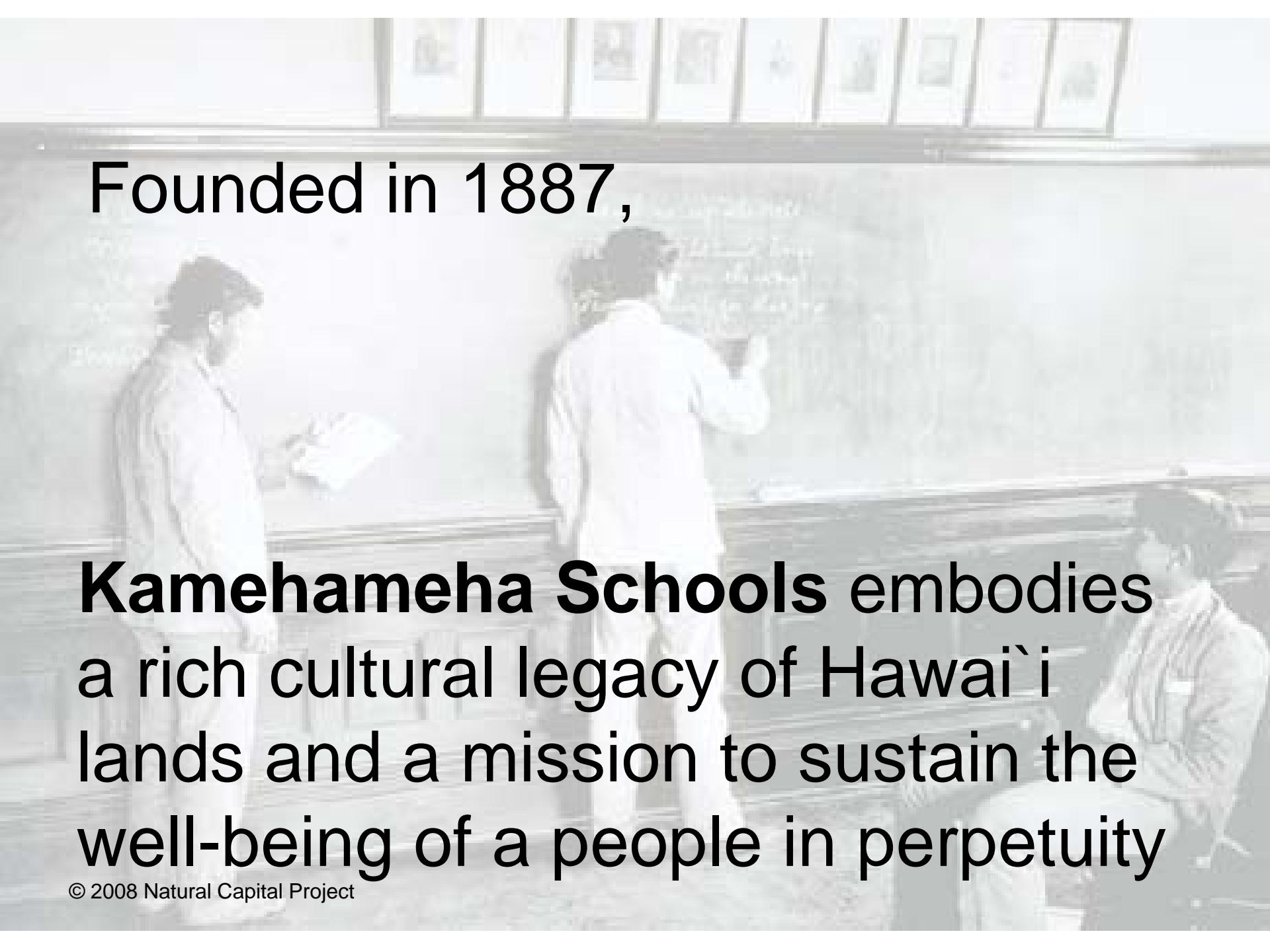




# InVESTing in Hawai'i's Natural Capital



Founded in 1887,

**Kamehameha Schools** embodies  
a rich cultural legacy of Hawai`i  
lands and a mission to sustain the  
well-being of a people in perpetuity



Today,  
they educate 38,000  
students each year

And,  
they are the state's *largest*  
private landowner



The background image is an aerial photograph of Waikiki Beach in Honolulu, Hawaii. It shows the dense urban skyline of Waikiki, with numerous high-rise buildings and hotels, stretching along the coastline. Behind the city, a range of green, forested mountains rises towards the horizon. The ocean in the foreground is a vibrant turquoise color.

Kamehameha Schools owns 8%  
of the land in Hawai`i

TNC Hawai`i has  
protected 200,000 acres  
of land.

Hawai`i



Kamehameha Schools' holdings  
are nearly double that.

