



# Scenic Quality



WOODS INSTITUTE  
FOR THE ENVIRONMENT  
STANFORD UNIVERSITY



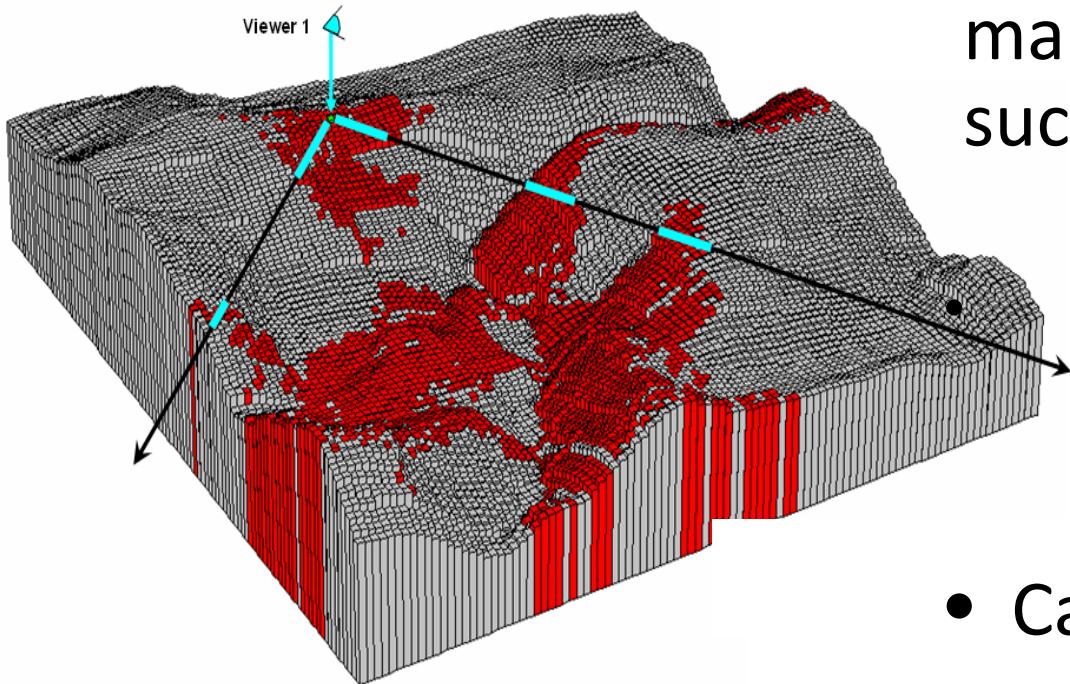
The Nature Conservancy



INSTITUTE ON THE  
ENVIRONMENT  
UNIVERSITY OF MINNESOTA  
Driven to Discover™

# What is Visible?

- Utilize *Viewshed* tool to spatially determine line of site, given terrain and other natural and man made obstructions such as trees or buildings.



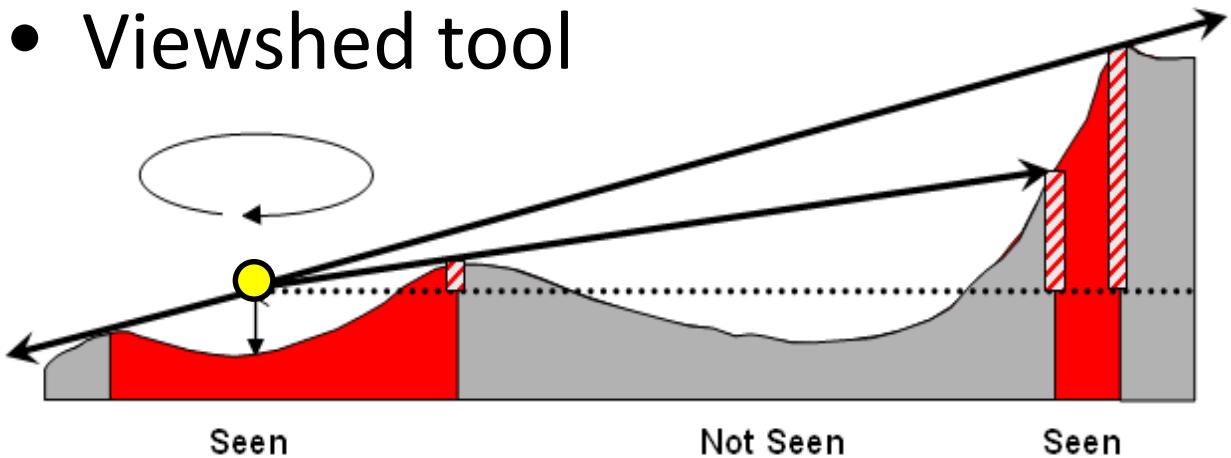
- Call this a “viewshed”

