



## The Ontario Environment and Cleantech Business and Policy Forum

May 4, 2015

# *International Business Opportunities*

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Principal / Co-founder



Challenge: cost of energy ( \$2000 per month)

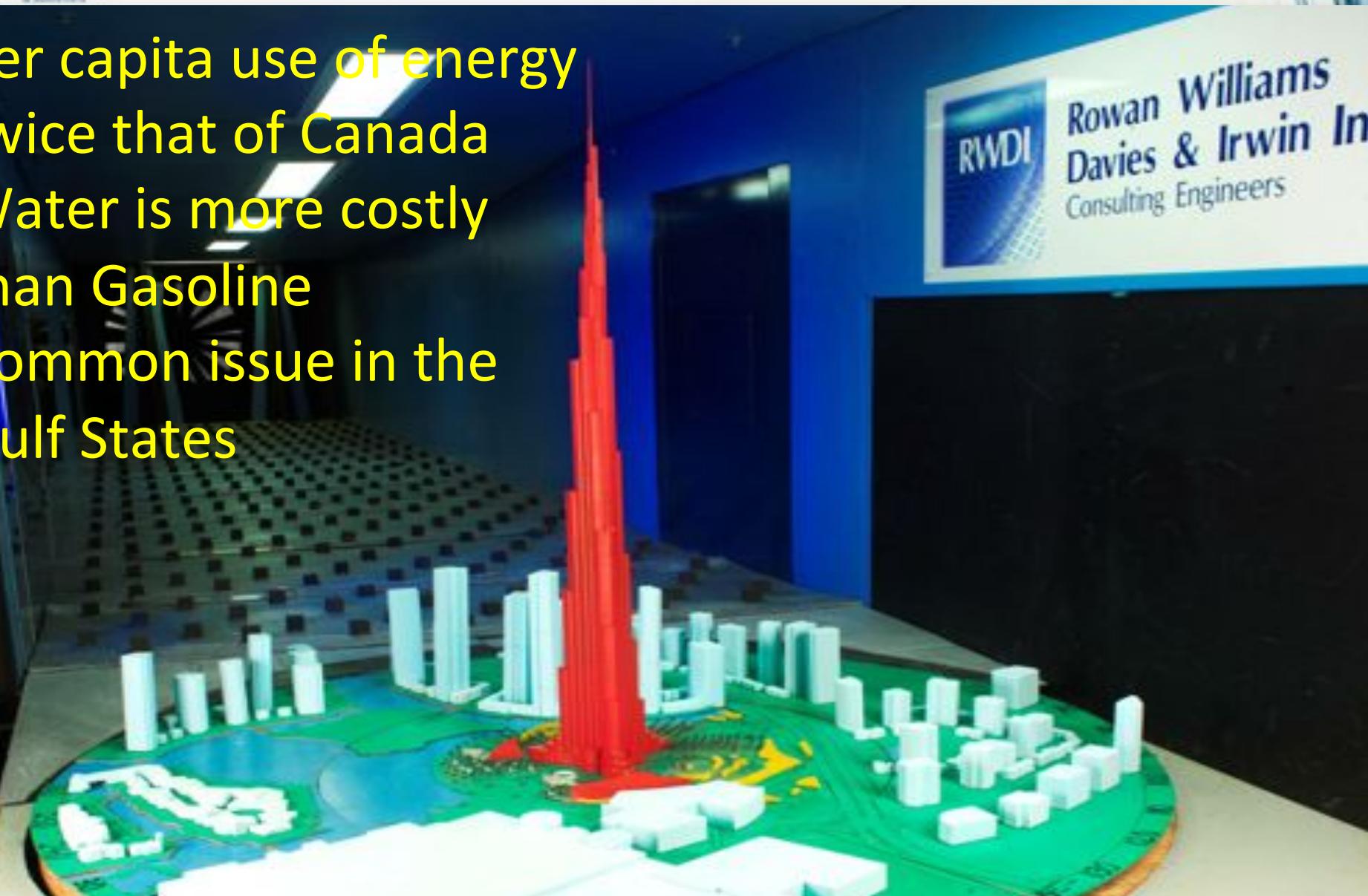
Solution: Education / informed purchasers

