

Il contributo dell'acqua nel sottosuolo per la transizione energetica

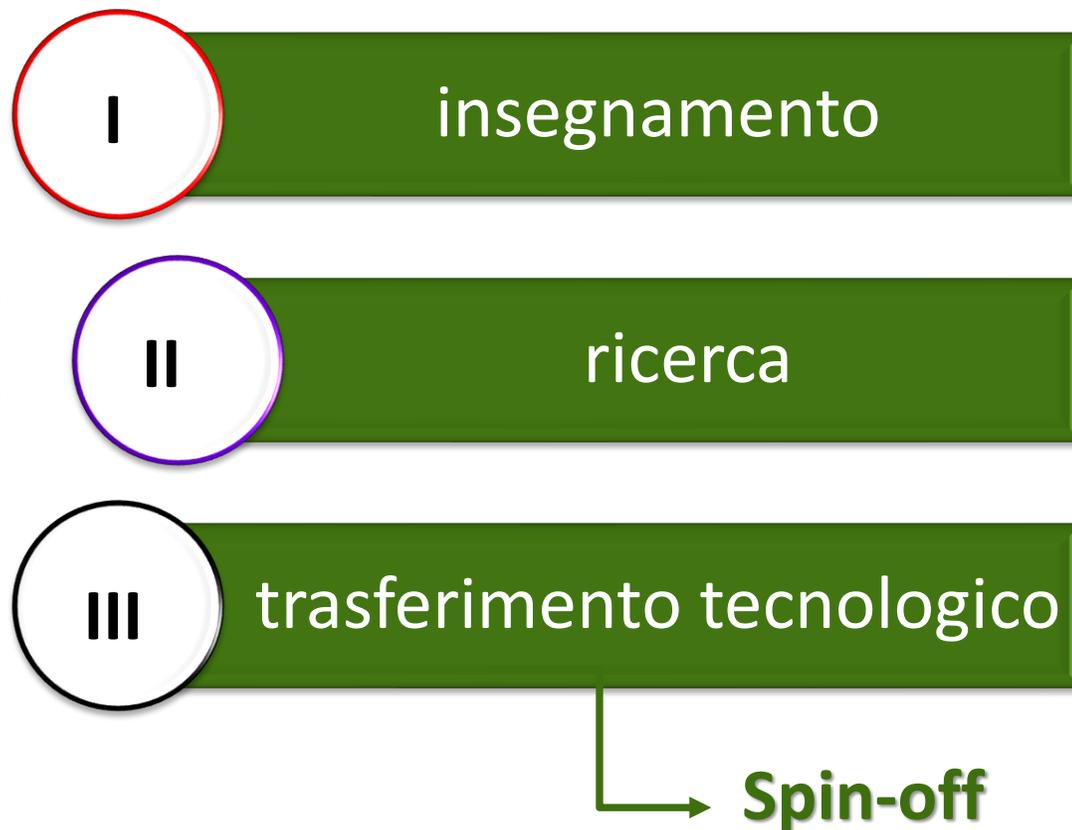
Dimitra Rapti



**Università
degli Studi
di Ferrara**



missioni

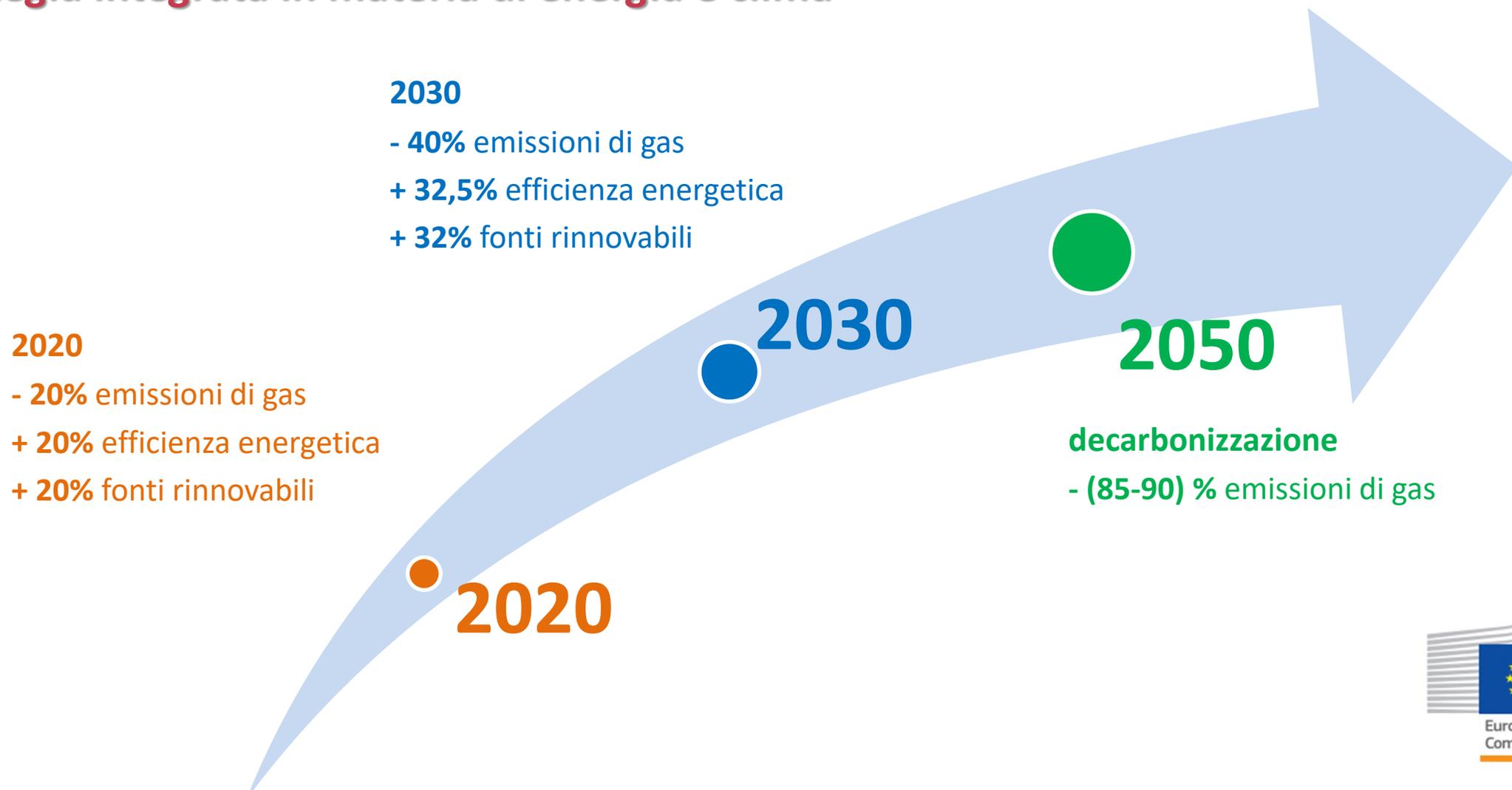


