

A new approach, balancing

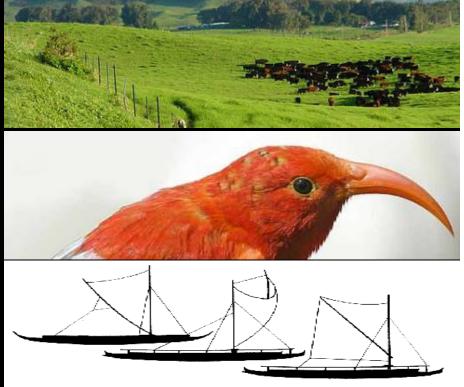
Economic value

Environmental value

Cultural value

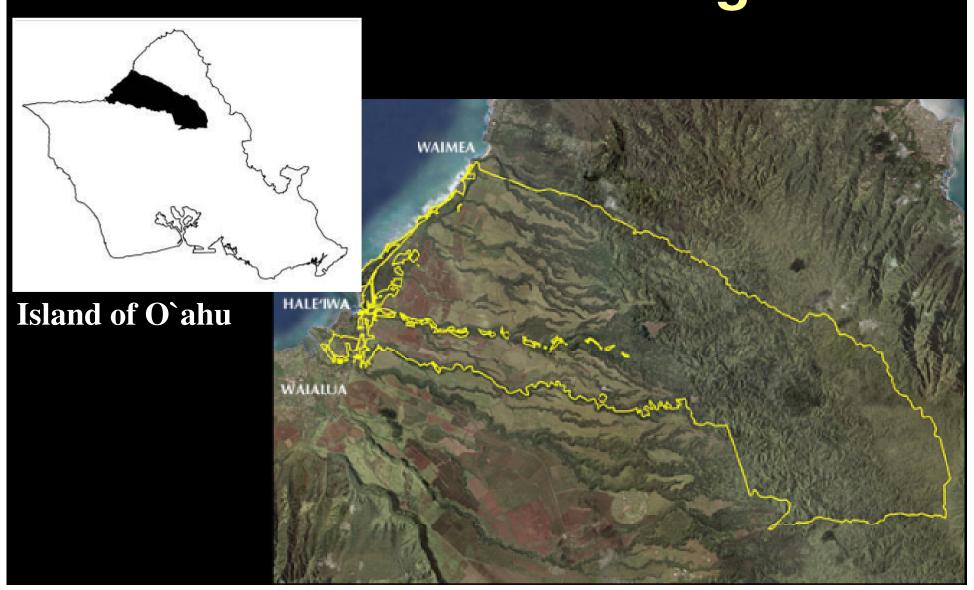
Educational value

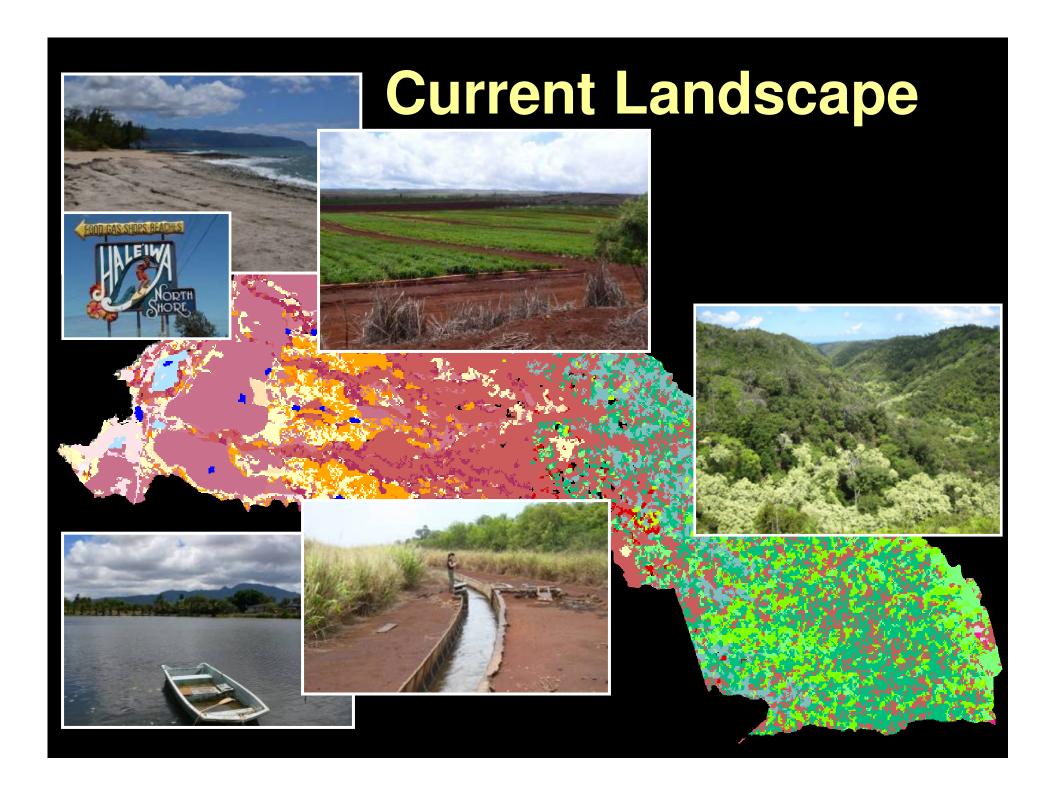