Strengthen Green Building Councils

LEED certifications / Regulations

Infrastructure

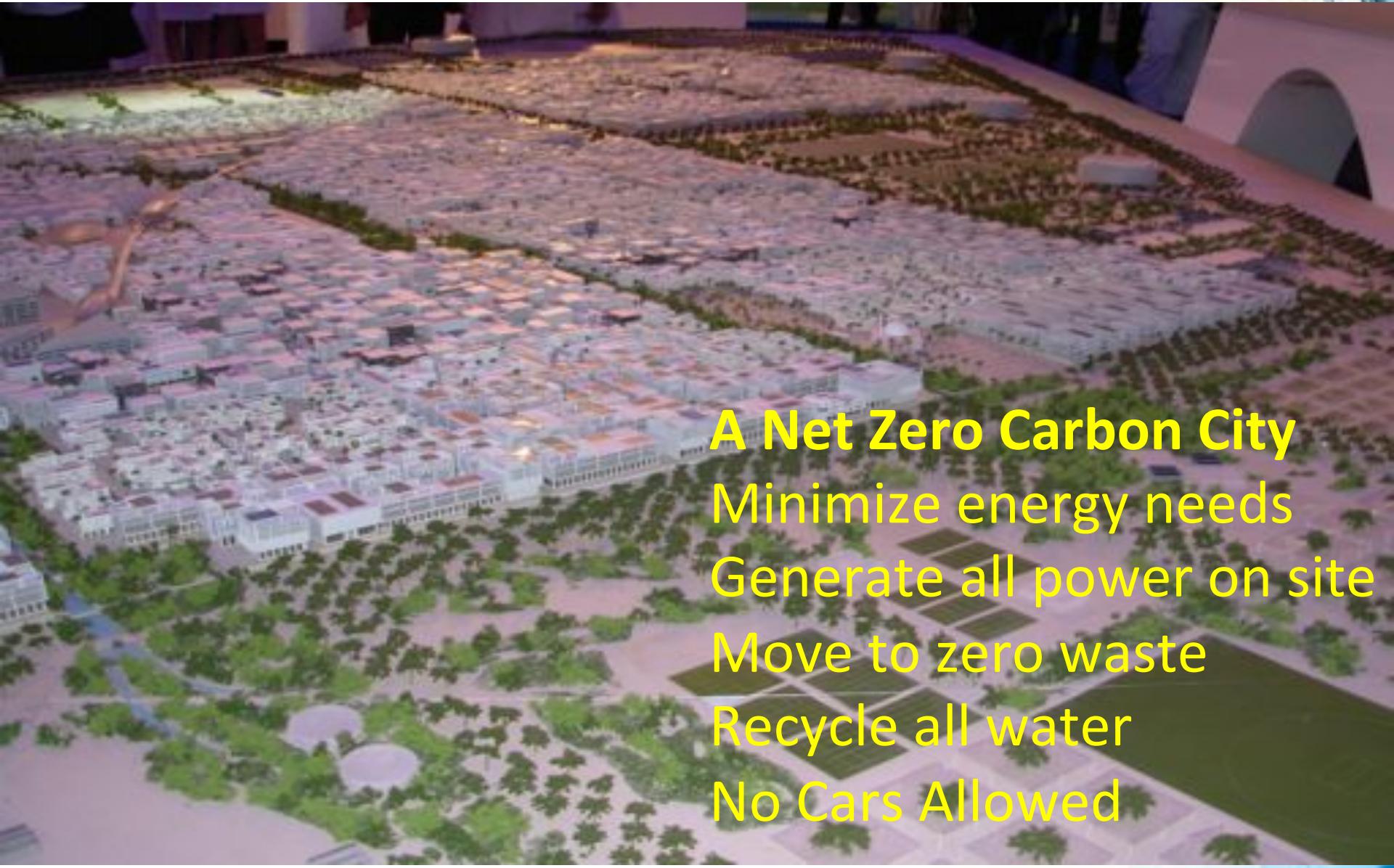
Per capita use of energy  
twice that of Canada  
Water is more costly  
than Gasoline  
Common issue in the  
Gulf States



