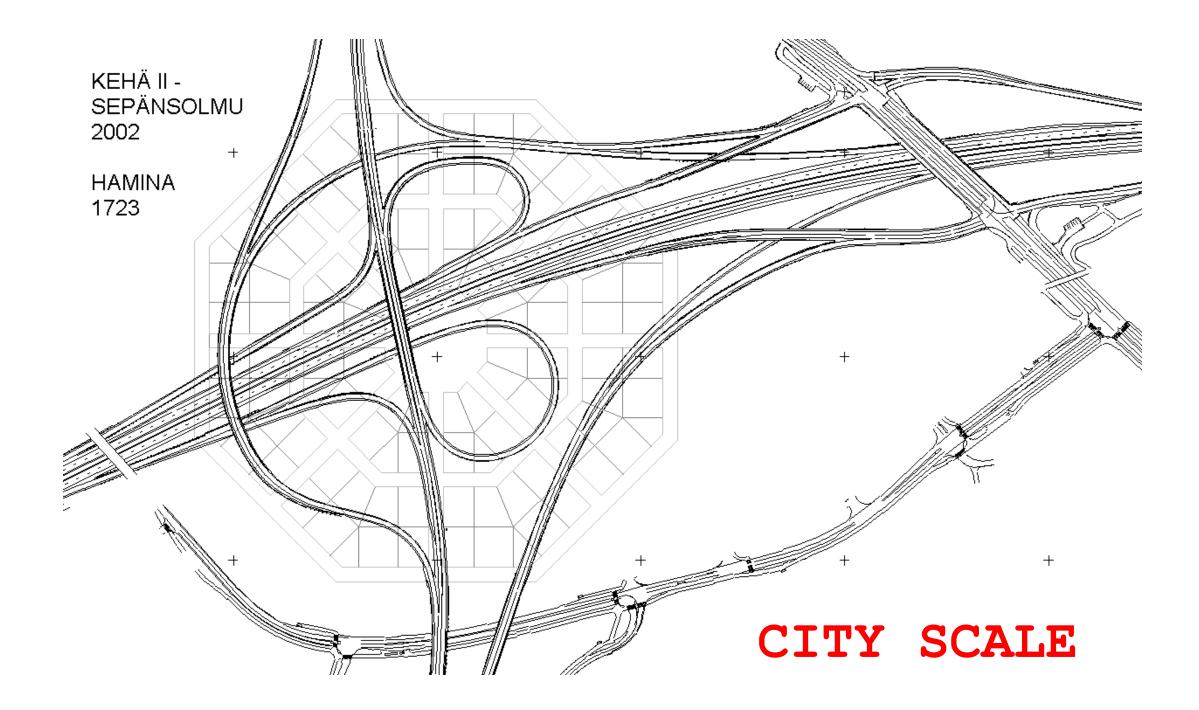
See: Fauconnier & Turner 2002



**URBAN STUDIES & PLANNING** 

# TRACES OF RECENT URBAN DEVELOPMENT

**.** 



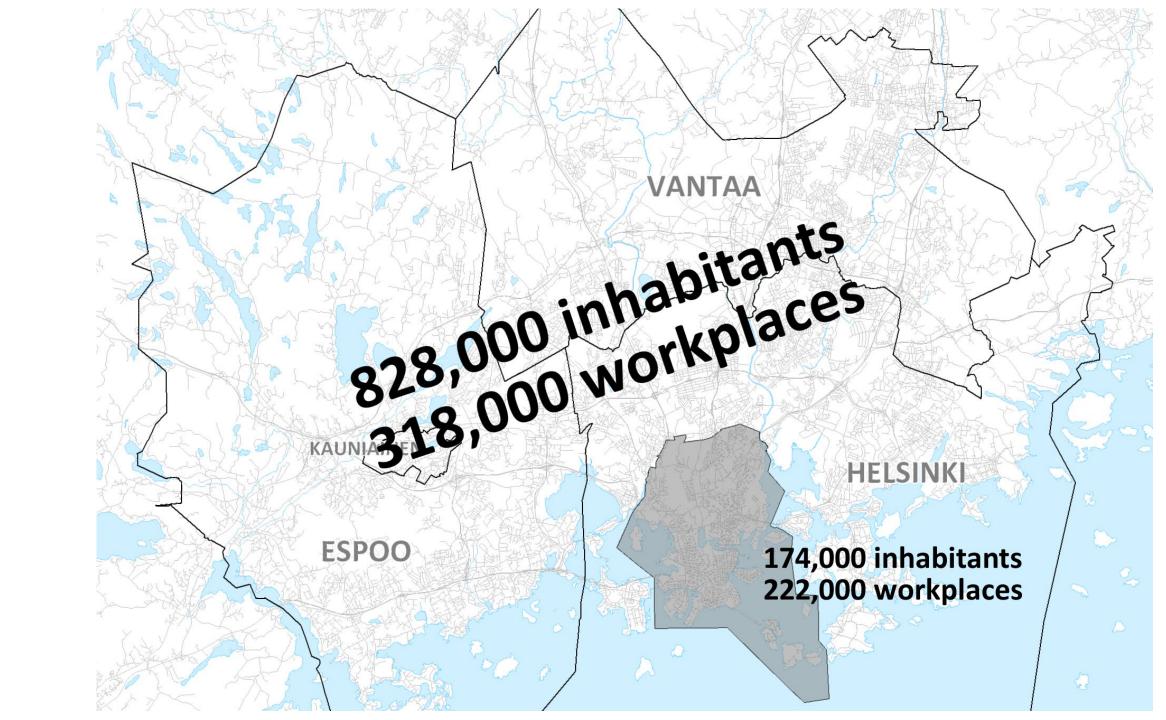