Community value



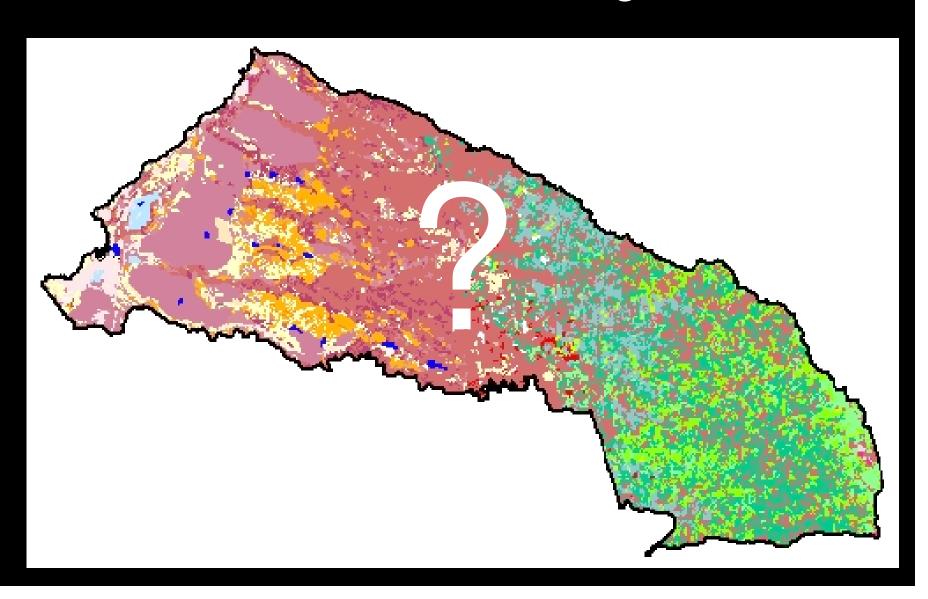


Kamehameha Schools Land Use Planning



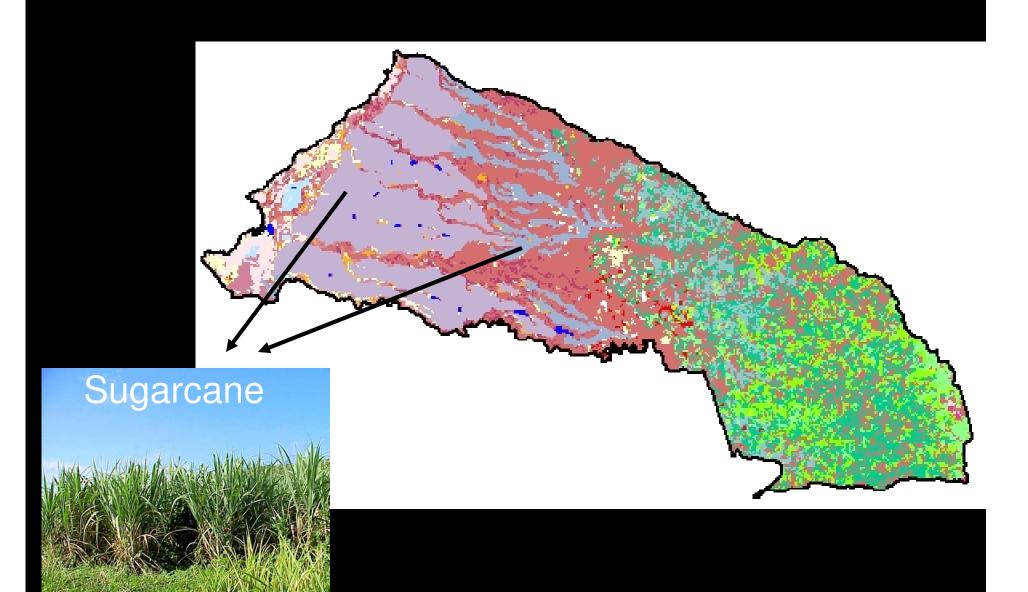


But, what should this landscape look like in the future to balance these goals?