## A Net Zero Energy Skyscraper

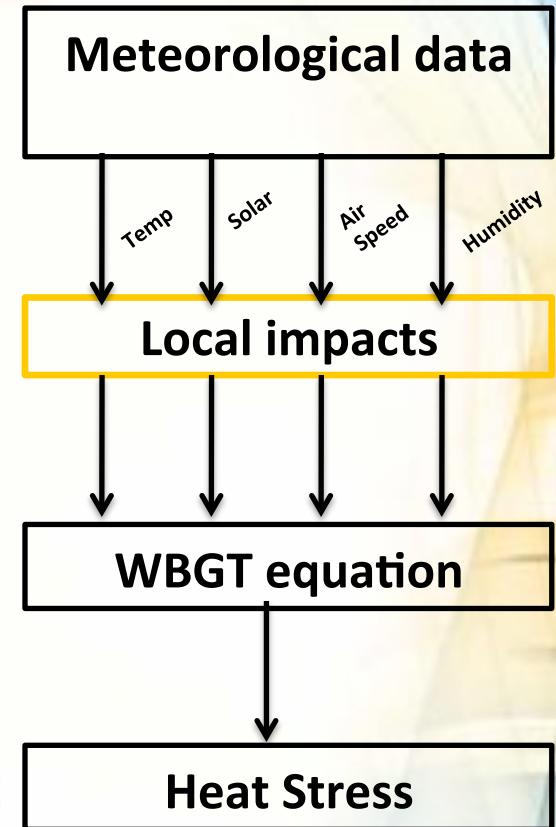
Opportunity: If it can be done in China why not in the rest of the developed world.





**A Net Zero Carbon City**  
Minimize energy needs  
Generate all power on site  
Move to zero waste  
Recycle all water  
No Cars Allowed