# How it Works

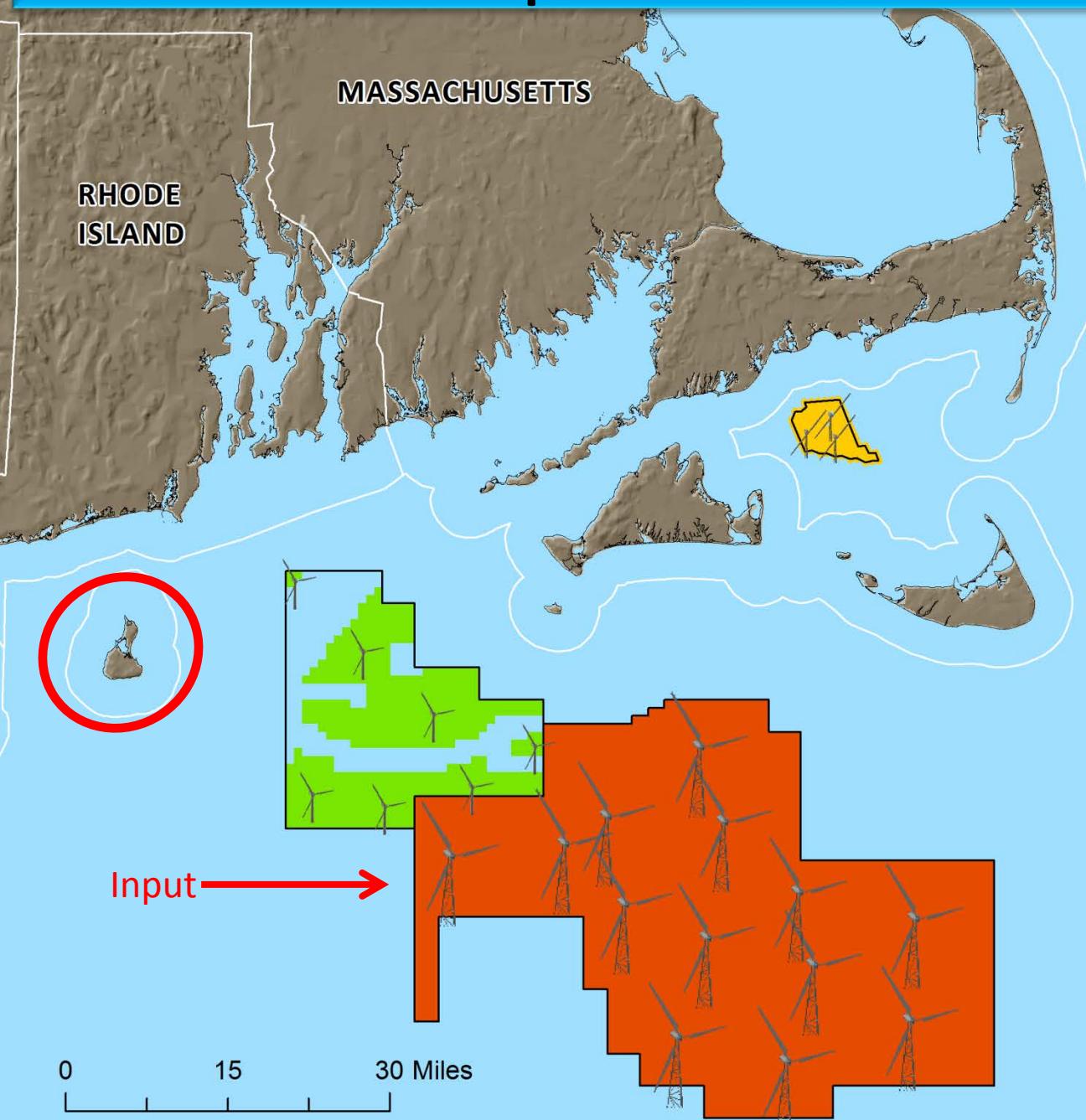
- DEM
  - Resample
  - Clip
  - Flatten bathymetry



