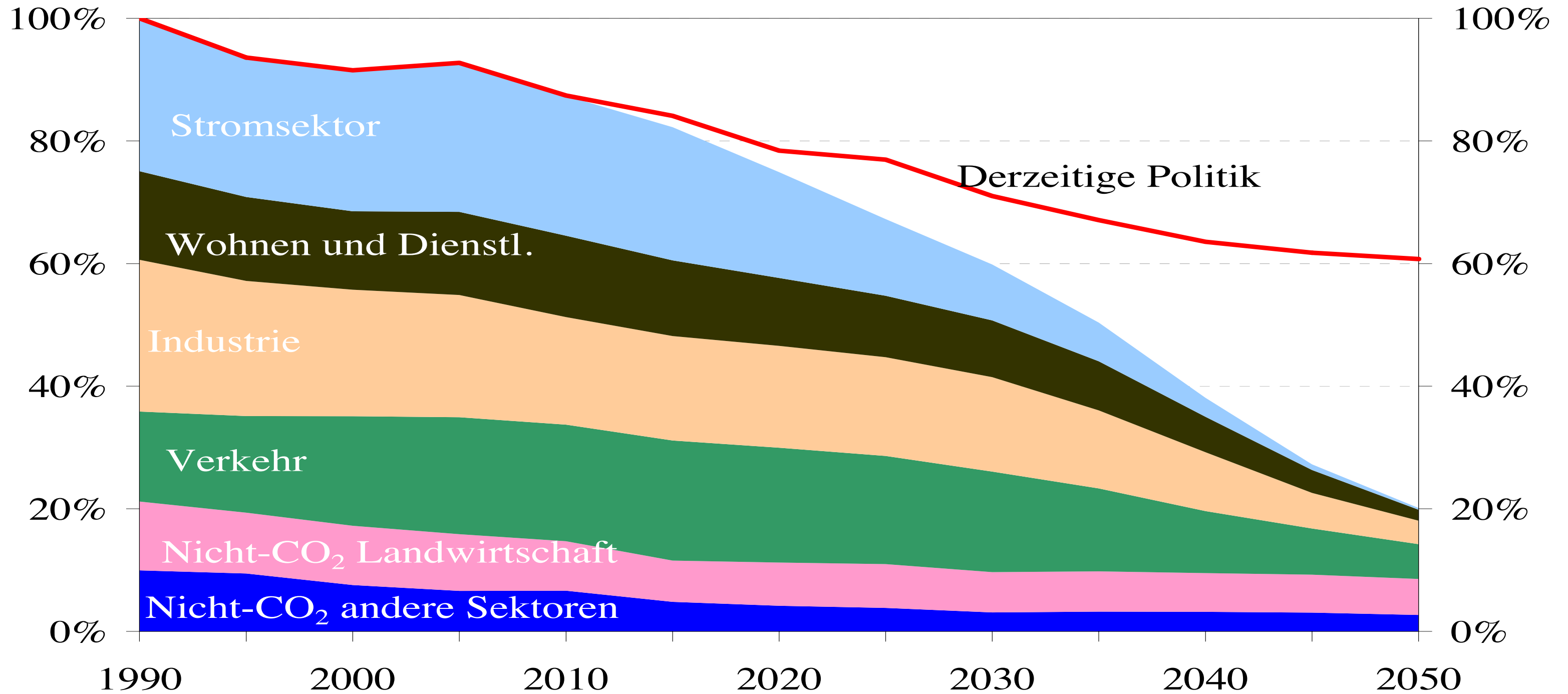




Welcome to the breathtaking
Tokyo Water Park



EU Roadmap 2050



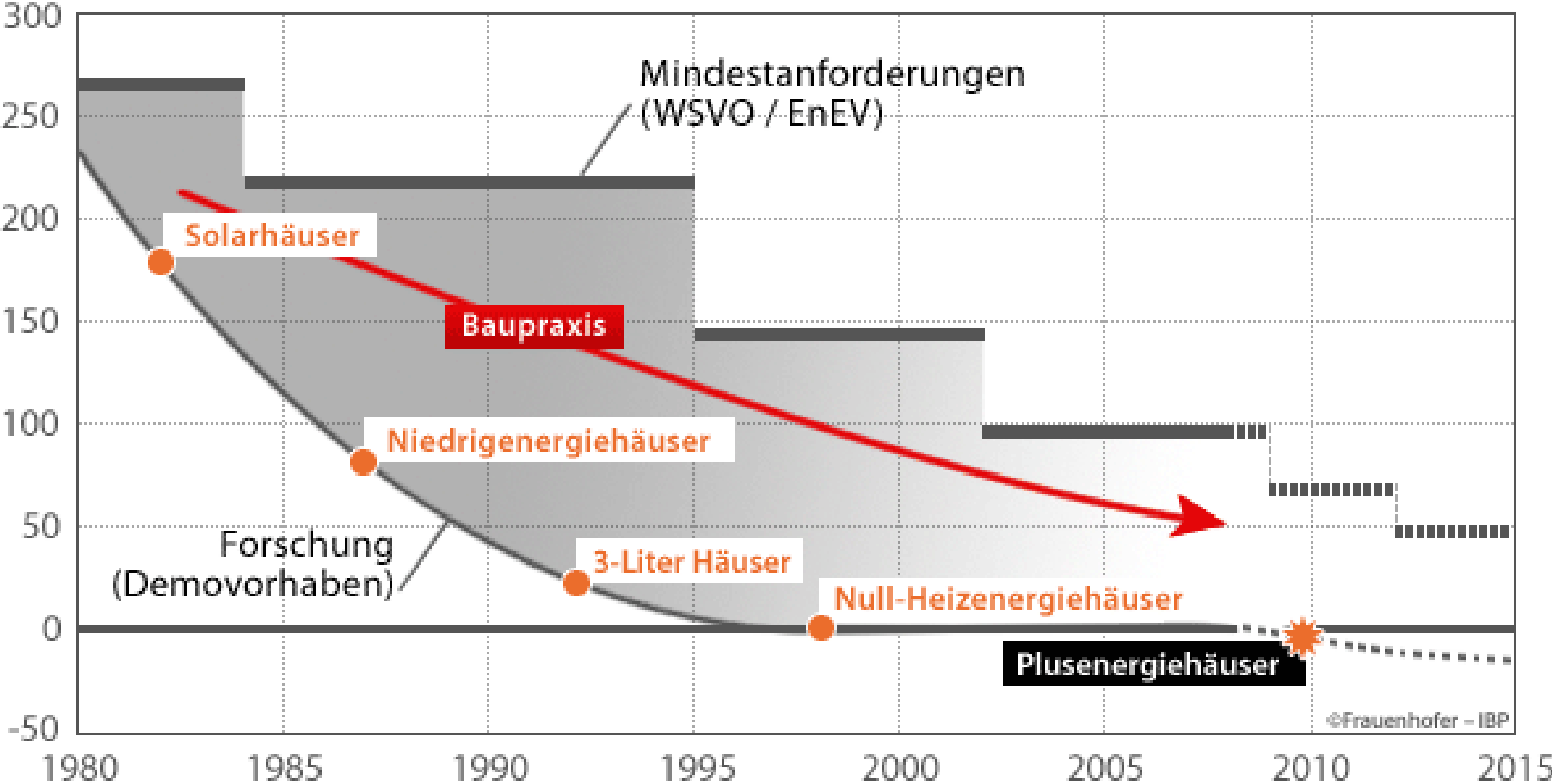
by **2050** we need to reduce our

CO2 emissions to **ZERO**



Entwicklung des energiesparenden Bauens

Primärenergiebedarf – Heizung [kWh/m²a]



