

#### Urban Ecosystems & Greening Environmental Services

- Air pollutants reduction
- Nitrogen, phosphorus and sediment interception
- Carbon emissions reduction & sequestration
- Urban heat-island cooling
- Reduced "bad" ozone
- Stormwater runoff reduction
- Wildlife habitat

# **Urban Ecosystems & Greening Community Economics**

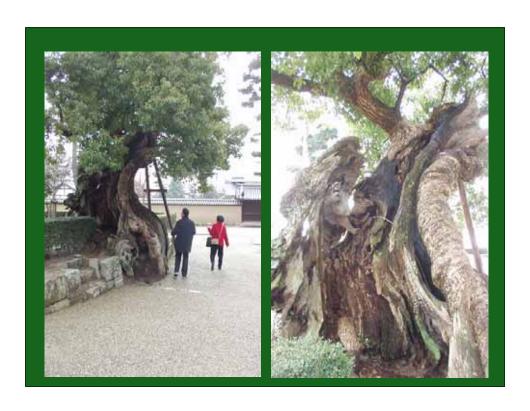
- Improved consumer environments in business districts 9-12% product spending
- Residential real estate values -3-7% with trees in yard
- Residential real estate values -5-20%, proximity to natural open space
- Commercial property rental rates 7%
- Air pollution mitigation
- Heating and cooling costs reductions
- Less frequent pavement replacement



Most cherished in this mundane world is a place without traffic; truly in the midst of a city there can be mountain and forest.

Wen Zhengming (1470-1559)







## Urban Ecosystems & Greening Human Health & Well-Being

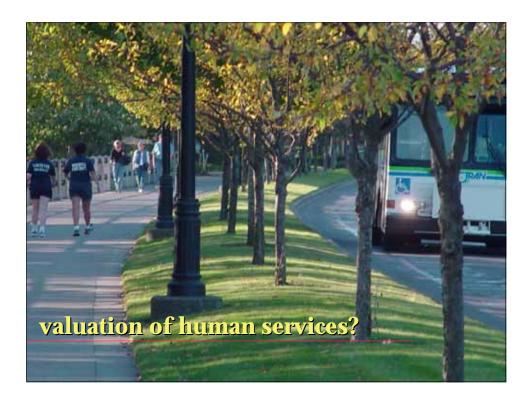
- Improved surgery and illness recovery
- Stress reduction in urban lifestyles
- Reduced driving stress response & frustration
- Improved community walkability, lower BMI

"Human Services"

### **Urban Ecosystems & Greening Human Cognition & Functioning**

- Higher job satisfaction, reduced absenteeism
- Lower crime rates in well landscaped areas
- Reduced violence and more constructive conflict resolution in domestic conflict
- Reduced ADHD symptoms

"Human Services"



#### Putting a price on nature is a crude, risky business



By FROMA HARROP

would you put on the beautiful, musical and now estinct ivory-billed wood-pecker? Of course, the entire gross planetary product could not bring the bird back. It's gone. But suppose you could fly the time machine back 60 years to the shrinking Southern swamps, where the last pairs were seen. Ard

for the blue whale. Gene-splic remains in its infancy. Likewise, our minds cann potential for new pharmacer on living organisms. Right no percent of the prescription of the United States are derive species of plants, animals and isms. The value of over-the-c based on plants alone totale

... about 40 percent of the wild species there, muc prescription drugs sold in

