A blue-toned background image featuring a digital interface on the left with blurred text and a complex network graph with glowing nodes and connections on the right.

20th July 2021

THE IMPORTANCE OF HIGH RESOLUTION CLIMATE DATA IN THE CONTEXT OF URBAN AREAS

FONDAZIONE EURO_MEDITERRANEAN CENTER ON CLIMATE CHANGE (CMCC)

PAOLA MERCOLIANO

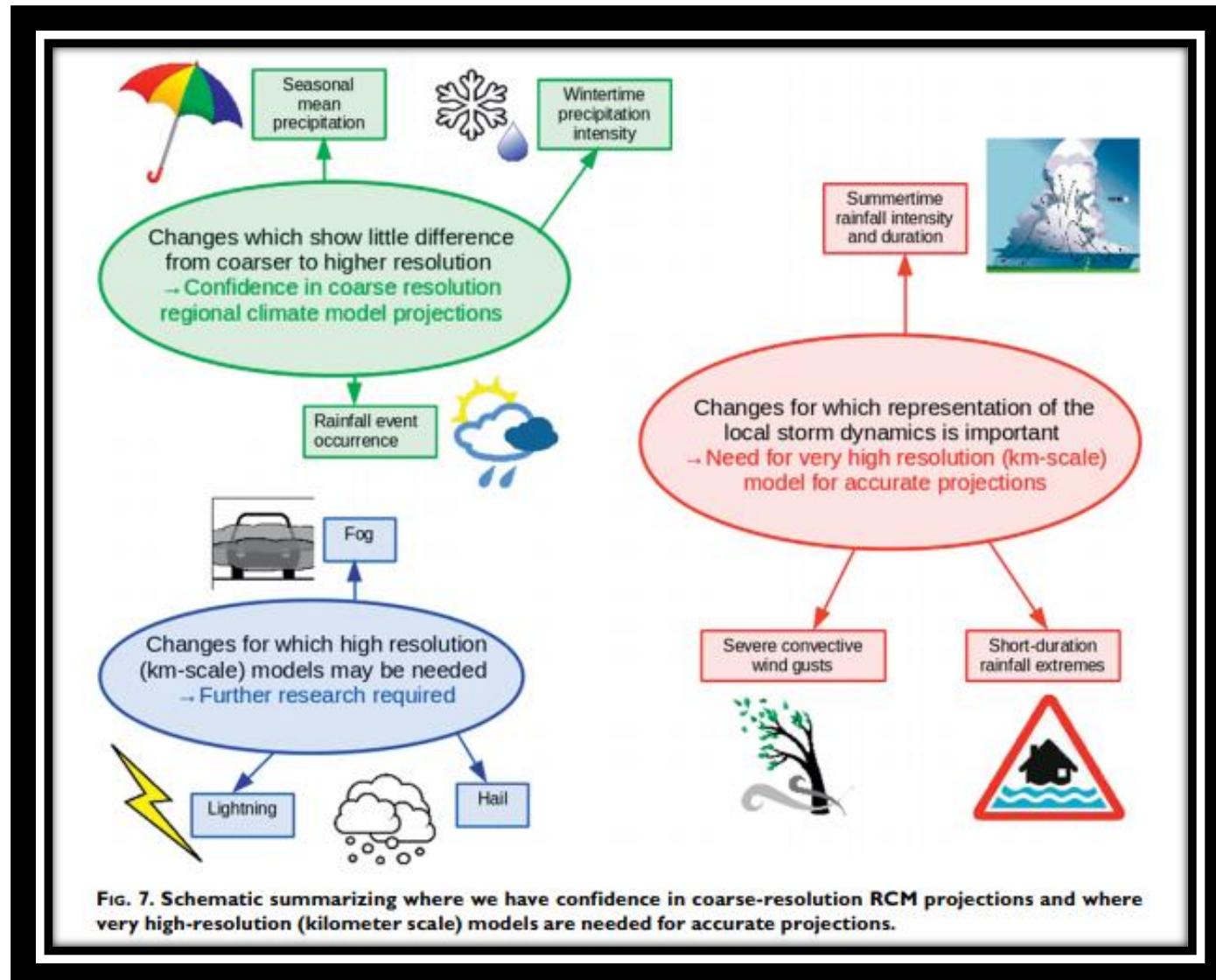
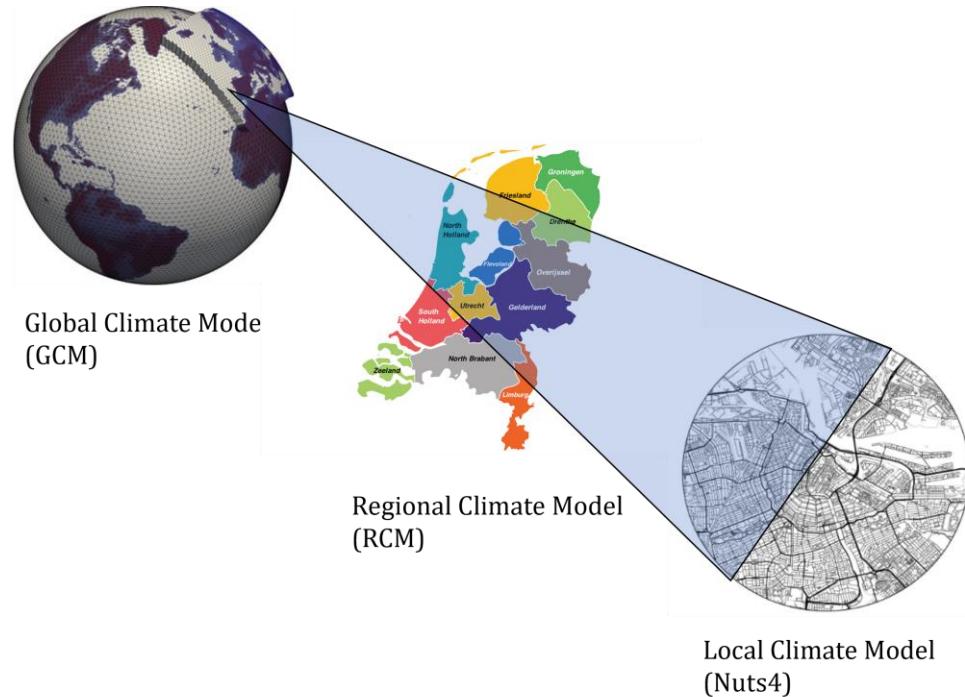
paola.mercogliano@cmcc.it