IST - SOLL - Verlauf CO₂-Emissionen Stadt Stuttgart bis 2050

1.000 t CO₂

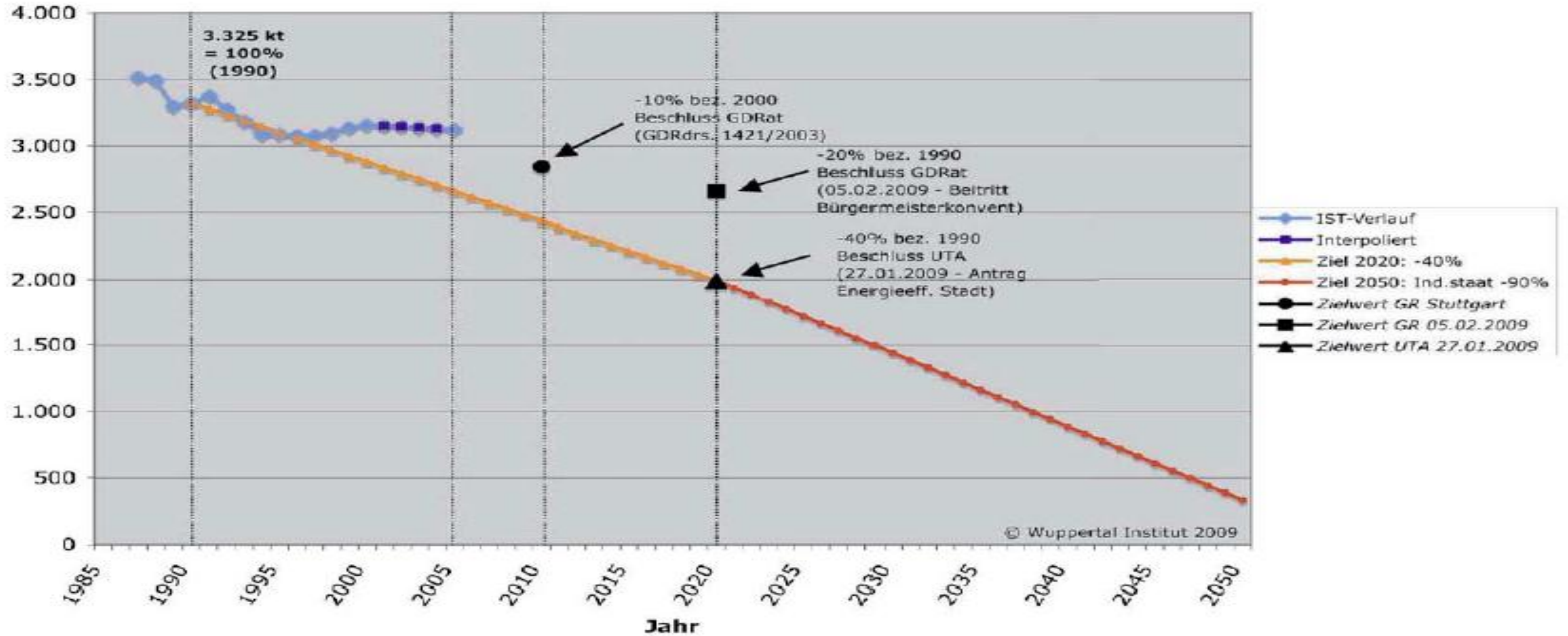