- Viewshed tool



# Inputs



## OFFSHORE WIND AREAS EXISTING

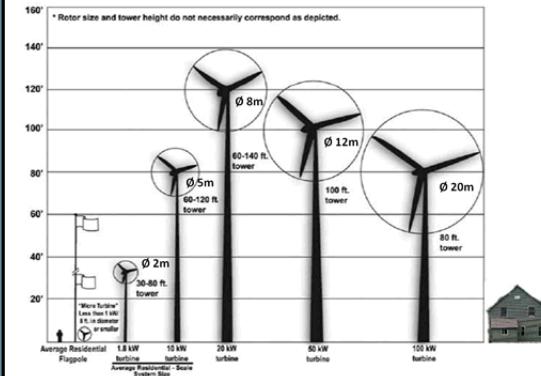
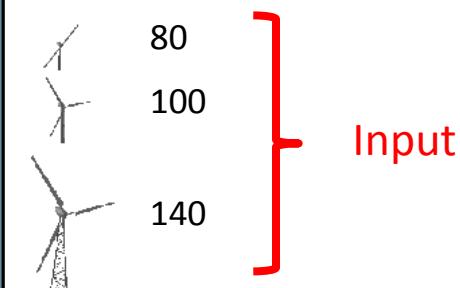
Permitted Cape Wind