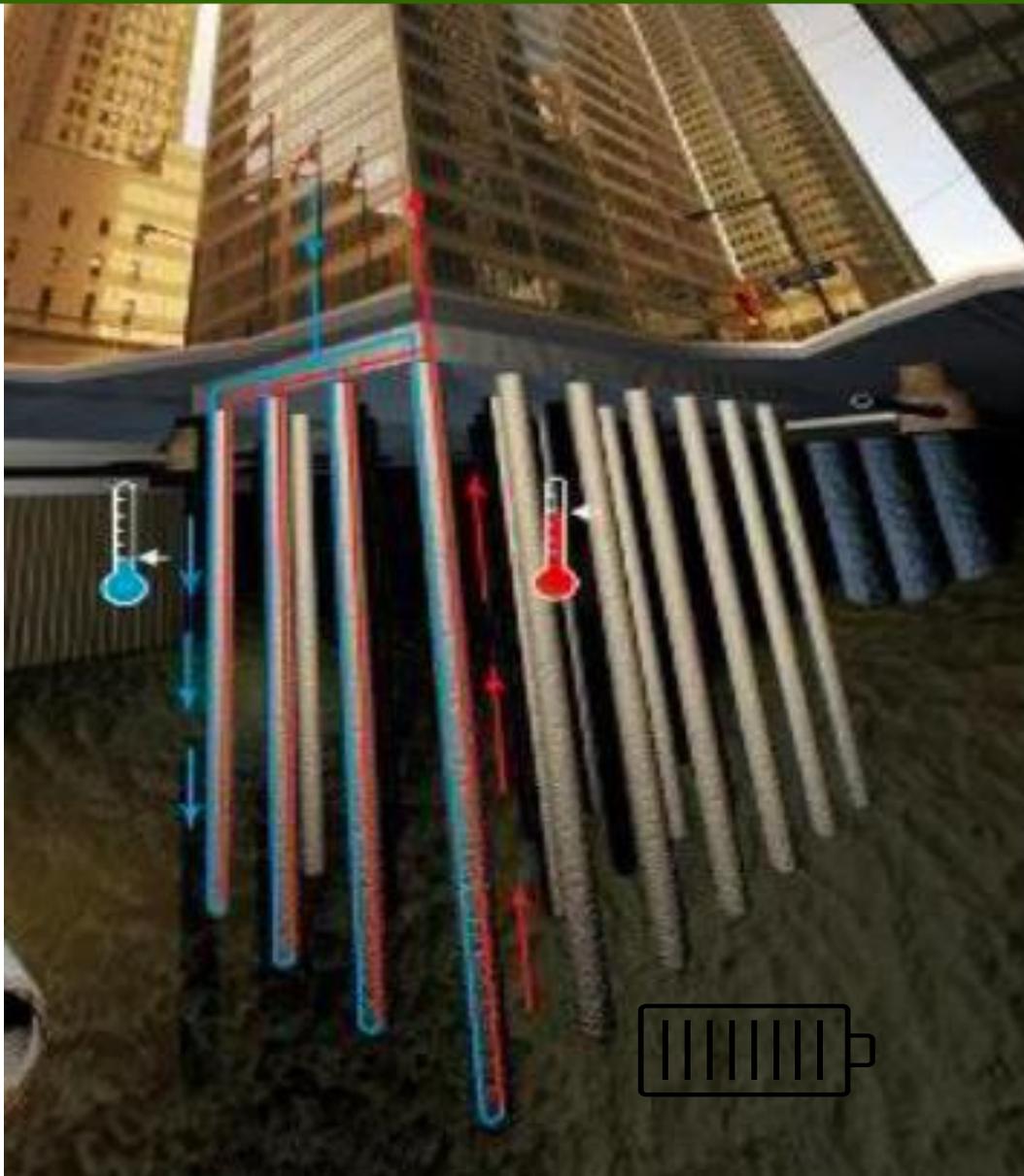
nZEB*



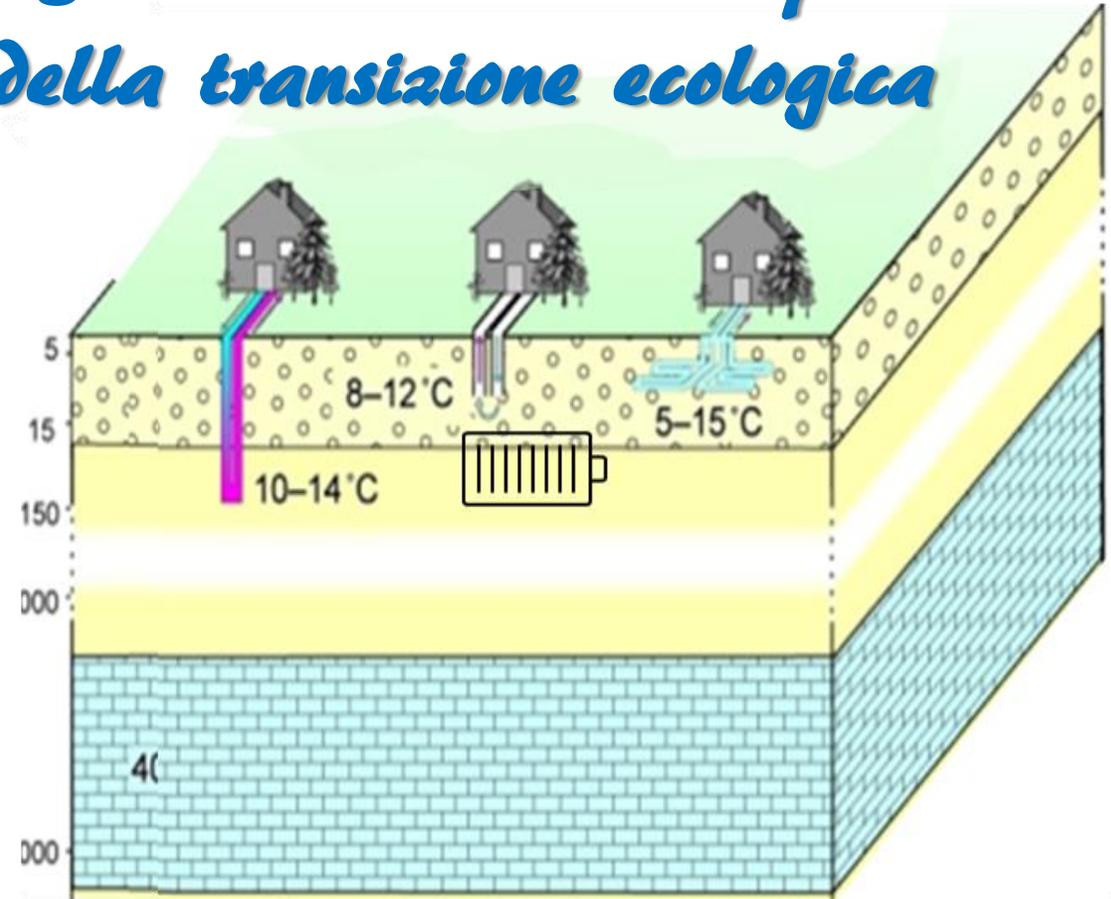
*) (Energy Performance of Buildings Directive 31/2010/CE, seguita in Italia dal D.Lgs. 192/2005 e successivi aggiornamenti)