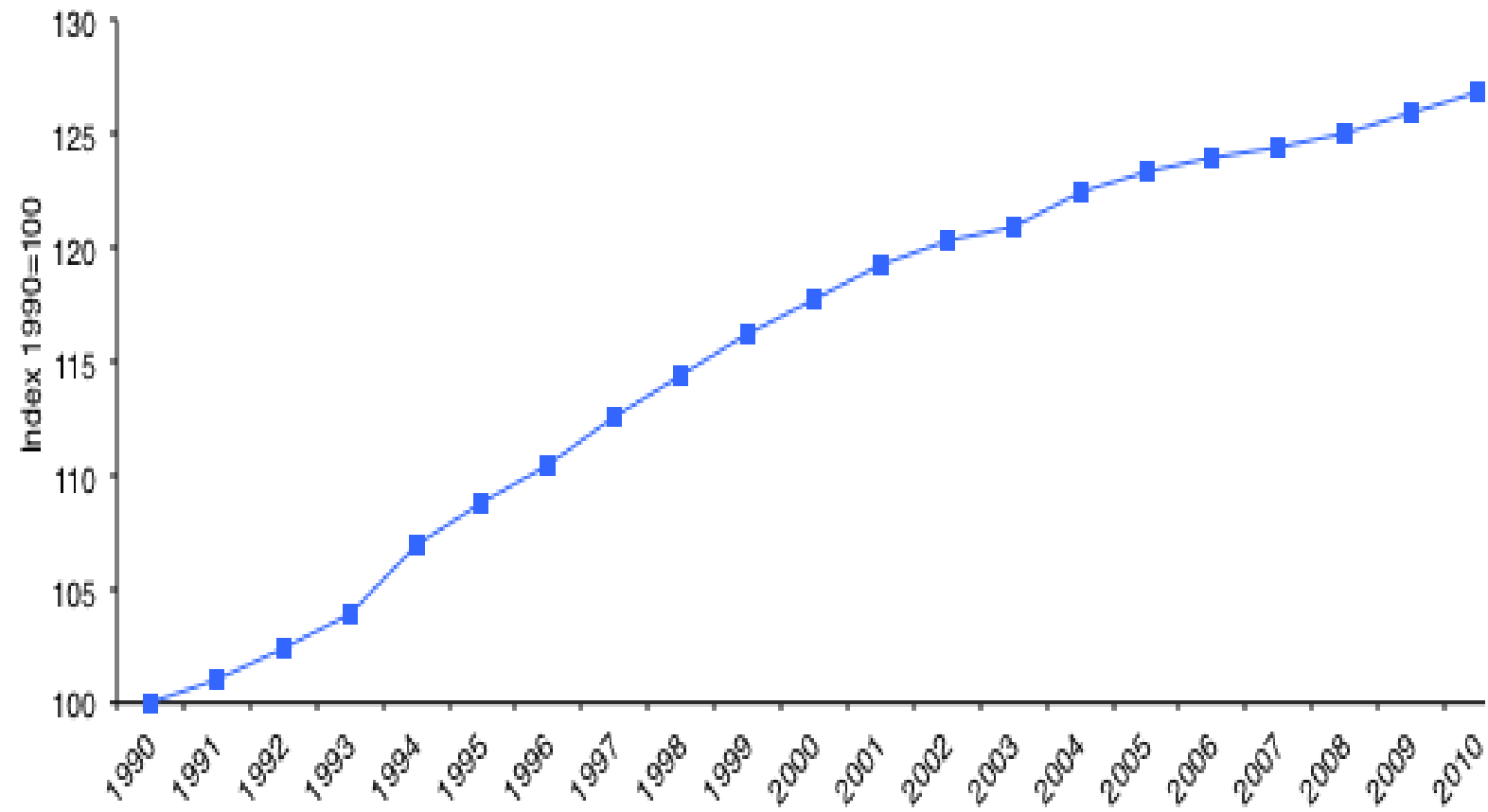
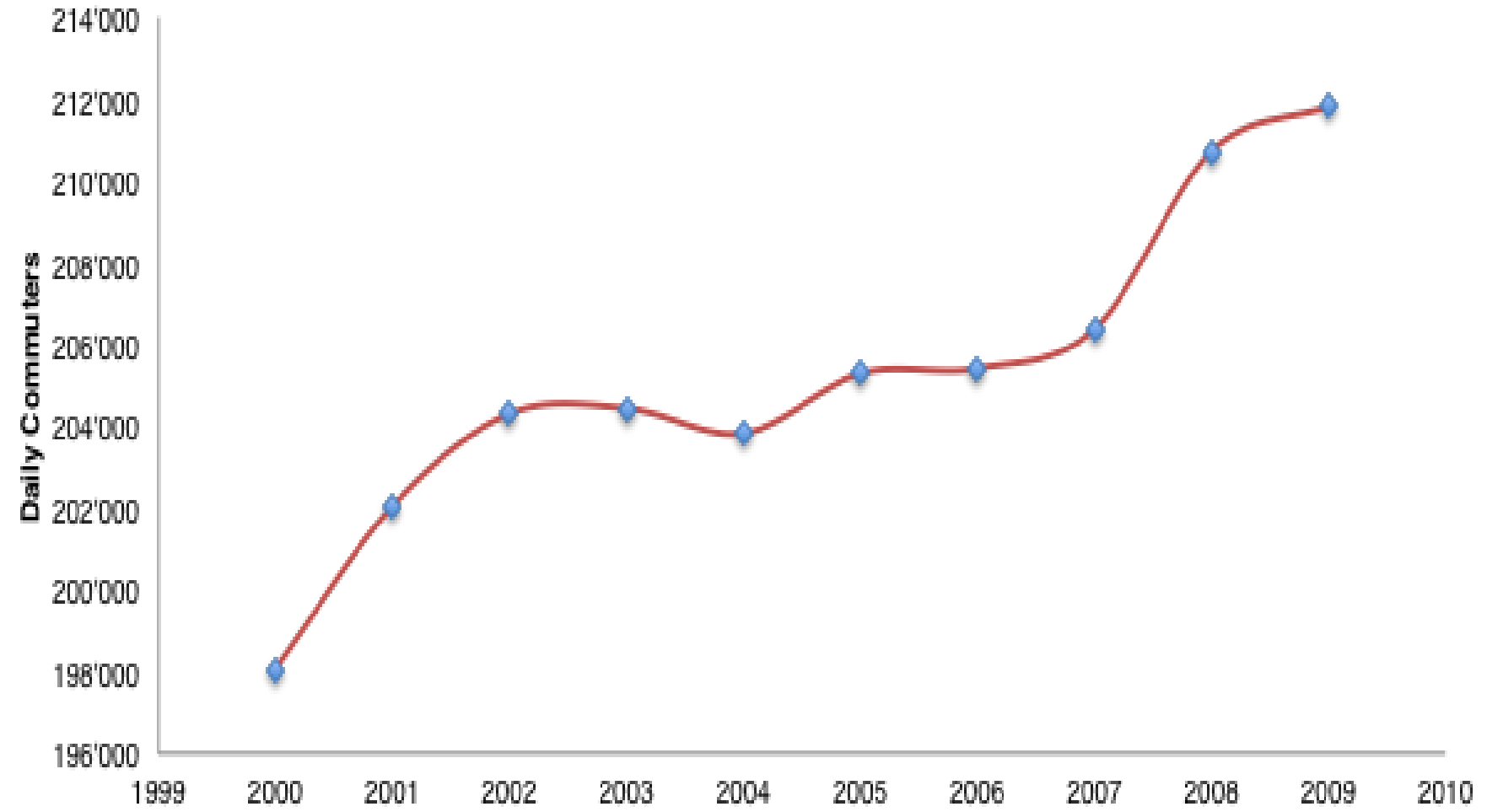