# RBAN



#### CHANGE IN CITY CONCEPT

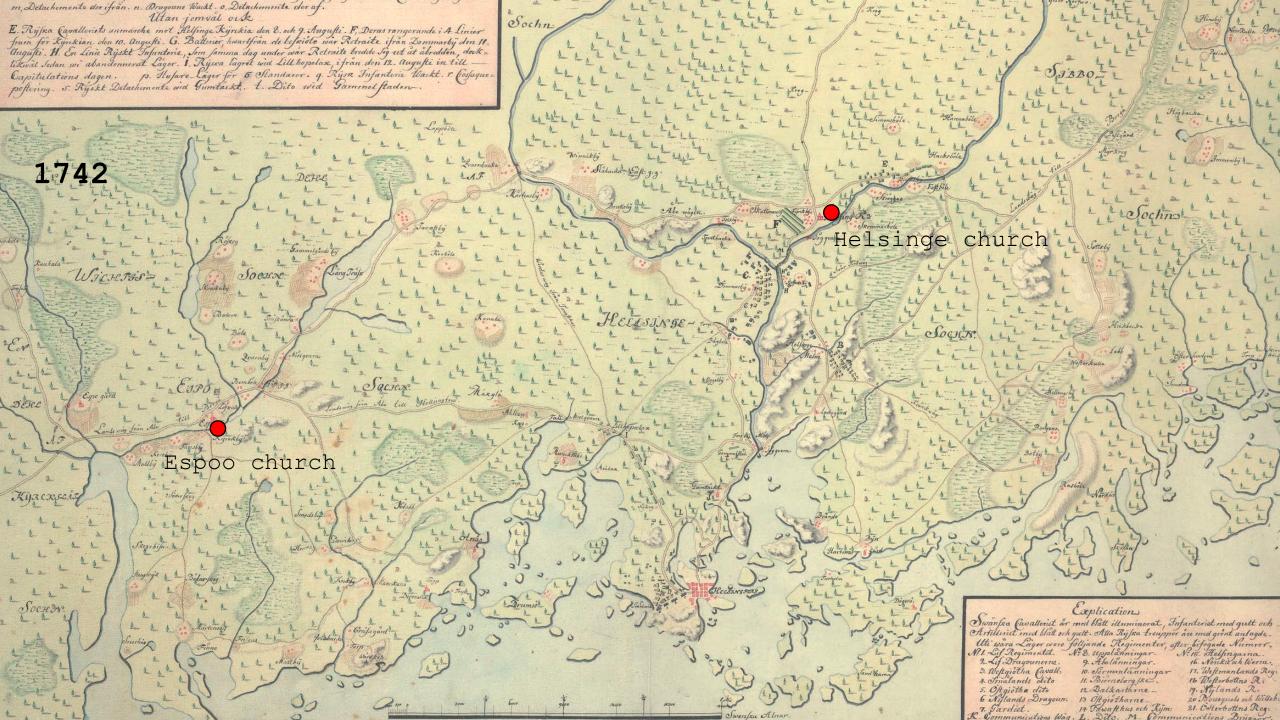


Mun  $\mathbb{O}$ 

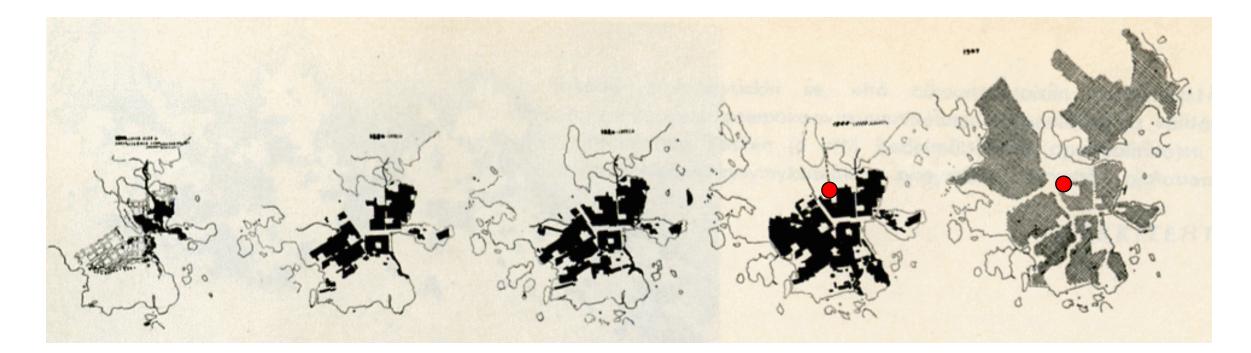


### TRACES OF HELSINKI DEVELOPMENT

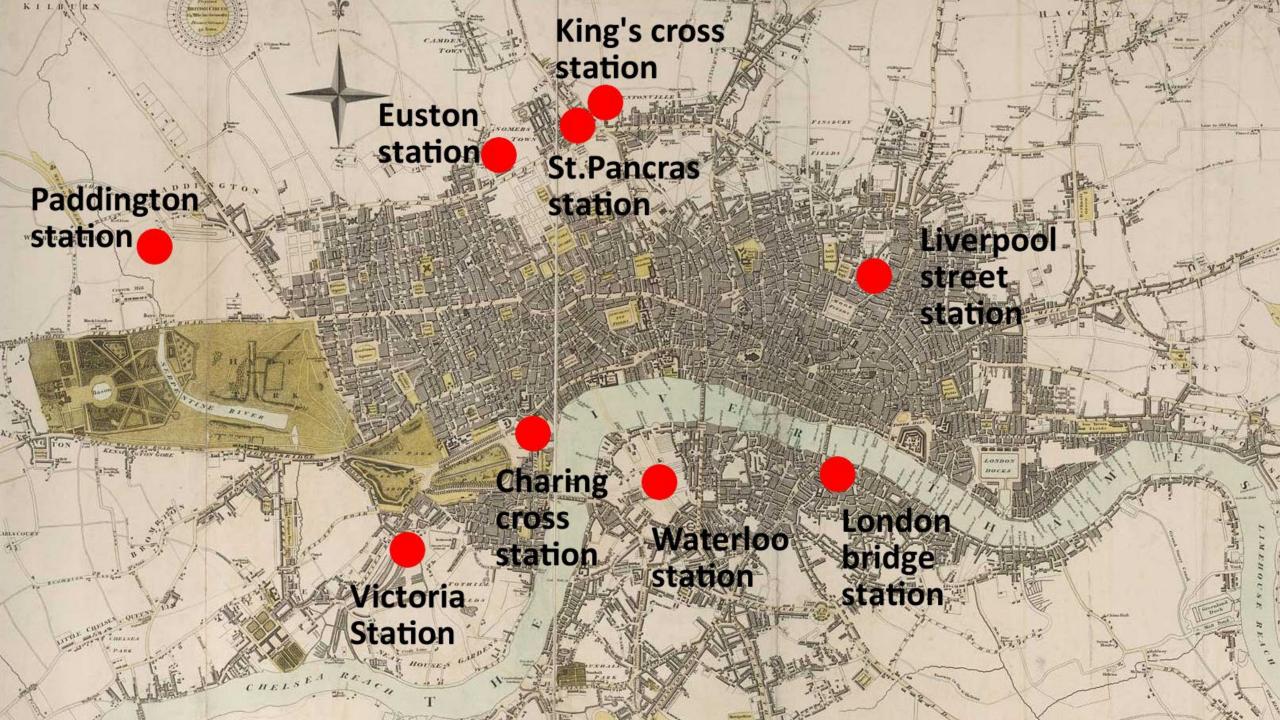
