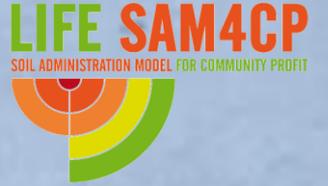


I servizi ecosistemici e il consumo di suolo

Michele Munafò

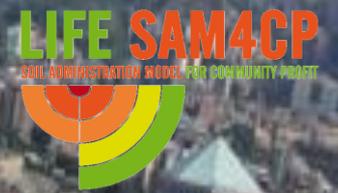
Istituto Superiore per la Protezione e la Ricerca
Ambientale - ISPRA

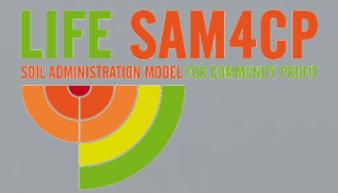


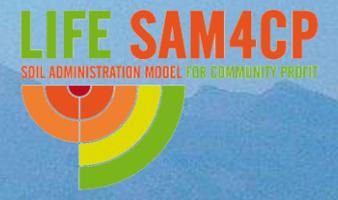


I DON'T BELIEVE IN
GLOBAL WARMING

I DON'T BELIEVE IN
GLOBAL WARMING











1999



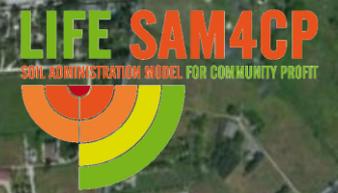


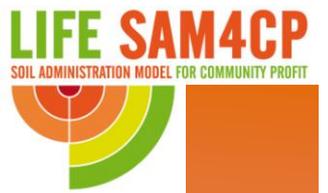
2006





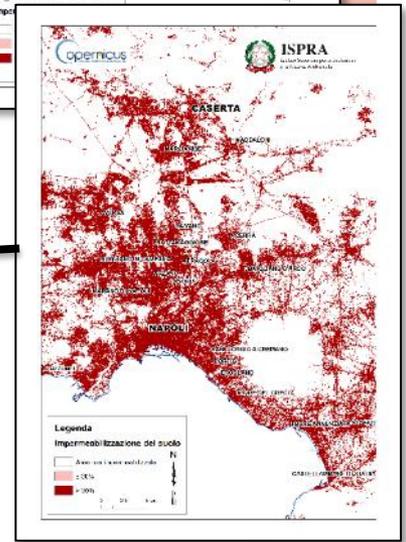
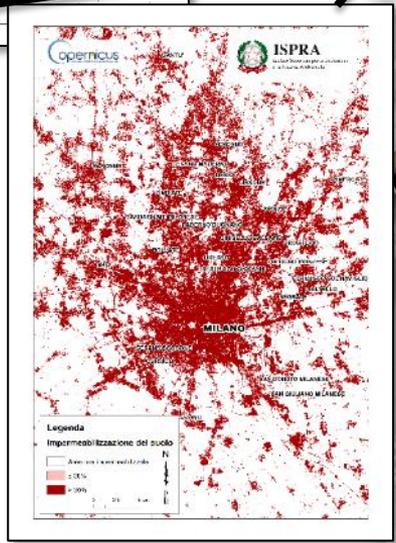
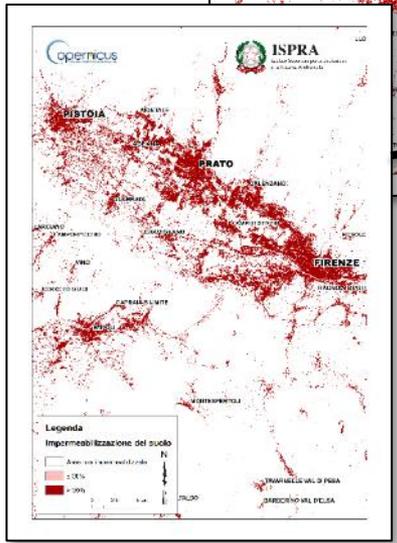
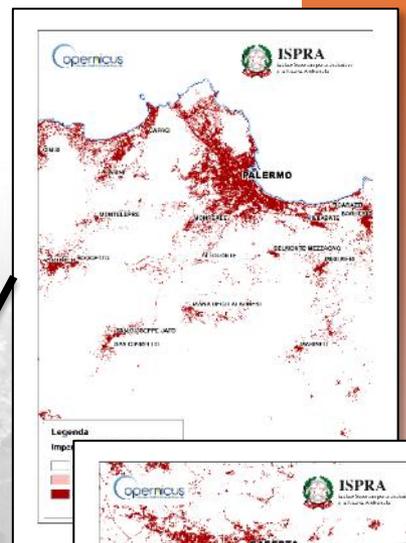
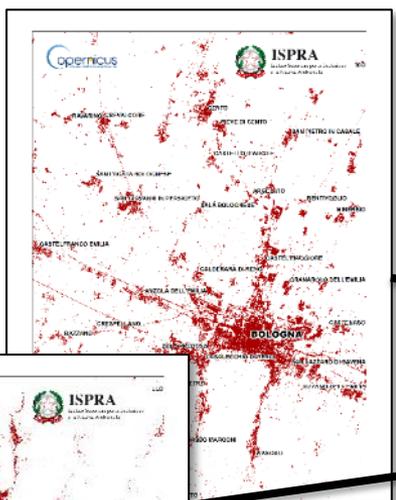
2012







**In 3 anni sono andati persi 720 km²,
un'area pari alla somma dei comuni
di Milano, Firenze, Bologna, Napoli
e Palermo**

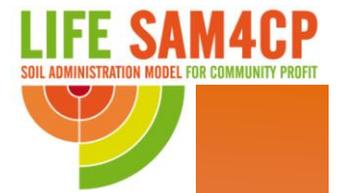


Legenda
Impermeabilizzazione del suolo

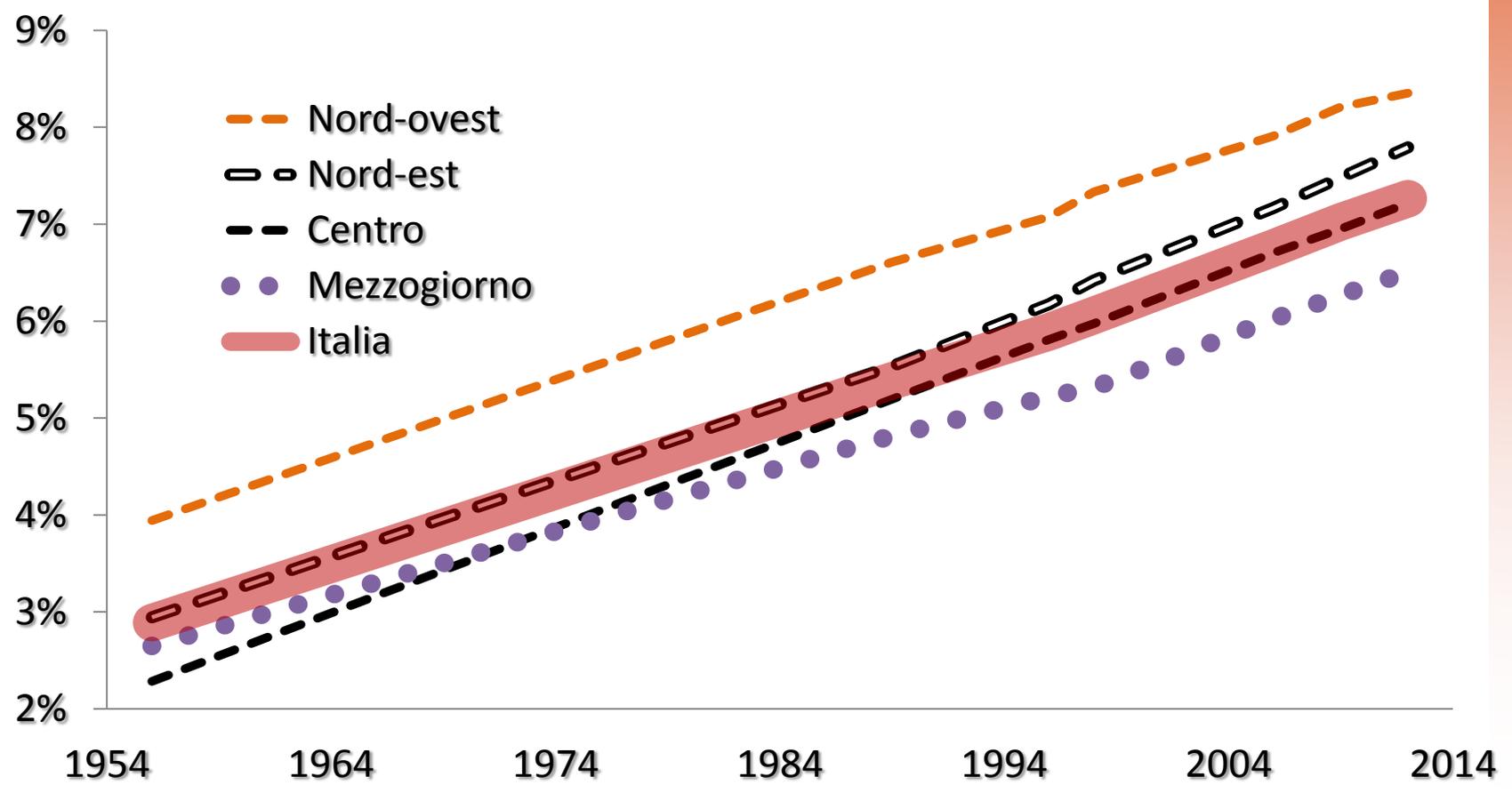
Area in base satellite	0-25%
25-50%	
50-75%	
75-100%	