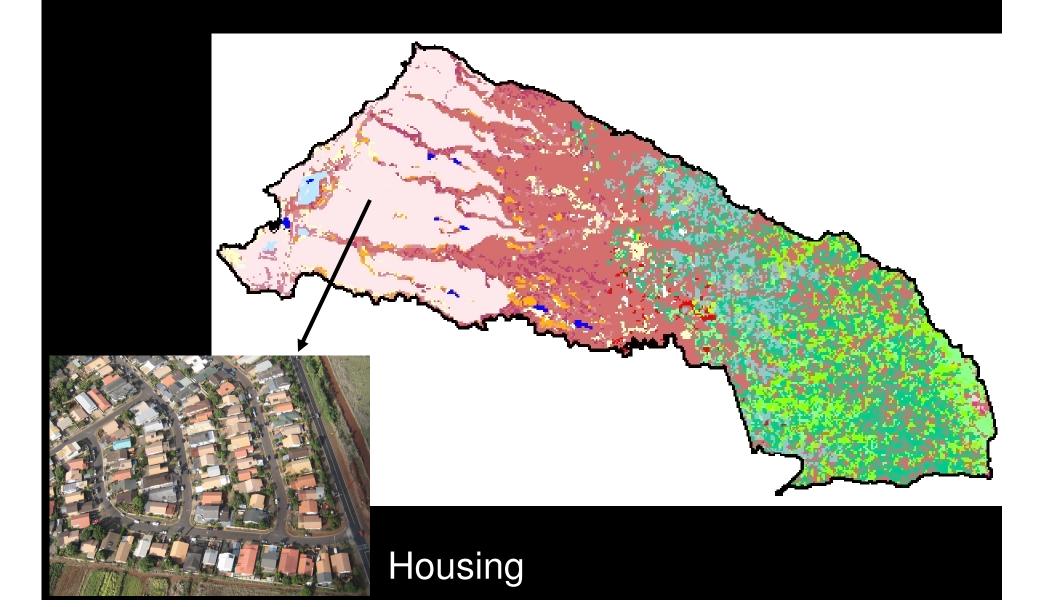




Growing a biofuels feedstock



Expanding residential development



Diversified agriculture & forestry **Reforestation** Food crops for local markets

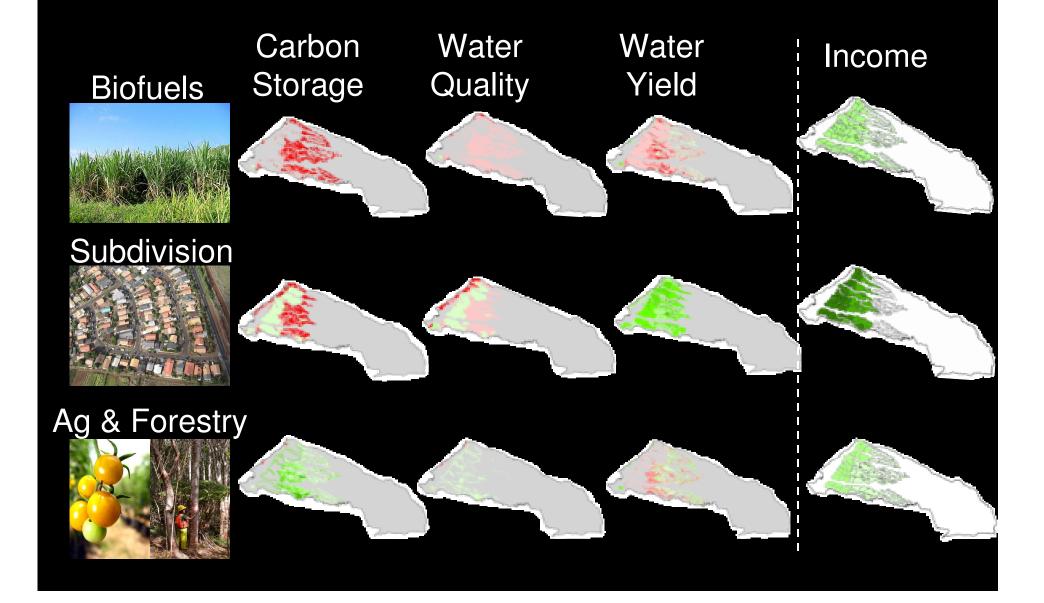
Questions for InVEST

What is the flow of ecosystem services on today's landscape?

How might these service flows change in the future?



Changes in Ecosystem Services



Changes in Ecosystem Services

Carbon Income Water Water Storage Quality Yield Biofuels **Scenarios**Subdivision B Agriculture & Forestry



Diversified agriculture & forestry ~ the desired balance, with income, climate control and clean water benefits.