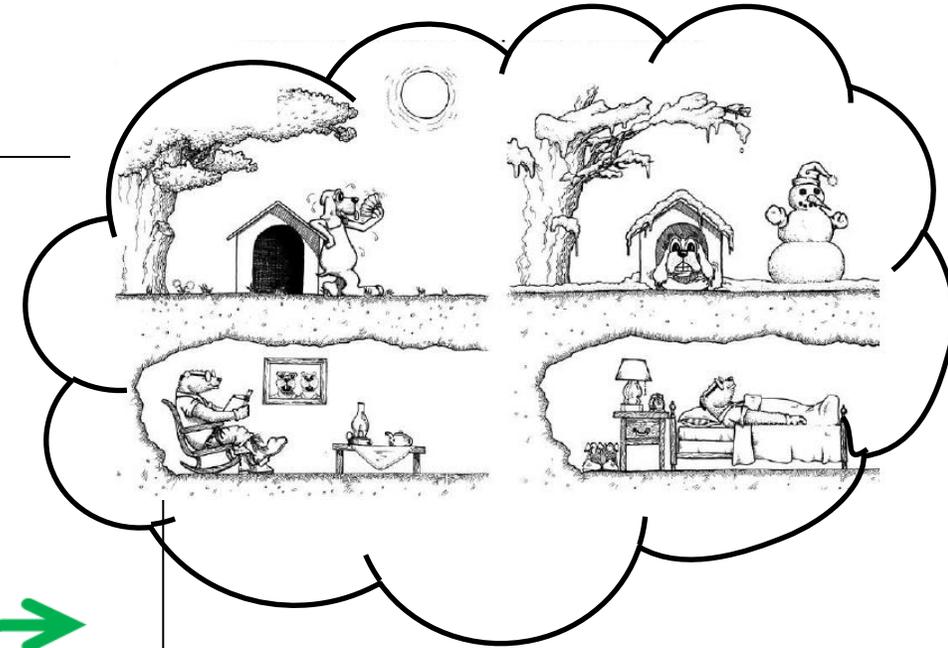
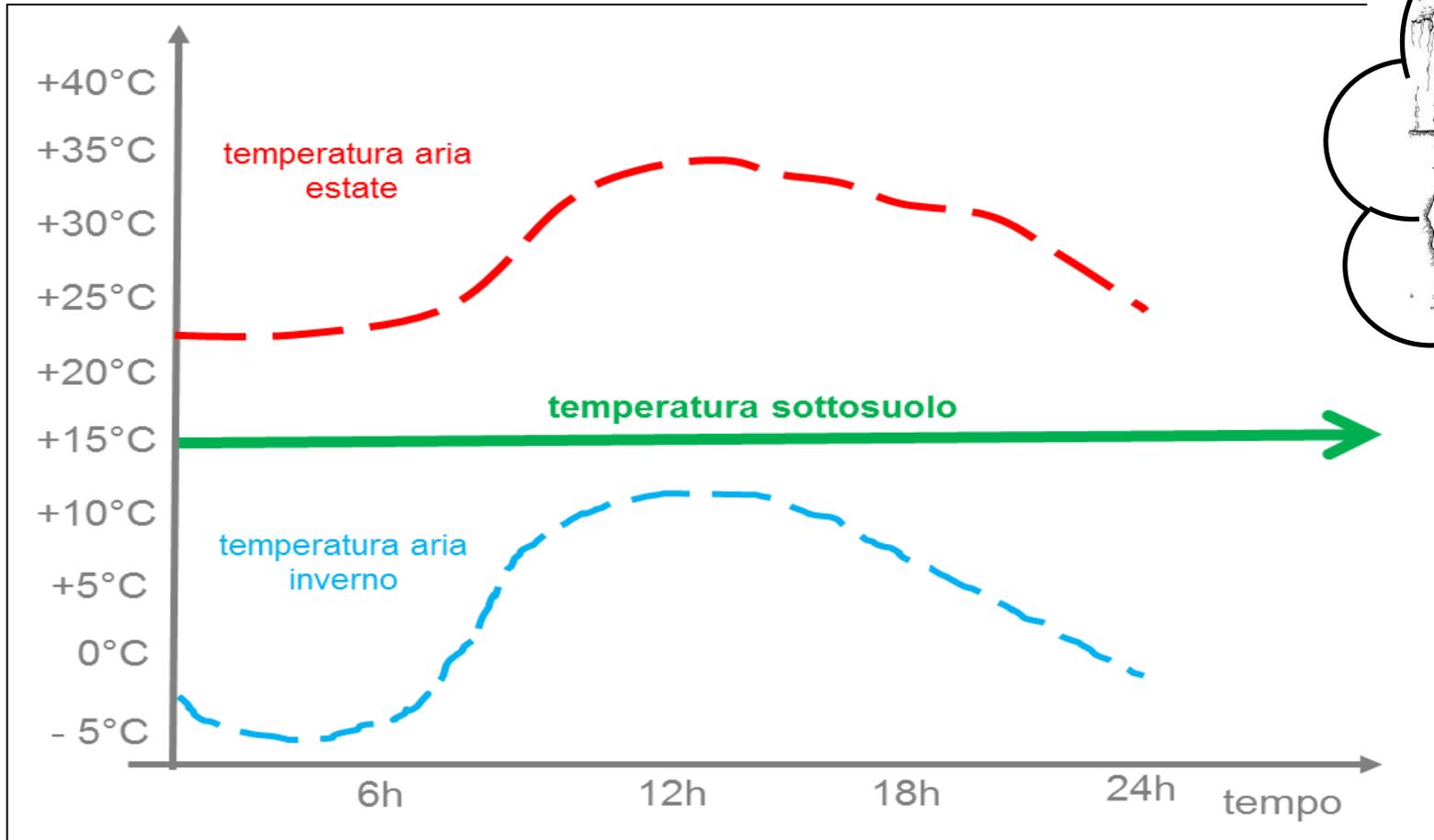
UE - misure per la sostenibilità ambientale strategia integrata in materia di energia e clima