All of their land is  
shown here, in blue





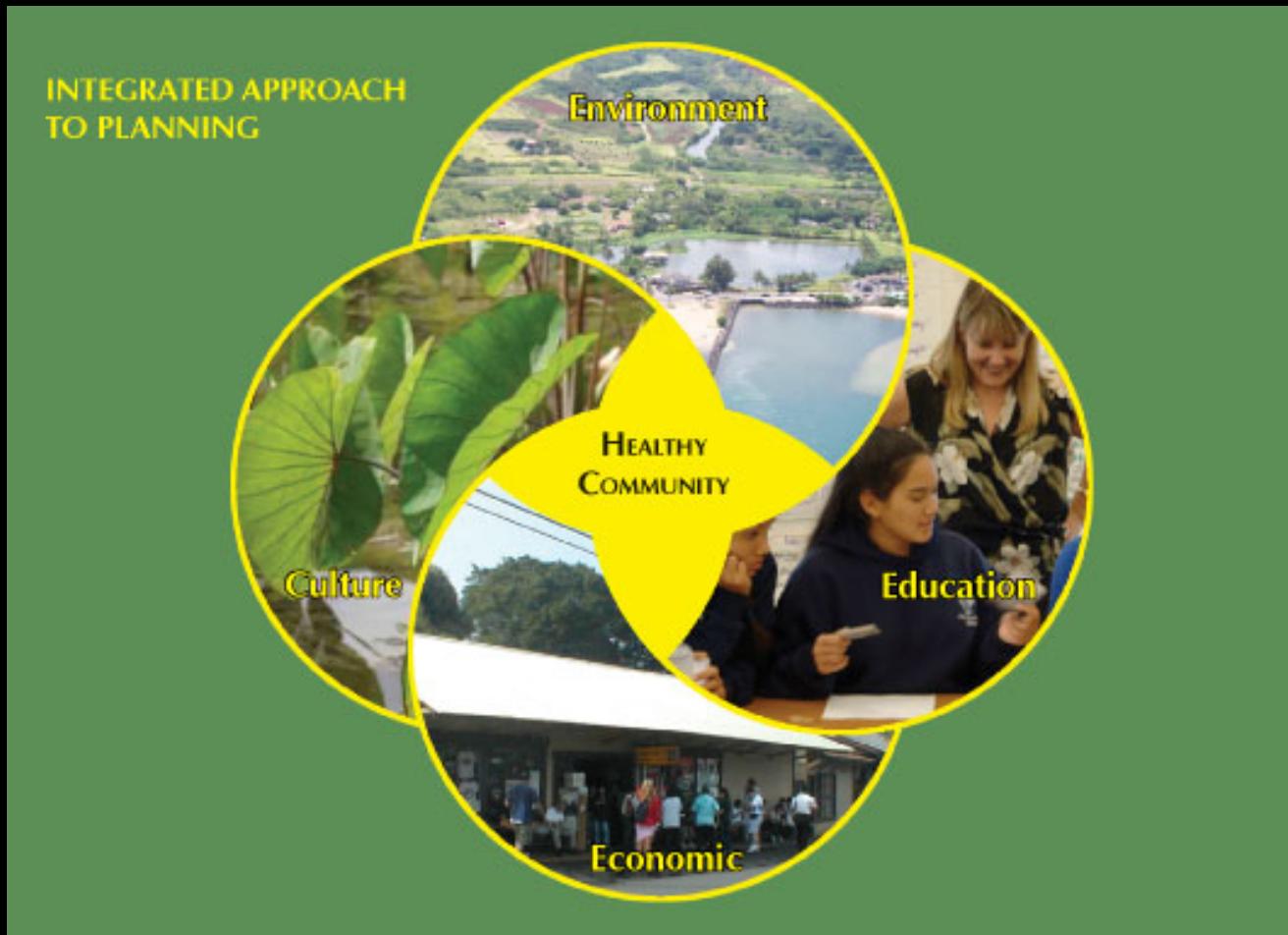
In the past,

Kamehameha Schools managed  
this land primarily to maximize  
***revenue*** to run the schools

Which meant investing  
in a lot of development.



# But today,



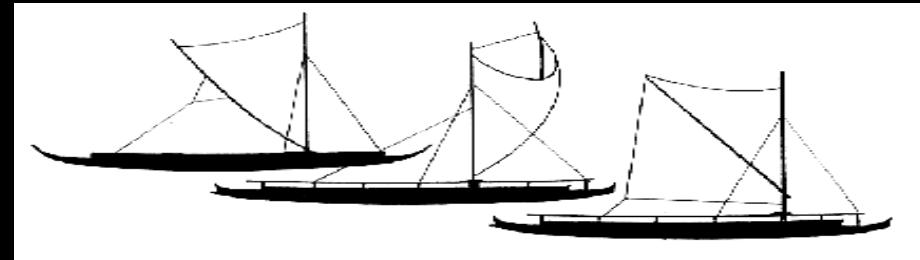
Their approach: to achieve a balance of  
Economic value



Environmental value



Cultural value



Educational value



Community value



This change in approach could change the face of Hawai`i...

And light the way for the world.





But, how can these land asset values be measured?

# What mix of land use strategies will help them meet *all* of their goals?



A photograph of a misty landscape. In the foreground, there's a grassy hill with a dark, irregular stone wall running across it. A large, gnarled tree stands prominently on the left side of the hill. The background is shrouded in thick fog, obscuring distant trees and hills.

These questions were  
hard to answer...

But now, we have a  
new tool

The Natural Capital Project has created a software system, InVEST.



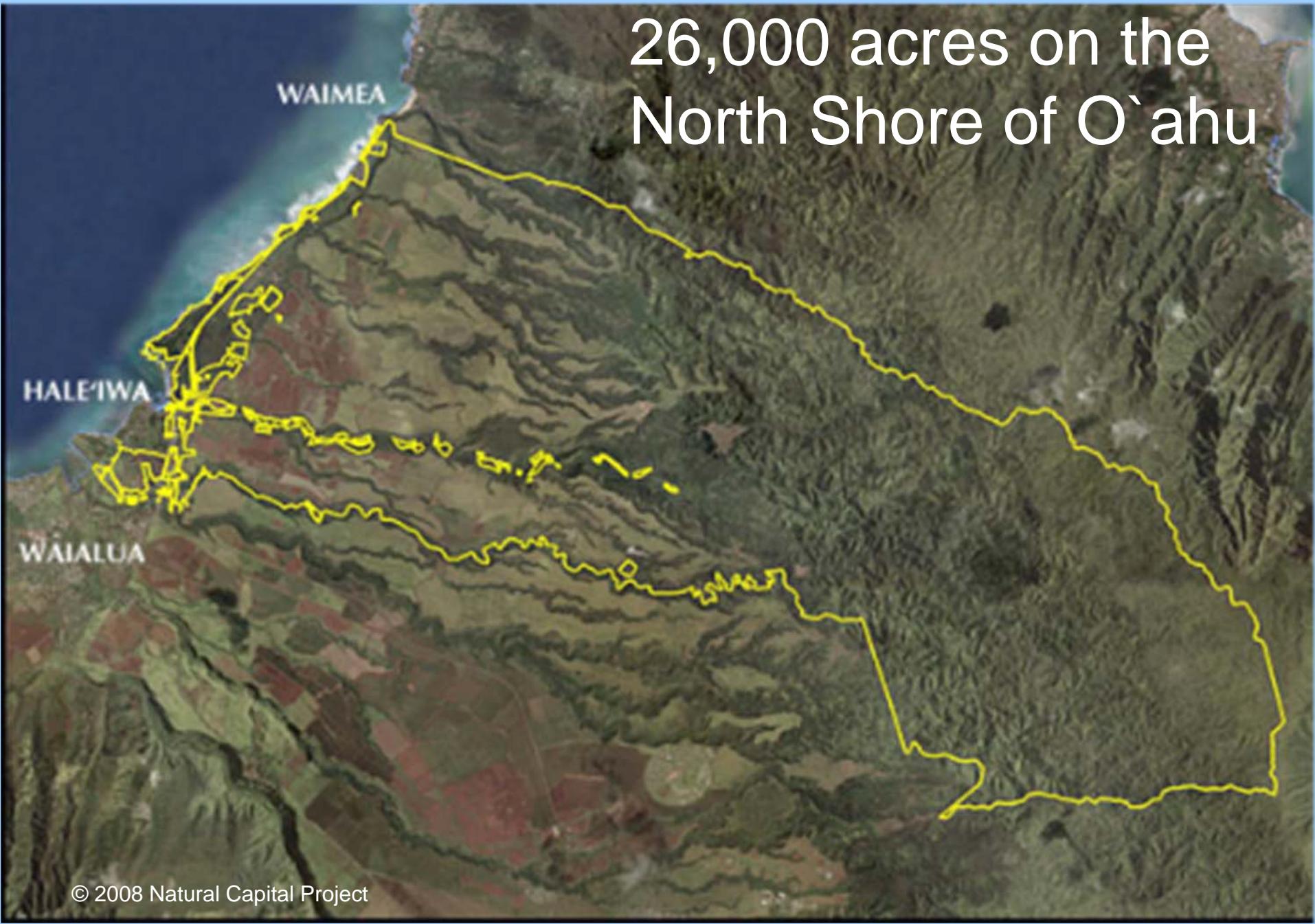
InVEST makes these questions easier.

A wide-angle photograph of a tropical landscape. In the foreground, there's a dirt path or road on the right and a lush green field on the left. The middle ground shows rolling green hills covered in dense vegetation. In the background, a range of mountains is visible under a sky filled with large, white, puffy clouds.