Abbildung 2: Verlauf der CO₂-Emissionen der Stadt Stuttgart bis 2005 (ab 2001 geschätzt) und Ziele bis 2020 (minus 40%) bzw. bis 2050 (minus 90%)

Living area per person



Daily commuters into Stuttgart

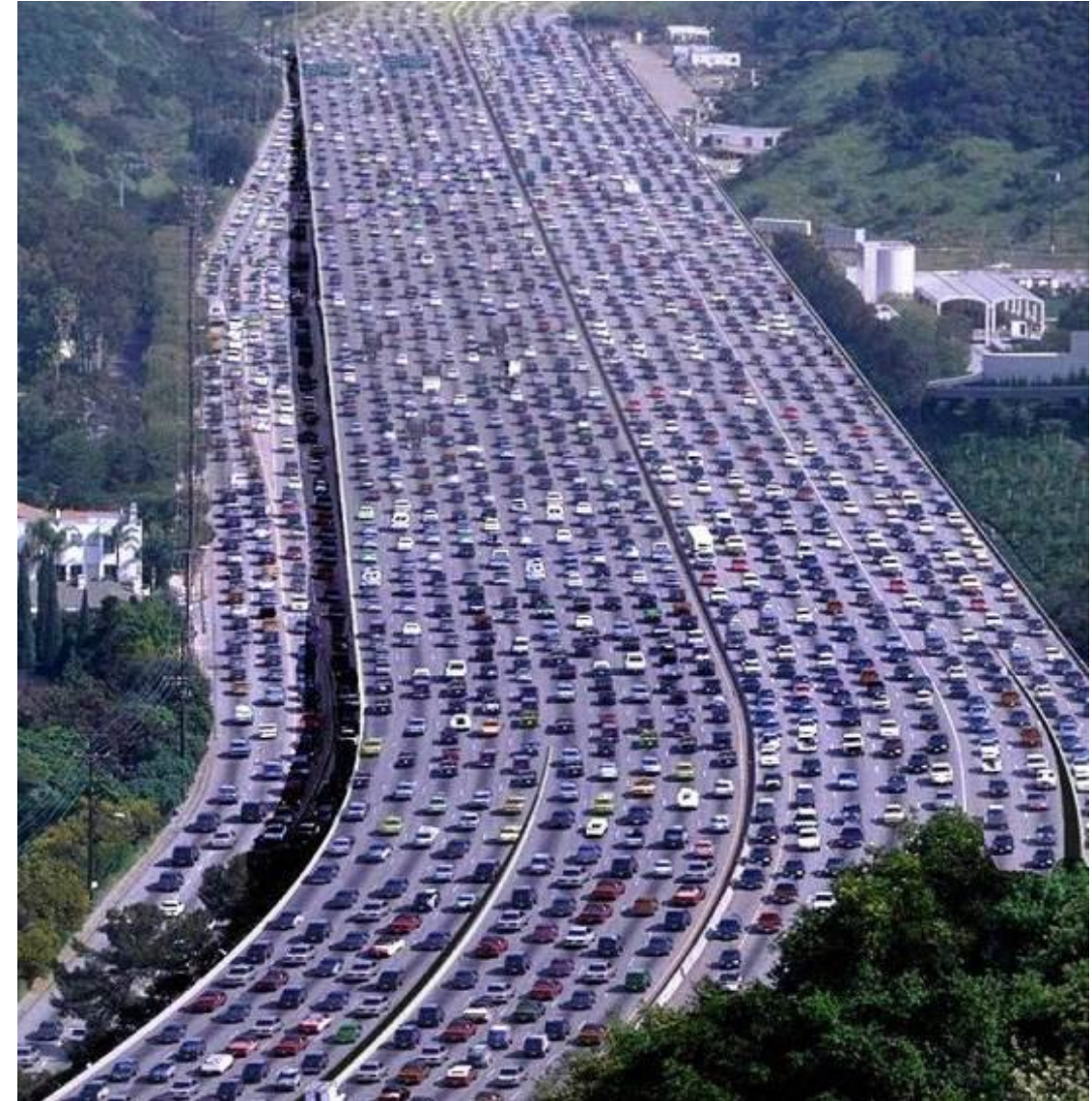


1936



0 auf 100 km/h: 83 Sekunden

2010



0 auf 100 km/h: 3,7 Sekunden



Herr Müller

- EnEV / 200 m² / 2 Personen
- C-Klasse / 15 km

Herr Mayer

- Passivhaus / 160 m² / 4 Personen
- M-Klasse / 30 km

Herr Schmitt

- Altbau / 130 m² / 1 Person
