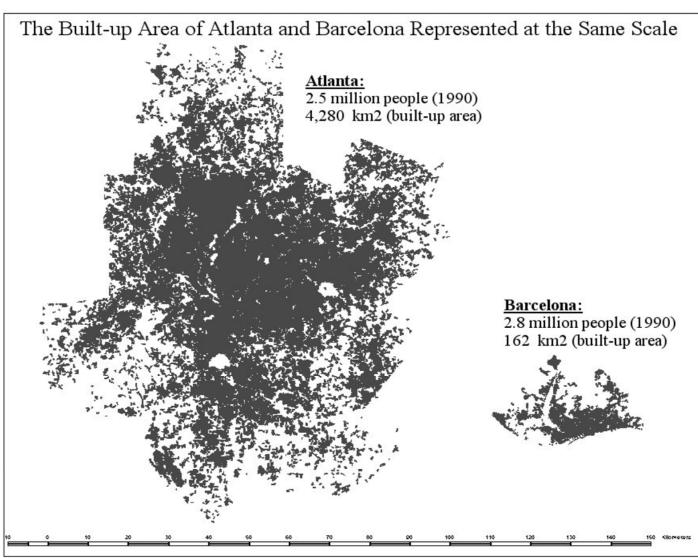
Urban forms influence GHG emissions



Lower emissions in Barcelona because of:

1 - Shorter travel distance;

2 – Easier use of public transport:

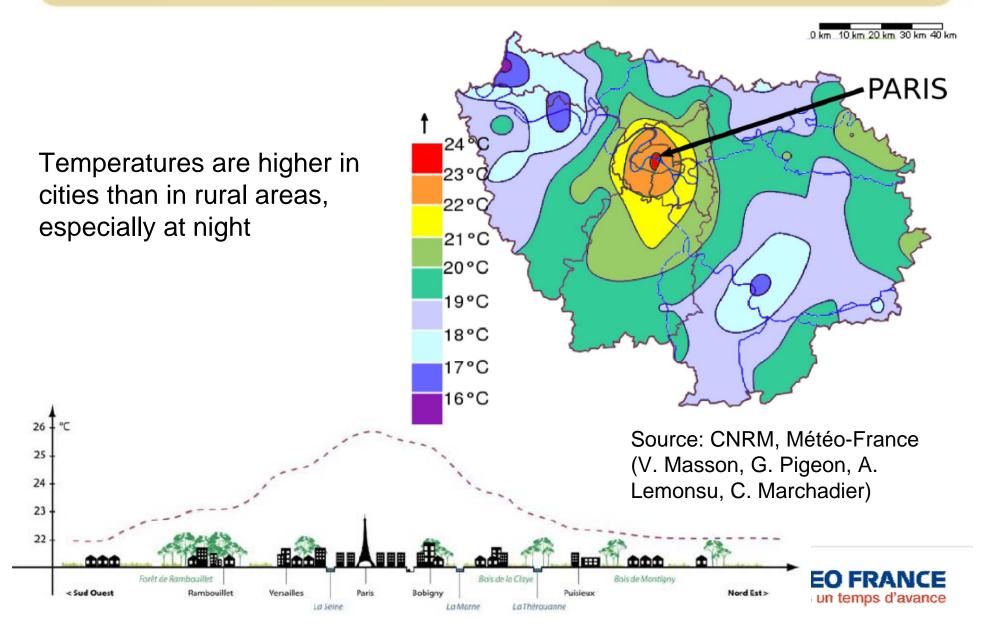
Barcelona has 99 km of metro line.

To provide the same accessibility to metro in Atlanta, 3400 km would be necessary.

Source: Alain Bertaud

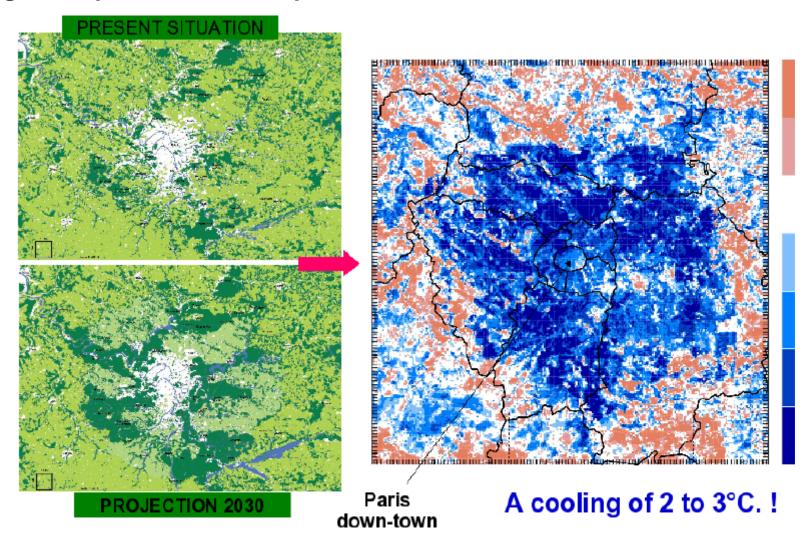


The urban heat island was large in Paris during the 2003 heat wave...