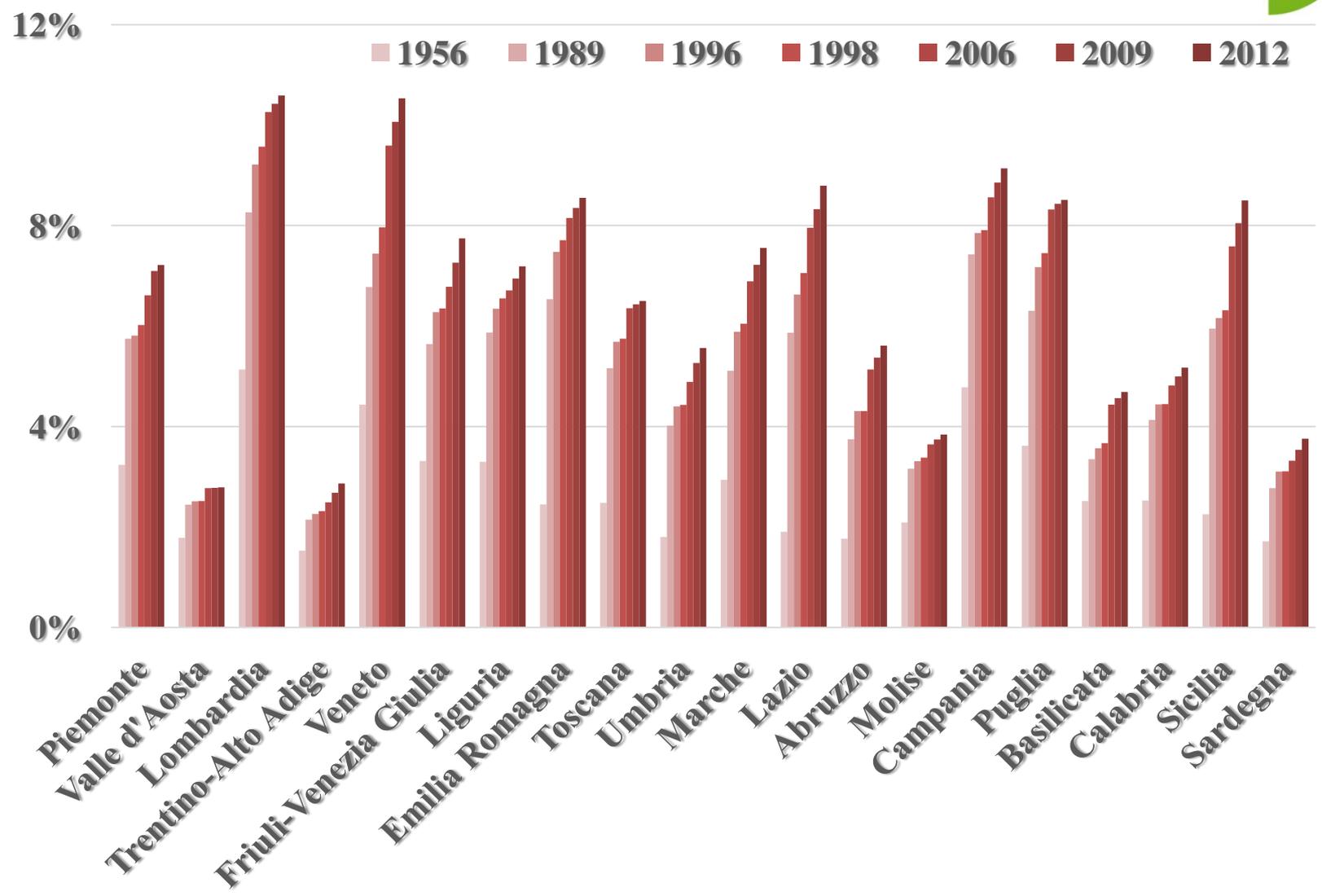
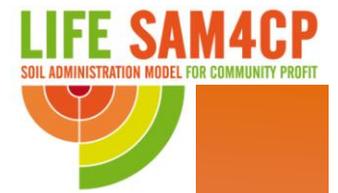
Legenda
Impermeabilizzazione del suolo