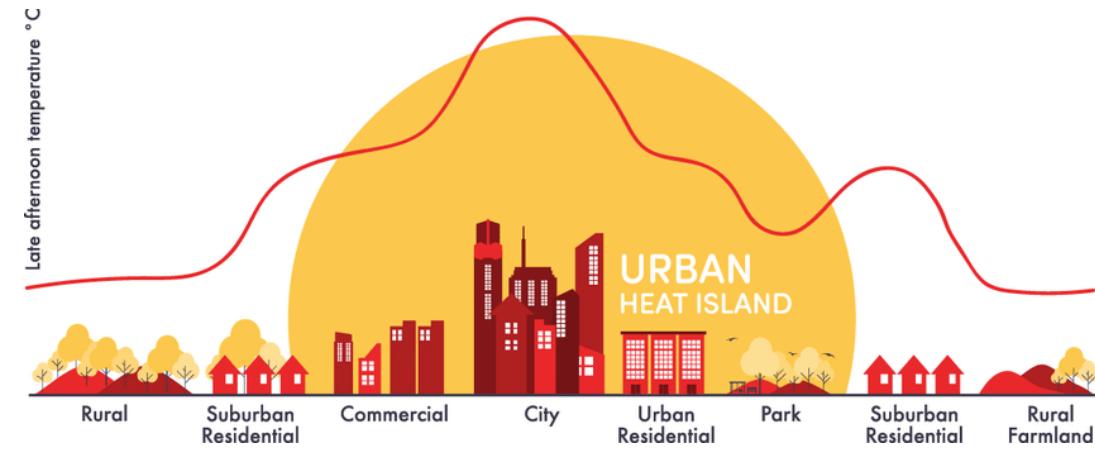
NEXUS BETWEEN CLIMATE CHANGE & URBAN AREAS