# Thermal Comfort and the Human Scale

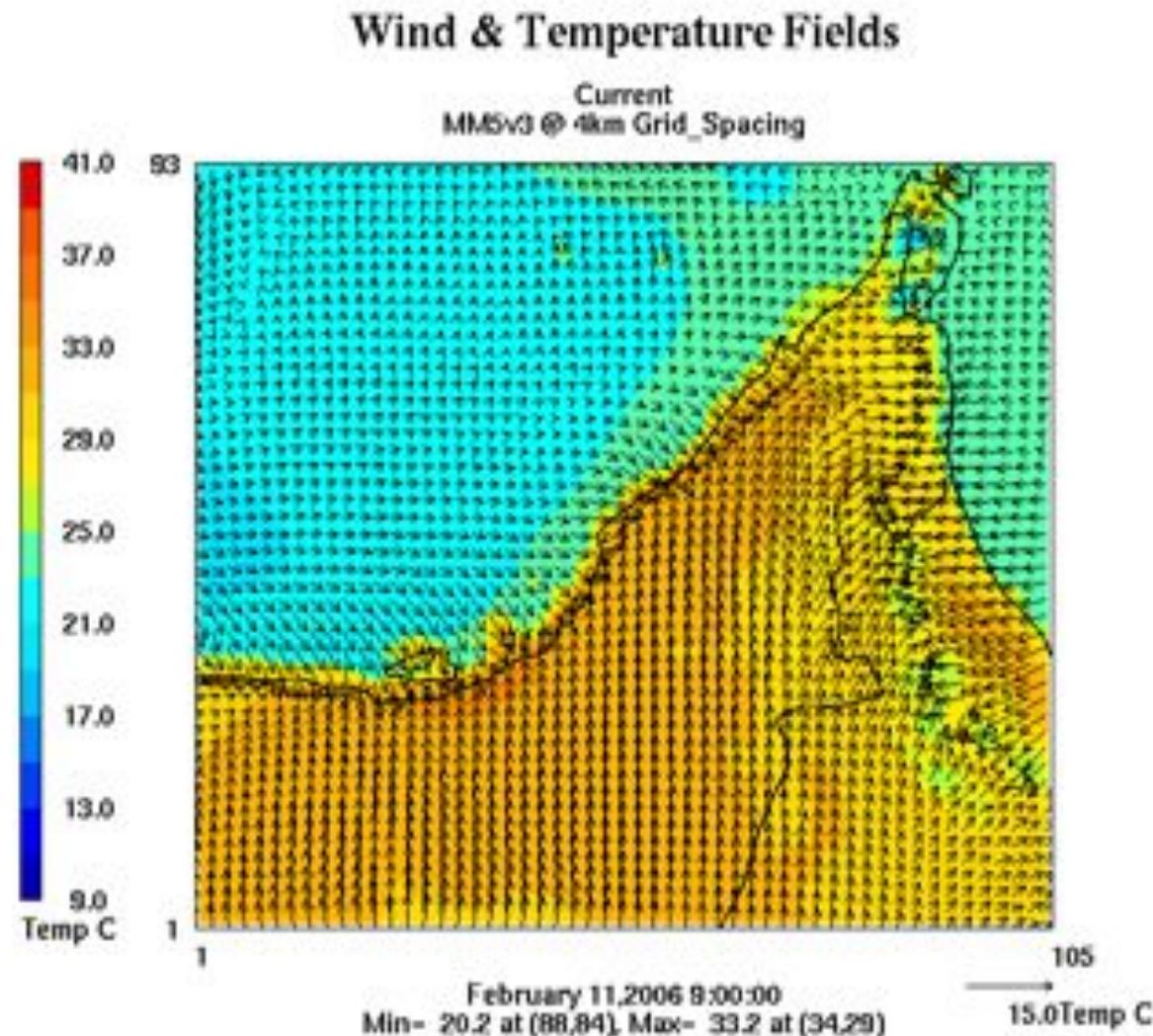


Walkability means passive and active solutions to create shade, a breeze and cooler ( warmer ) temperatures. The tools exist to do this now!

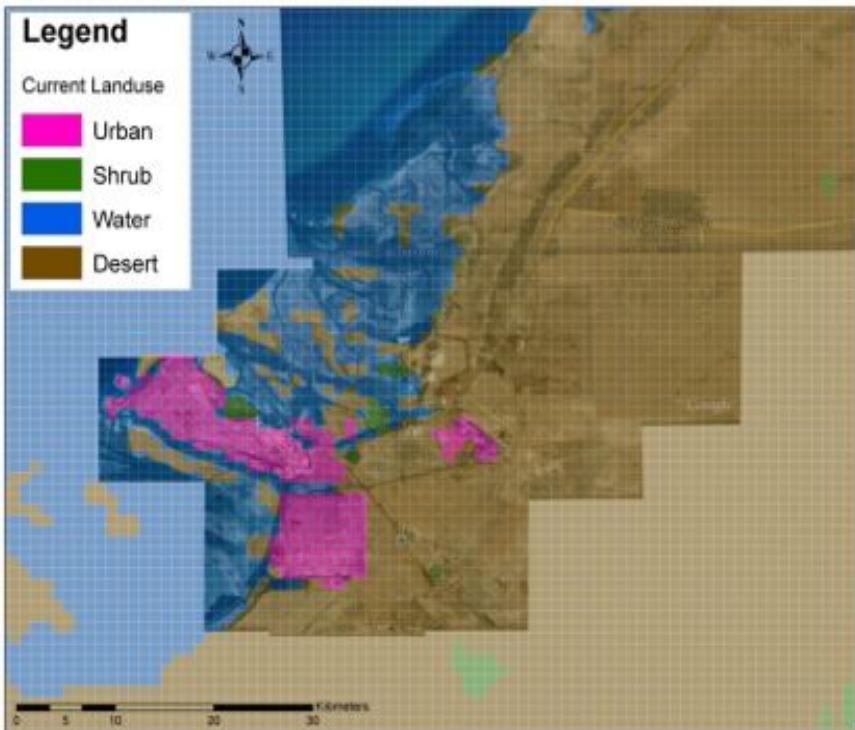