- Fahrrad / 2 km

kWh / Person und Jahr



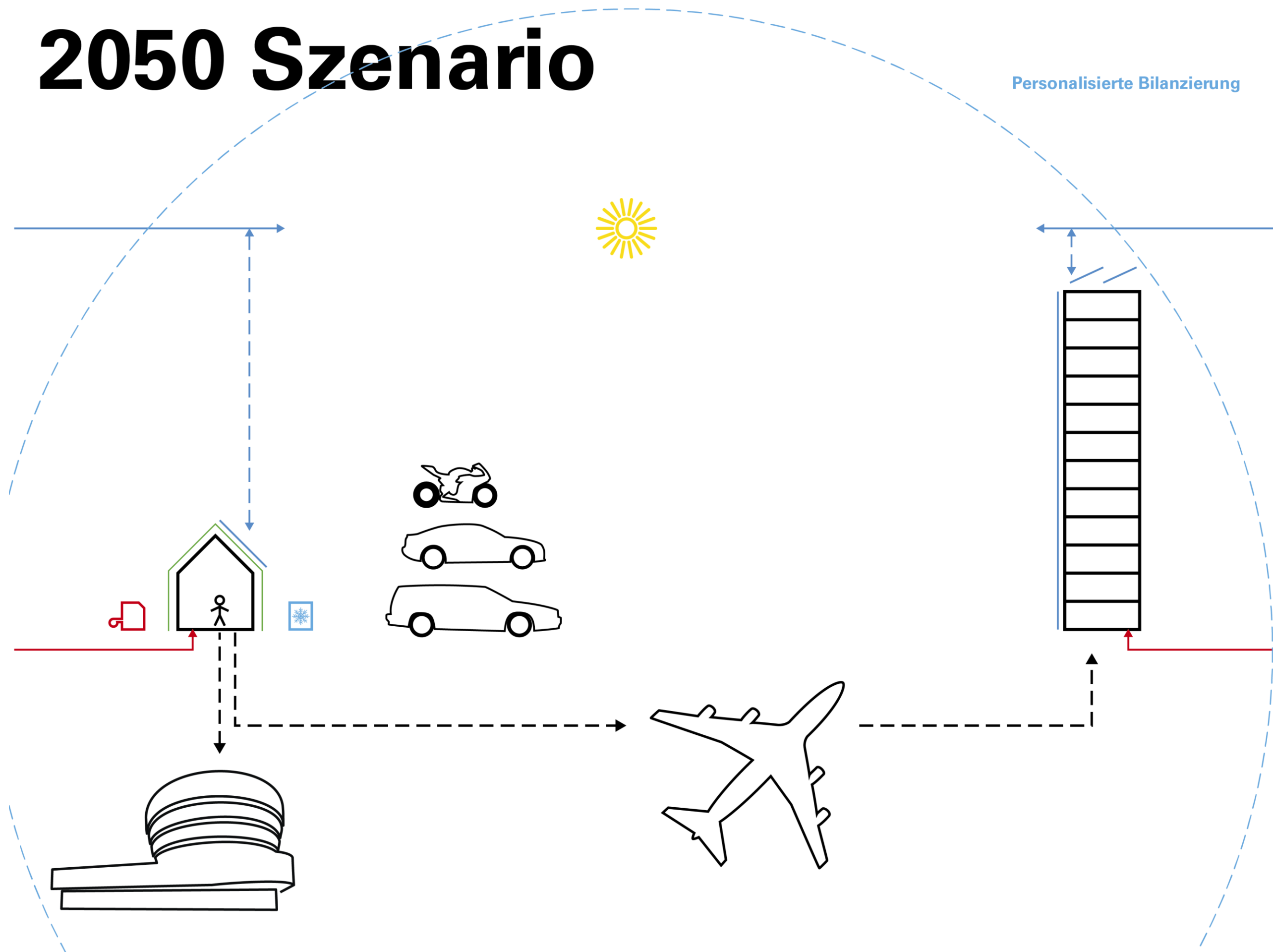
Müller

Mayer

Schmitt

2050 Szenario

Personalisierte Bilanzierung



Baukultur



NCT Heidelberg, Behnisch Architekten





zu verkaufen
0431-11 93 93 1
Kontakt: Immobilien
20.08.2011 11:47:11



LowTech

LowEx

Dezentral



Westarkade - Frankfurt

architect: **Sauerbruch Hutton, Berlin** client: **KfW Bankengruppe**

photo: Wicona

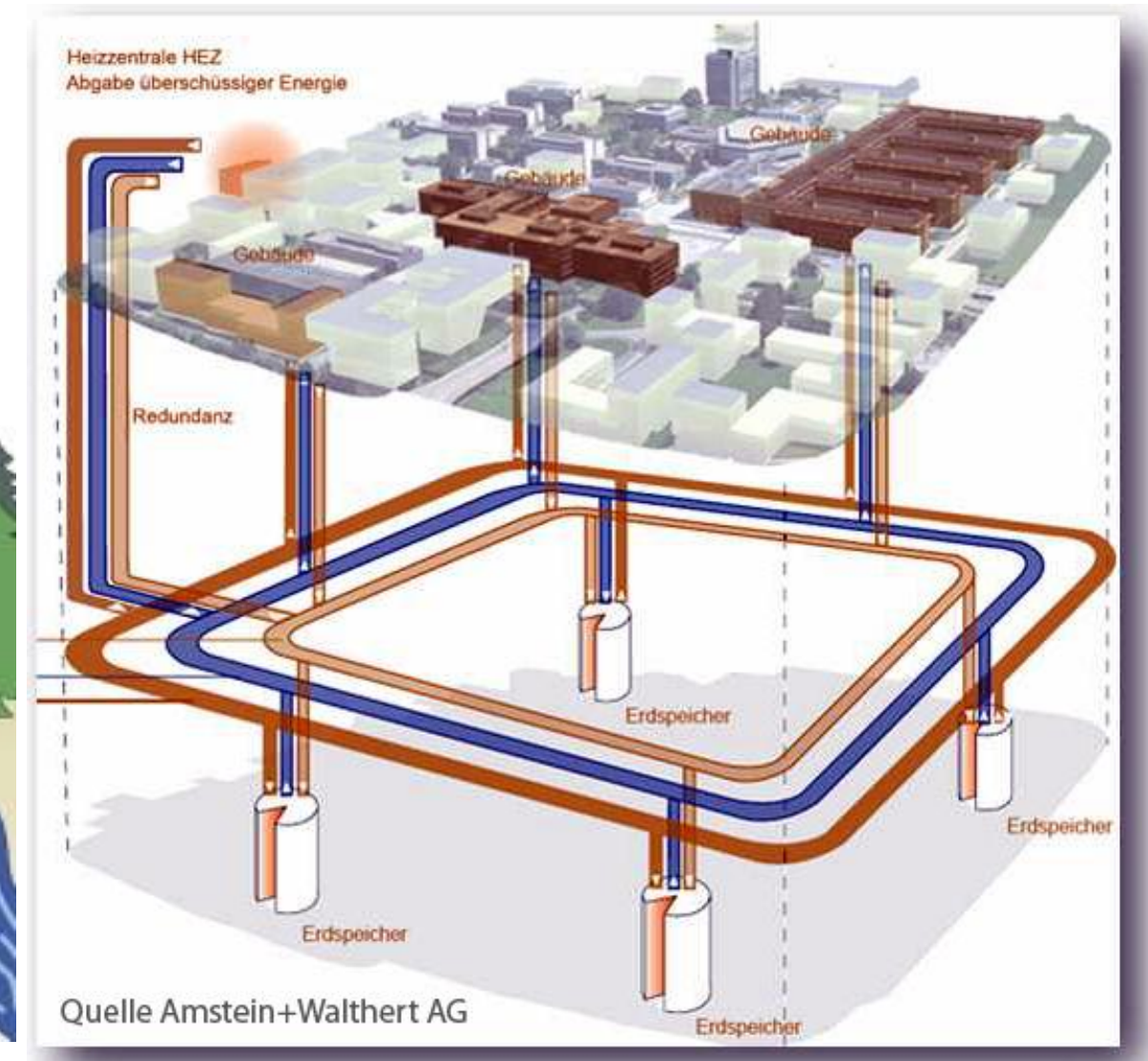
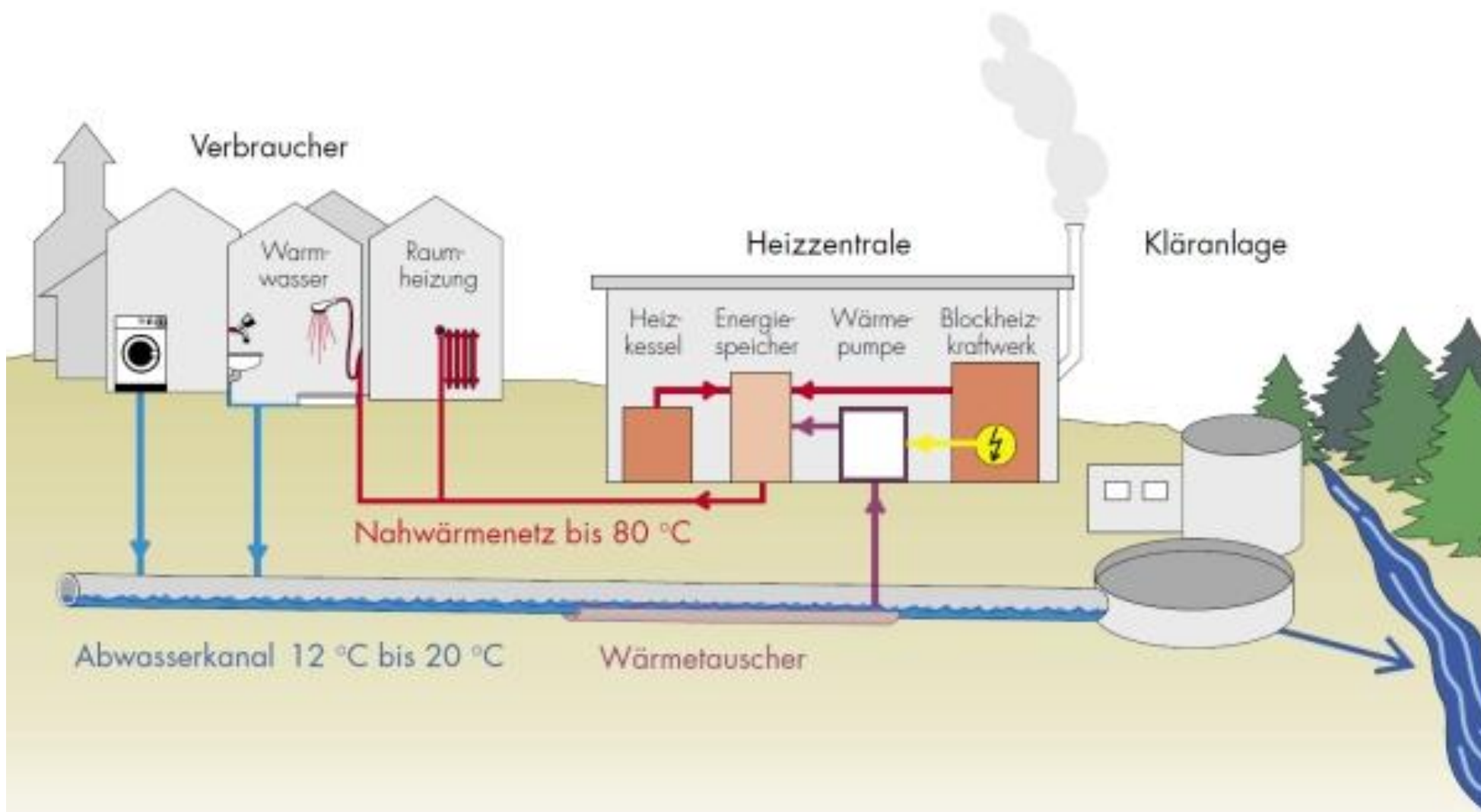