State Climate & ES Policy



Water Funds in L. America



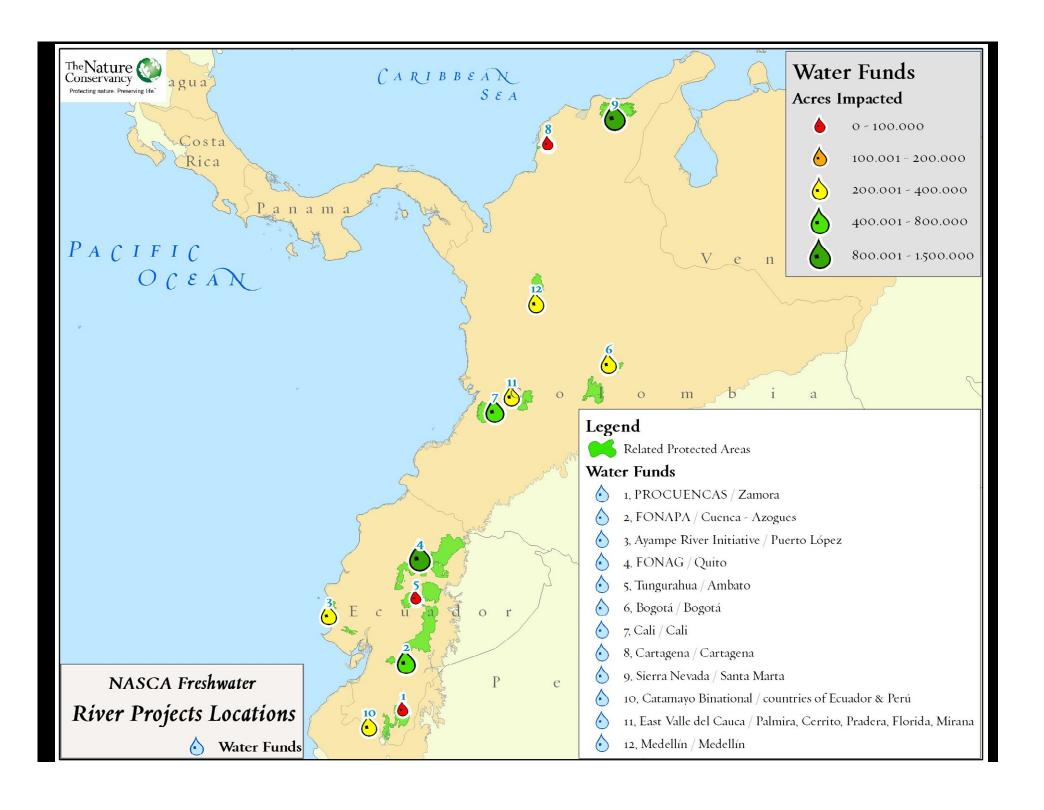


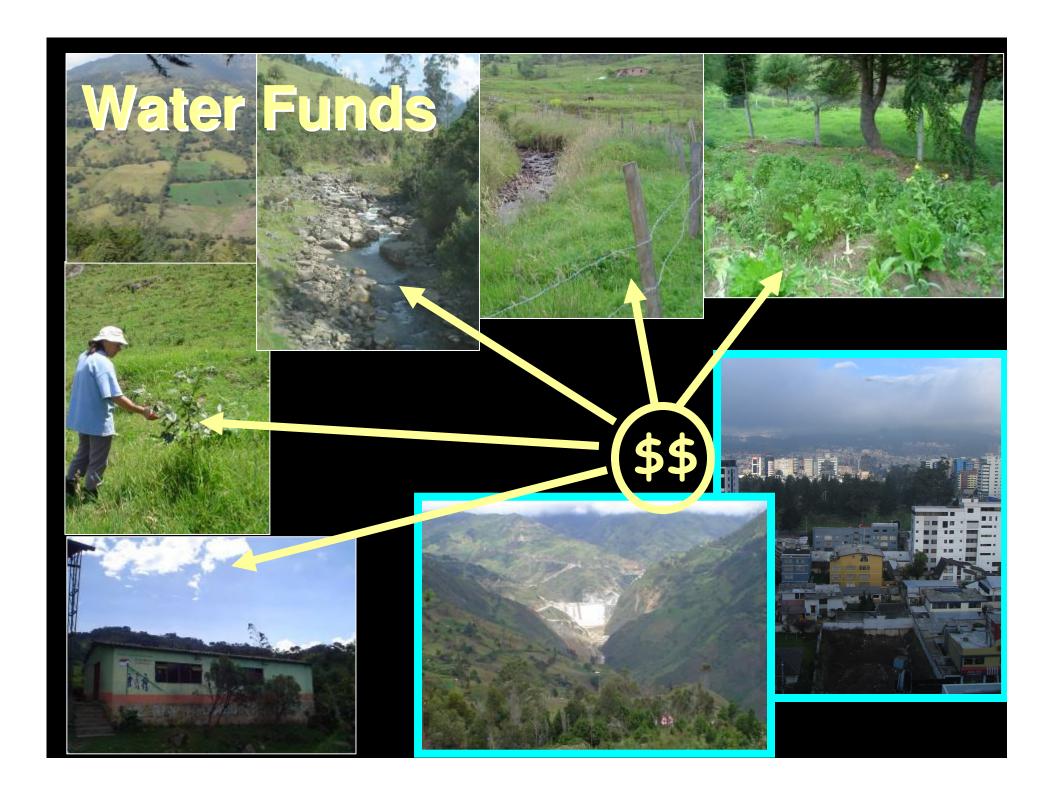




Replicate & scale water funds

- 1. New finance & policy mechanisms
- 2. Targeting of activities



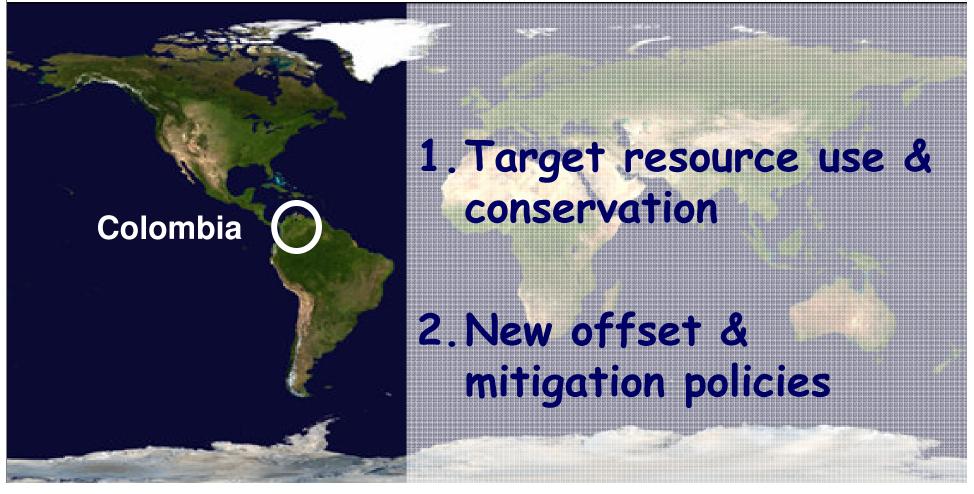


Resource Licensing