Area in base satellite	0-25%
25-50%	
50-75%	
75-100%	



8 m² al secondo 70 ettari al giorno









LIFE SAM4CP

SOIL ADMINISTRATION MODEL FOR COMMUNITY PROFIT

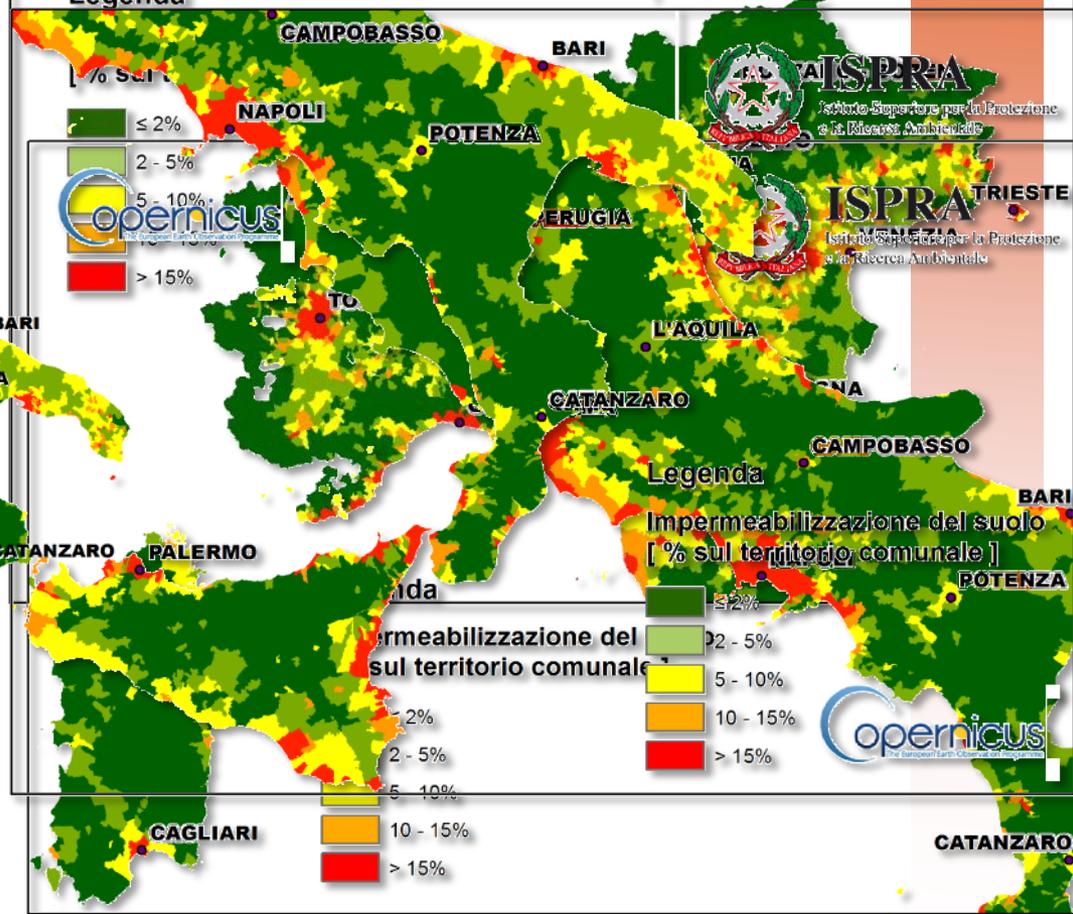


ISPRA
Istituto Superiore per la Protezione
e la Ricerca Ambientale



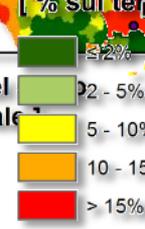
Legenda

[% Suolo]



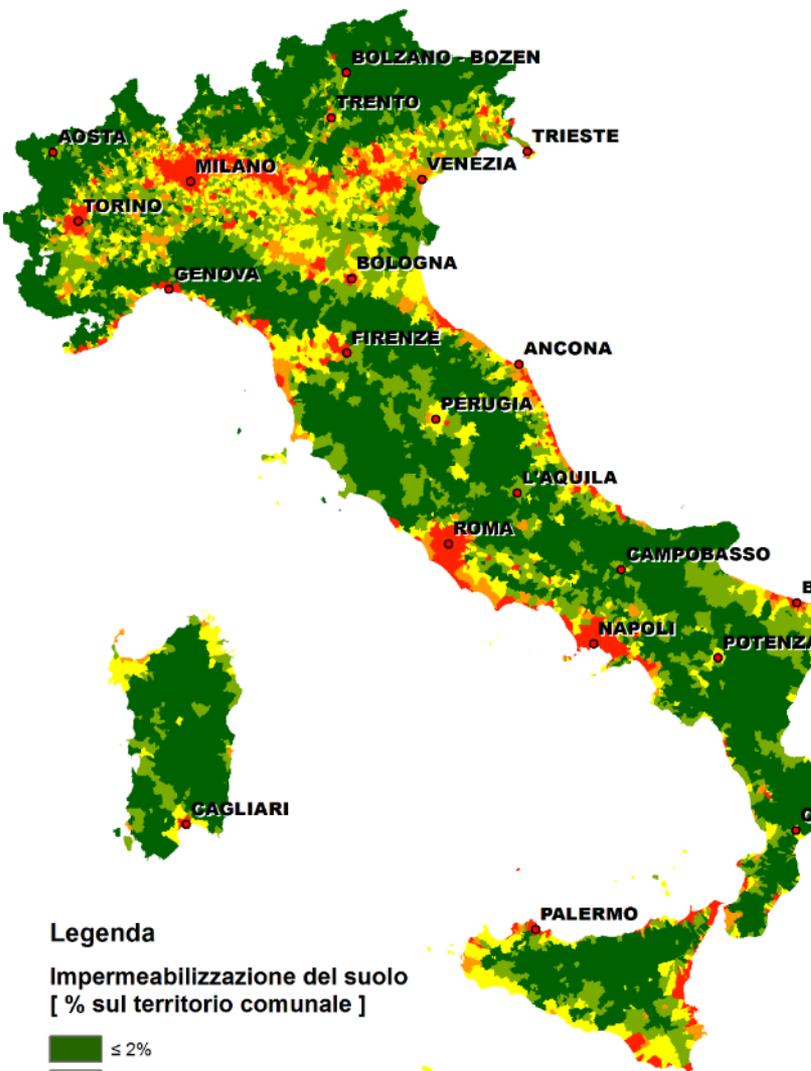
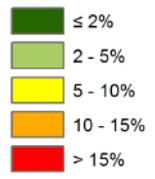
Legenda

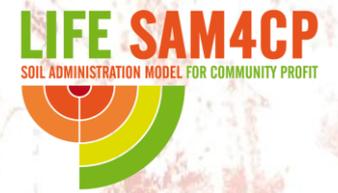
Impermeabilizzazione del suolo [% sul territorio comunale]



Legenda

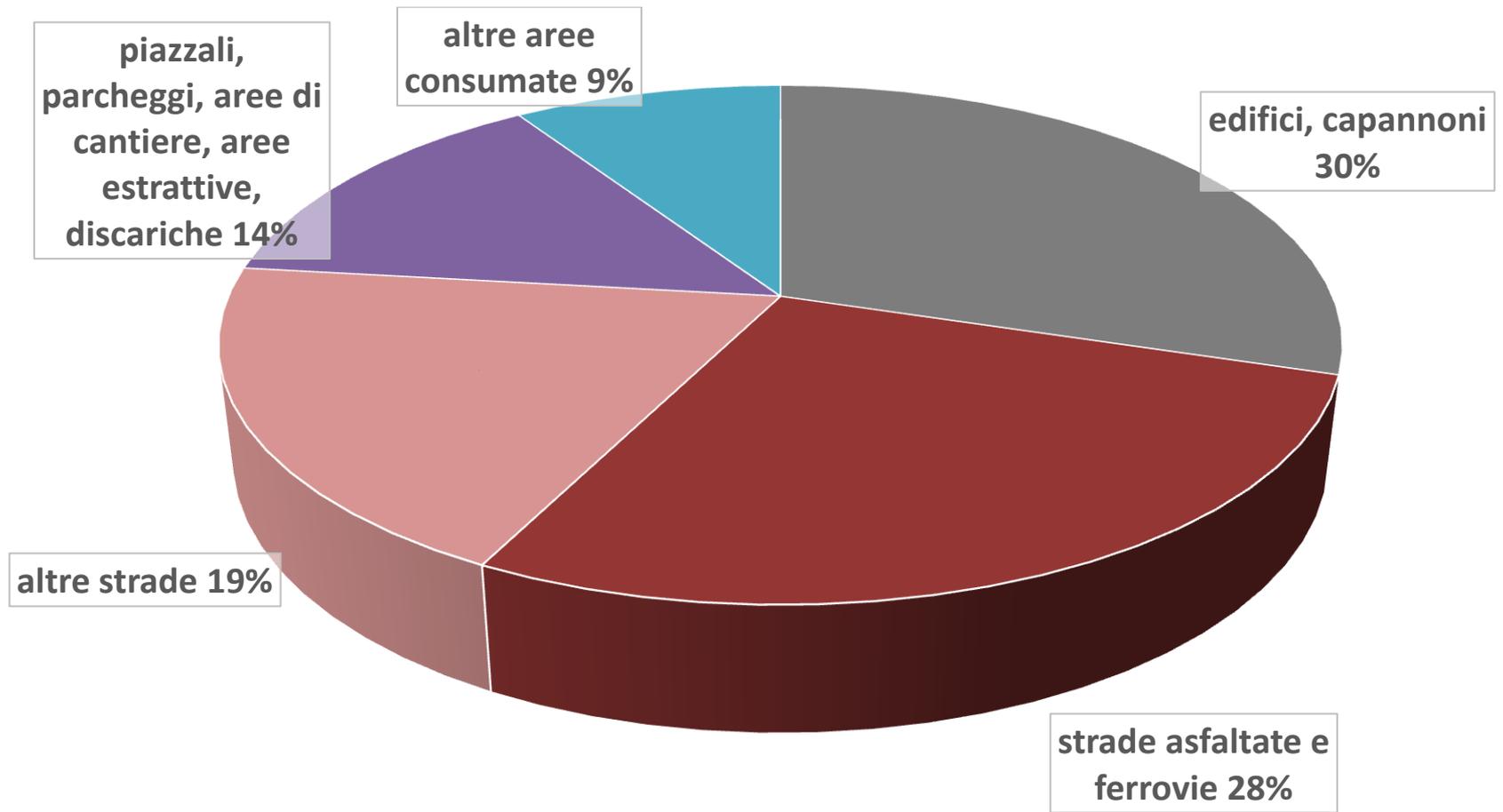
Impermeabilizzazione del suolo [% sul territorio comunale]