French School - Damascus

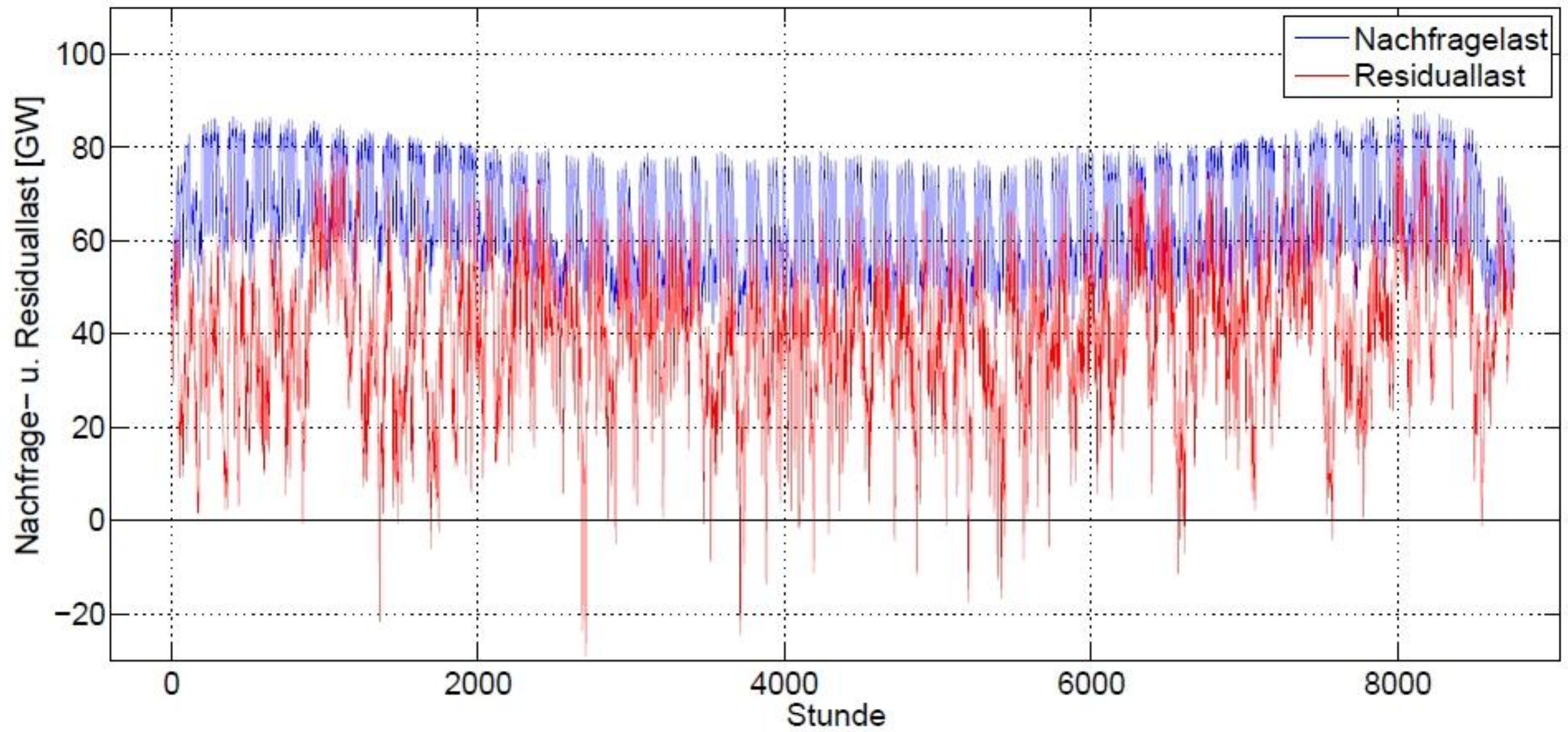
architect: **Atelier Lion, Paris**



photo: Adria Goula



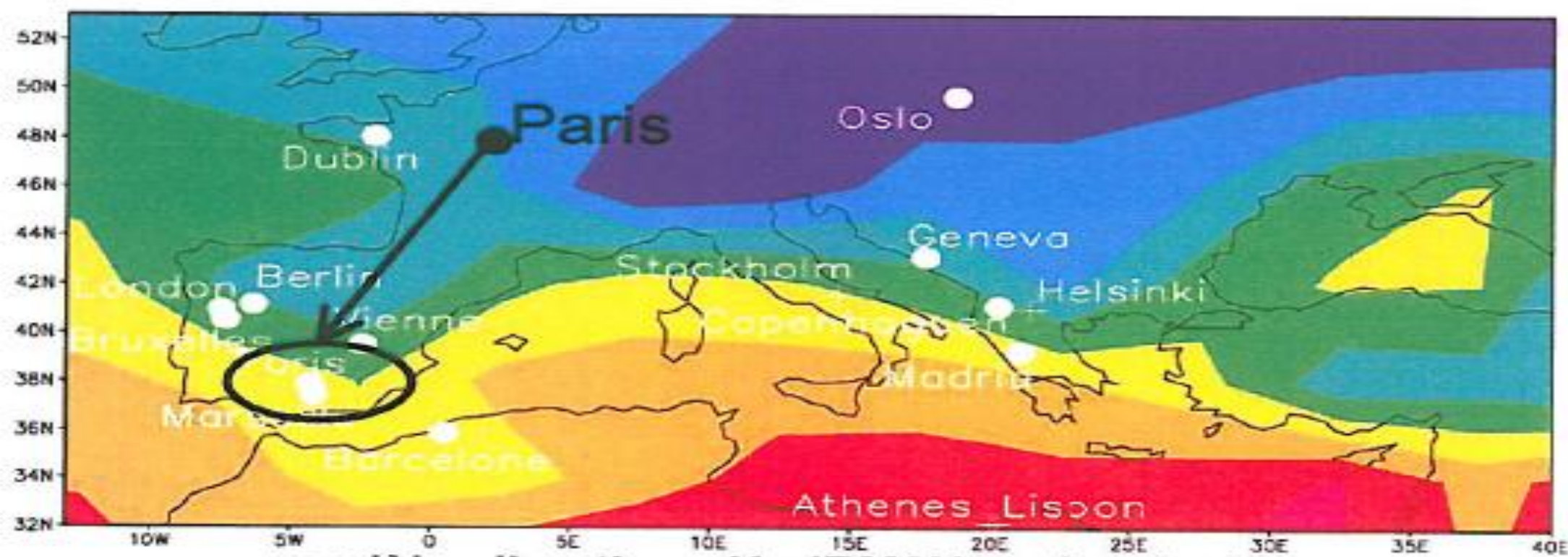
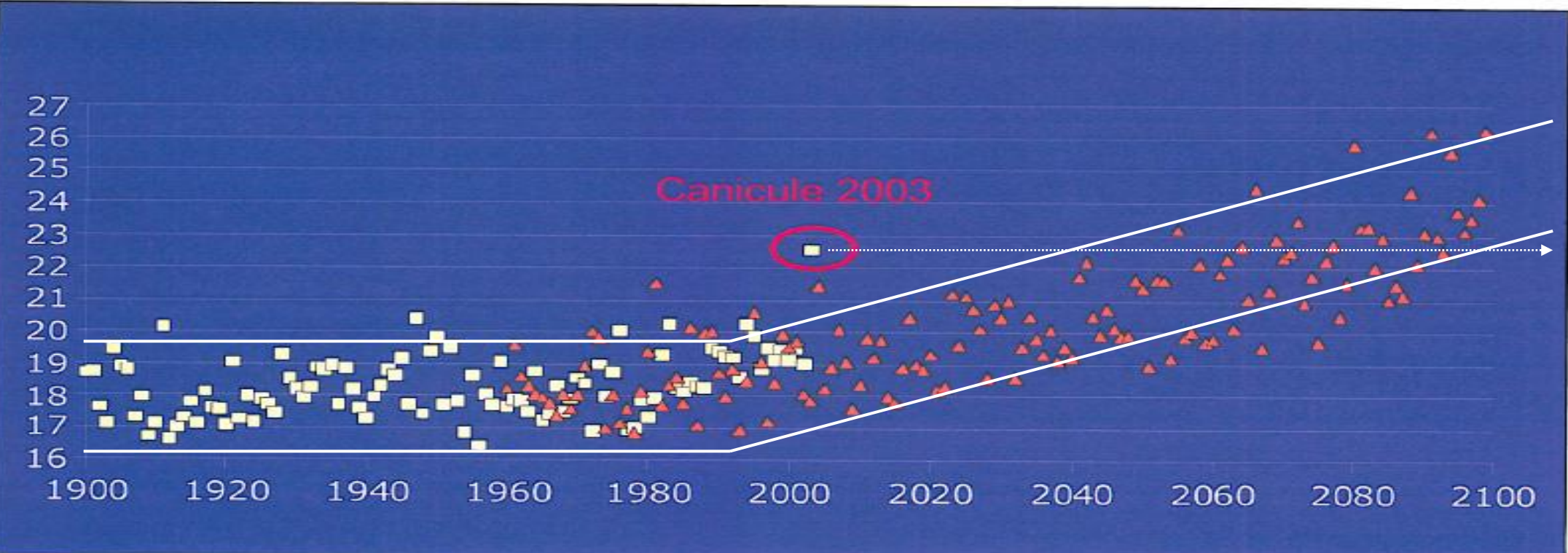
Quelle: Institut Energie in
 Infrastrukturanlagen
 Bundesverband WärmePumpe
 (BWP) e.V.