Colombia's Ministry of the Environment

mining



agriculture



transportation



and other major sectors.

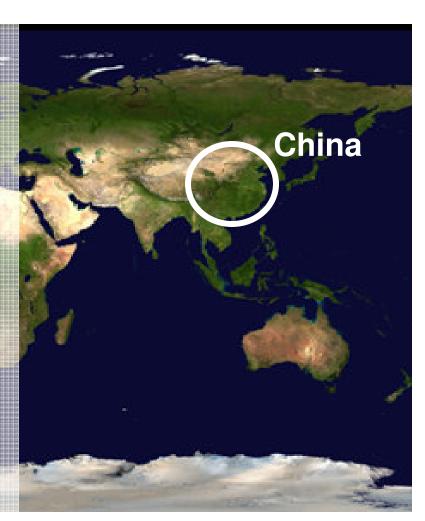
Land Use Decisions in China

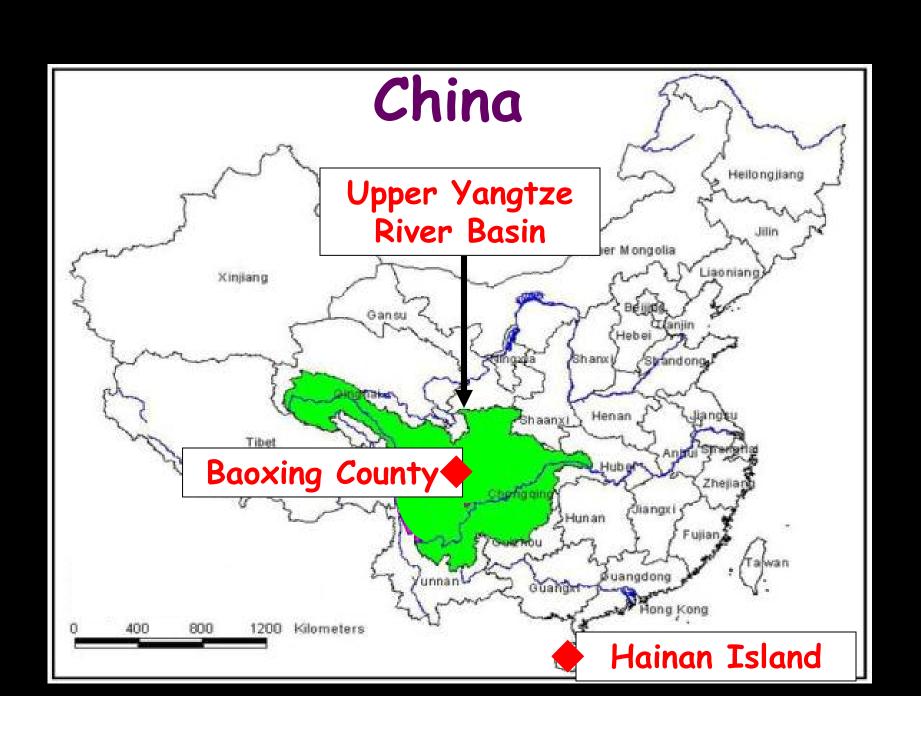






- 1. Delineate Ecosystem
 Function Conservation
 Areas
- 2. Embed InVEST in Master Planning
- 3. Evaluate policy interventions