**.** 



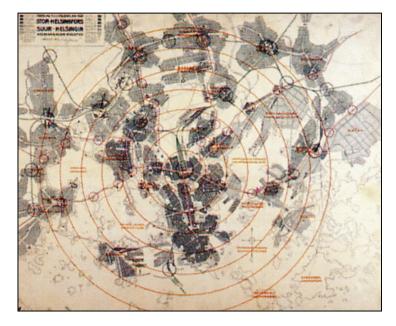
#### HELSINKI PRE-1900

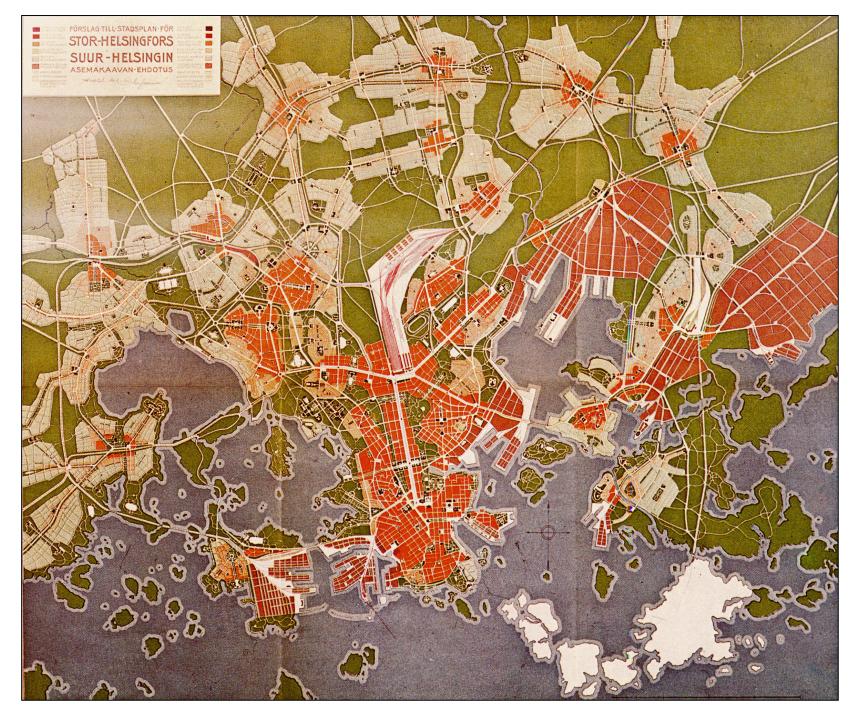


1800	1830	1850	1900	1910
4 000 inhab.	8 000 inhab.	21 000 inhab.	80 000 inhab.	120 000 inhab.
				(currently 110 000 inhab.)