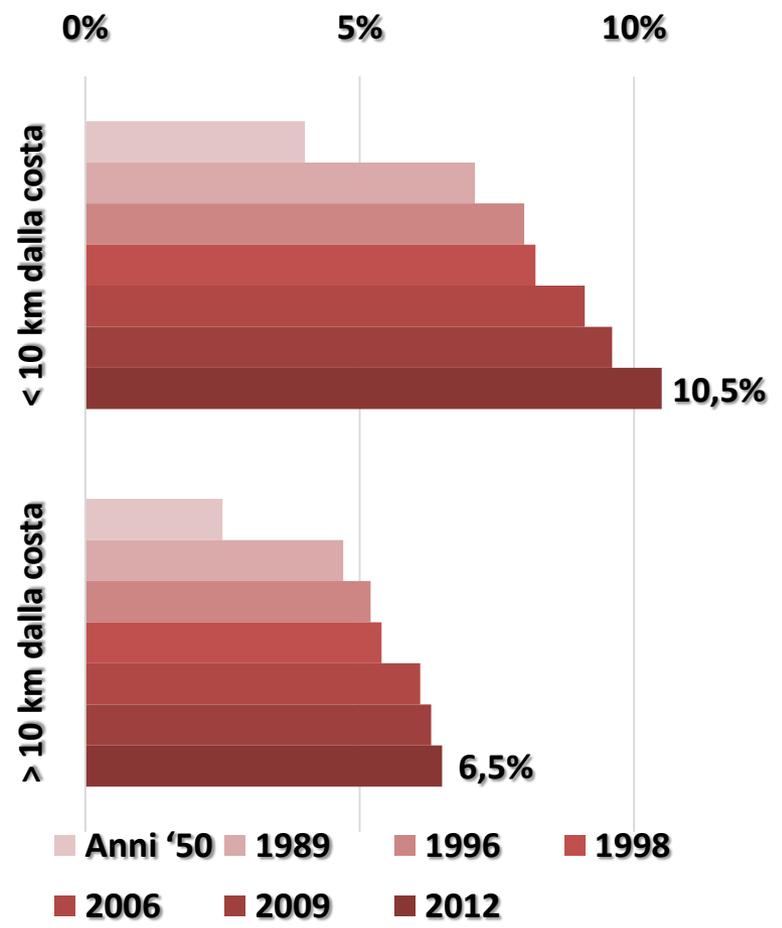
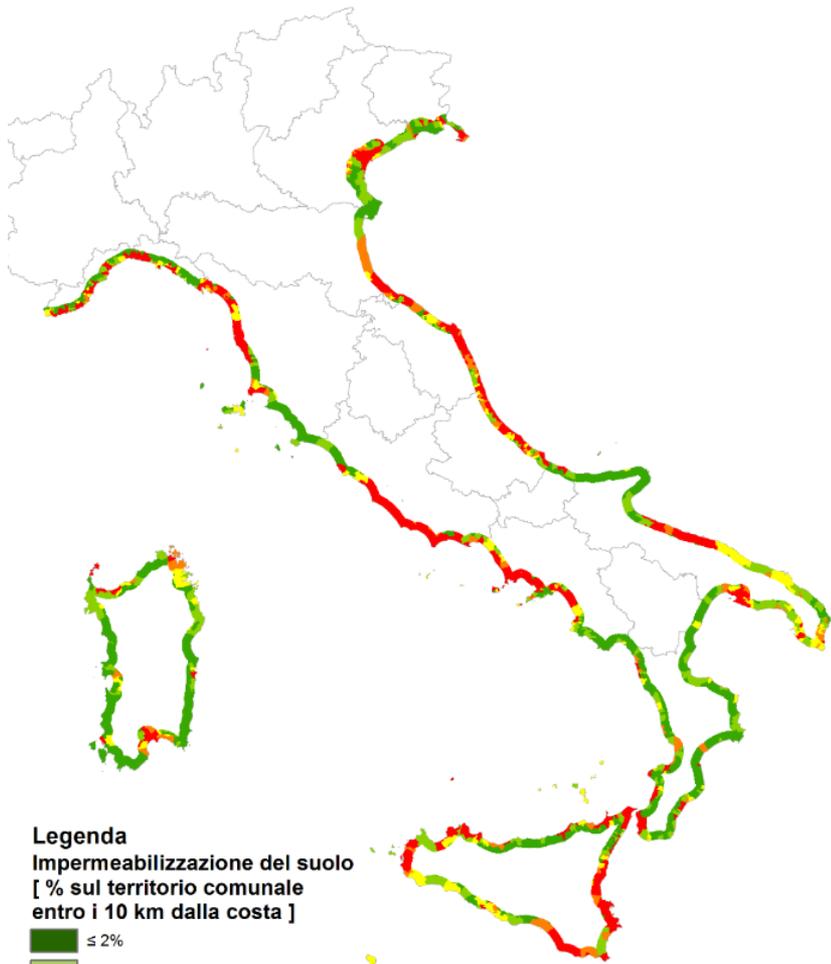