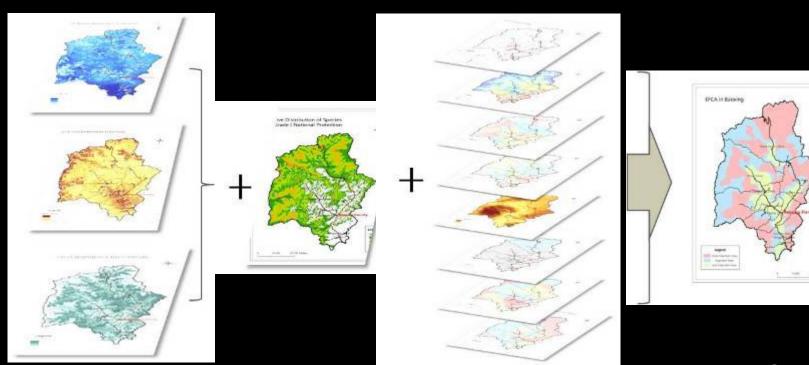




Baoxing County



Baoxing EFCA Mapping with InVEST



PRODUCTION:

- -Water Retention
- Soil Retention
- Carbon Storage
- Biodiversity

DEMAND:

Hydropower

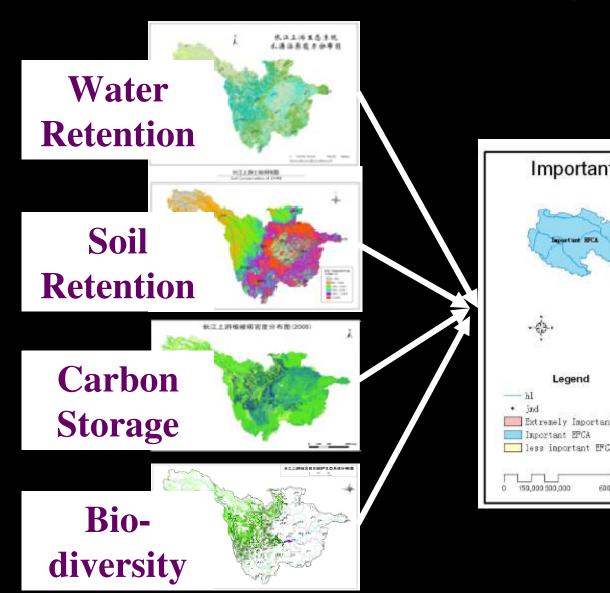
Flood Mitigation

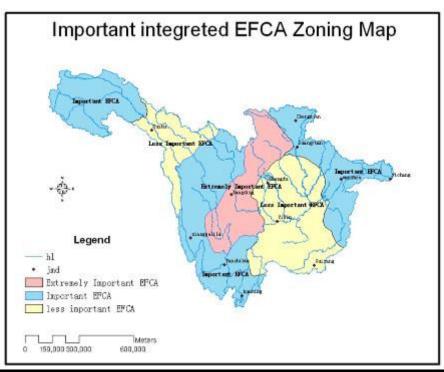
Irrigation

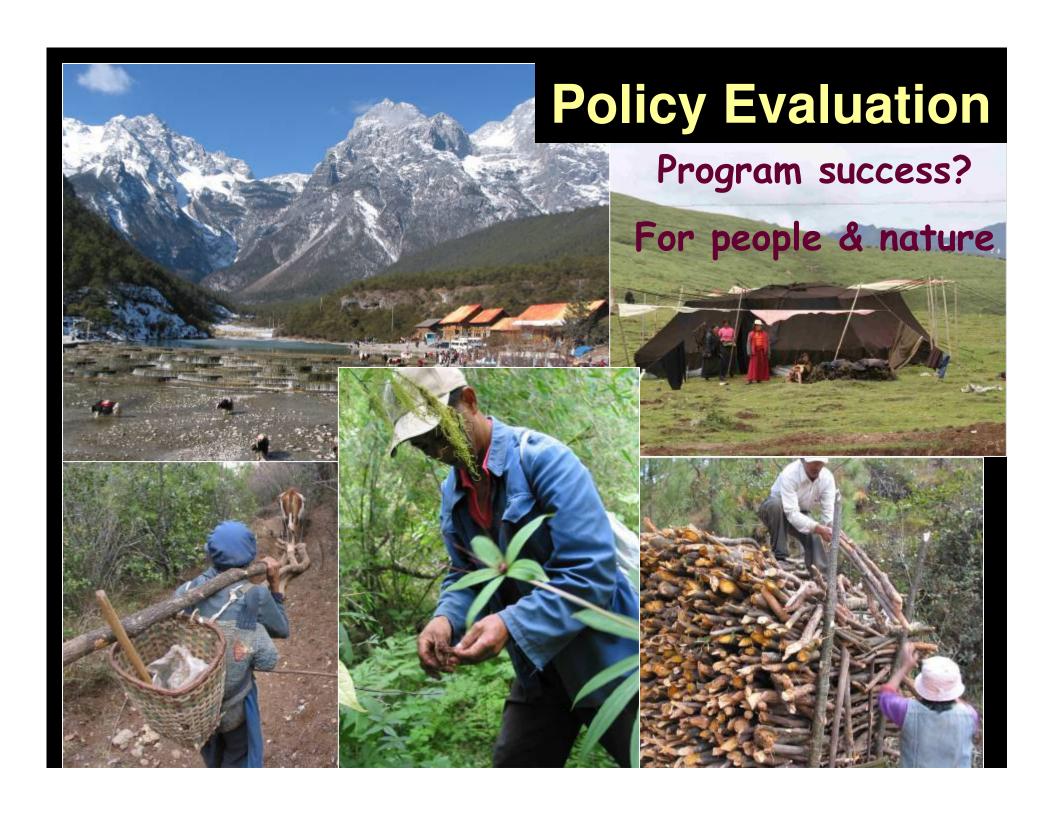
Agriculture, Mining

Draft EFCA Map

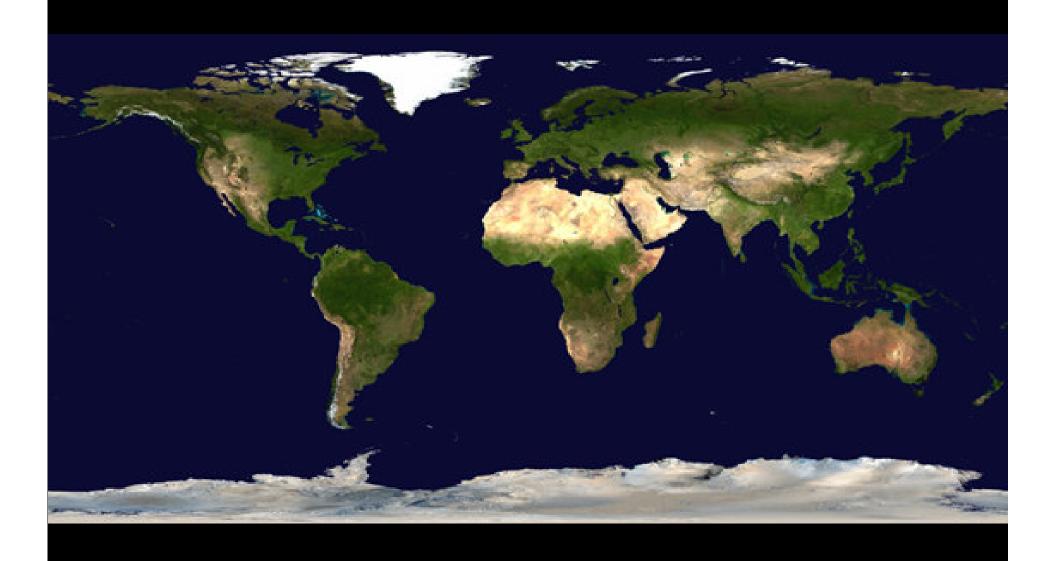
Upper Yangtze EFCA Mapping with InVEST

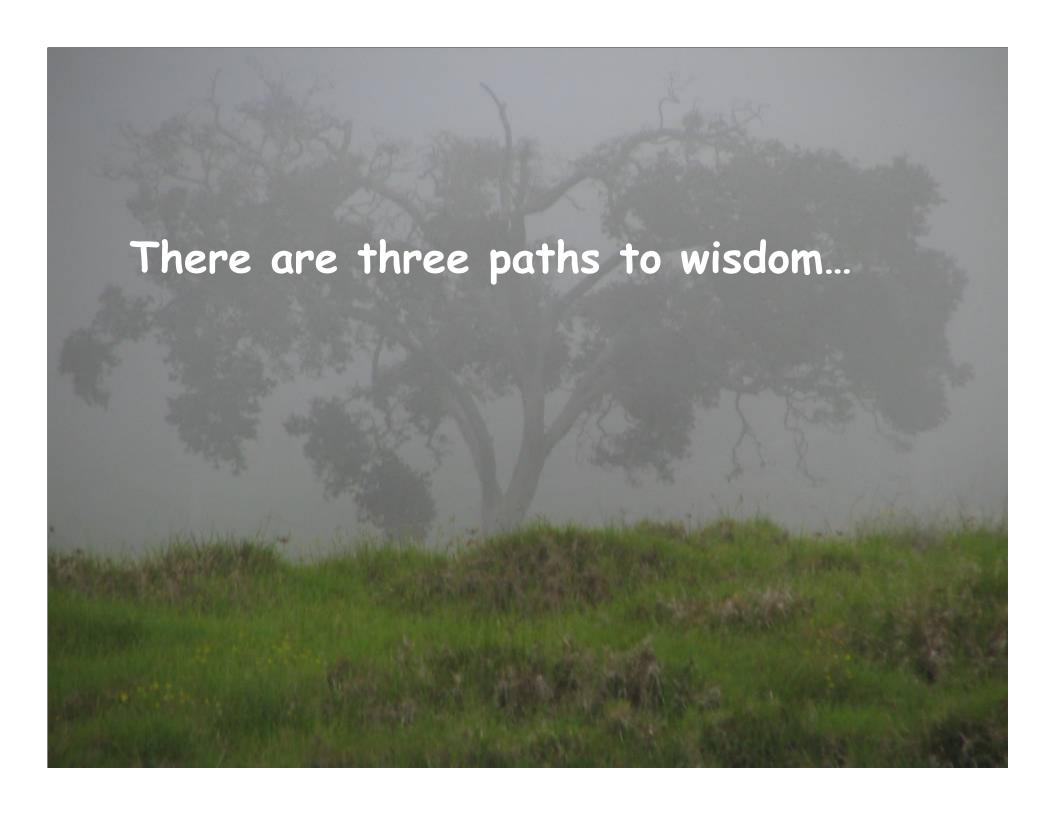


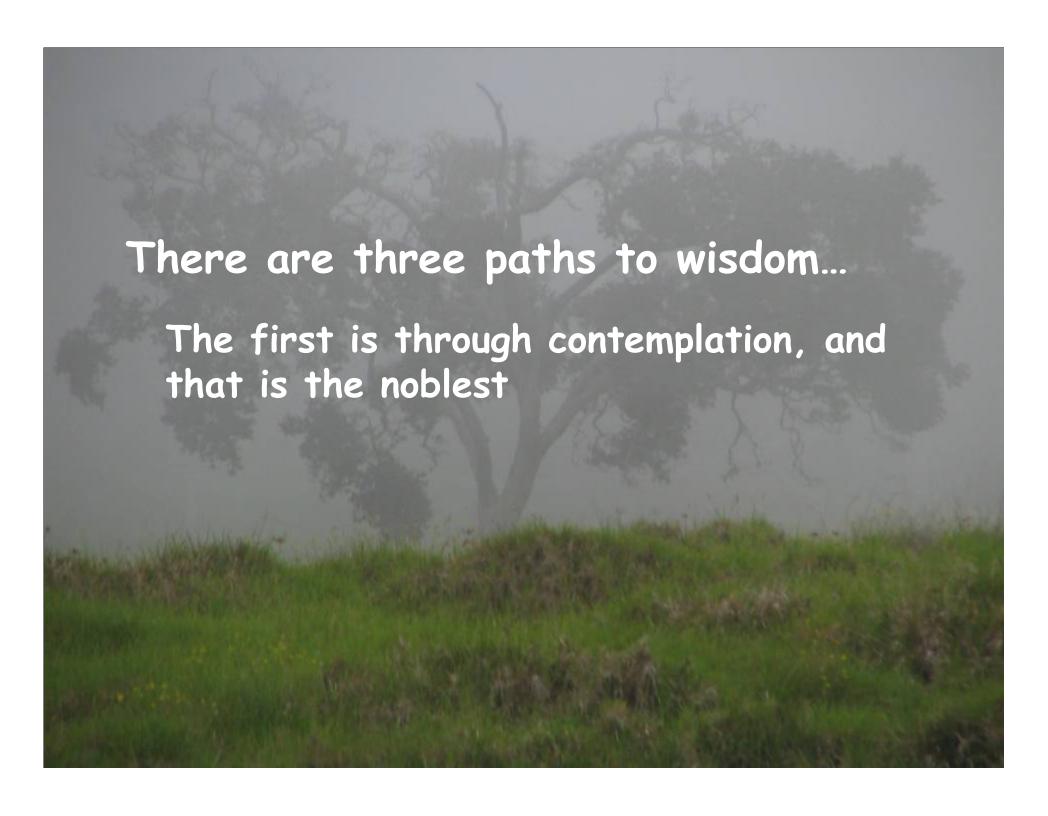