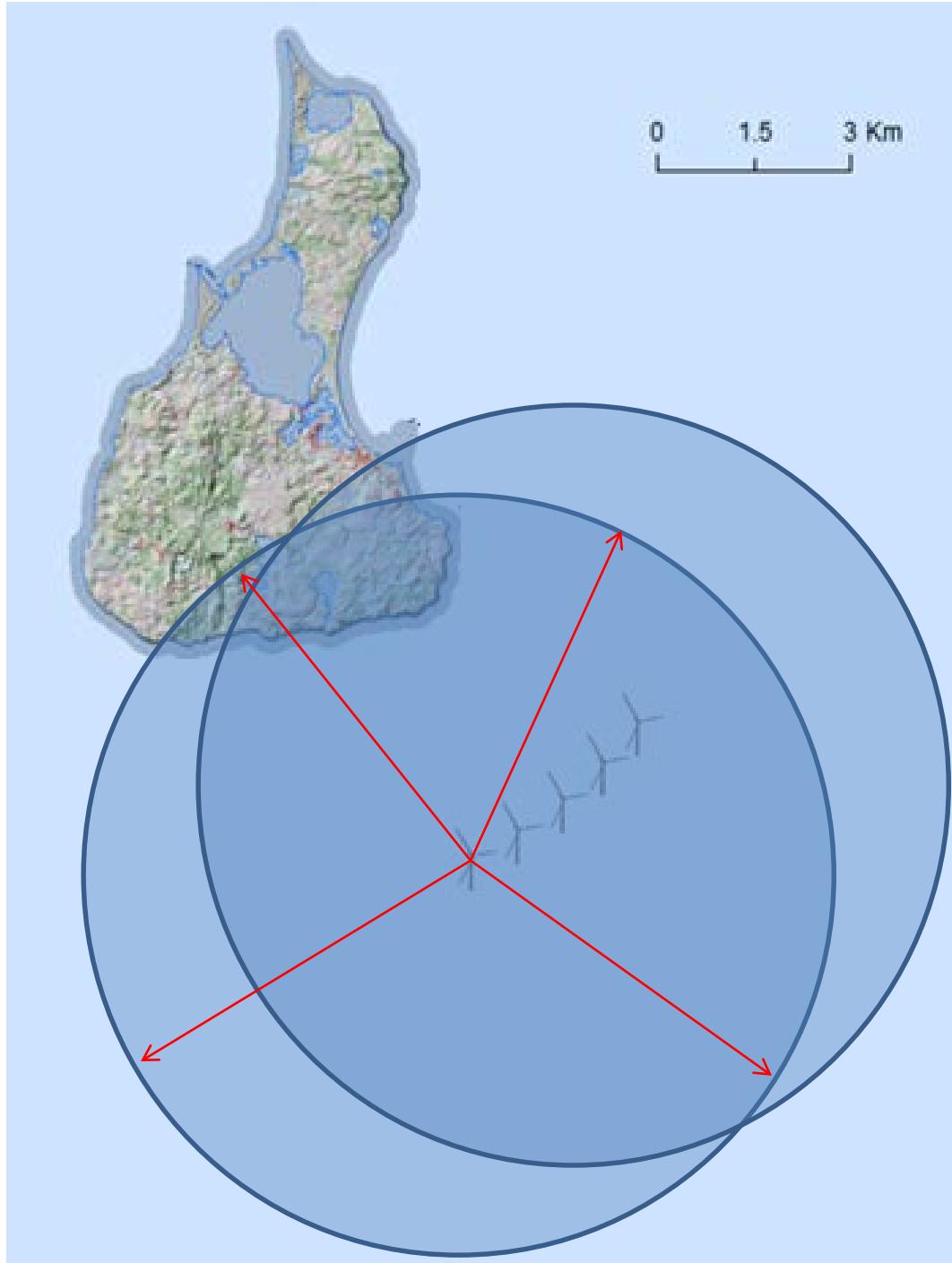
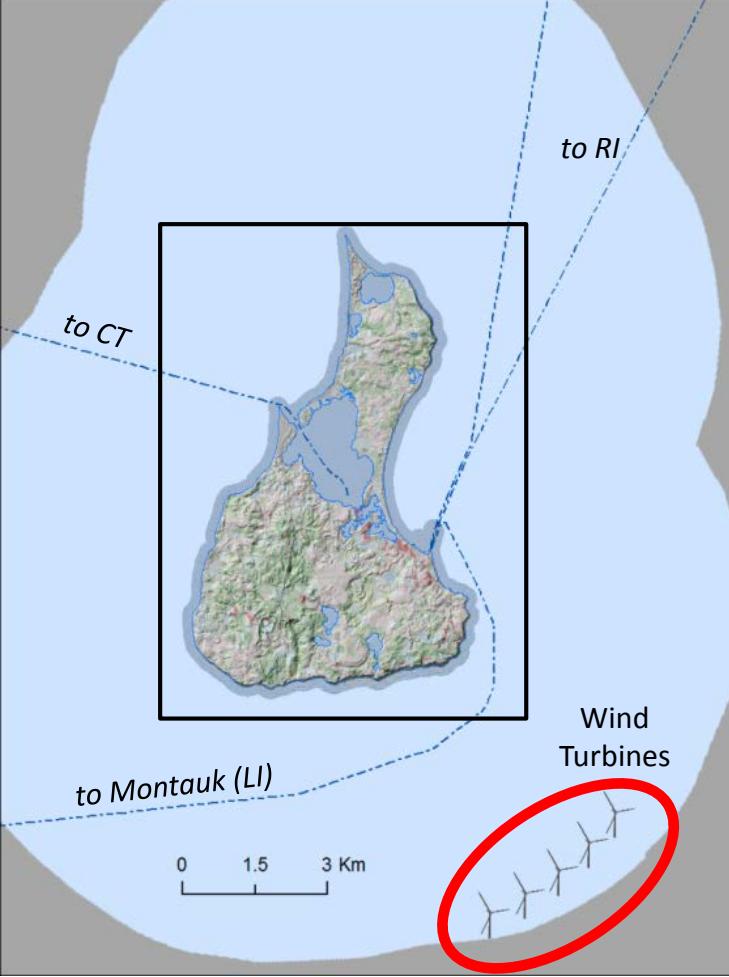
## FUTURE