Le tipologie di consumo



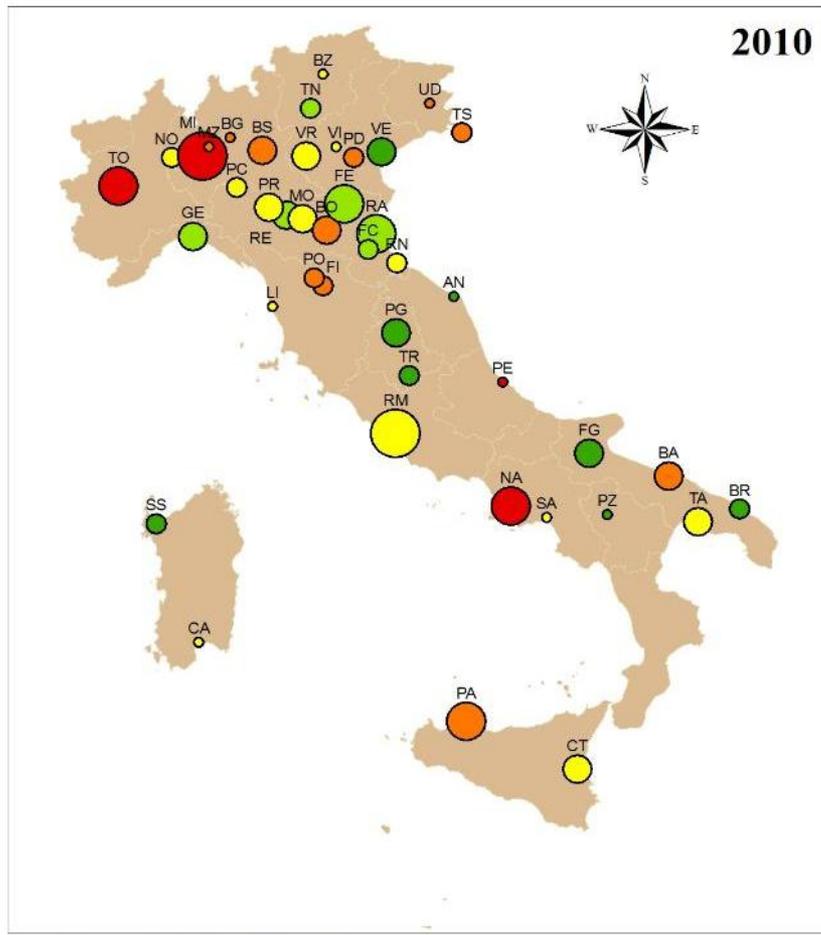
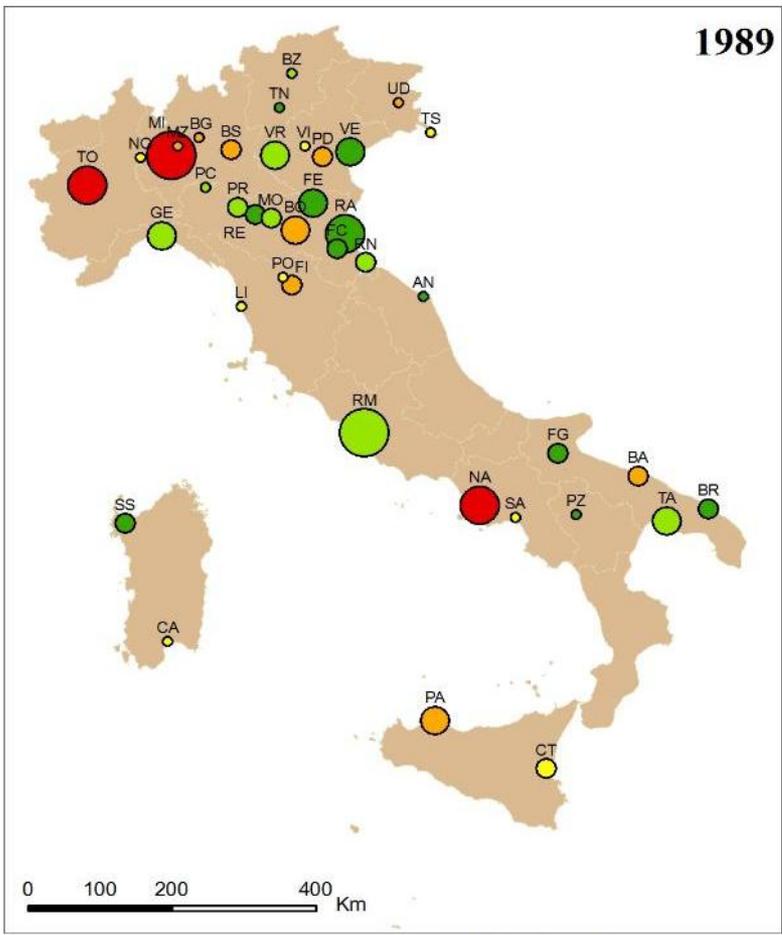


La fascia costiera





Consumo di suolo nei principali comuni italiani



Ettari di suolo consumato

○ <2500	○ 6000-10000
○ 2500-4000	○ >10000
○ 4000-6000	

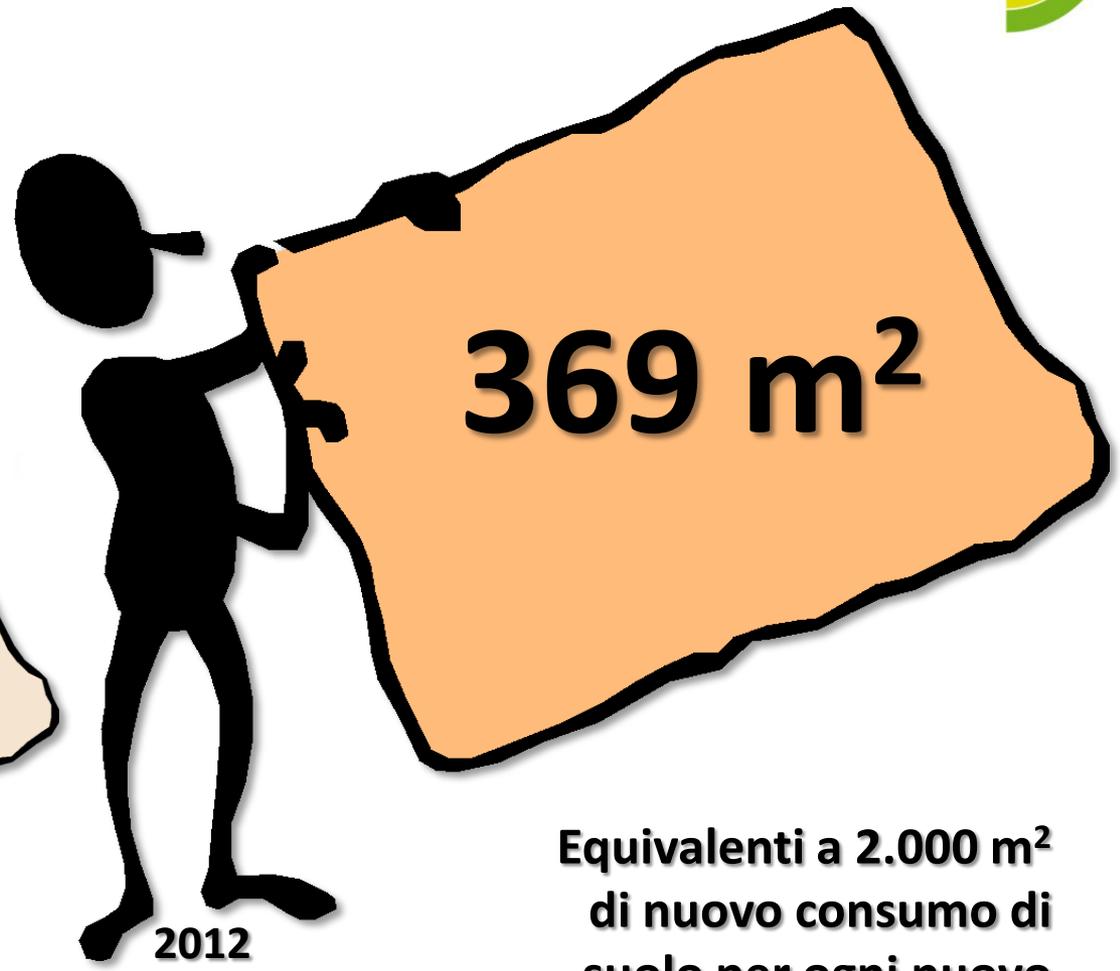
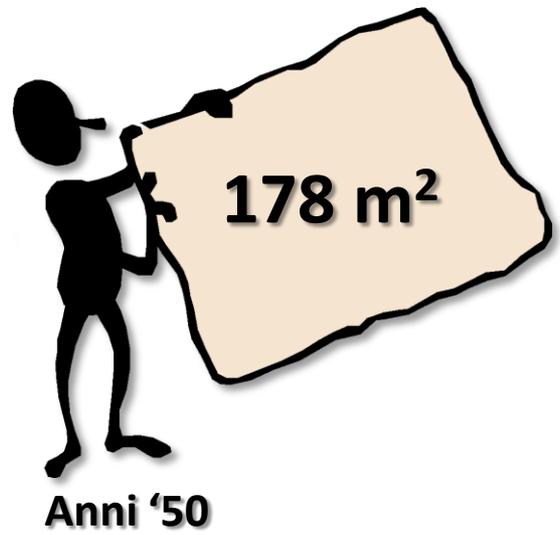
Percentuale di suolo consumato