# Meso-Scale Meteorological Modelling

Meteorological modelling provides the hour by hour localised historic weather data.

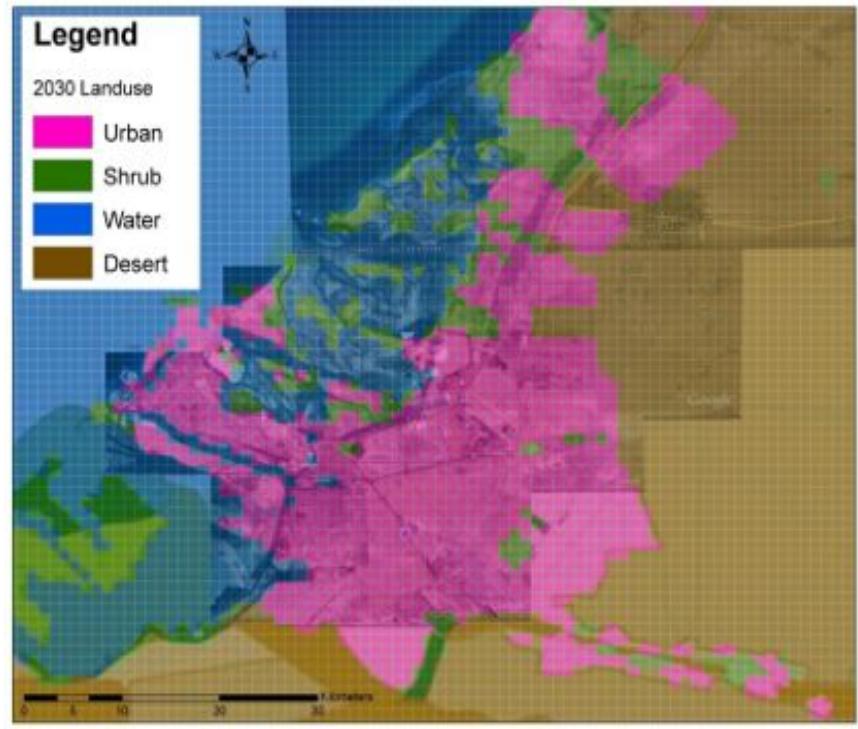
In our cities urban sprawl can create a larger impact than green house gas releases.