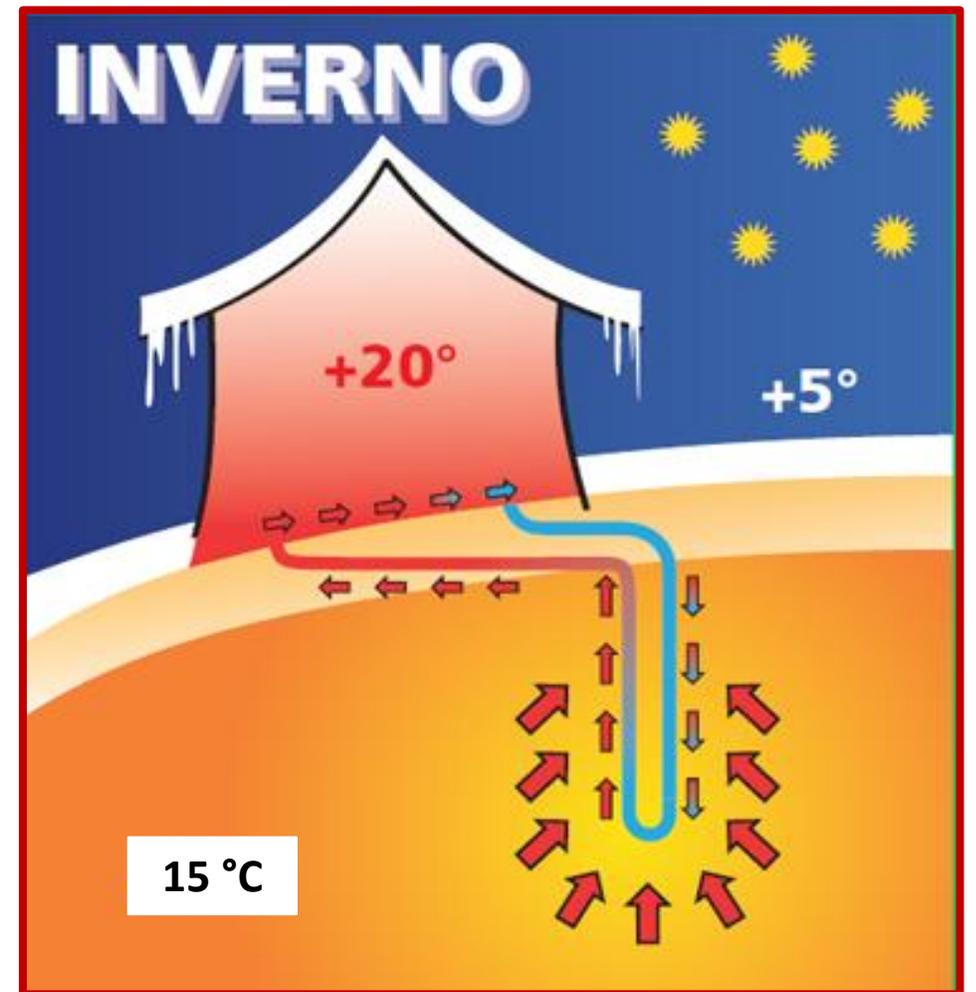
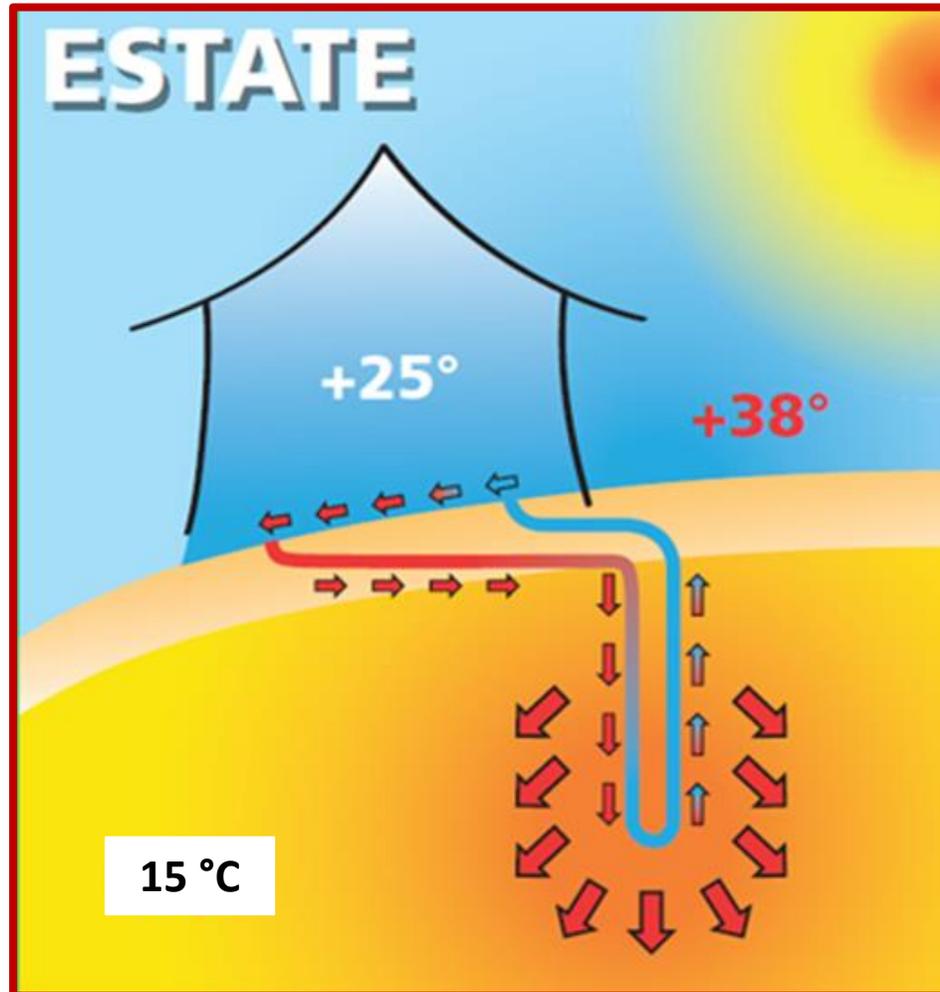
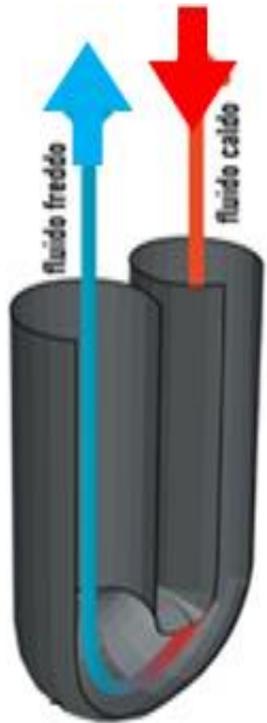
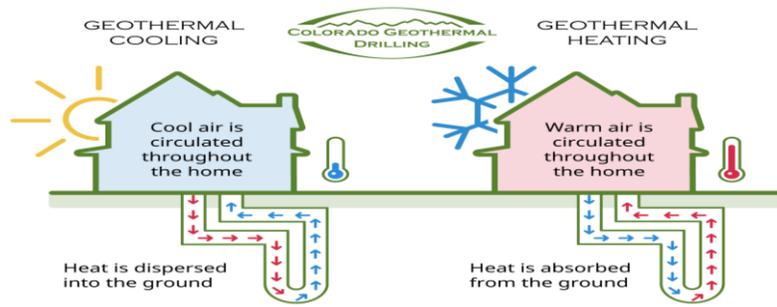