#### ELIEL SAARINEN 1915-1918

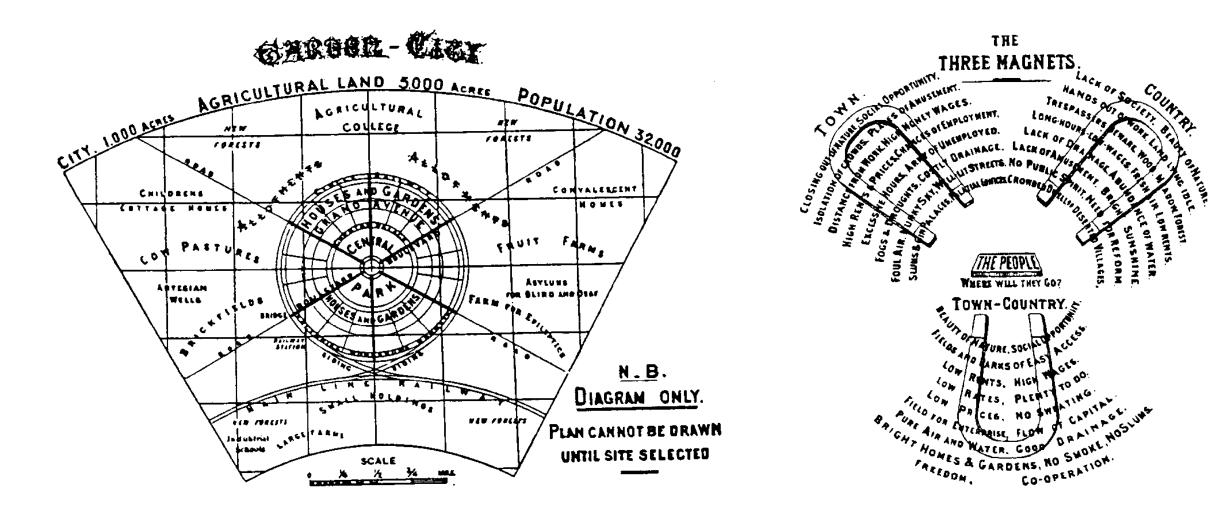




#### GARDEN CITY

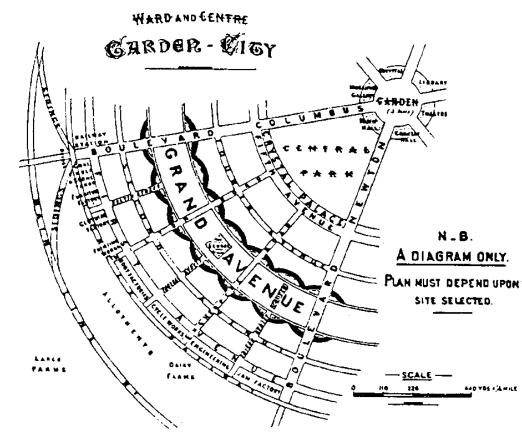
EBENEZER HOWARD

To-morrow: a Peaceful Path to Real Reform (1898) Garden Cities of To-morrow (1902)



#### GARDEN CITY

#### EBENEZER HOWARD 1898/1902

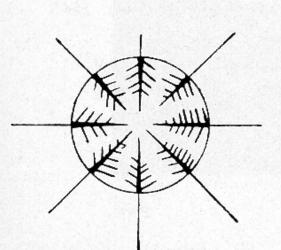




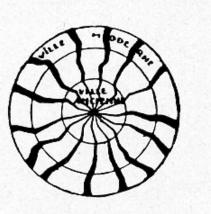
[73] Welwyn. Englantilainen Lontoon lähistölle perustettu puutarhakaupunki. Arkkit. L. de Soissons. C. B. Purdom, 1925.

#### LE CORBUSIER

"Urbanisme" 1929



[21] Liikenne oli keskiaikaisissa kaupungeissa laidoilta keskukseen päin vähenevä.



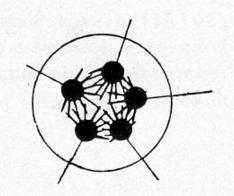
[86] Keskeltä ahdas, laidoilta tilava katuverkko, tähänastisen kehityksen tavallisin tulos.

Le Corbusier, 1929.



[87] Liikennemäärä on suurin keskikaupungilla ja edellyttäisi siellä tilavimpia katuja.