Looking ahead...







There are three paths to wisdom...

The first is through contemplation, and that is the noblest

The second is through imitation, and that is the easiest

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The first is through contemplation, and that is the noblest

The second is through imitation, and that is the easiest

The third is through experience, and that is the bitterest





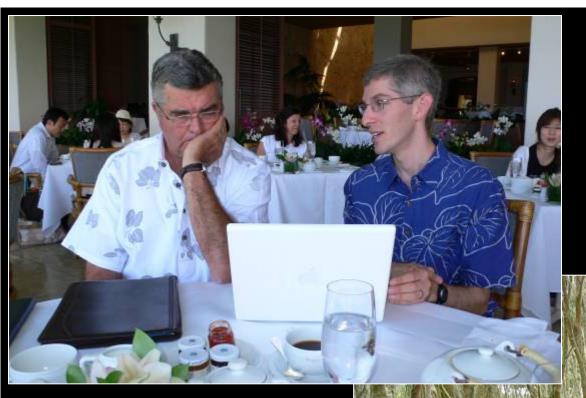


Driving Science Innovation



Practical Tools for Moving from Knowledge to Action





Engaging Leaders



Quito Water Fund

Activities

- 65 jobs
- 3,500,000 trees planted
- Environmental education for 42,000 children
- Capacity building
- Monitoring and modeling

Who Pays?

- Hydropower electricity firm
- Andina Beer Co.
- Municipal water supplier
- Quito residents
- Current value USD\$ 4.9 mil

New Water Funds



Looking ahead

- Great potential for ecosystem service approaches to harmonize nature & people
- · Work underway: poverty alleviation, health
- New frontiers: institutional design to ensure benefits for nature and people