

ECOSYSTEM BENEFITS OF URBAN TREES



TREE EFFECT



T_hermal (temperature reduction)

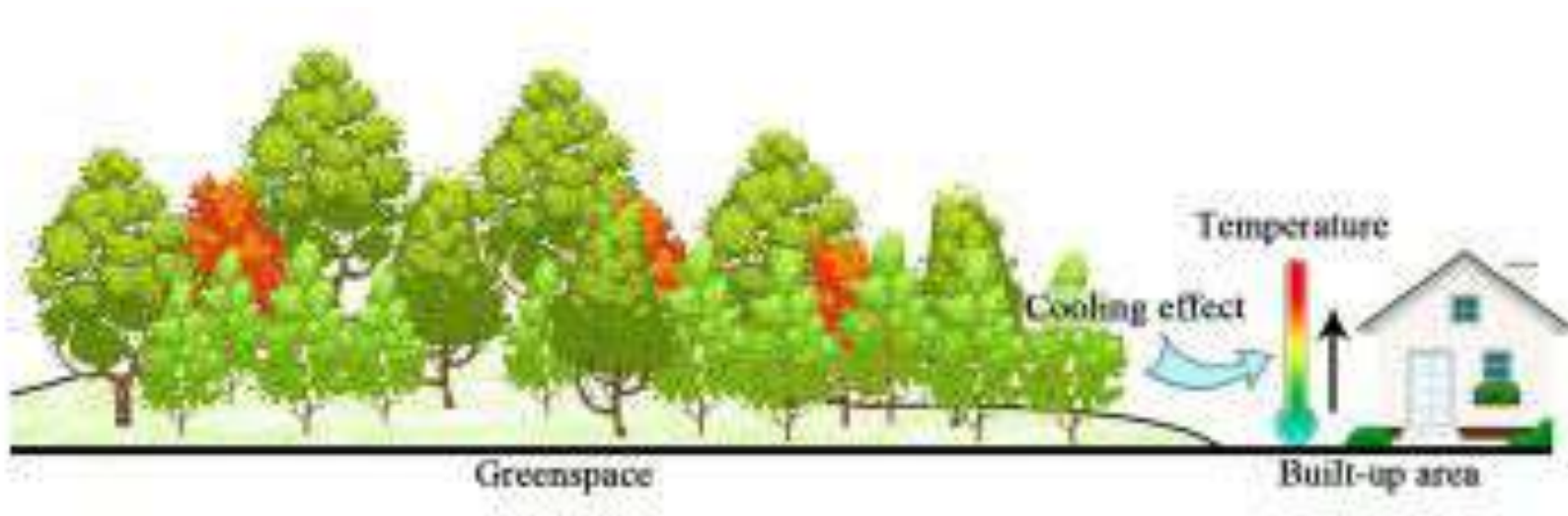
R_emoval of pollutants

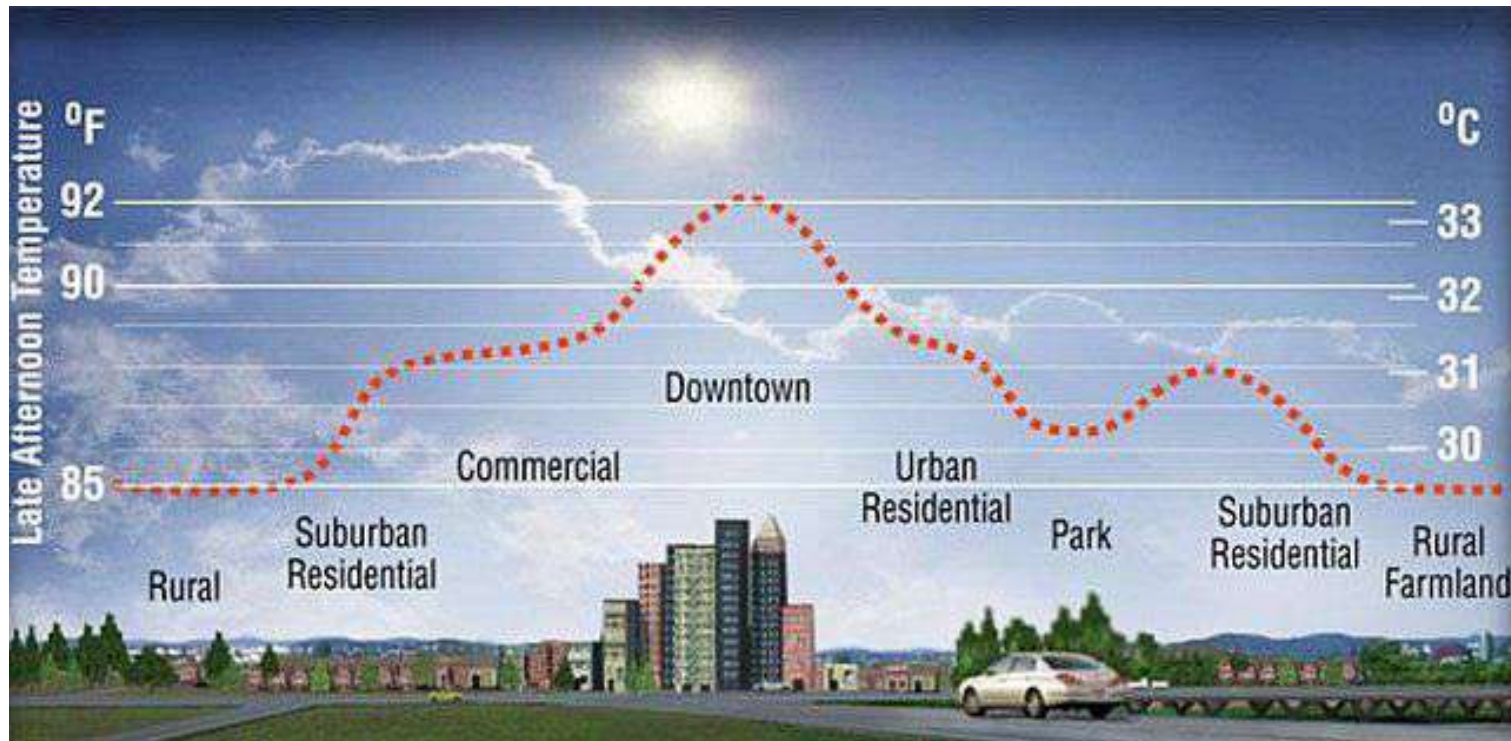
E_mission of BVOCs

E_nergetic and healthy



THERMAL BENEFITS

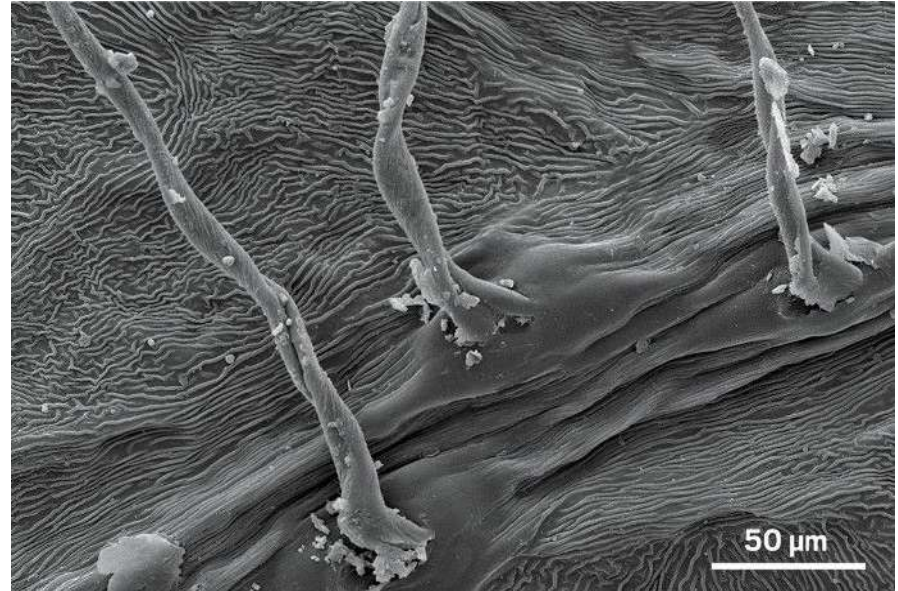