Le Corbusier, 1929.

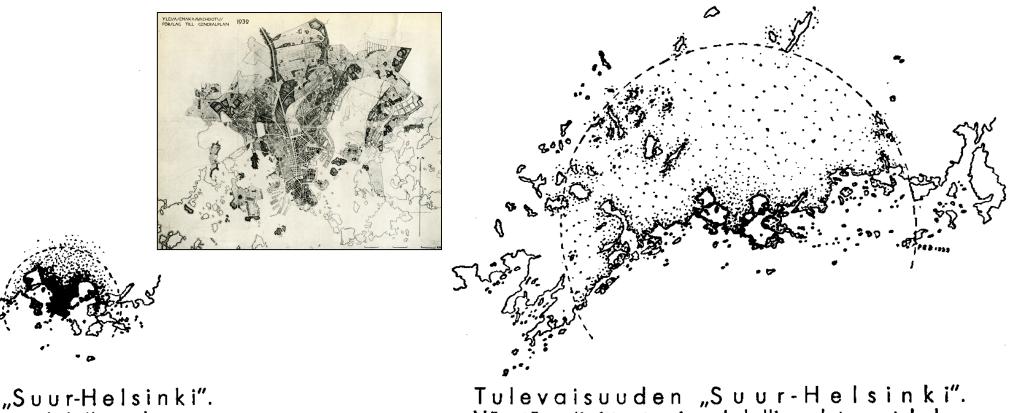


[88] •Rautatieasemat syöksevät hetkittäin suuria ihmismääriä aivan kaupungin keskustaan.

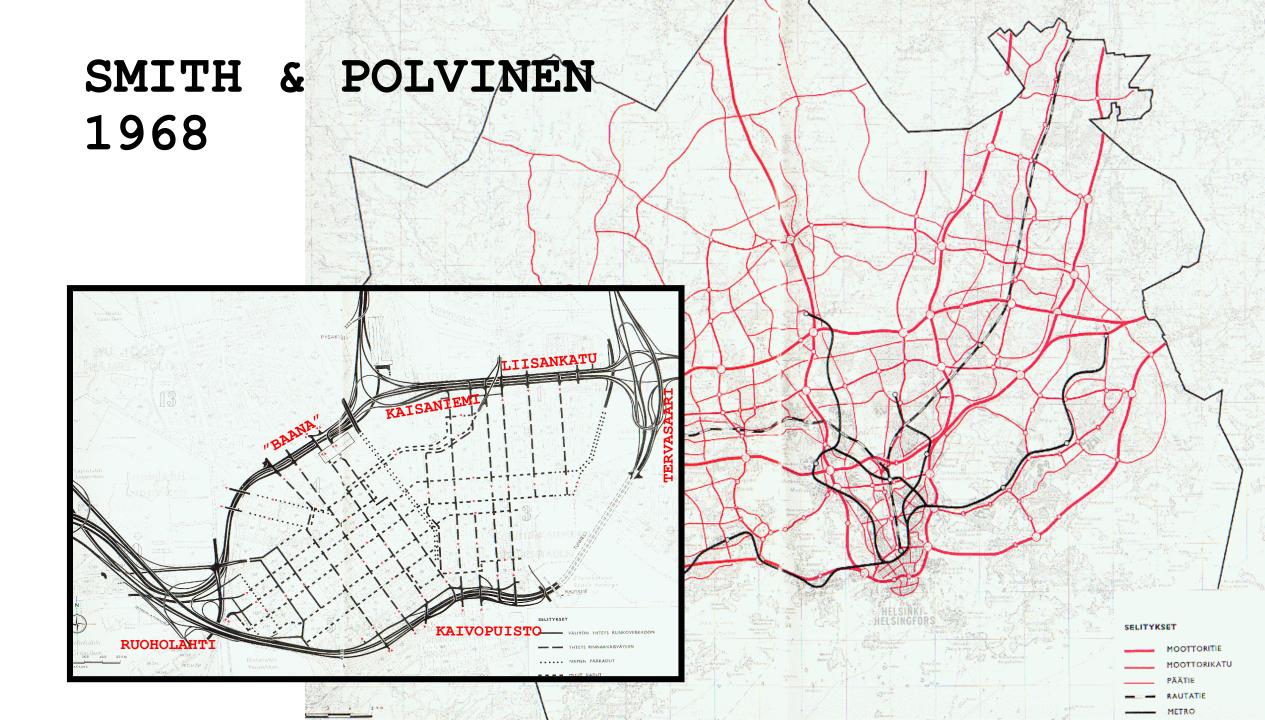
Le Corbusier, 1929.

Le Corbusier, 1929.