RI/MA Call Area

Massachusetts Call Area

## WIND TURBINE (HEIGHT IN METERS)





0 0.5 1 Km

## INVEST Scenic Quality

(# of turbines visible)

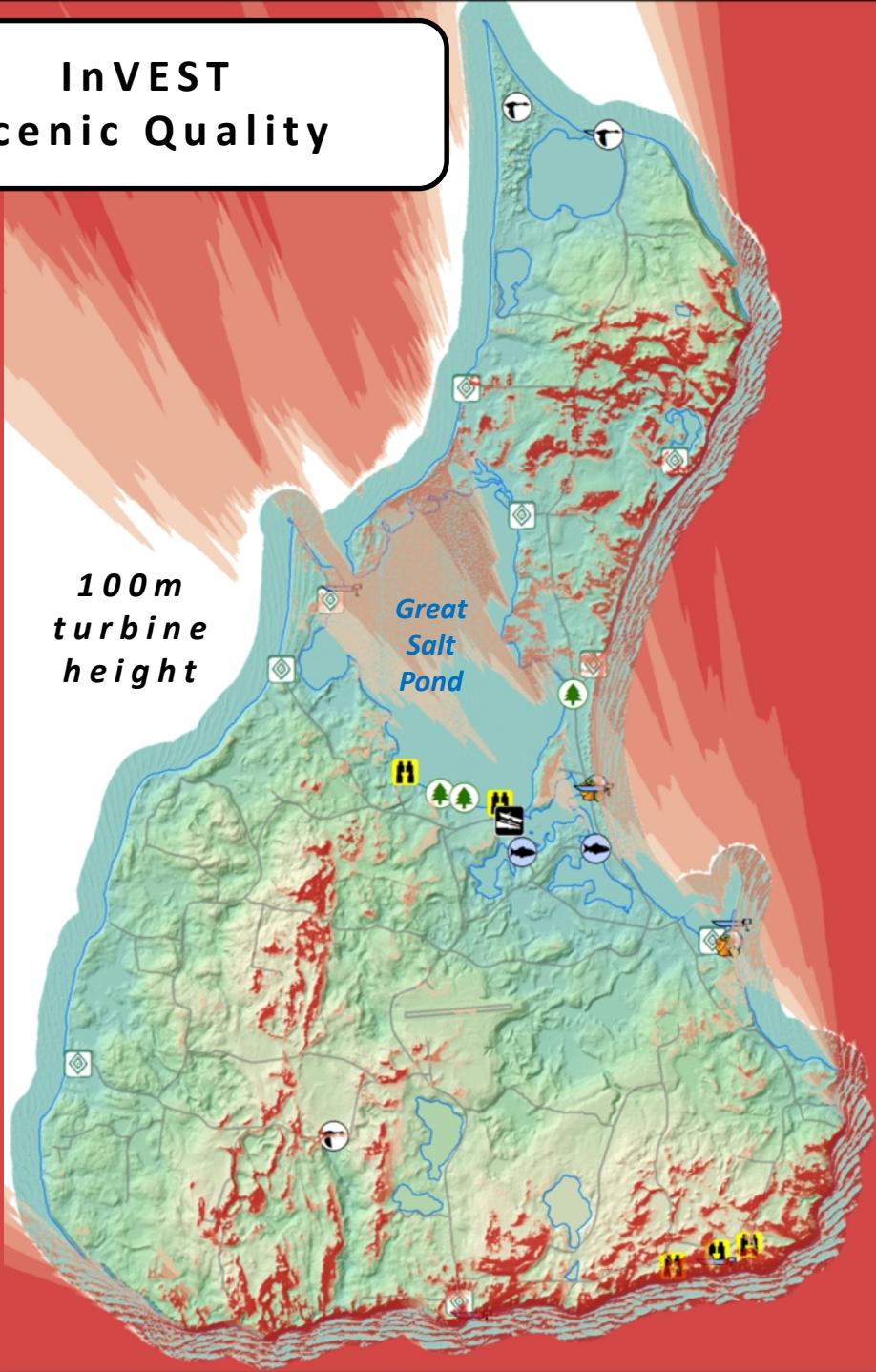
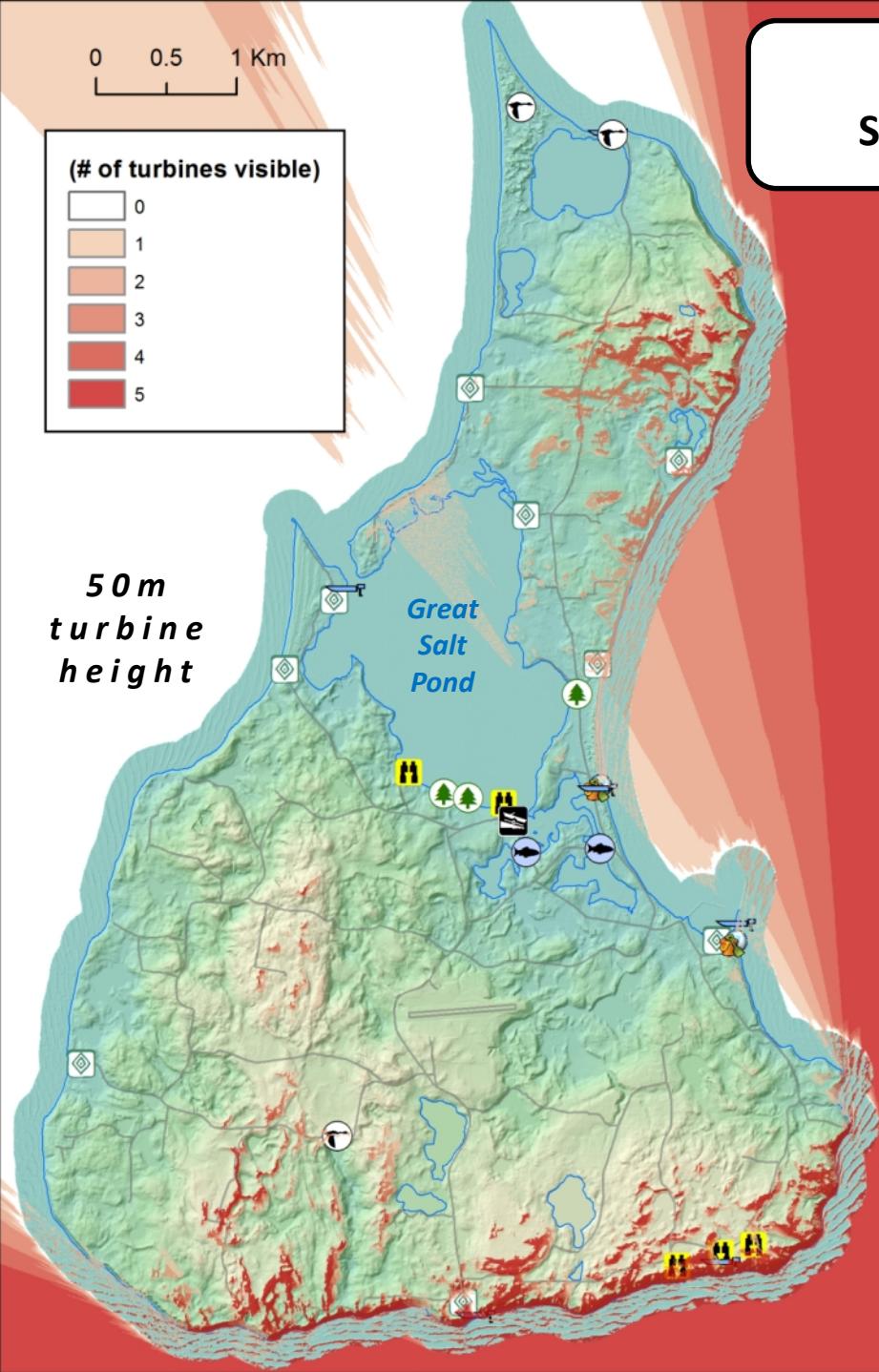
	0
	1
	2
	3
	4
	5