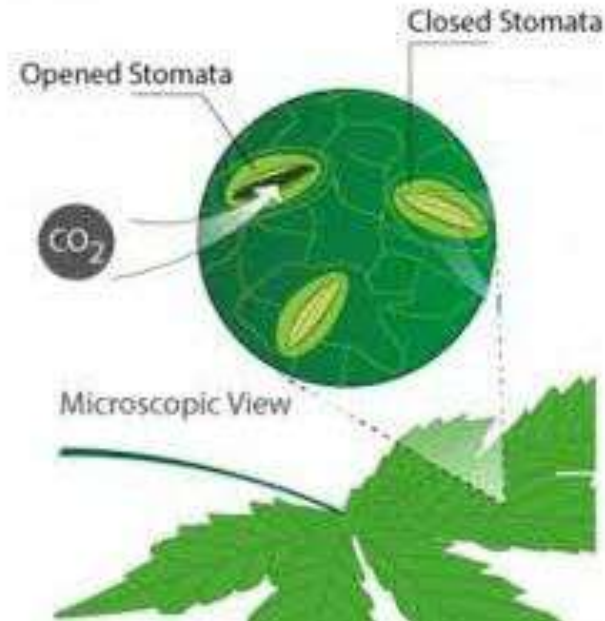




Temperature difference between city and countryside



REMOVAL OF POLLUTANTS



EMISSION OF BVOCs



BVOCs (Biogenic Volatile Organic Compounds) BVOC are emitted by plants for protection against diverse abiotic and biotic stresses, like high temperature, herbivores enemies, insects...