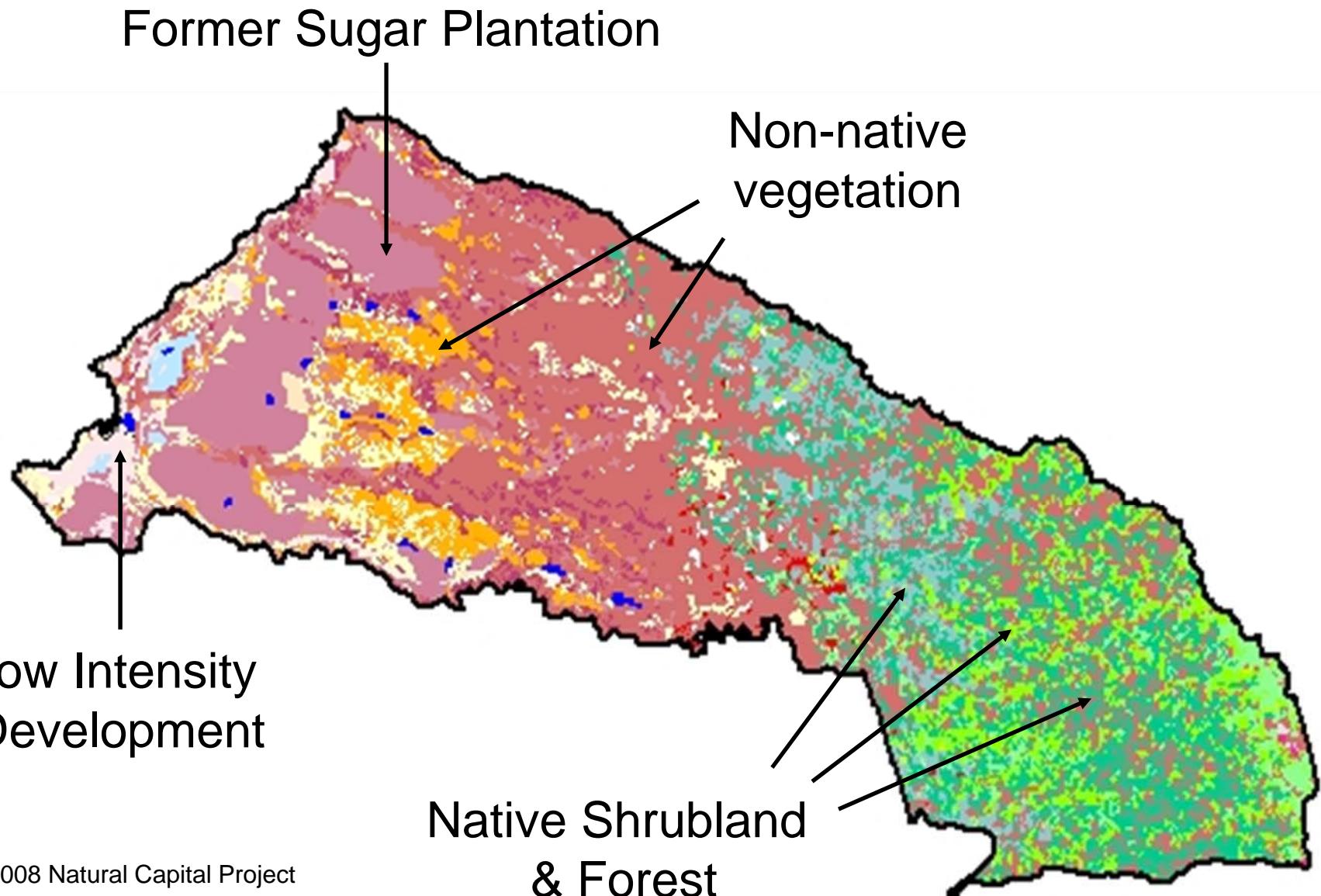
InVEST looks at a landscape,

and tells you *where*, and *how much* ecosystem services are produced.

26,000 acres on the  
North Shore of O`ahu



# The landscape today is a mix



They want to use this land to:

Produce food and energy sustainably

Restore native species and habitats

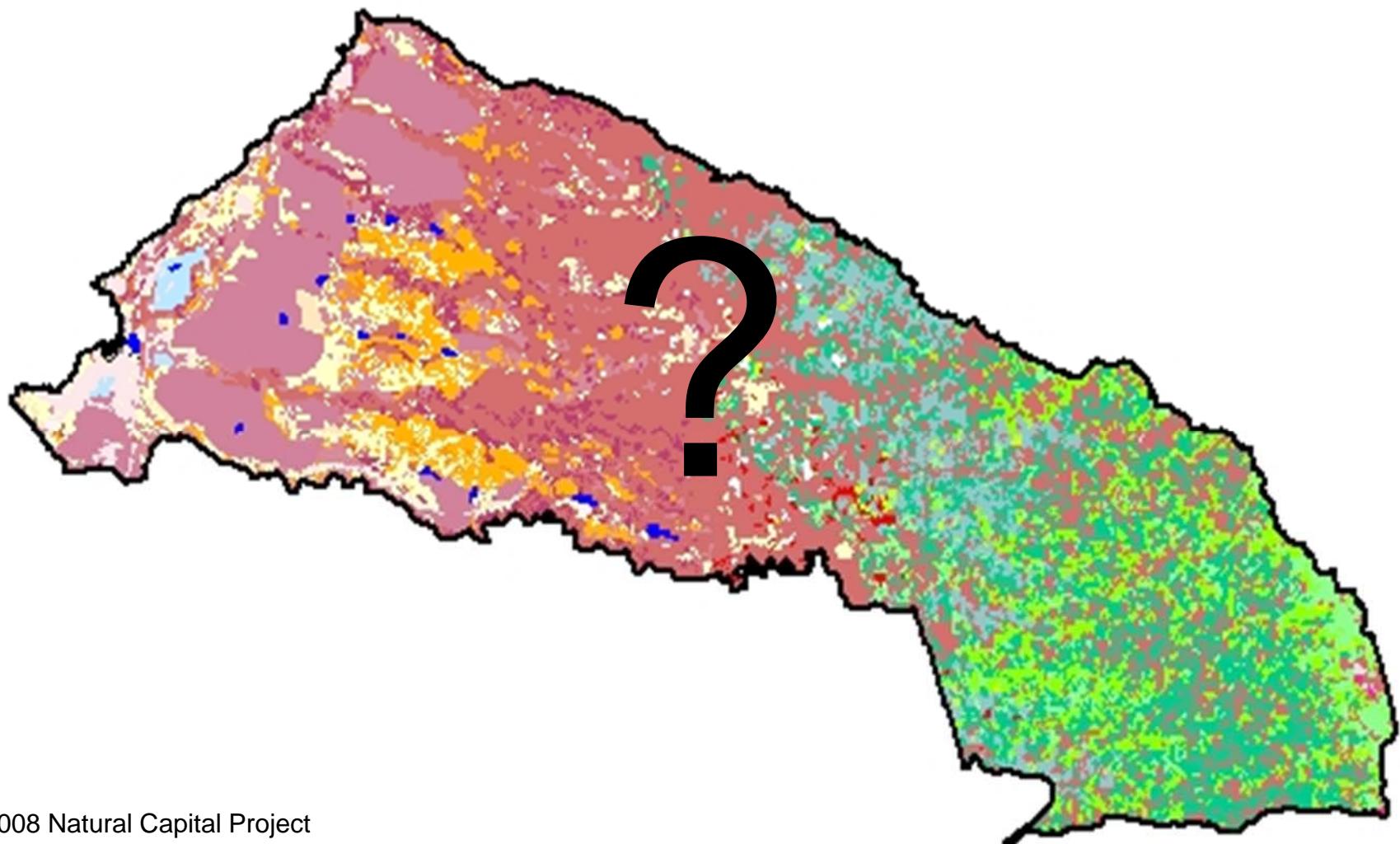
Help stabilize the climate

Provide cultural opportunities

Provide clean water

Create revenue

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



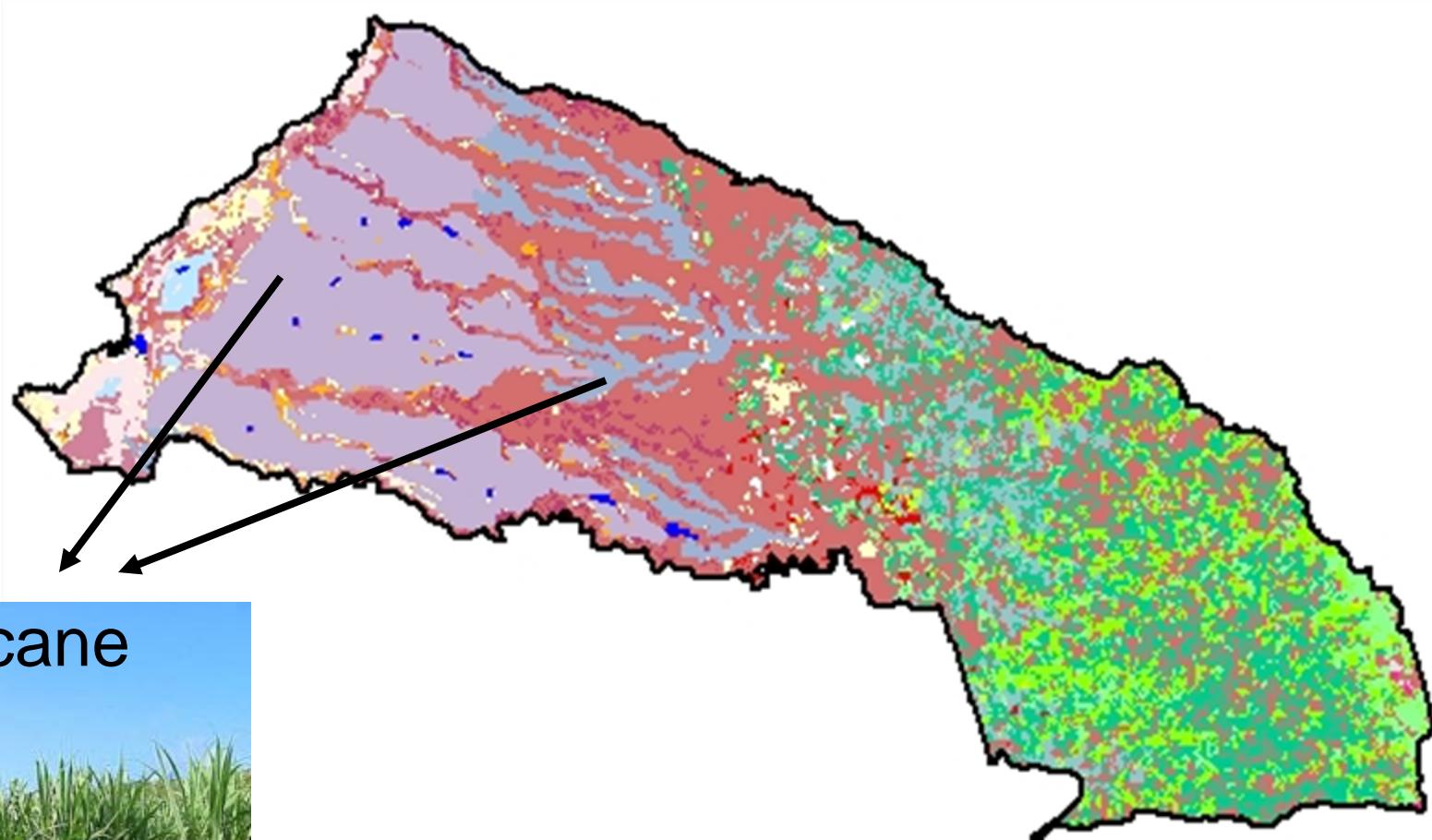
# We went to Hawai`i



and listened to *their* challenges and ideas.