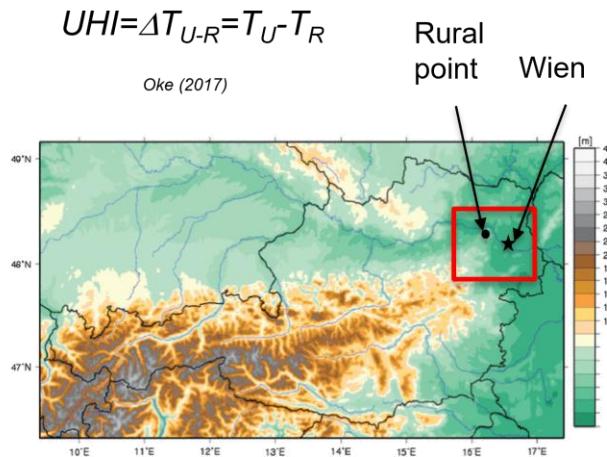
CLIMATE MODEL: FROM GLOBAL TO URBAN AND LOCAL SCALE



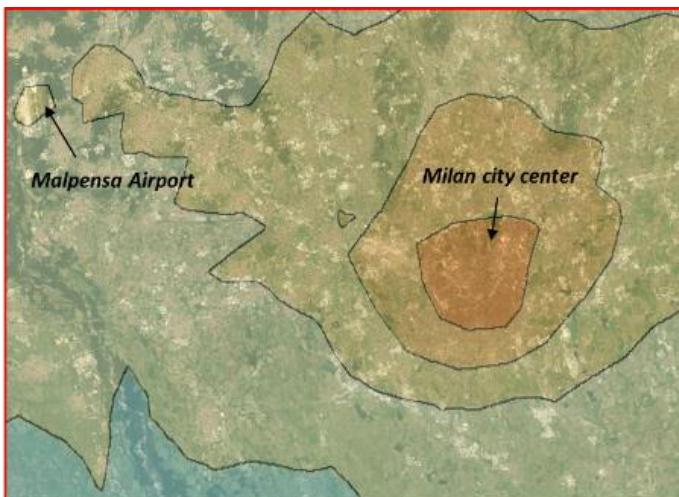
CLIMATE CHANGE IMPACTS on URBAN AREAS: HEAT WAVES



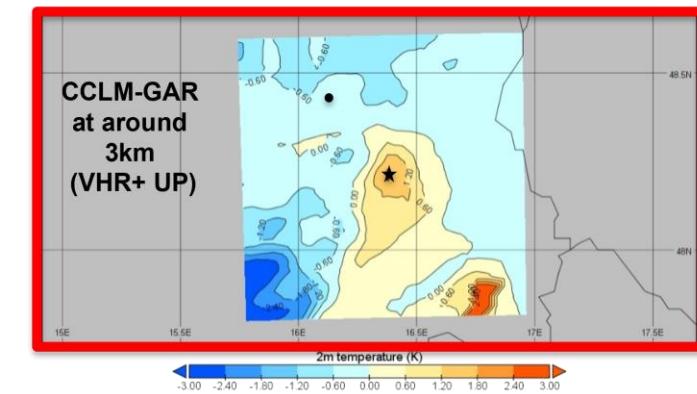
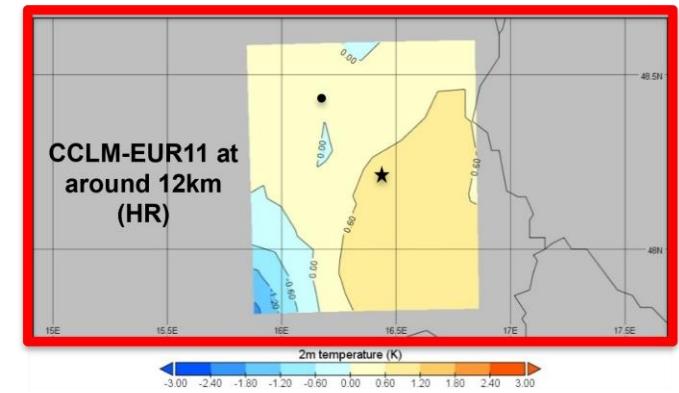
Urban heat island in Wien