energie rinnovabili *nel processo della transizione ecologica*





sistemi di geoscambio



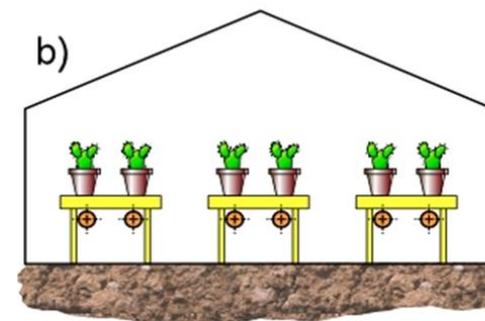
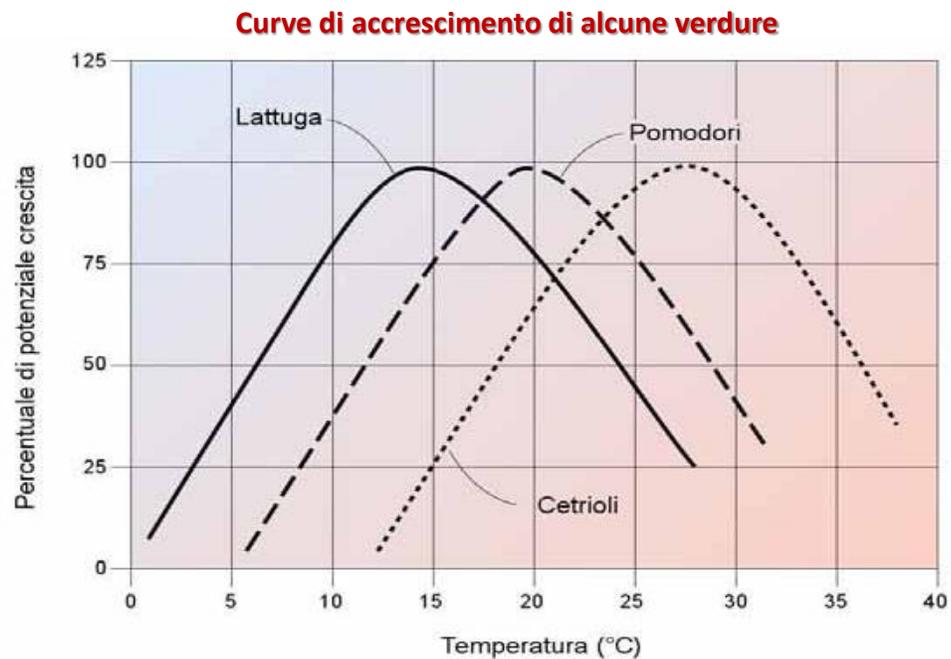


