Research Institute Built Environment of Tomorrow

Hoogbouw
De cijfers

Ronald Rovers,

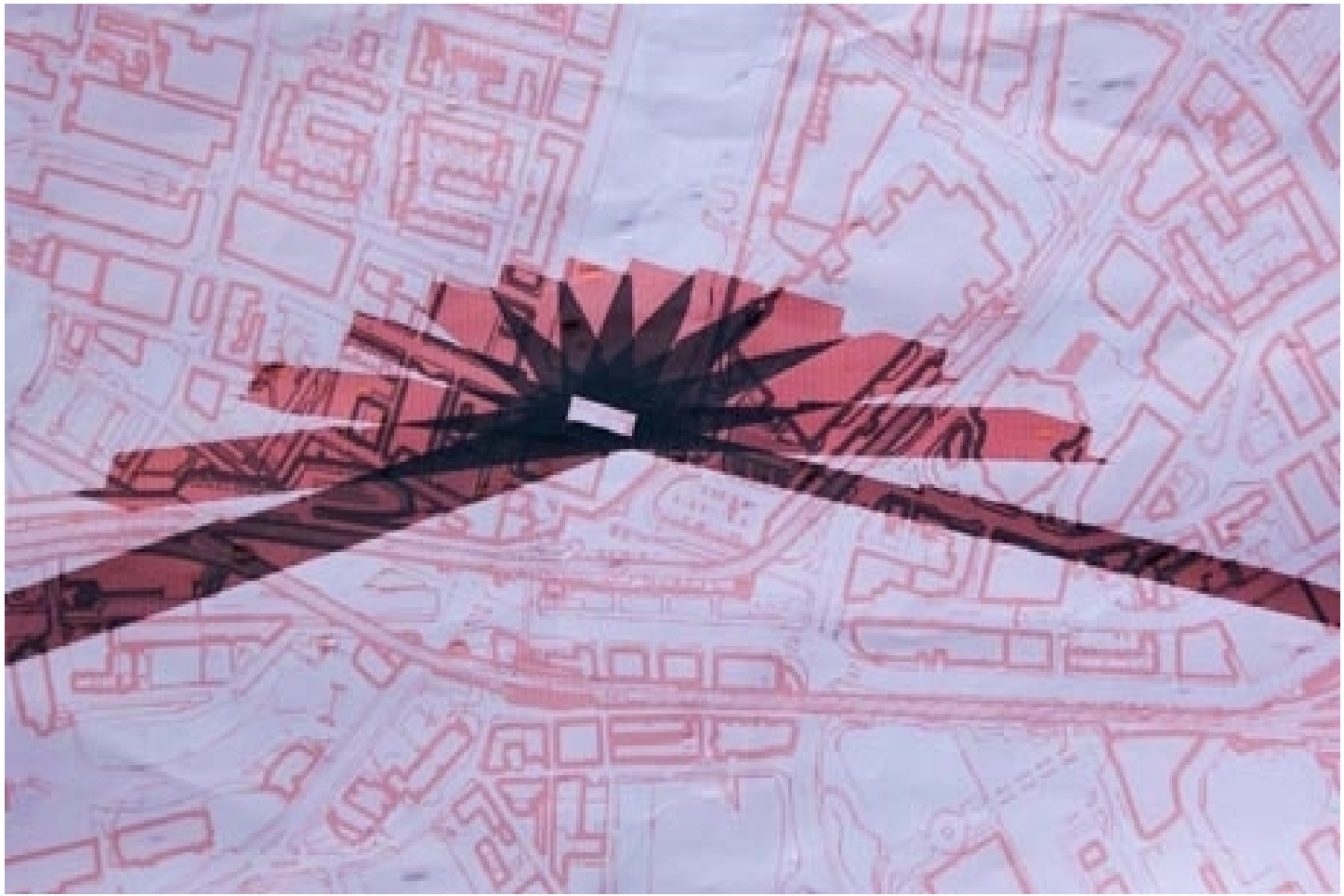
Lectures, workshops, masterclasses, research.

SBScentre/RiBuilT research, owner
Guest Professor Uni-Hasselt, was Fellow TUE fac Built Environment

1. Doodlopende straten / anonieme straat



1b doodlopende straten;
wat te doen bij bij pandemie of stroomuitval ?