# Land-Use Changed from 2006 to 2030



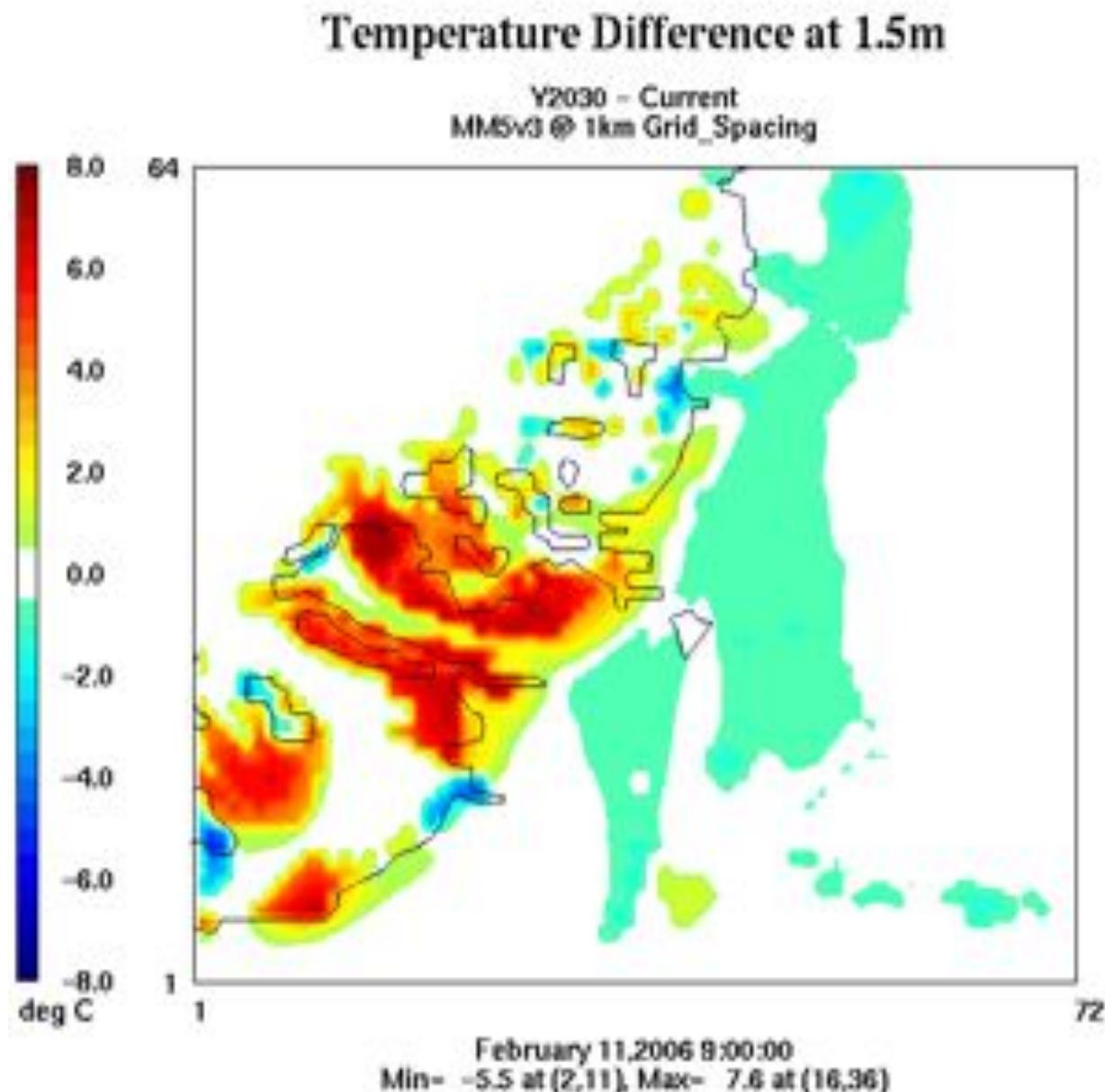
**Current (2006) Land-Use**



**Future (2030) Land-Use**

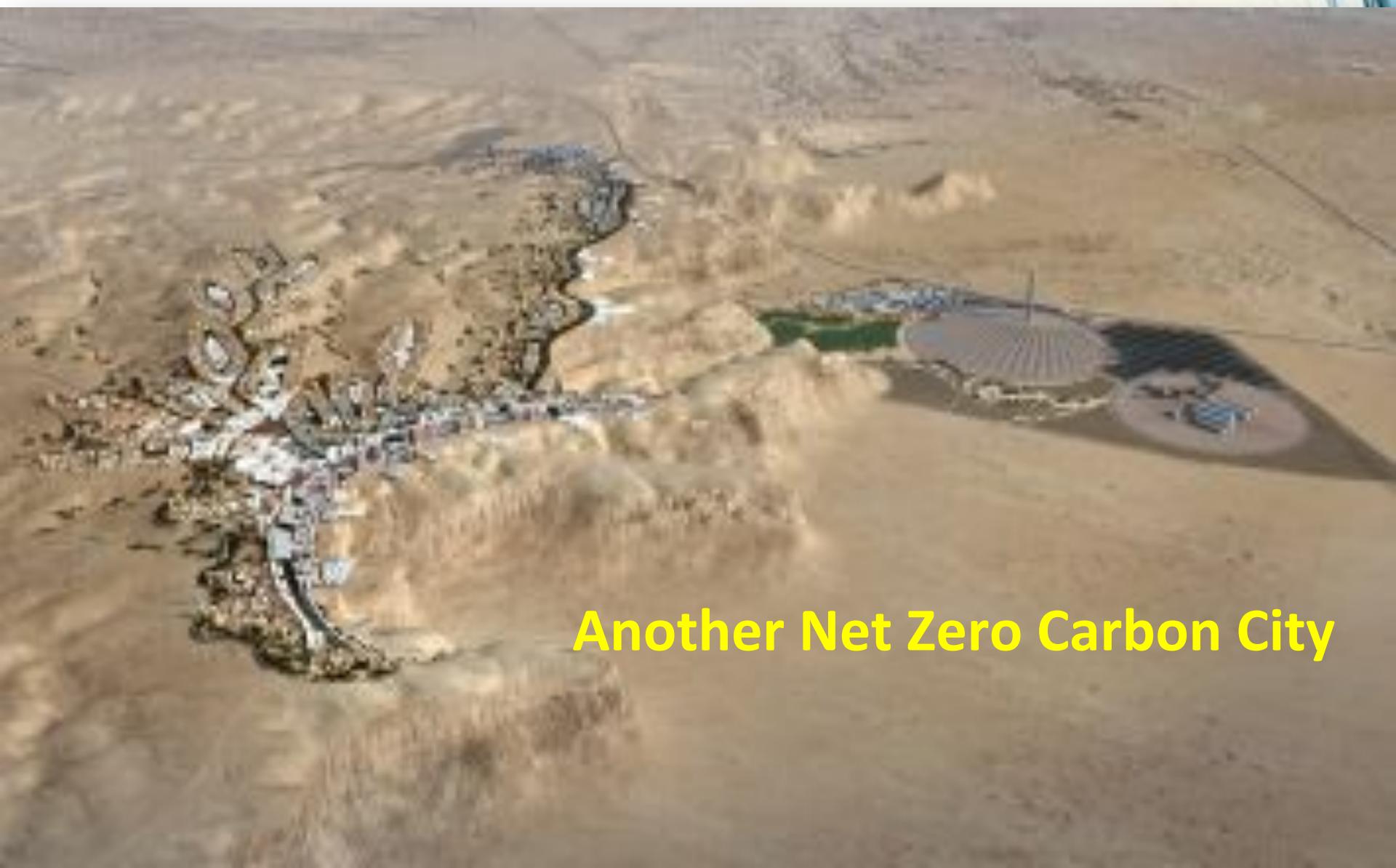
Graphs are 90 by 90 kilometers and show a tripling in urbanized land mass.

# How Landuse Affects Surface Temperature (2030-2006)



This is built and it works!





**Another Net Zero Carbon City**



CONSULTING ENGINEERS  
& SCIENTISTS

*Thank You!*