*fluidi geotermici per
scongelare i suoli ghiacciati*

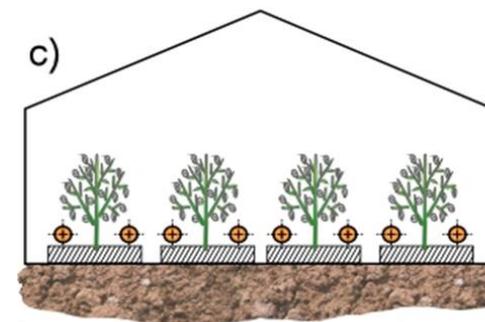


ambiente urbano

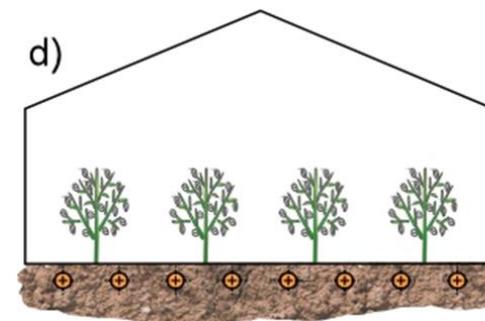




circolazione
d'acqua calda in
condotte sotto i
bancali



circolazione
d'acqua calda in
tubi posti sopra il
terreno



circolazione