... but we can do something about it

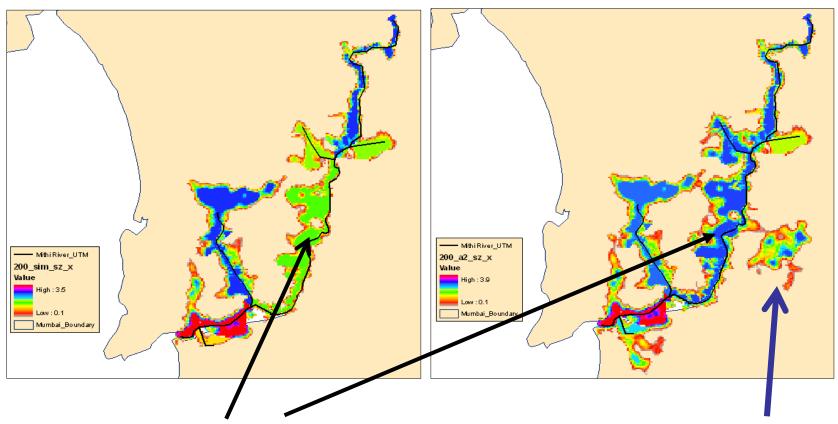
Assuming the implementation of specific measures to limit the urban heat island.



Source: CNRM, Météo-France (V. Masson, G. Pigeon, A. Lemonsu, C. Marchadier)

Flood footprints will change, so urban plans need to change too

200-yr flood maps in Mumbai for present day (left) and 2080s (right)





Extended flood footprint





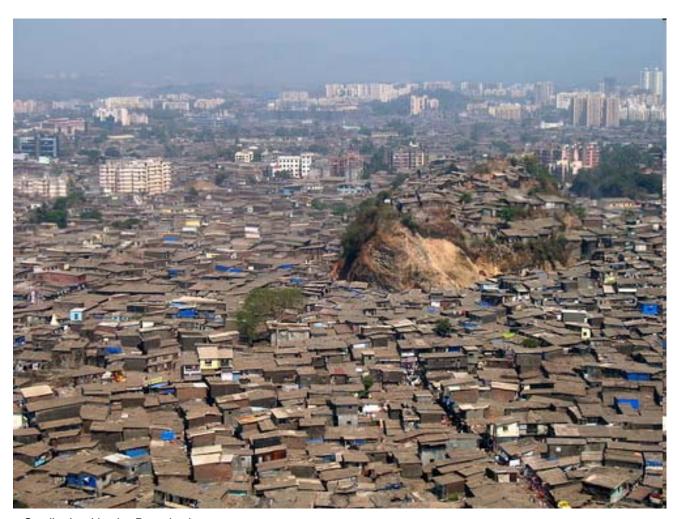








Which urban plan?



Credit: Joe Harder Buxtehude

- -Mumbai has about 18 million inhabitants
- -50% of the Mumbai population lives in slum and work in the informal sector
- Dharavi is the largest slum in the World

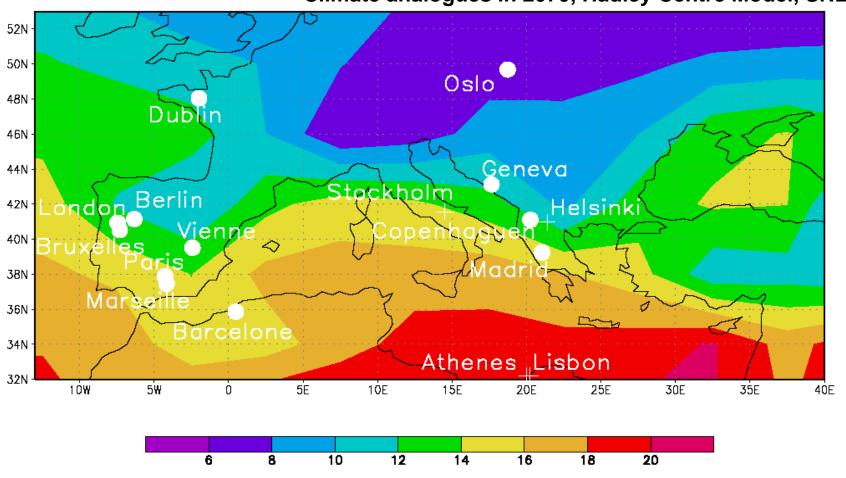


4. We have to cope with an unavoidable uncertainty on future emission targets and future local climates



One possible climate...

Climate analogues in 2070, Hadley Centre Model, SRES A2



After Hallegatte, Ambrosi, Hourcade (2007)



... and another...

Climate analogues in 2070, Météo-France Model, SRES A2