# We explored a number of scenarios...

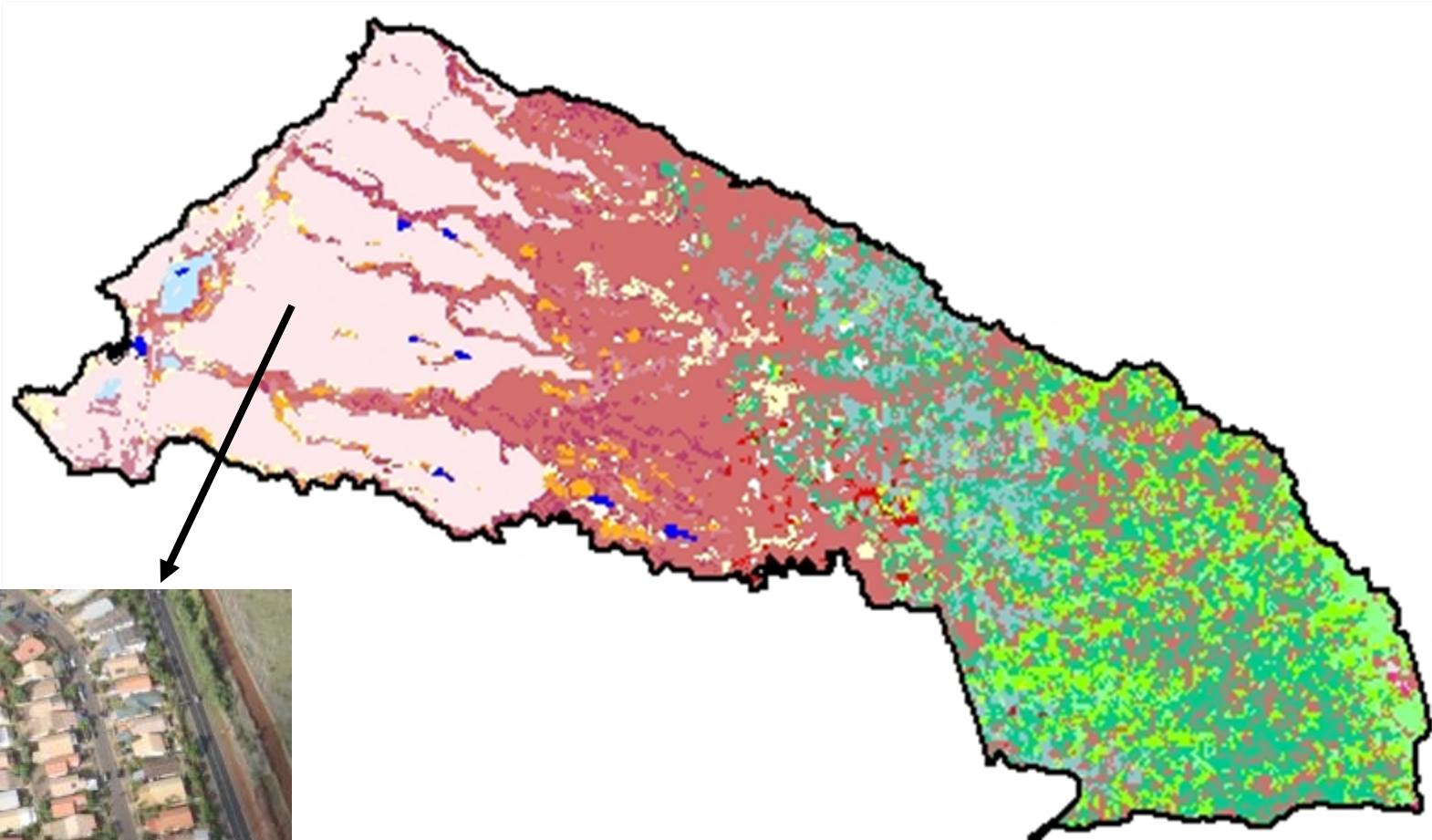
# Growing a biofuels feedstock



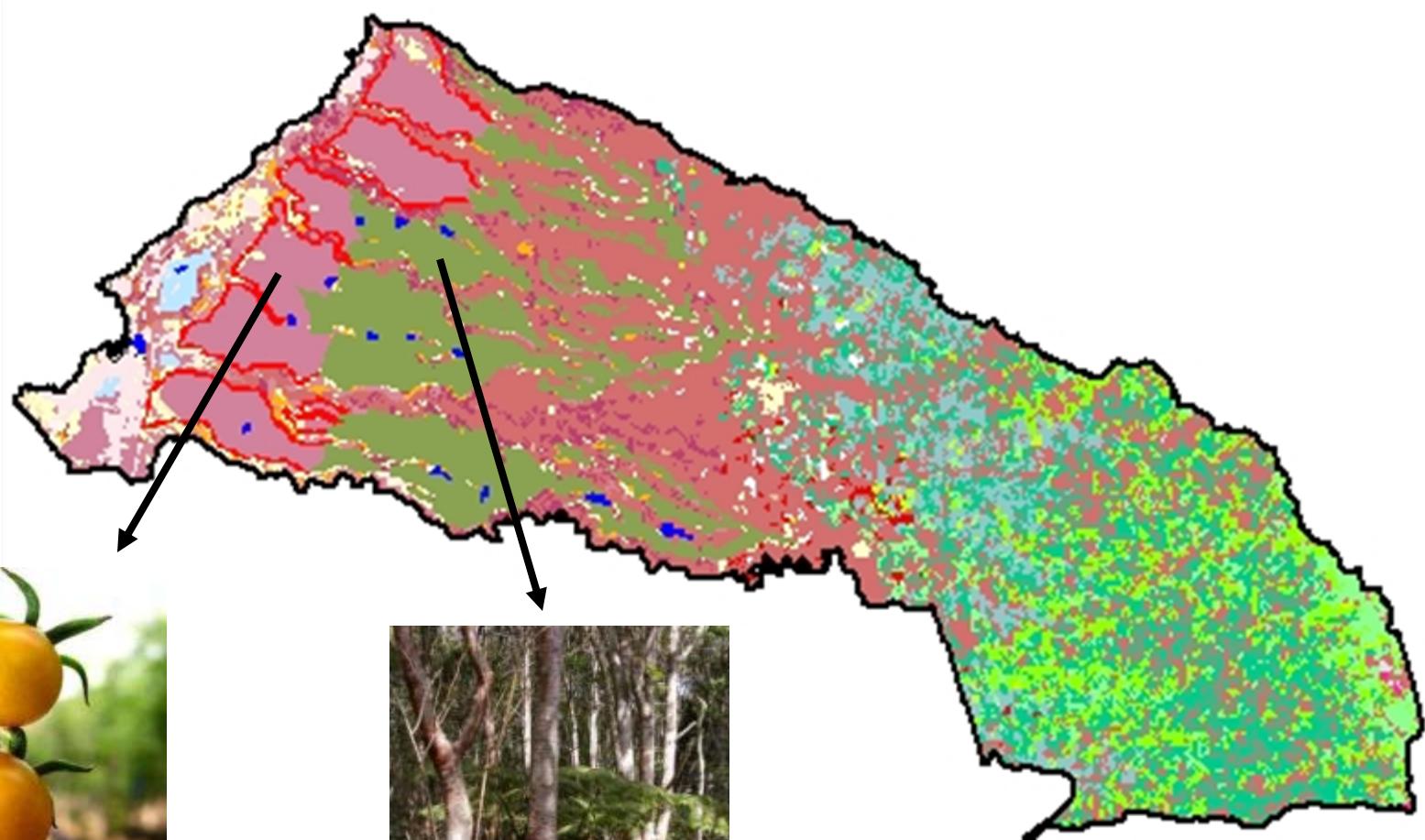
Sugarcane



# Expanding residential development



# Cultivating diversified agriculture & forestry



08 Natural Capital Project



We used InVEST to measure the production  
of **these** services under each scenario:

Produce food and energy sustainably

Restore native species and habitats

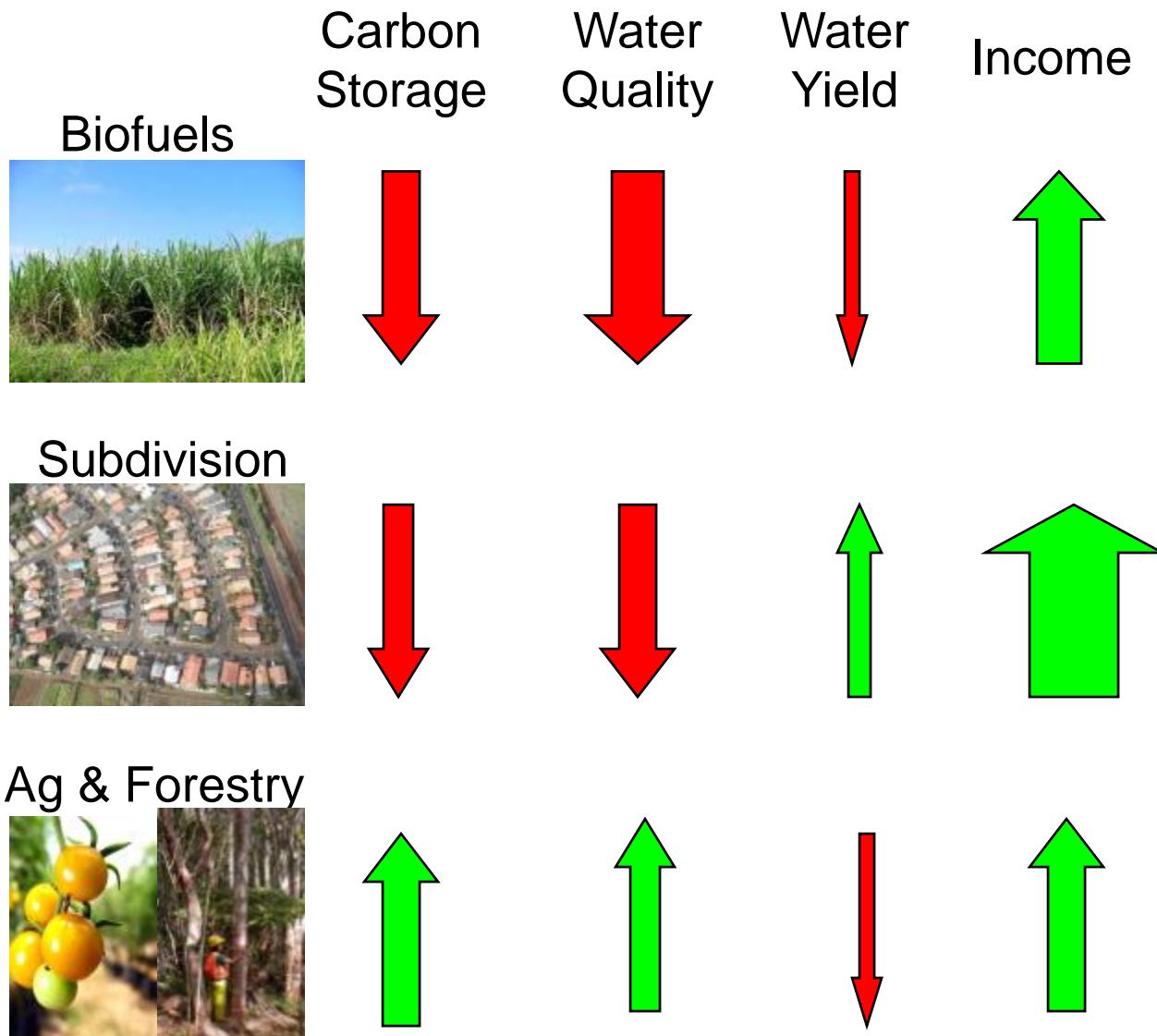
**Help stabilize the climate**

Provide cultural opportunities

**Provide clean water**

**Create revenue**

# Here's what InVEST told us:



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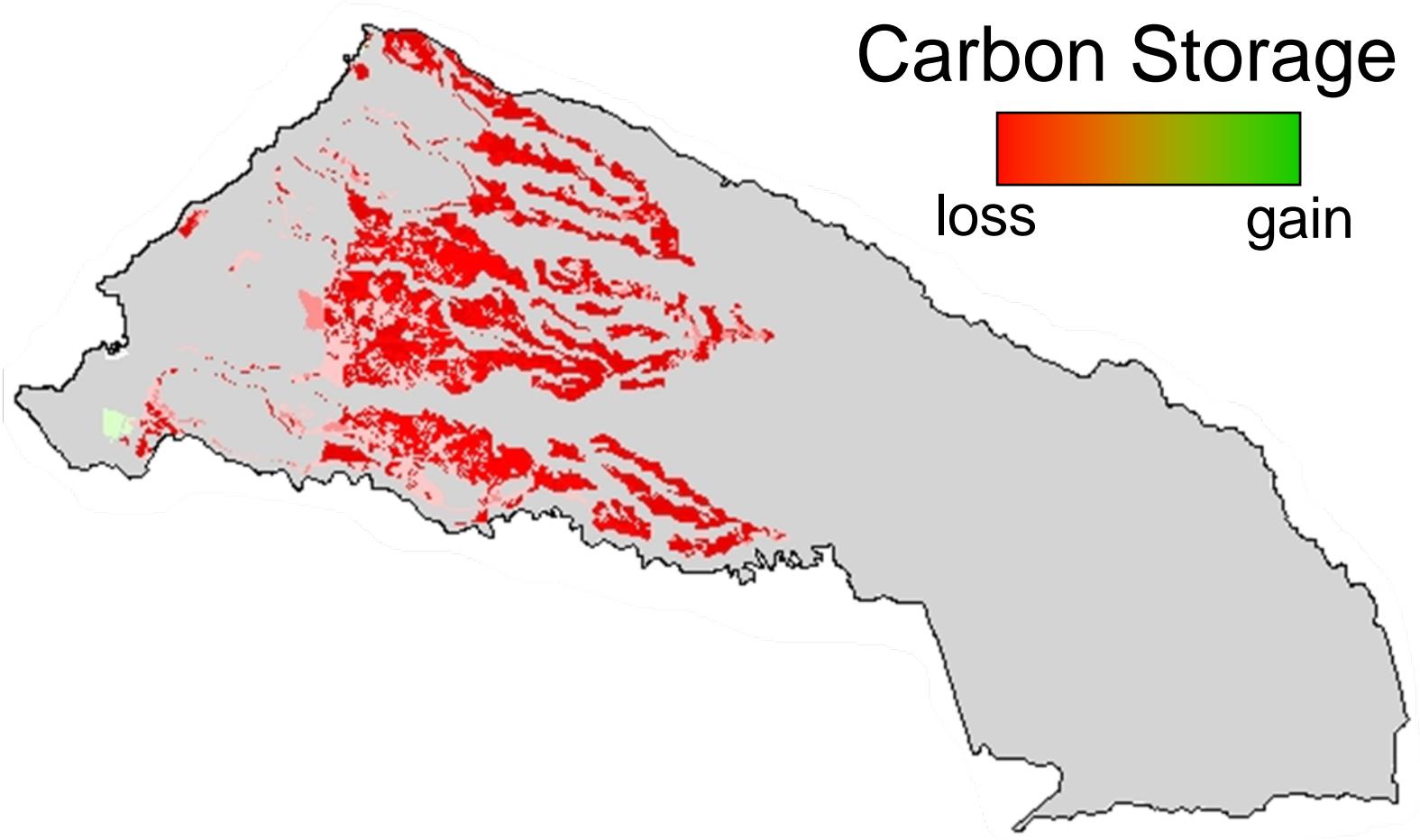
Big income from biofuels or development is paired with big losses for the environment and society.