d'acqua calda in
tubi posti nel
terreno

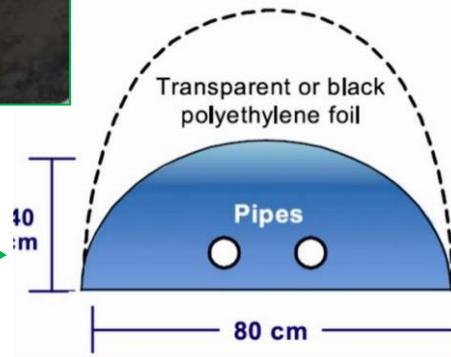




Two pipes subsoil heating system

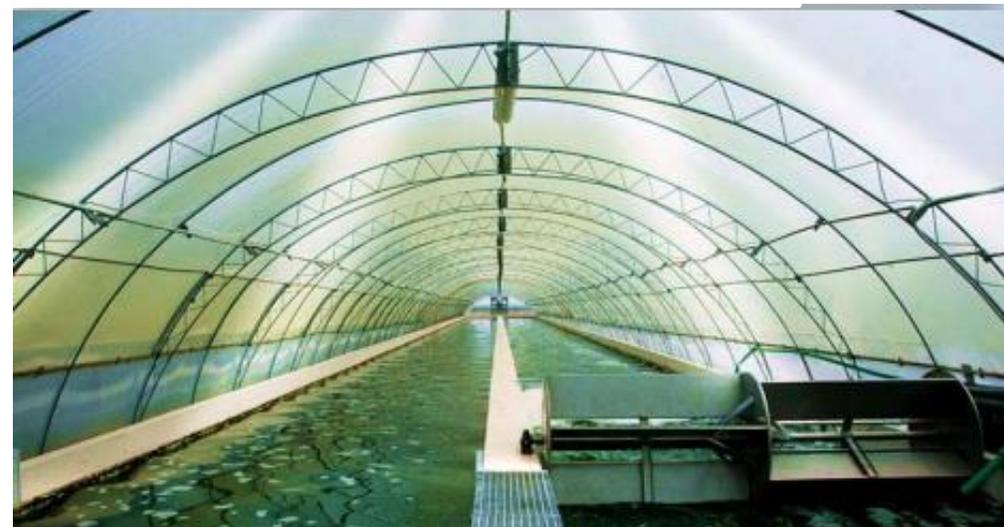


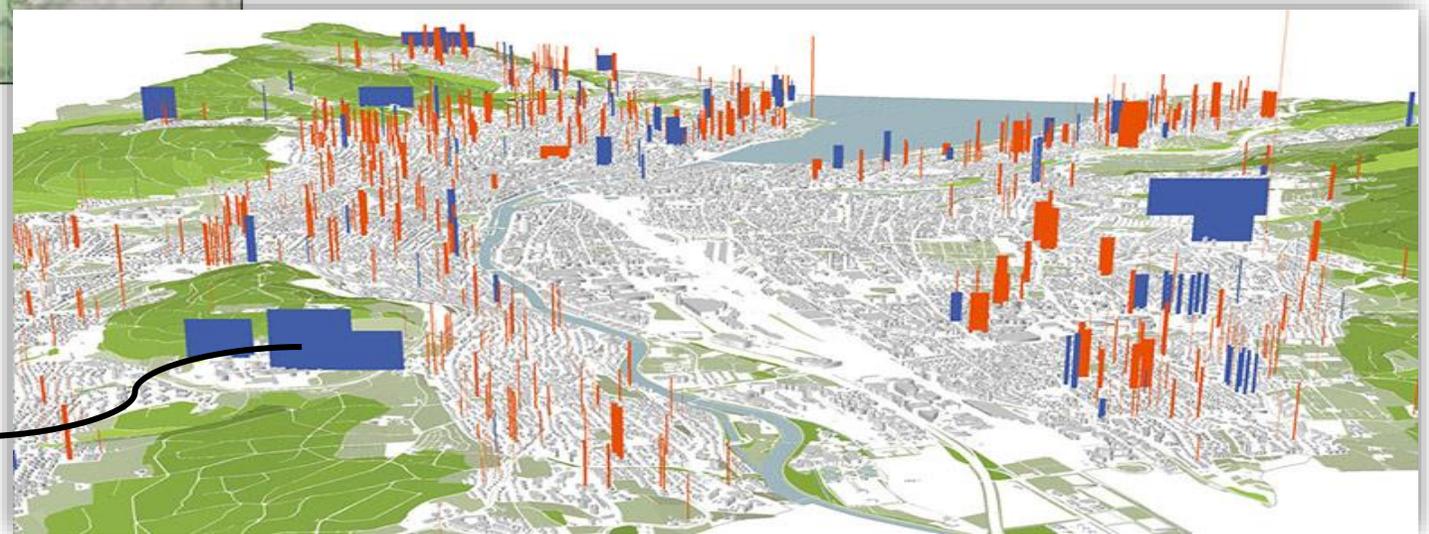
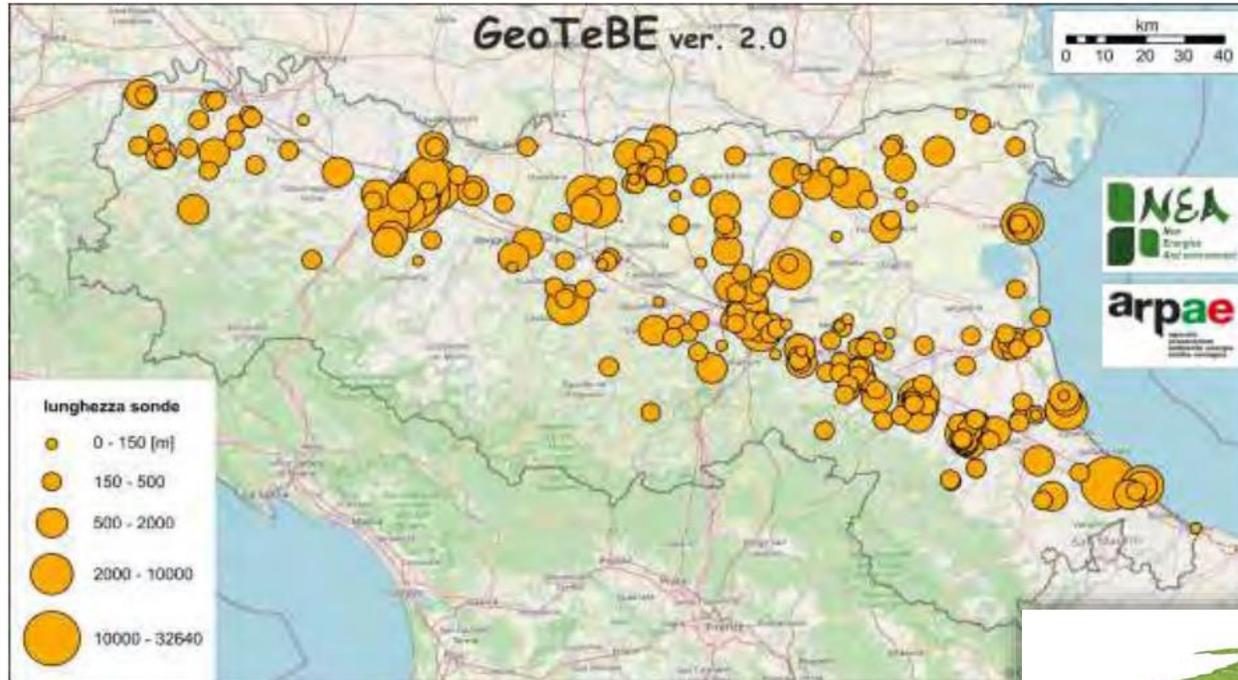
coltivazione
asparagi





Alga spirulina (30-35 °C)