■ <14	■ 20-30
■ 14-20	■ 30-50
■ >50	

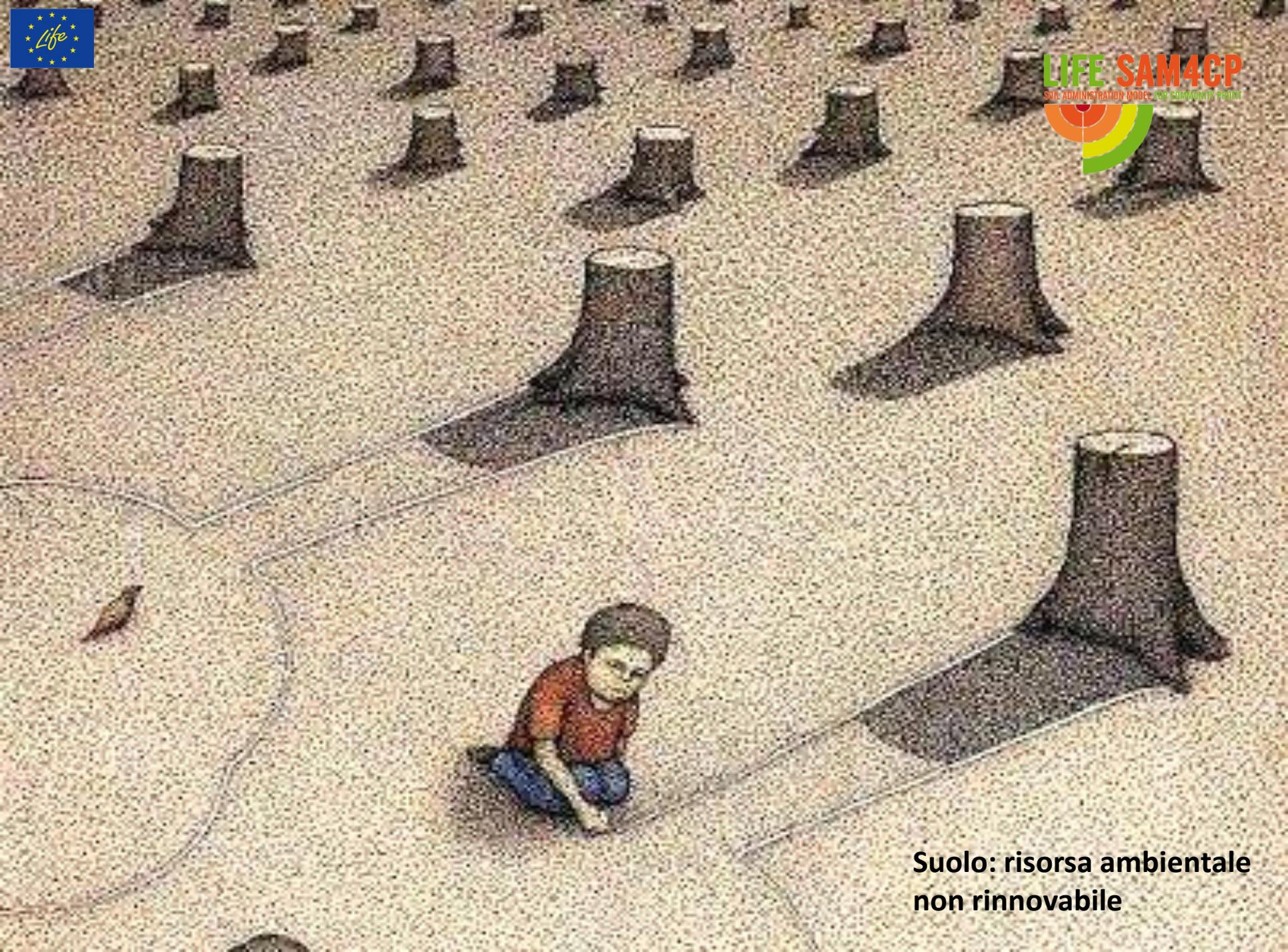
(ISPRA, 2013)