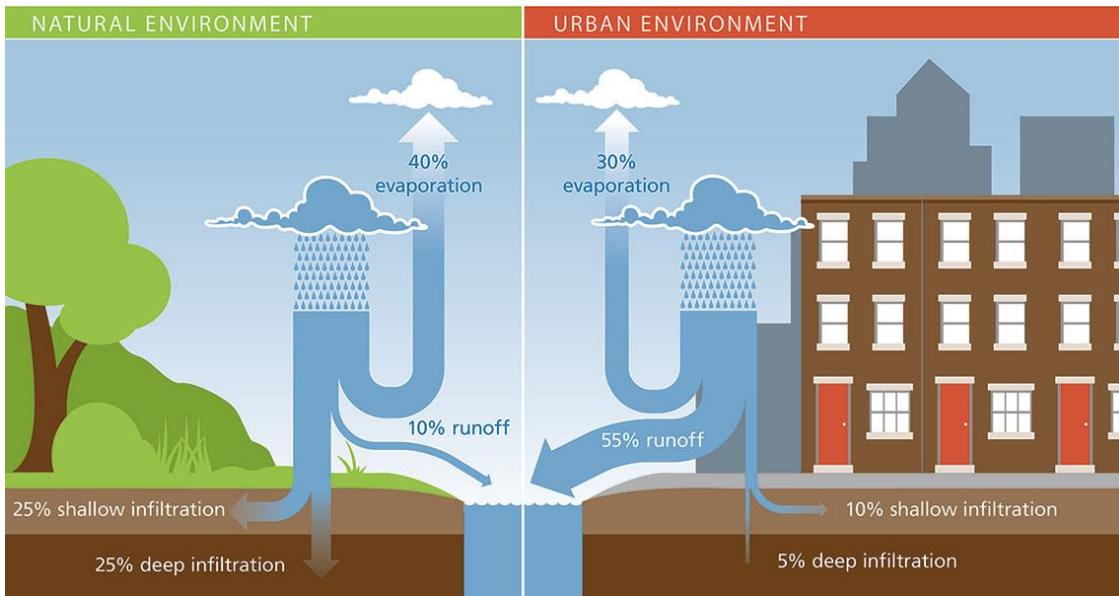
The UHI is only revealed by the VHR simulation while the HR one is not able to catch local dynamics due to the not inclusion of urban parameterization in the simulation and coarser resolution.



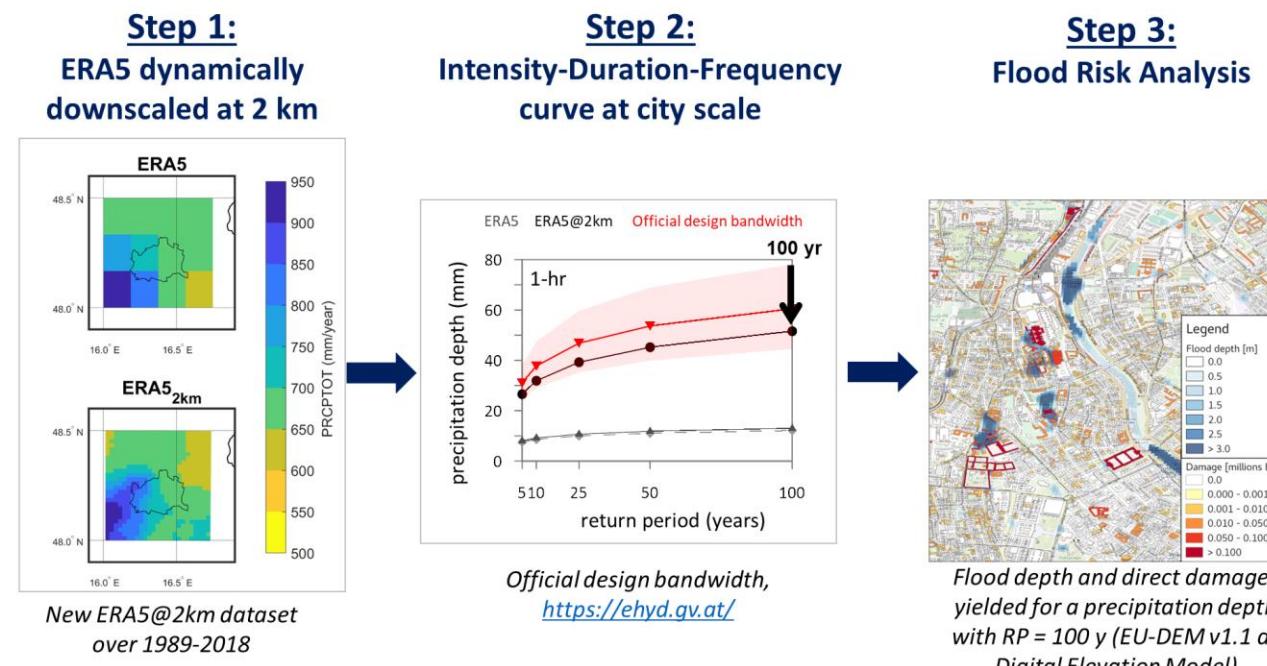
UHI in Wien on 12-02-2000 (night time 18:00-06:00)