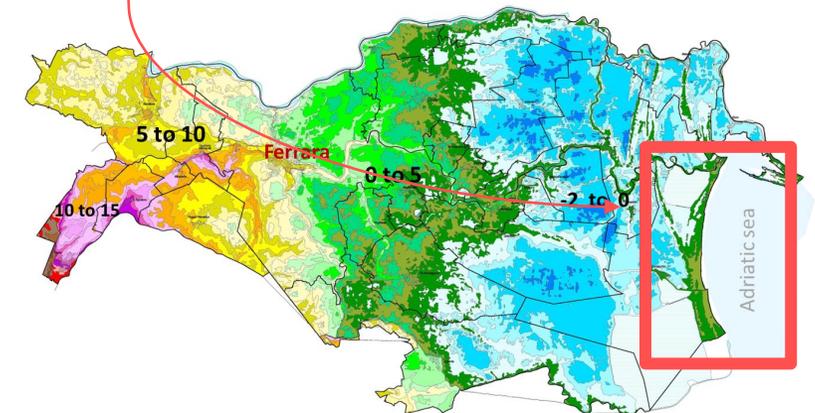
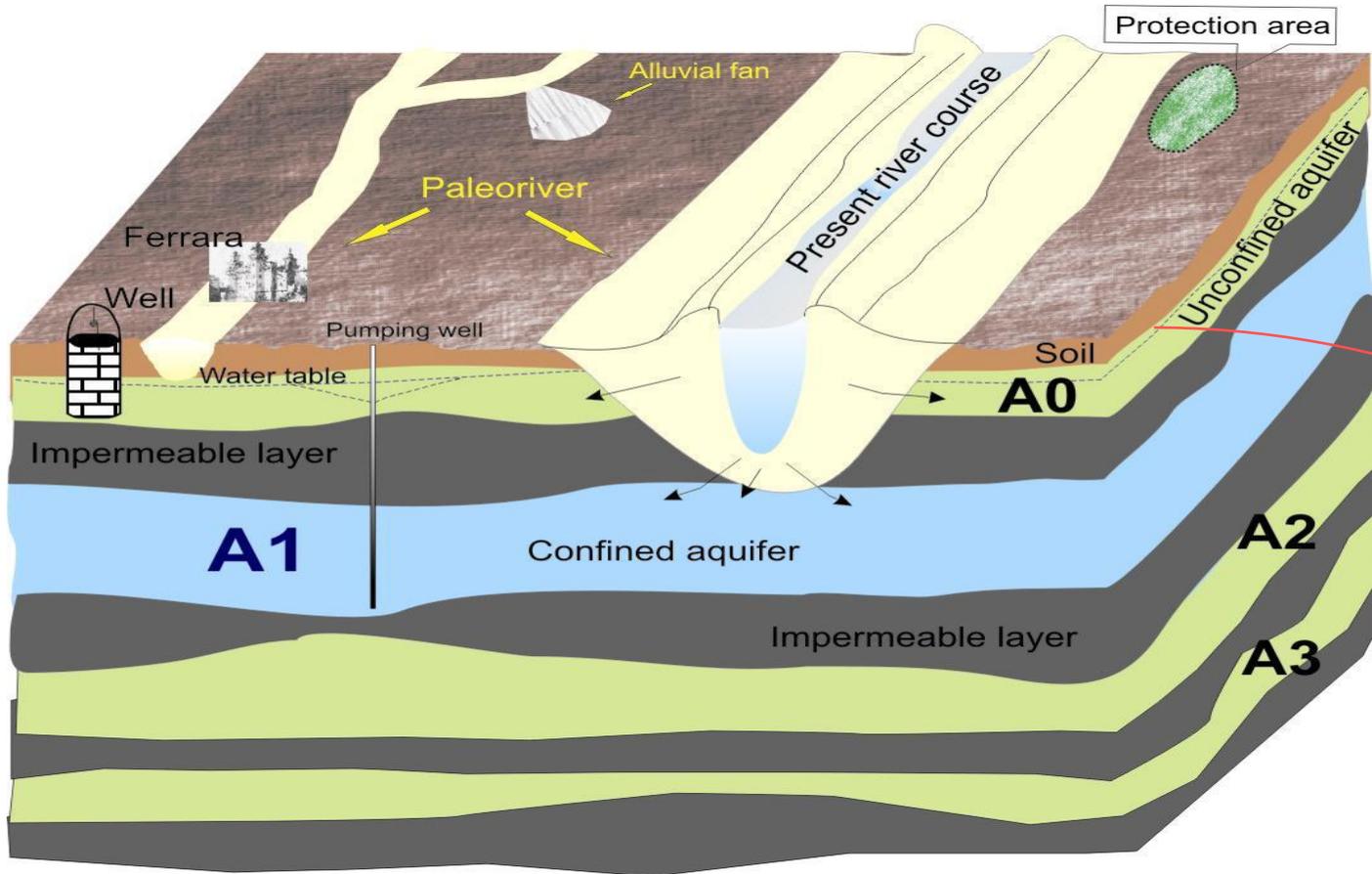


**caratteristiche
quantitative e qualitative
per
la gestione sostenibile
della risorsa**



alimentazione:

precipitazioni
canali
fiumi





... monitoraggio

adozione di strategie

adattamento:

consiste nell'anticipare le conseguenze avverse del cambiamento climatico e prevenire o minimizzare i danni

mitigazione:

consiste nel ridurre le emissioni di gas effetto serra rilasciate in atmosfera per limitare il cambiamento climatico



razionale
utilizzo delle
risorse
idriche



Ferrara, un territorio in simbiosi con il suo fiume



TIZIANO MENABÒ
PHOTOGRAPHER
WING PHOTOGRAPHY