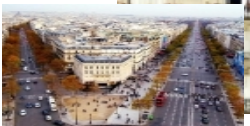


puntlasten in verkeer en infra: afgewenteld op gemeenschap



brisbane

New York :Metro stations en parkeer garages tot 6 lagen ondergronds



2005 (Taipei 101)

materials:

>1850 kg/m2

2005 (Malmo)

materials:

3400 kg/m2



2000 (nat. Ref)

materials:

980 kg/m2



Wood house ijburg 5 levels

materials:

600 kg/m2

Operationele energie : gebruiks energie

Boven 6- 7 verdiepeingen loopt het snel op

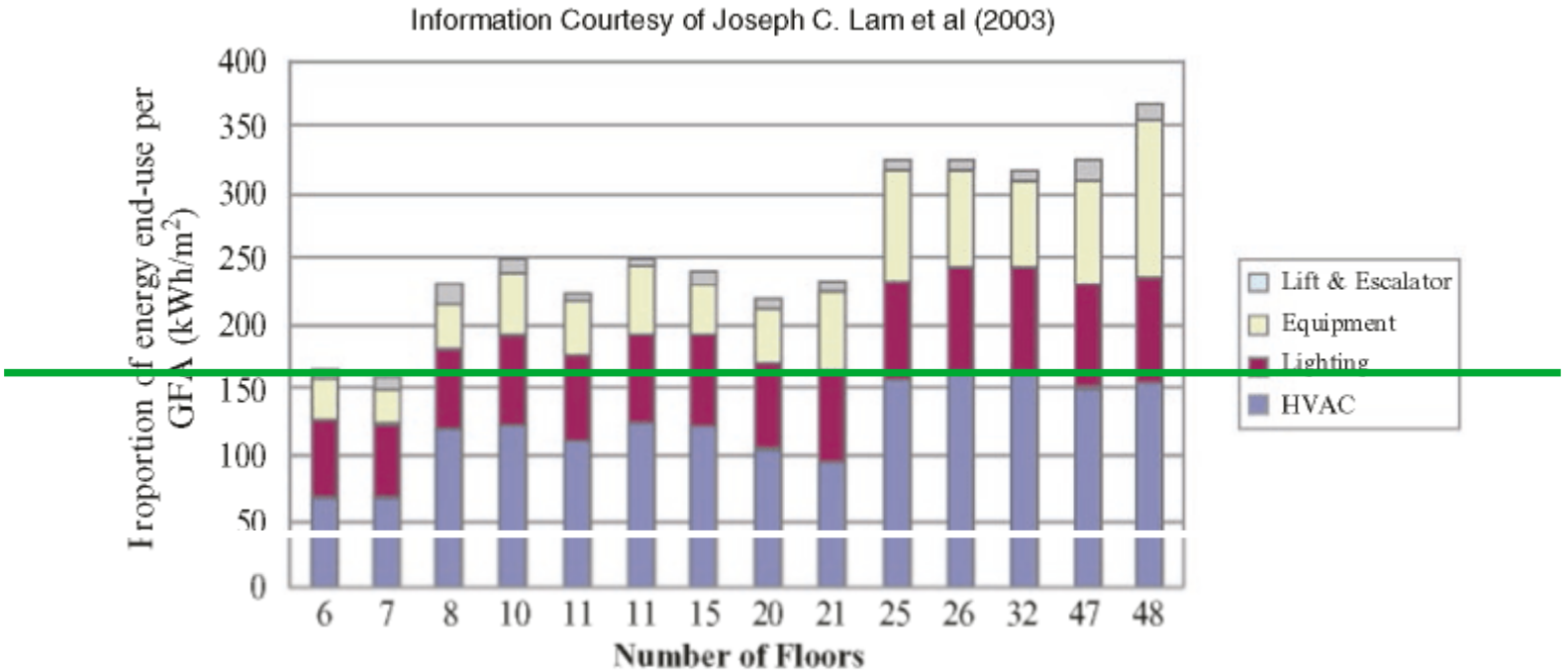


Fig. 9.17 Embodied energy of five office buildings in Melbourne, Australia. *Source*: (htt
emerladinsight.com/doi/pdfplus/10.1108/02632770110387797)

Embodied Energy: produktie energie

Boven 6-7 verdiepingen loopt het snel op



Fig. 9.17 Embodied energy of five office buildings in Melbourne, Australia. *Source*: (htt
emerladinsight.com/doi/pdfplus/10.1108/02632770110387797)

Energie neutraal niet mogelijk

Arup: tall buildings can generate only 10% of their own energy demand:

Groen op gebouwen is zinloos: het verhoogt de materiaalbelasting en verkleint energie vermogen:

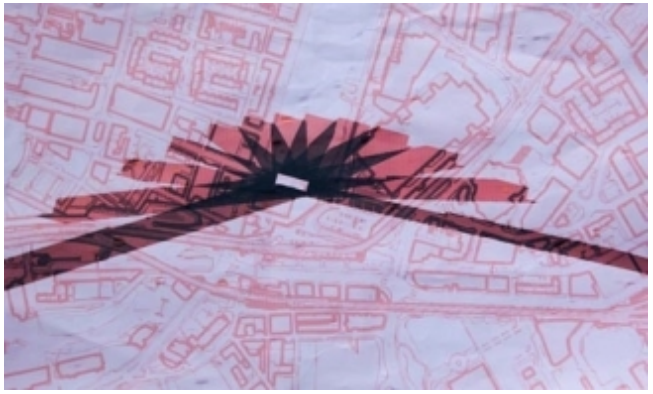
“there is relatively little roof available to install solar panels on. A suitable alternative has been realized by placing additional remote solar panels within a 10- kilometer radius







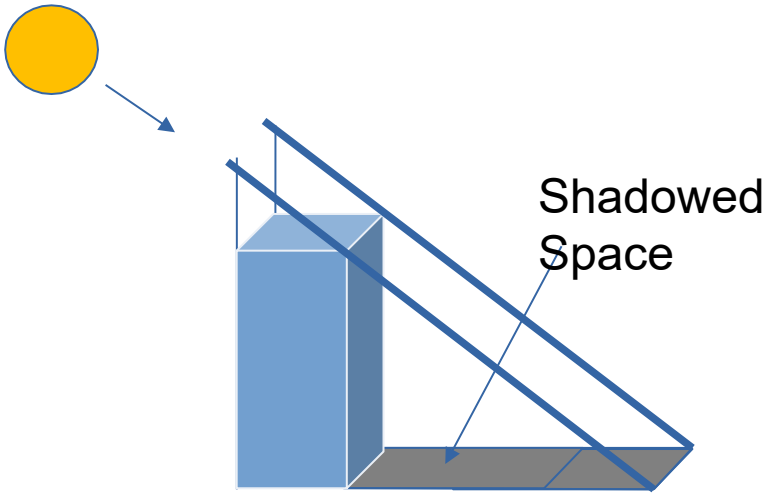
Greenwash: enorme extra materiaal impact balkons



Zon blokkering

Ontneemt buren de mogelijkheid energieneutraal te worden





Dichtheid:

Beter gelijkmatig

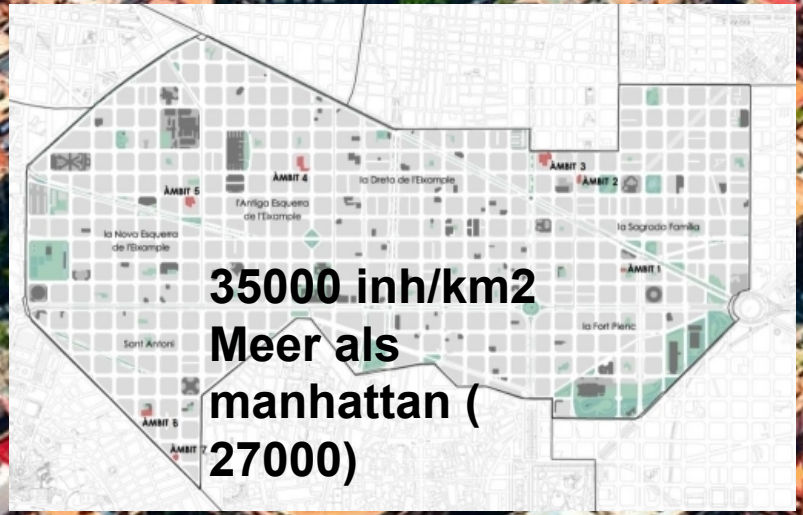




Parijs binnen peripherique: :
20.000 inw/km2

De hele wereldbevolking,
kan wonen als in parijs,
in 2/3 van Frankrijk.





35000 inh/km2
Meer als manhattan (27000)

Dichtheid is geen criterium voor hoogbouw.

:

Utrecht ~4000 inwoners /km2





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Dank voor uw aandacht



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