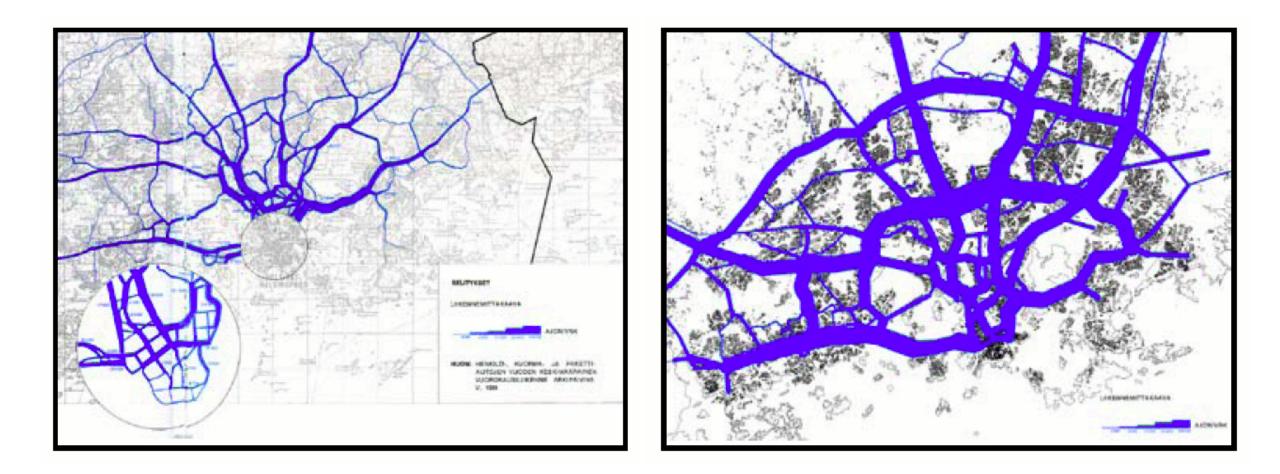
#### P.E. BLOMSTEDT 1932



Pikku "Suur-Helsinki". Laajennusmahdollisuudet vuonna 1918. Tulevaisuuden "Suur-Helsinki". Väestön sijoittautumismahdollisuudet ovat kokonaan muttuneet, väestötiheys moninkertaisesti väljempi.



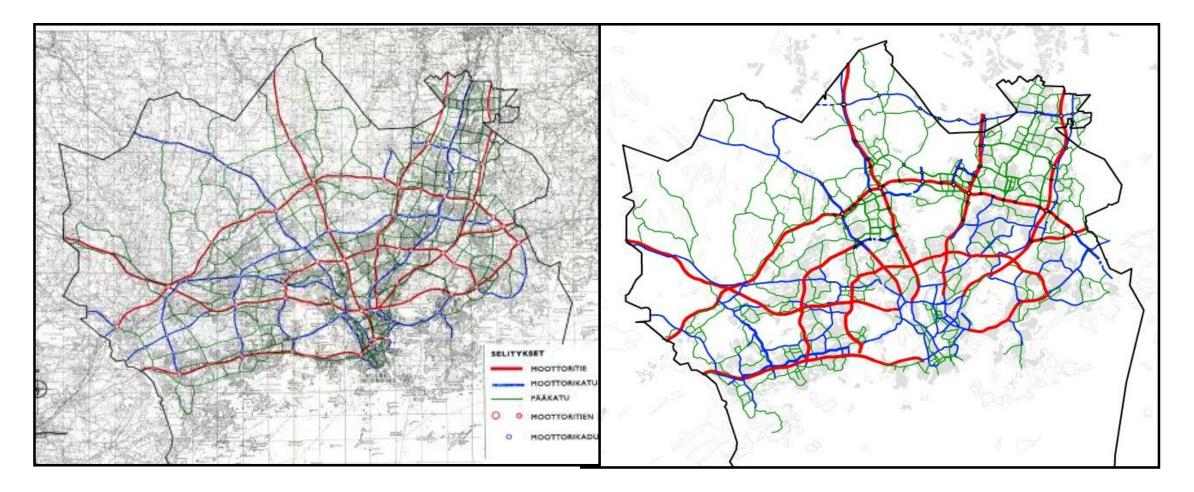
#### Before (1968) - After (2005)