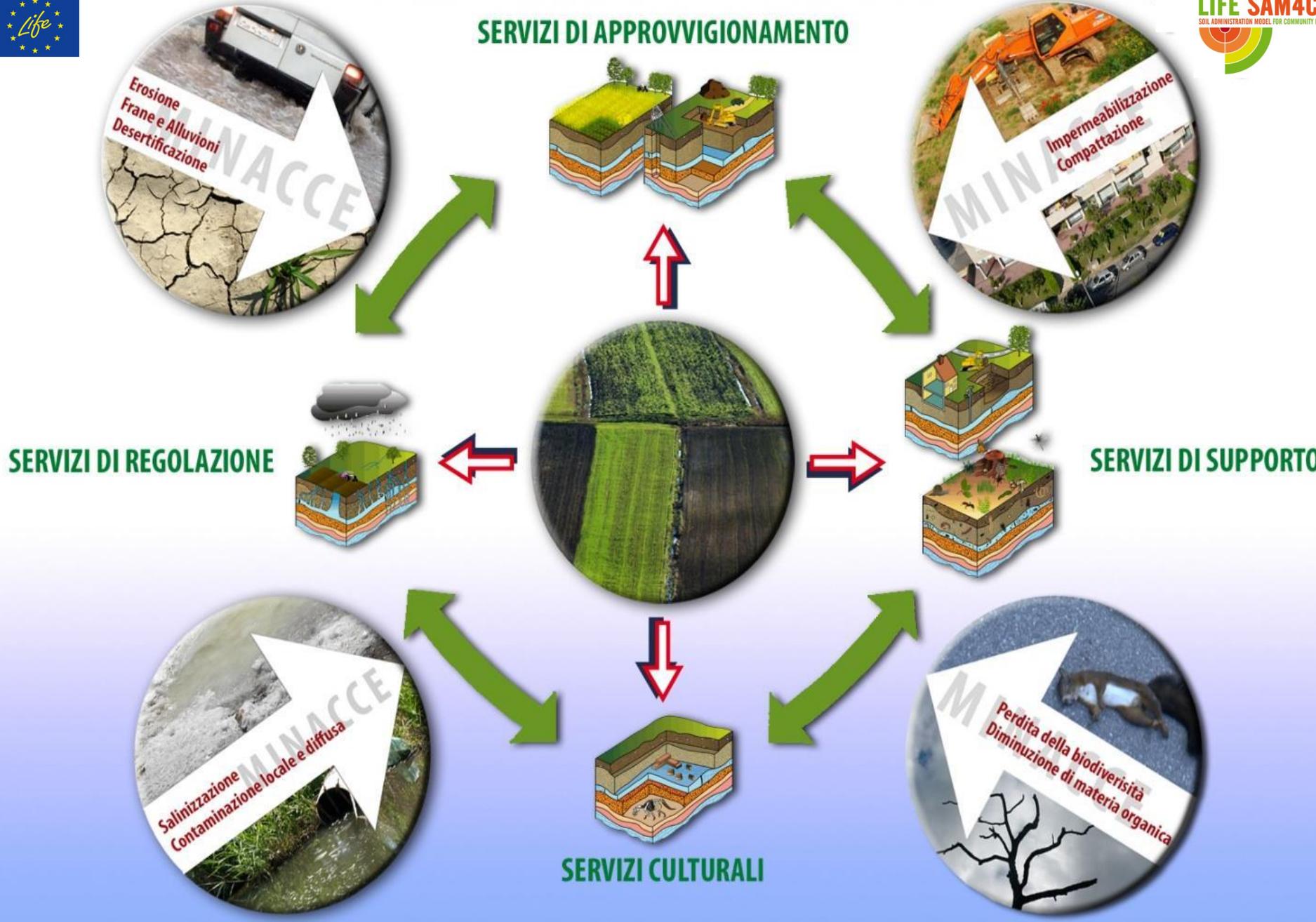
**Suolo
consumato
(perso)
procapite:**



**Equivalenti a 2.000 m²
di nuovo consumo di
suolo per ogni nuovo
abitante negli ultimi anni**



Suolo: risorsa ambientale non rinnovabile

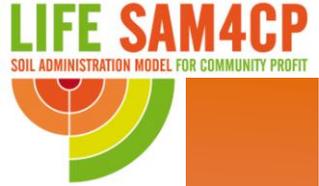


I servizi ecosistemici



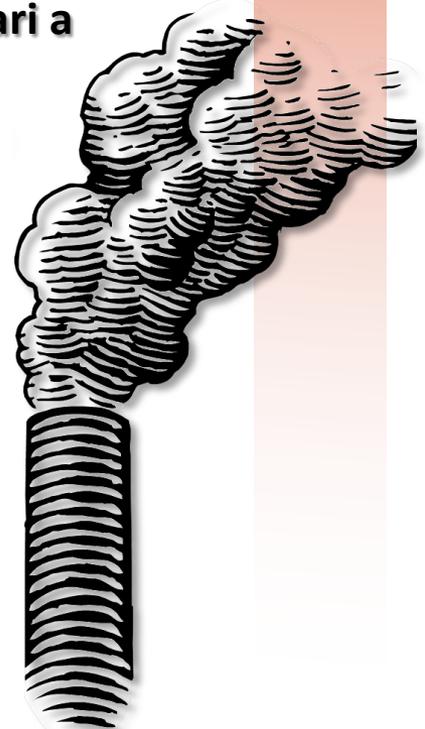


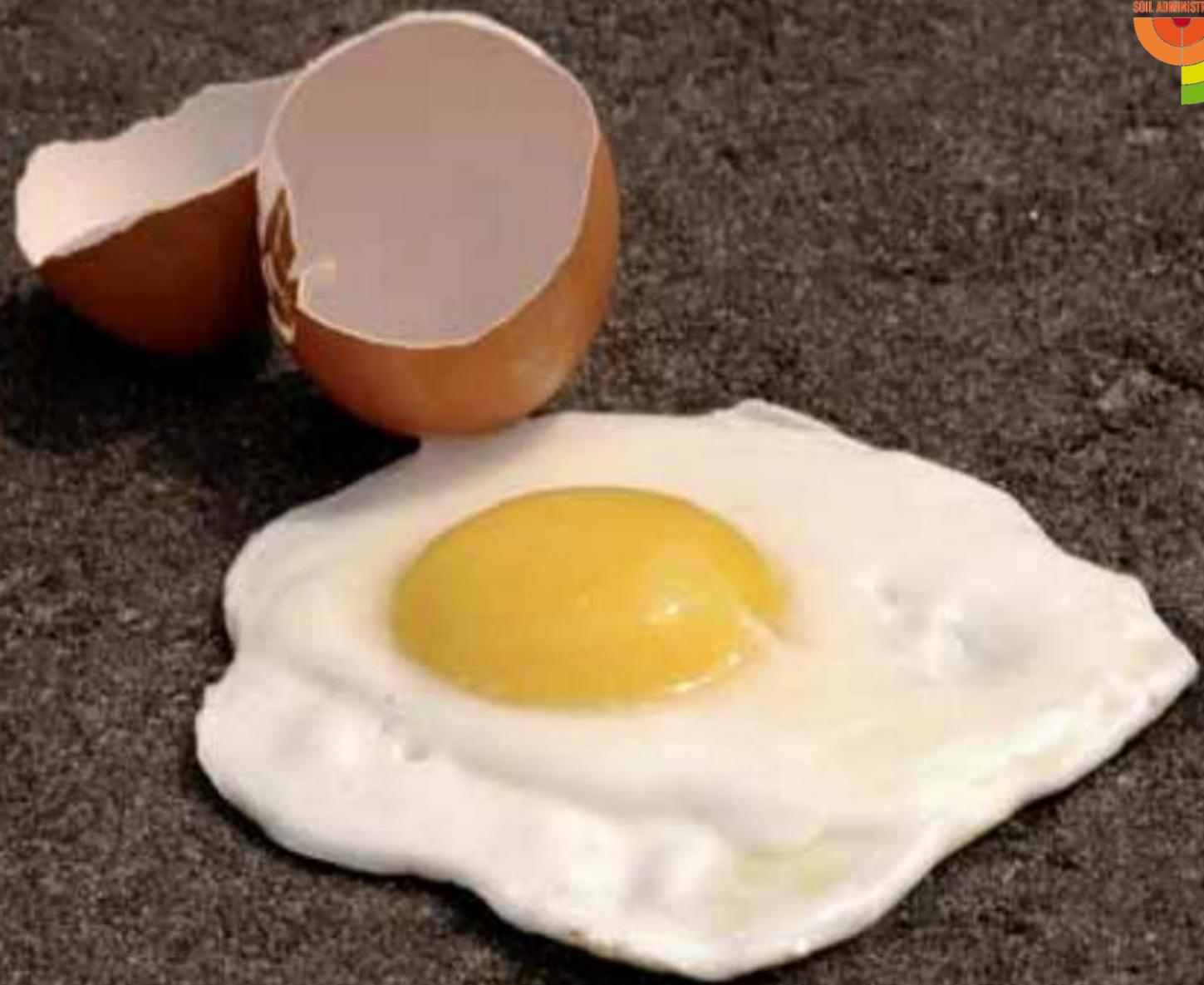
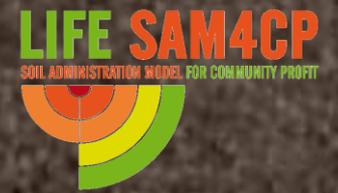
Il consumo di suolo in tre anni in Italia (2009-2012)