# Here's what InVEST told us:



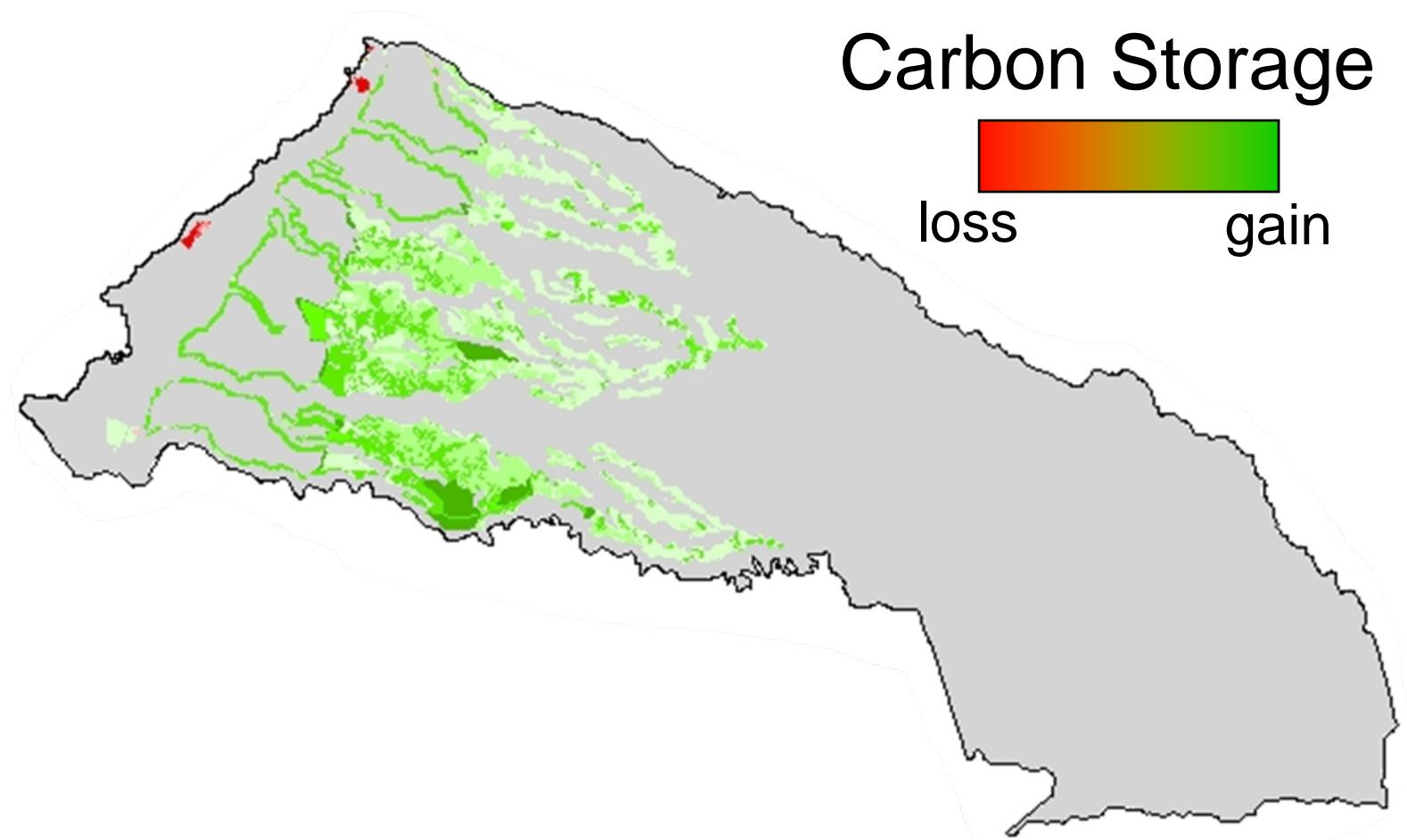
Diversified agriculture and forestry provide the desired balance, with income, climate control and clean water benefits.

# InVEST can also map changes.



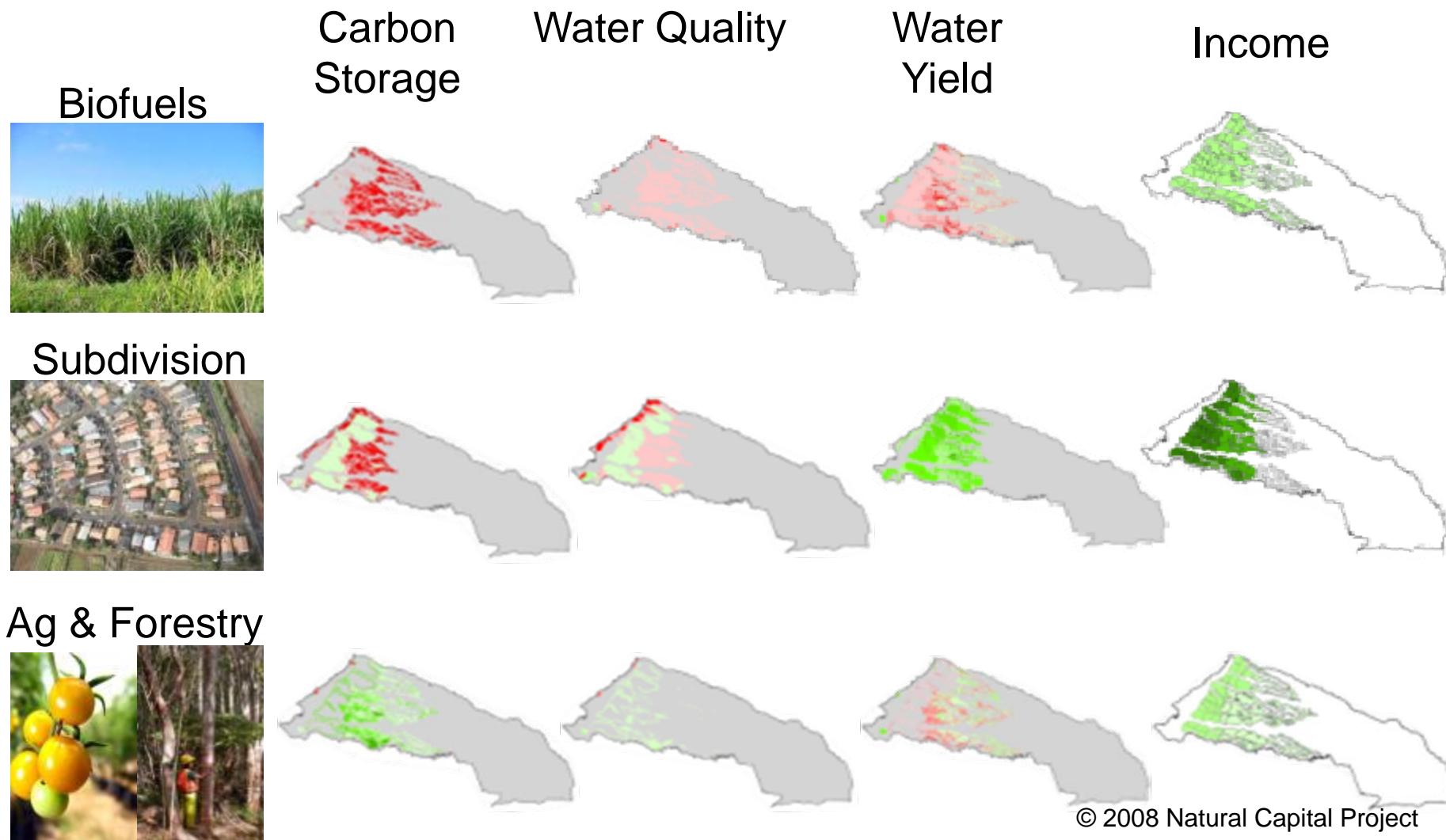
The **red** areas show where planting biofuels caused carbon **loss**.

# InVEST can also map changes.



The **green** areas show where agriculture and forestry caused carbon **gain**.

# Looking at all maps together shows tradeoffs.



A photograph of a tropical sunset. The sky is filled with warm, orange and yellow hues, with streaks of light through clouds. In the foreground, the dark silhouettes of several palm trees stand on a sandy beach. The ocean is visible in the middle ground, meeting a low, hilly landmass on the horizon.

Kamehameha Schools is now  
refining their options with the  
help of InVEST



They are considering kukui nut trees as a low input biofuels stock and a cultural icon.....



along with smaller scale development .....



and pioneering new ways to integrate cultural values ...