BVOC emission from urban forest species

Species	Isoprene Emission	Monoterpene Emission
<i>Acer sp.</i>	*	Low
<i>Cupressus sempervirens</i>	*	*
<i>Eucalyptus sp.</i>	High	Medium
<i>Juniperus sp.</i>	*	Low
<i>Laurus nobilis</i>	*	*
<i>Olea europea</i>	*	*
<i>Quercus pubescens</i>	High	*
<i>Quercus cerris</i>	*	*
<i>Quercus ilex</i>	*	High
<i>Quercus suber</i>	*	Medium
<i>Pinus pinea</i>	*	Medium
<i>Pinus halepensis</i>	*	Low
<i>Platanus x acerifolia</i>	Medium	*
<i>Robinia pseudoacacia</i>	Medium	*
<i>Tilia cordata</i>	*	*
<i>Ulmus minor</i>	*	*

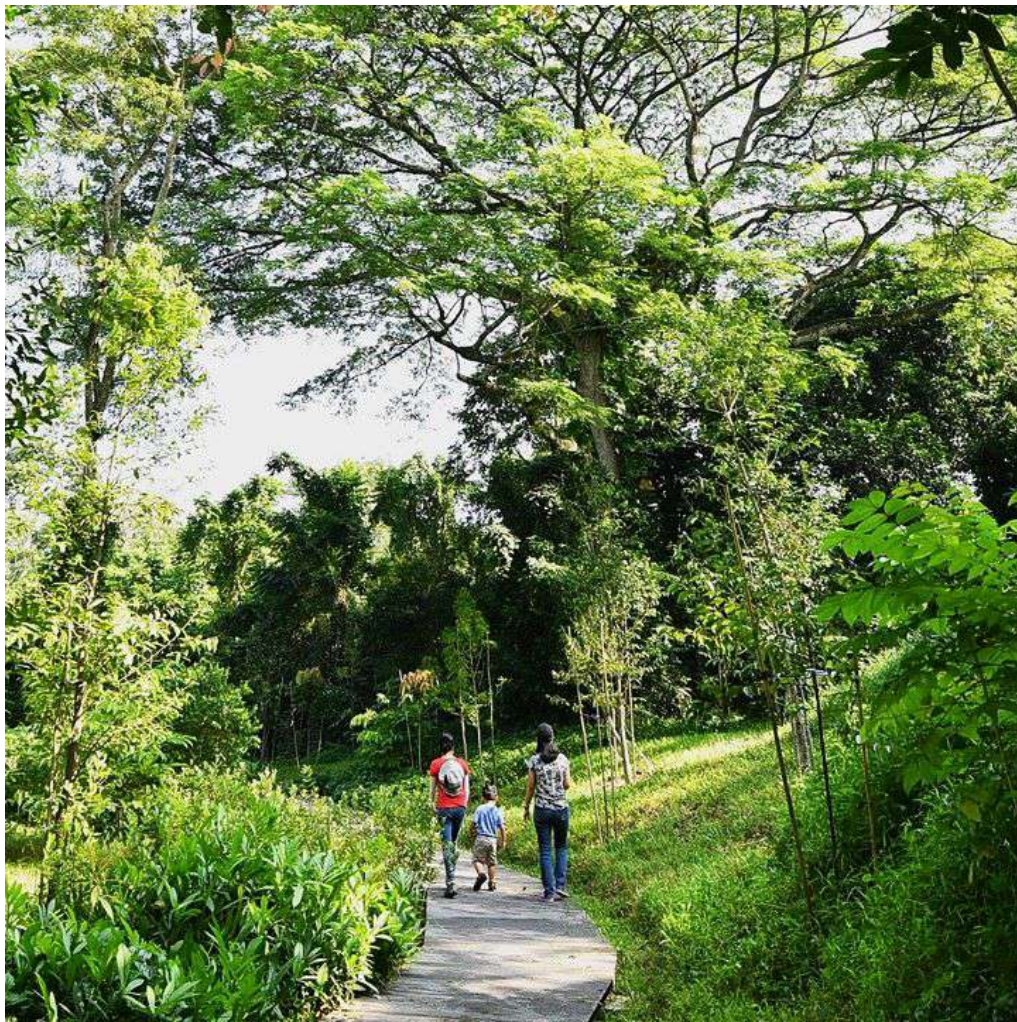


ENERGETIC AND HEALTHY



Living near busy streets
increases the risk of disease.





It's essential to design our cities considering the importance of having the highest number of trees possible.





One generation plants the trees
The other enjoys the shade