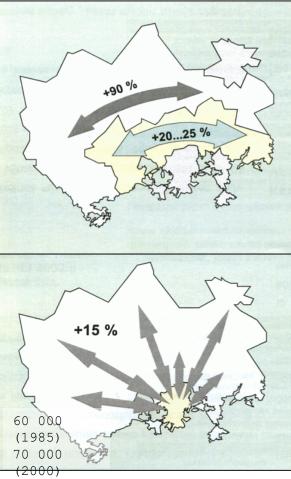
#### **Find five differences?**

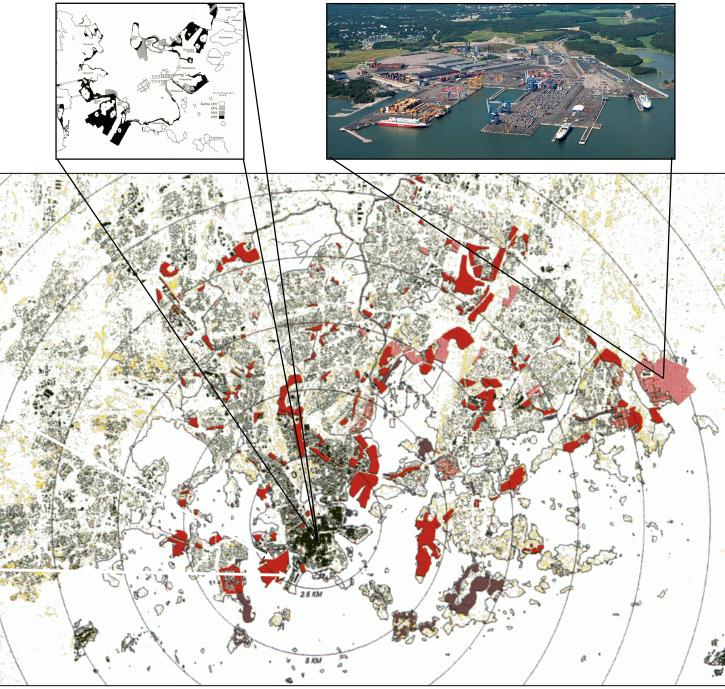


Smith&Polvinen (1968) vs. Greater Helsnki general plans (2005)