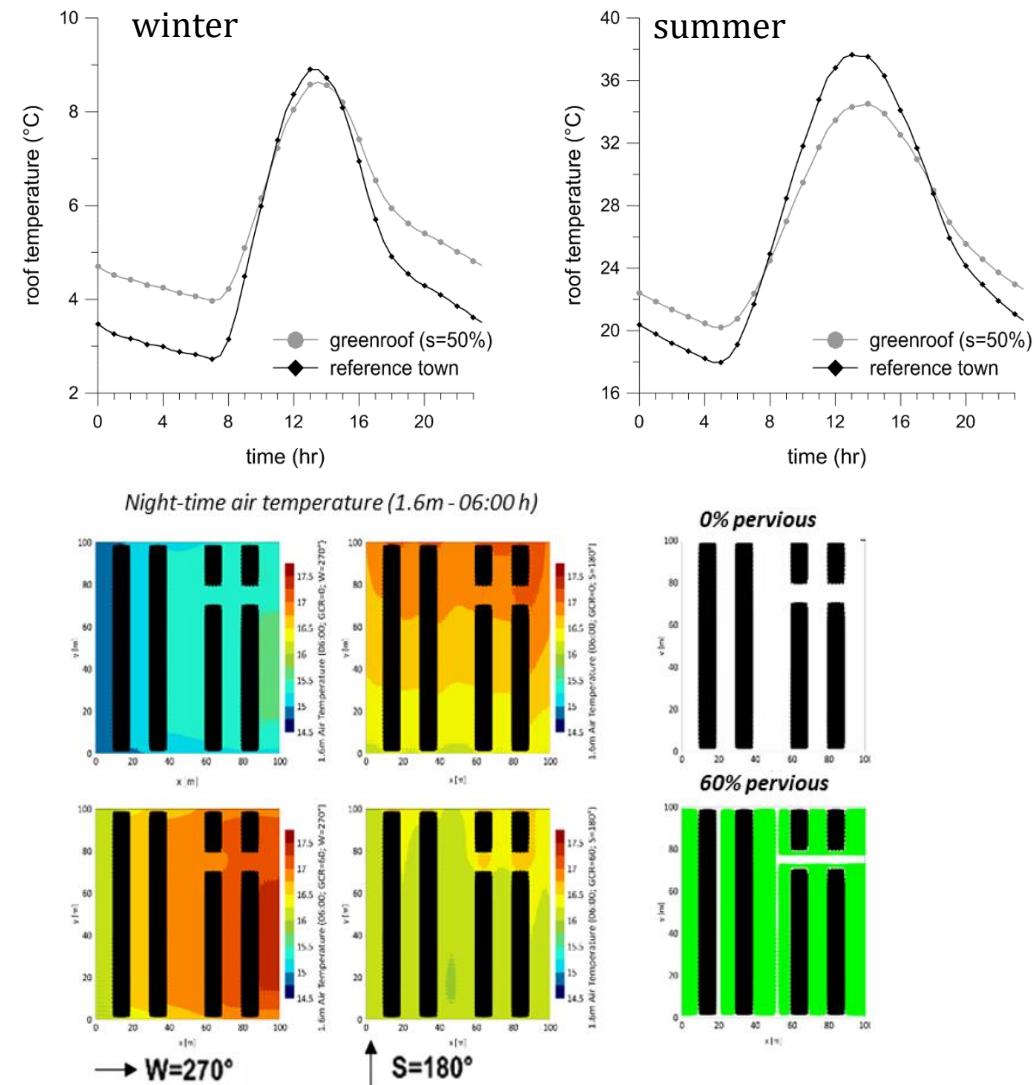
CLIMATE CHANGE IMPACTS on URBAN AREAS: FLOOD



Evaluation of climate change risks is an important components of local adaptation decision-making



SUPPORTING ADAPTATION OVER URBAN AREAS



QUESTIONS

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