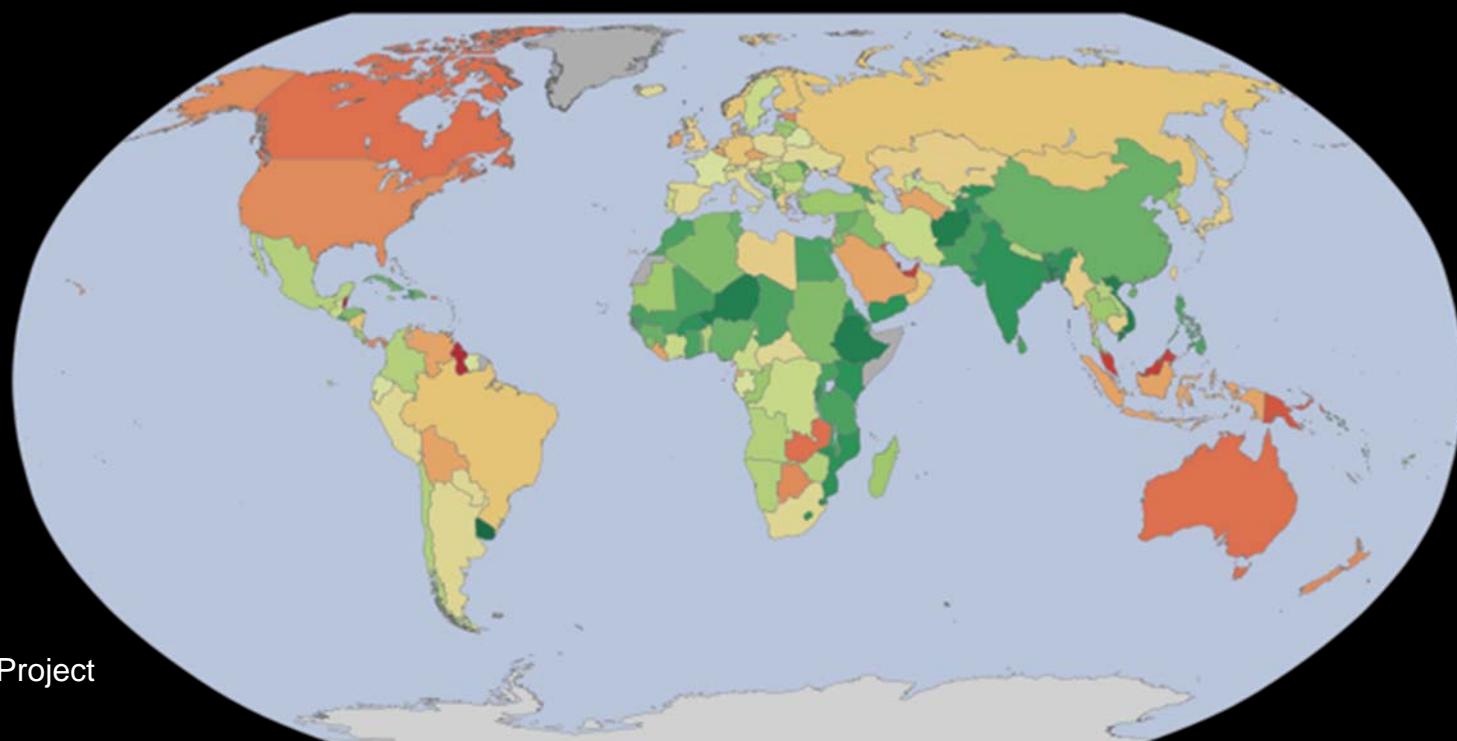
and Hawai`i's future is looking greener.

# InVEST is being used by others around the globe



to answer questions about these, and other ecosystem services.

We're asking how achieving global food security will affect ....  
biodiversity,  
climate regulation and  
water supplies.



# We're helping Colombia's Ministry of the Environment improve regulation of....

mining



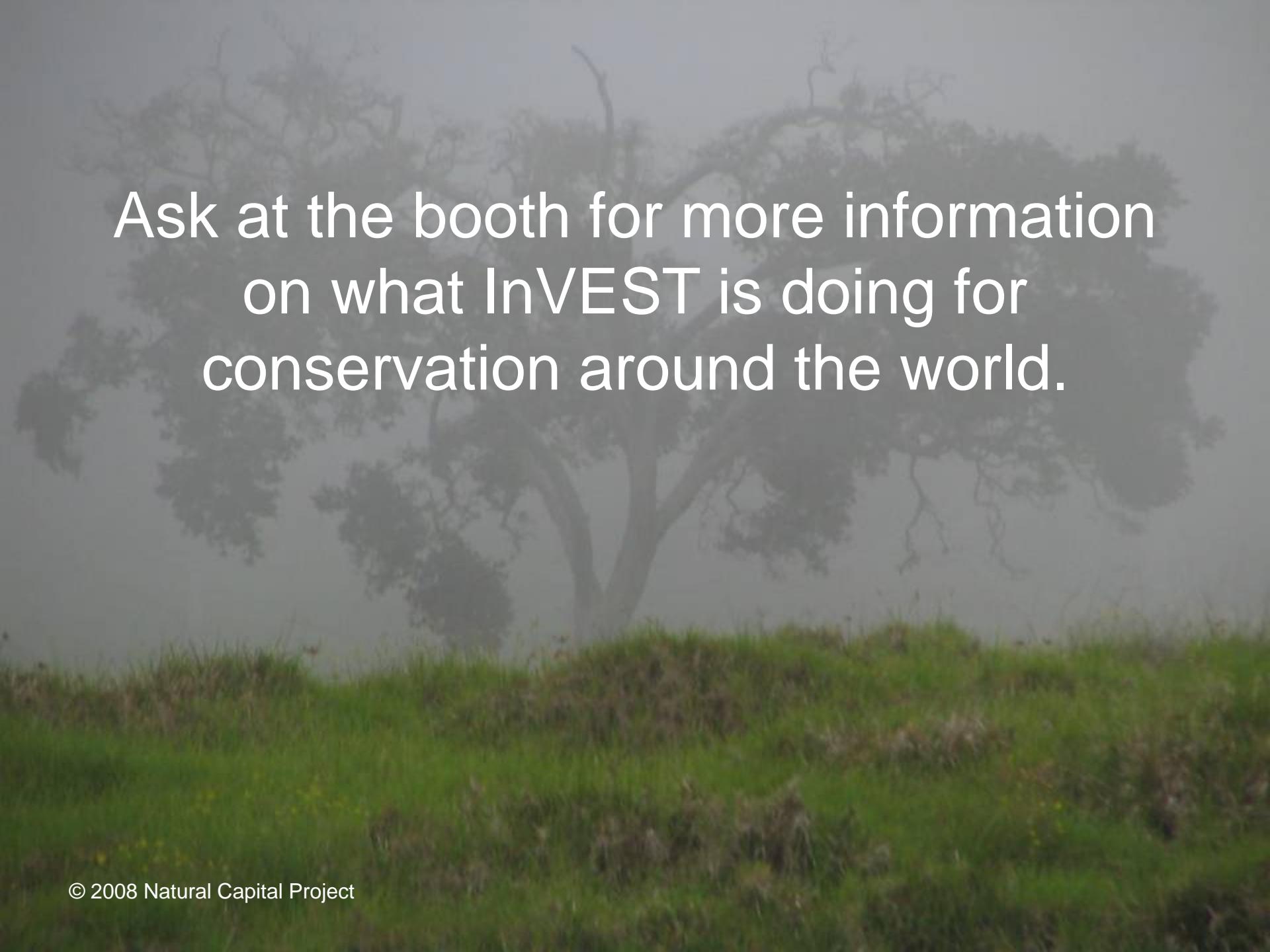
agriculture



transportation



and other major sectors.

A photograph of a misty landscape. In the foreground, there is a grassy area with some low-lying plants. Behind it, several large trees with thick trunks and intricate root systems are visible through a dense layer of fog or mist. The overall atmosphere is hazy and ethereal.

Ask at the booth for more information  
on what InVEST is doing for  
conservation around the world.