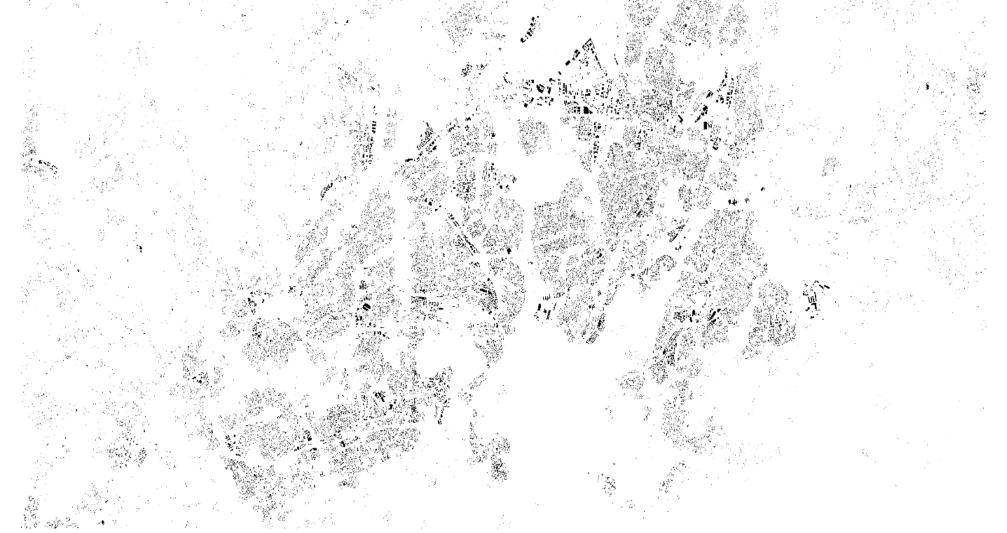
#### **GENERAL PLANS 1992**



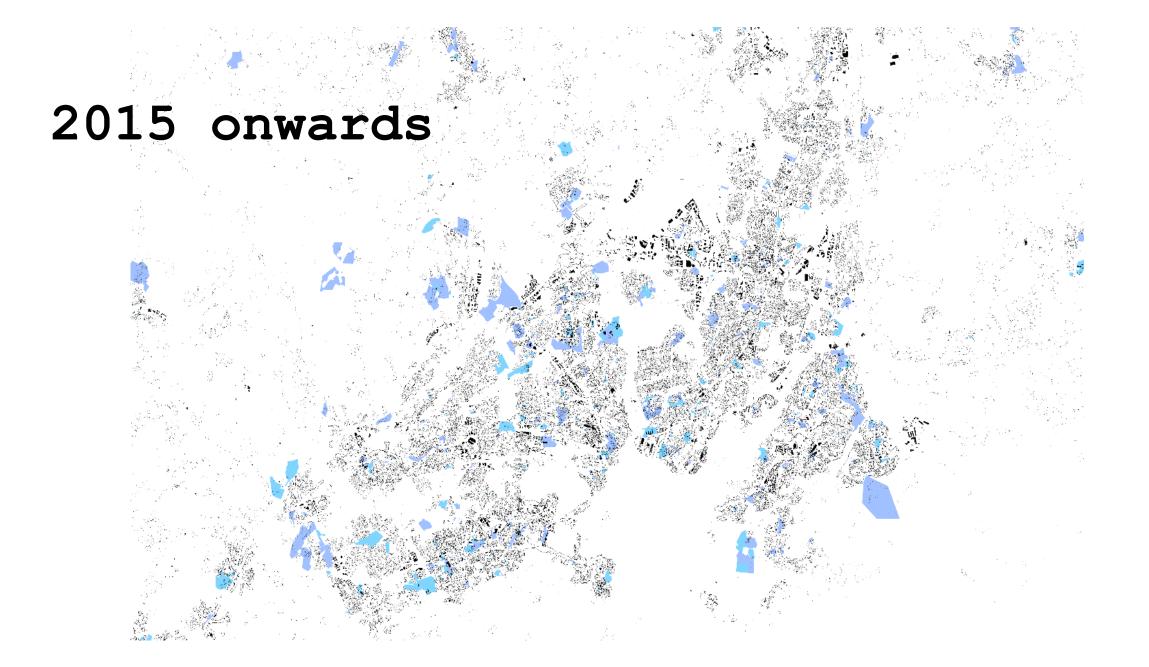


72 000

#### Periurbanization

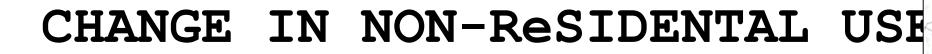


# Extension 2000-2015

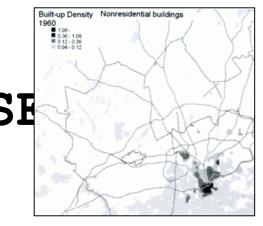


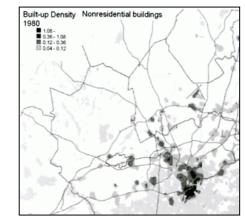
# **REMARKS ON DENSITY AND CHANGE**

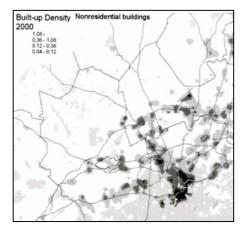
**A**.





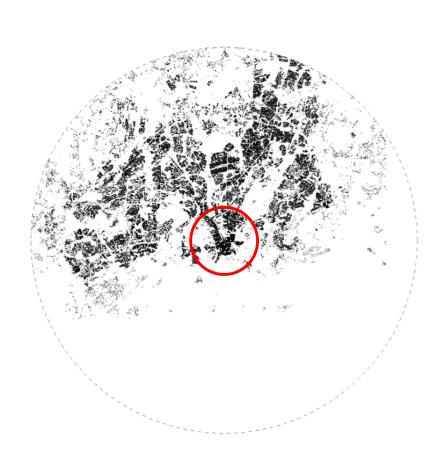






#### FACTS ON SIZE AND DENSITY







# URBAN STUDIES & PLANNING

#### Exercise

#### Density explained

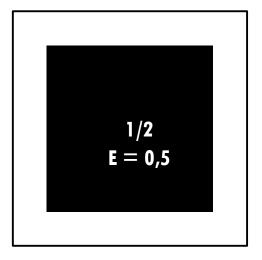
----- density increase ----->

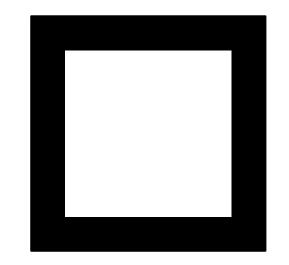




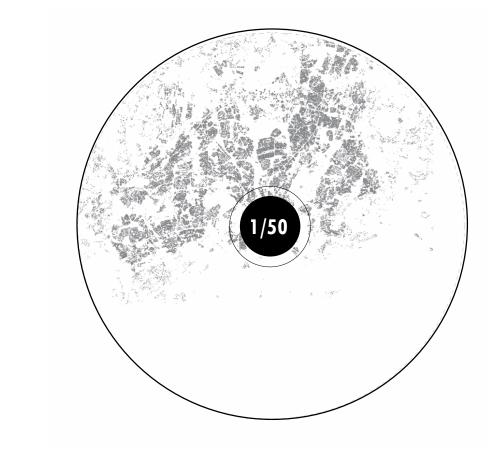
- Density = items per reference container
- Density is a non-qualitative measure
- Only two sources on confusion
  - Wrong reference plane/volume
  - Wrong items to calculate
- Density is not explaining feature, but one to be explained!

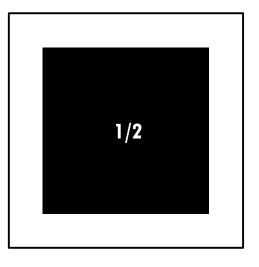












#### Testing reference area

- 1. Define density of Helsinki, Espoo, Vantaa and Kauniainen
- 2. Define density of Helsinki, Espoo, Vantaa and Kauniainen suburban area
- 3. Define density of Helsinki, Espoo, Vantaa and Kauniainen suburban area excluding nature
- 4. Define density of Helsinki, Espoo, Vantaa and Kauniainen suburban area excluding nature in varying subunits



### Testing density items

- 1. Define suburban building density
- 2. Define suburban population density
- 3. Define suburban workplace density
- 4. Define suburban population density in age groups
- 5. Define density of something else that you find interesting



#### Ex.4 Density

In principle, density is a trivial concept with two unknown variables - it quantifies entities per reference area. Therefore it is difficult to use as a static local measure to describe the ever enlarging opportunities people have to interact with their surroundings. Despite this (not-so-minor) assumption that all density analyses contain, they stil remain part of the basic tool kit of urban analysis.

Density analysis is not a single measurement, but rather a family of measurements that quantify important features in a relevant spatial container.

This said, this week's task is threefold:

1) Which feature of density, considering your own interest or disciplinary perspective, could be most relevant to good/bad urban environment?

2) How can it be measured?

<IF NO ANSWER, GO BACK TO QUESTION 1.>

3) Perform analyses and post it to the up.aalto.fi/ by Friday morning.