50m  
turbine  
height

Great  
Salt  
Pond

100m  
turbine  
height

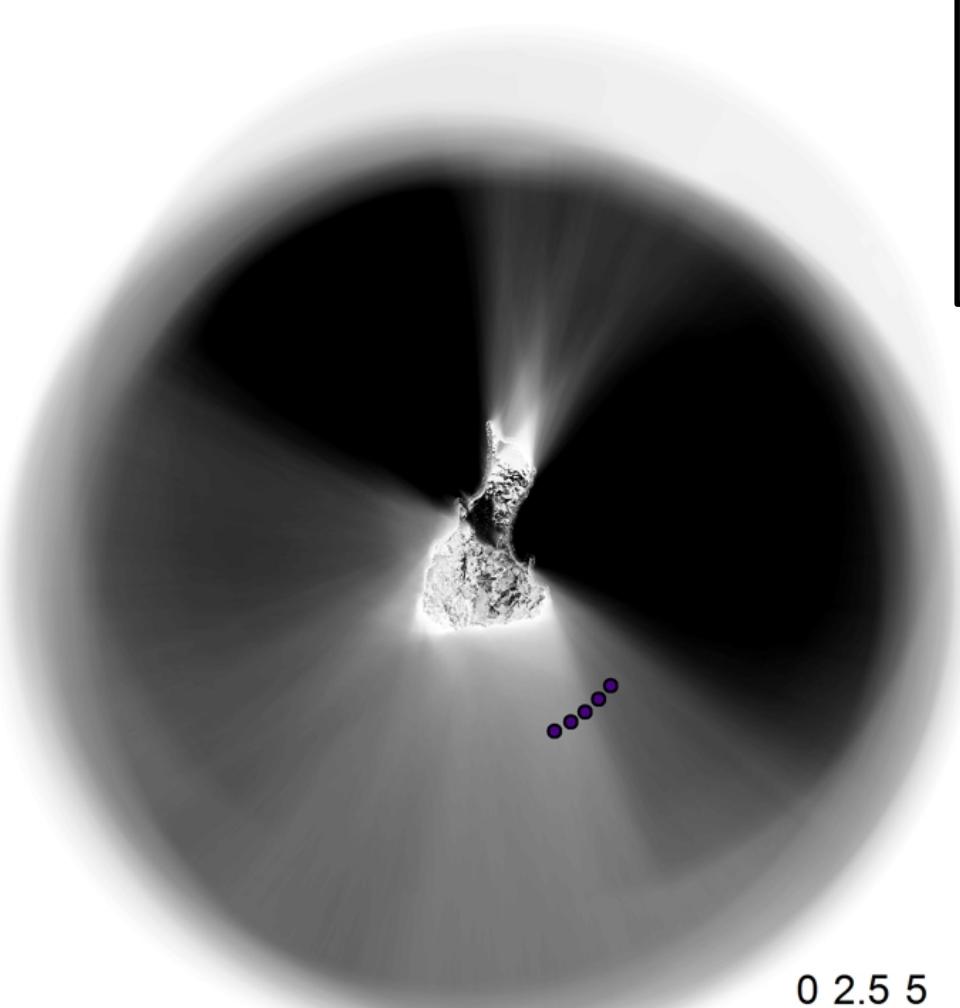
Great  
Salt  
Pond



Reverse Viewshed



# Block Island



0 2.5 5 10 Kilometers

A scale bar at the bottom of the map, indicating distances of 0, 2.5, 5, and 10 kilometers. The scale bar consists of a horizontal line with tick marks and corresponding numerical labels.

## Advancements

- ArcGIS independent
  - 3.0 InVEST release
  - Free
- Adding valuation component
  - Flexible benefit transfer