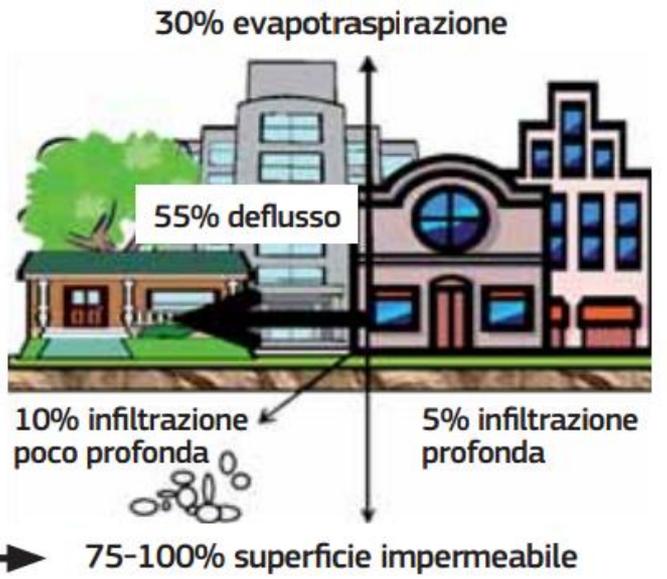
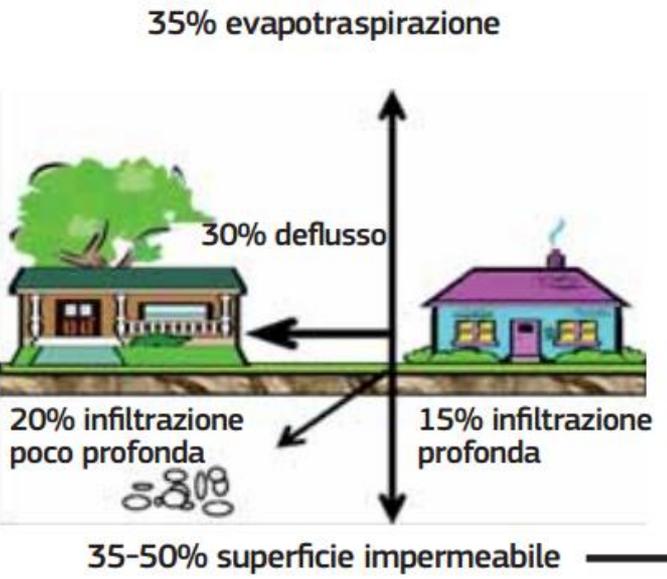
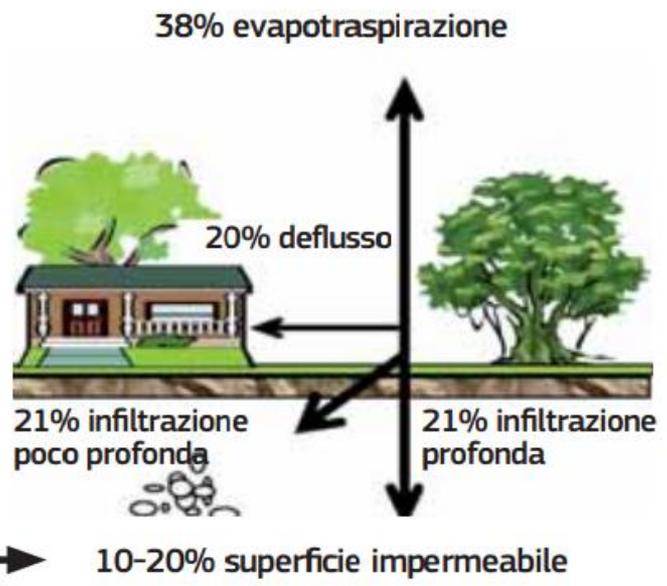
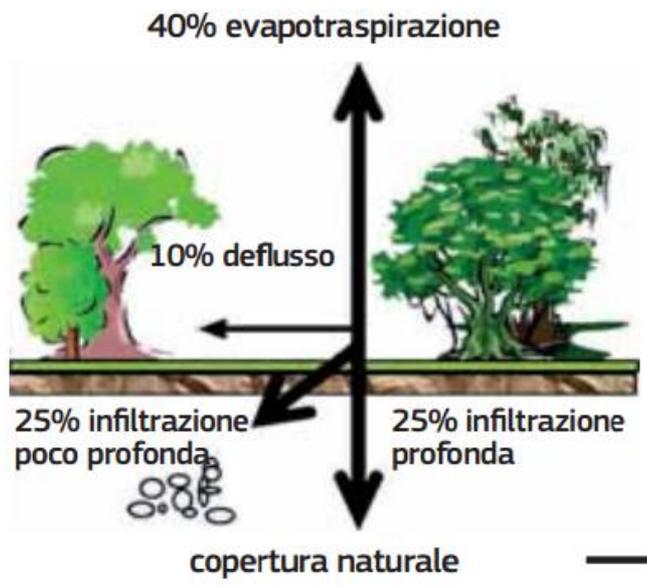


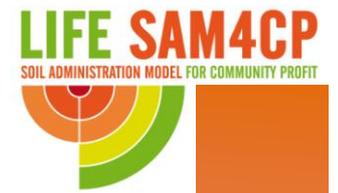
Riduzione dello stock
di carbonio nel suolo
6 milioni di
tonnellate, pari a una
emissione di CO₂ in
atmosfera
potenzialmente pari a
21 milioni di
tonnellate

È come se ci
fossero 4
milioni di auto
in più, l'11% dei
veicoli circolanti
nel 2012



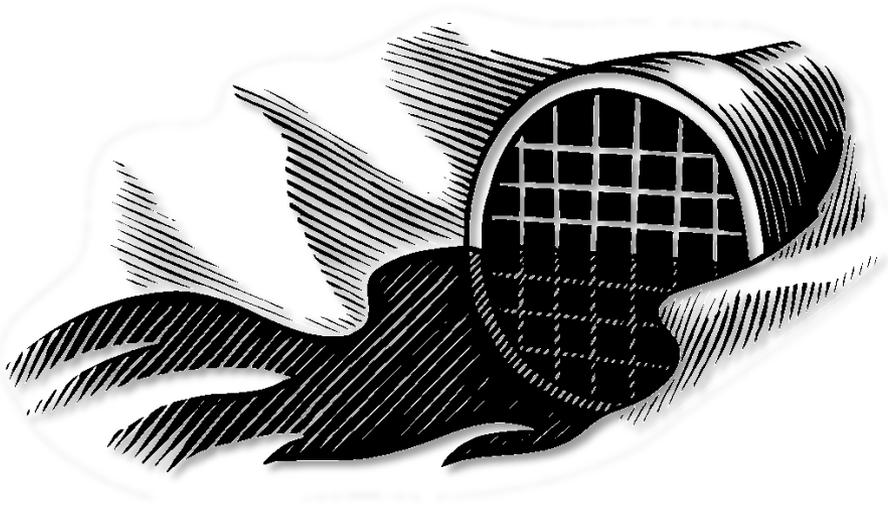






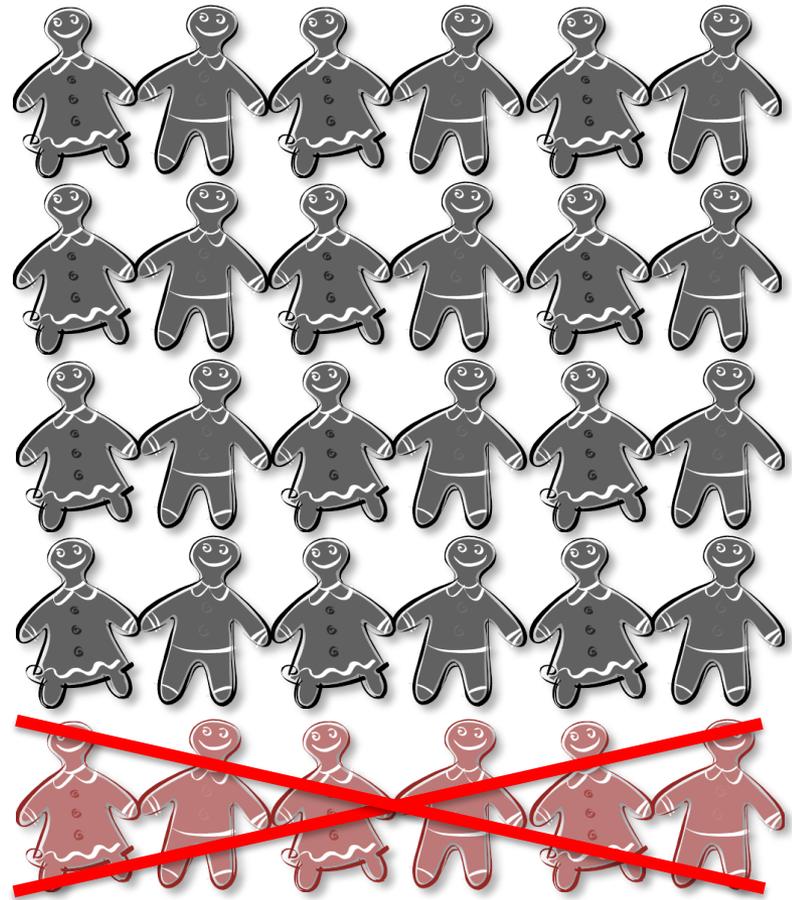
Il consumo di suolo in tre anni in Italia (2009-2012)

In Italia abbiamo perso una
capacità di ritenzione pari a
270 milioni di tonnellate
d'acqua





Il consumo di suolo in tre anni in Italia (2009-2012)



Fabbisogno di cibo per 500.000 persone