(b) Jahr 2030, Ausbaupfad 50 %



Stadtklima



modèle climatique HadRM3H, scénario A2

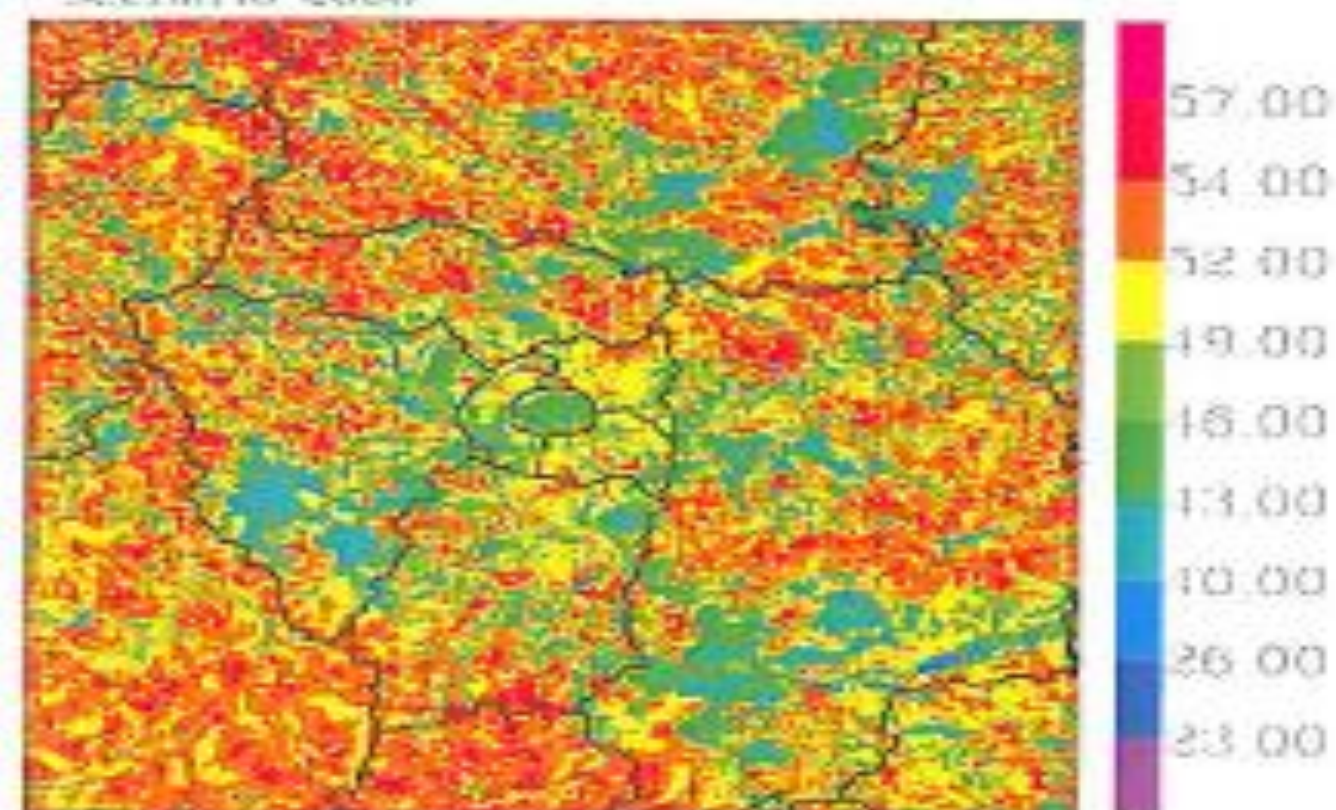


Mean annual temperature, present climate

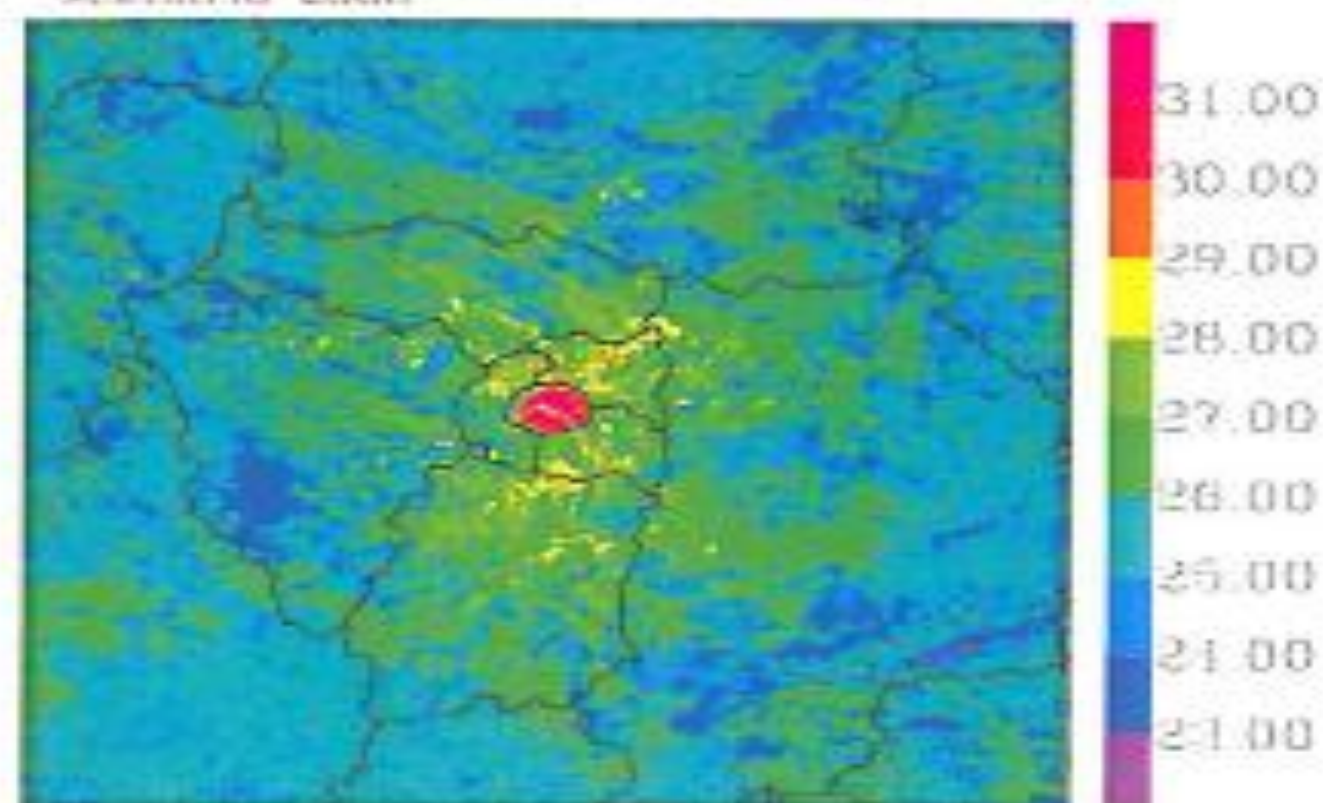
Source: Hallegatte et al., 2006



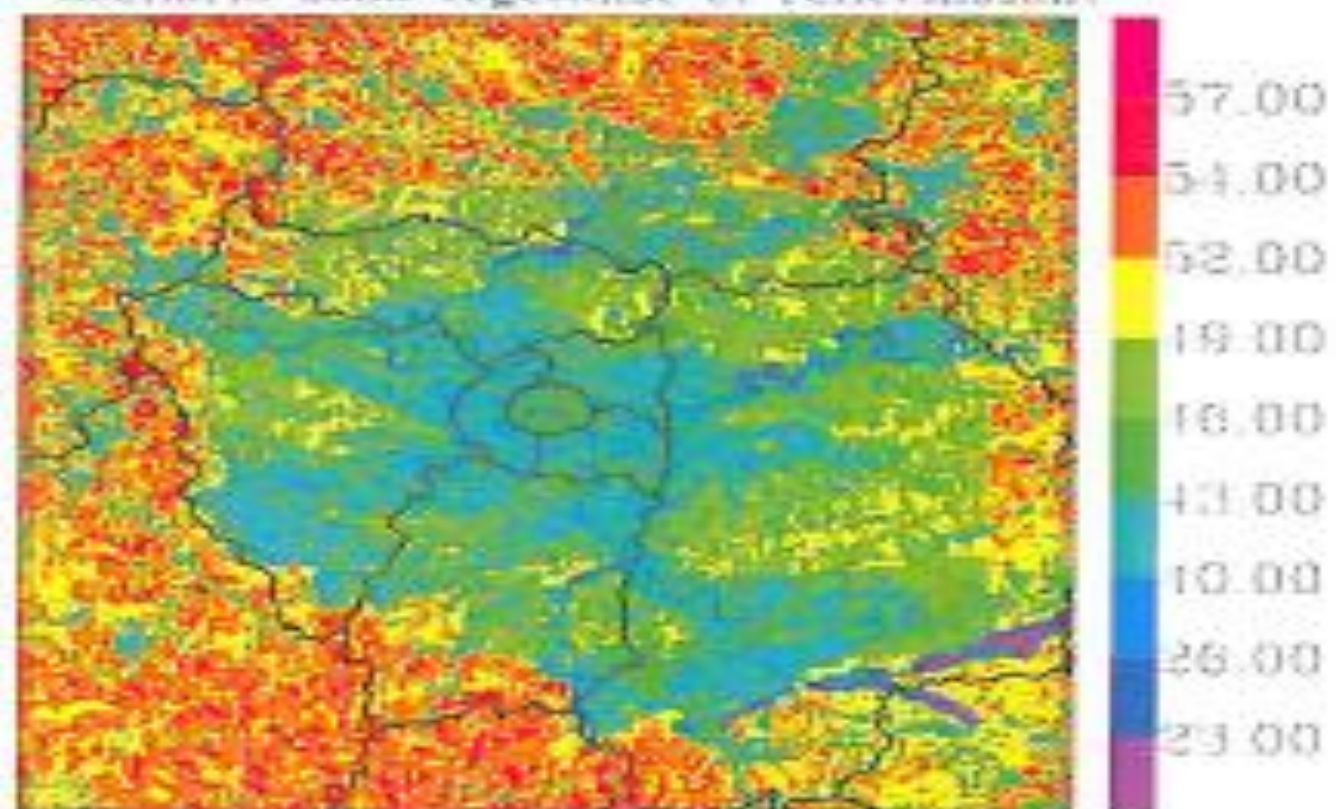
Temp. de surface ($\bar{14h}$)
scénario 2008



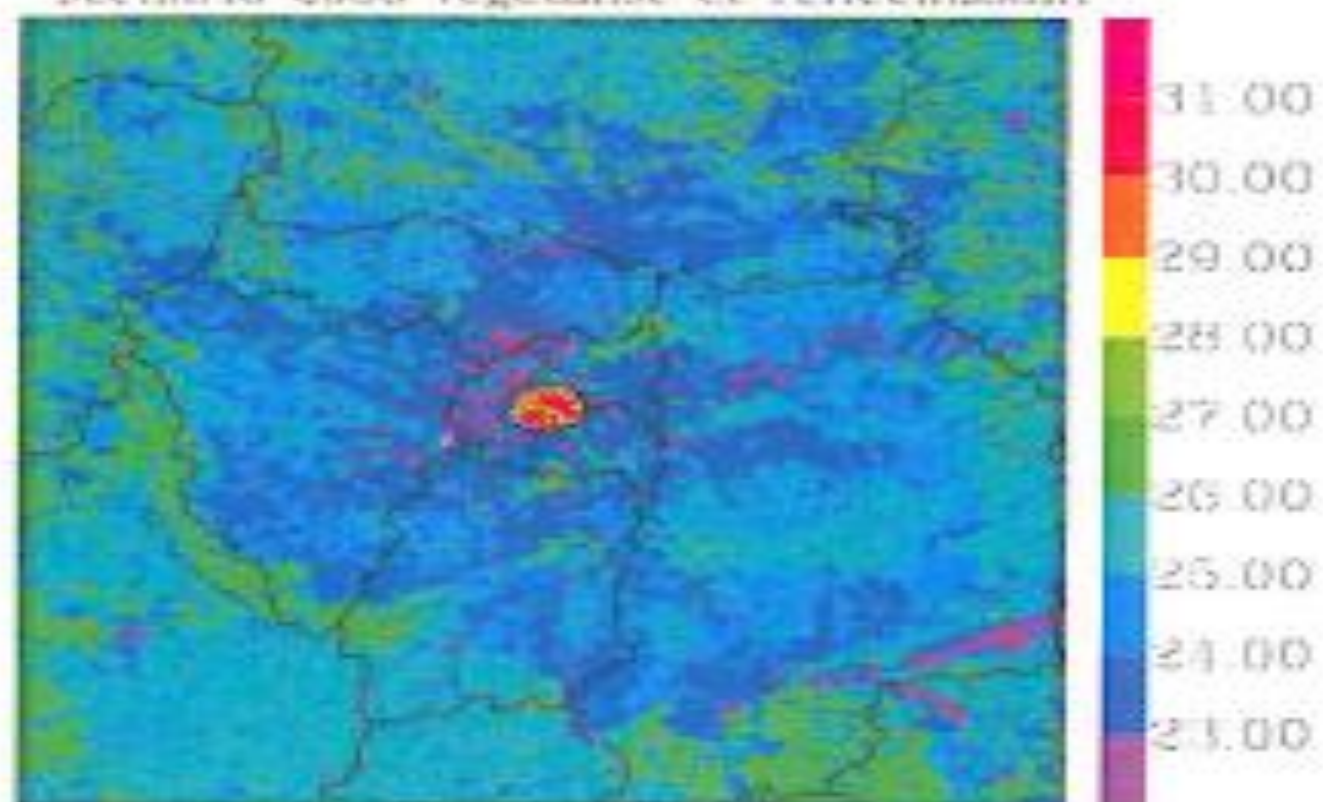
Temp. de surface ($\bar{\text{nuit}}$)
scénario 2008



Temp. de surface ($\bar{14h}$)
scénario 2030 végétalisé et réfléchissant



Temp. de surface ($\bar{\text{nuit}}$)
scénario 2030 végétalisé et réfléchissant



Diff. de Temp. de surface ($\bar{14h}$)
2030 veg. et ref. - 2008

Diff. de Temp. de surface ($\bar{\text{nuit}}$)
2030 veg. et ref. - 2008

System

STADT

Zentrale Parameter eines Stadtmodells

