# FORESTS FOR LIFE

Hawai'i Division of Forestry and Wildlife Sustaining our Island Earth

CARBON OFFSET CREDITS

WATER REPLENISHMENT PARTNERSHIPS

KOA CANOE FORESTS

WOOD WORKING FOR HAWAI'I

# Carbon Sequestration through Forestry

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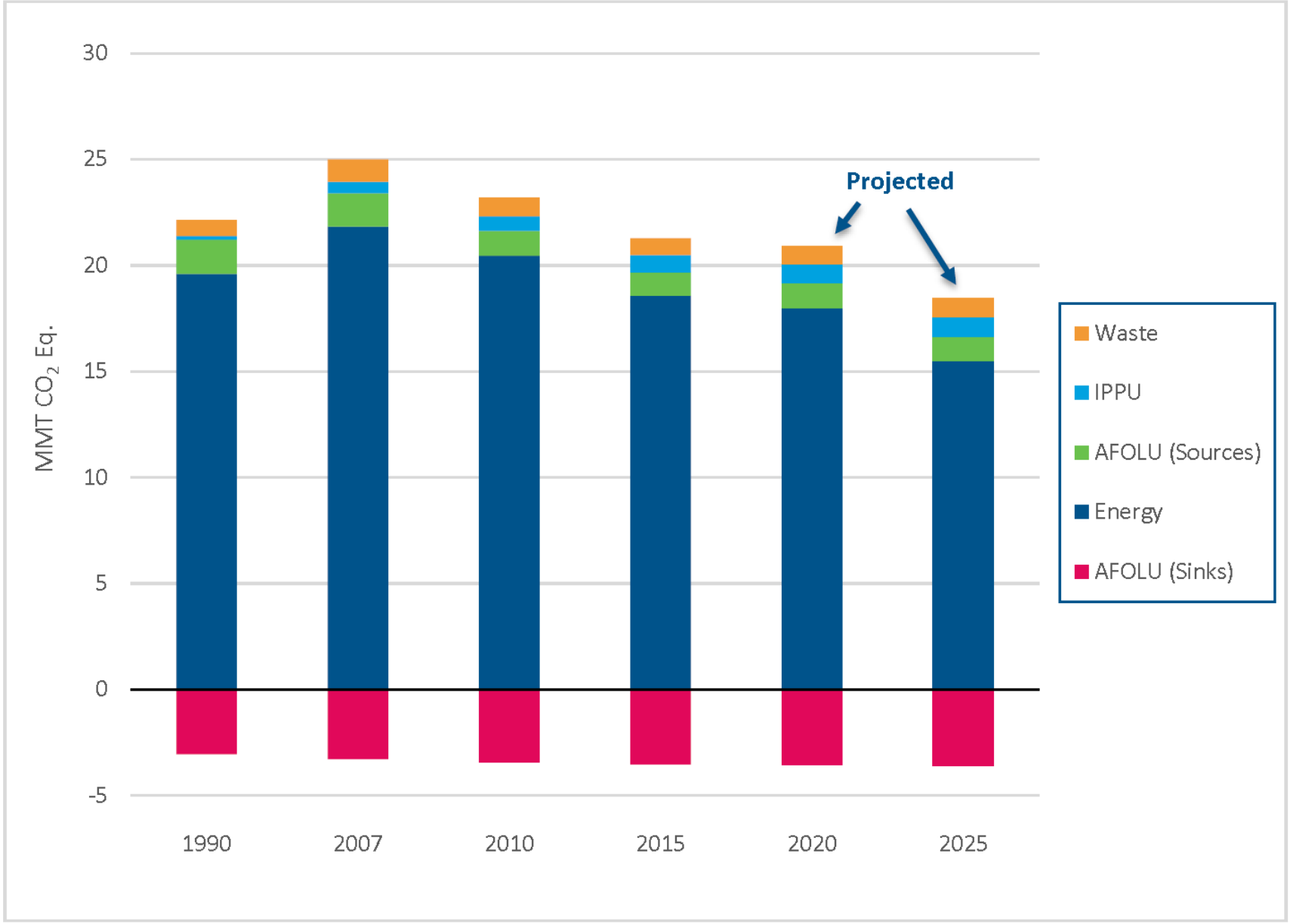
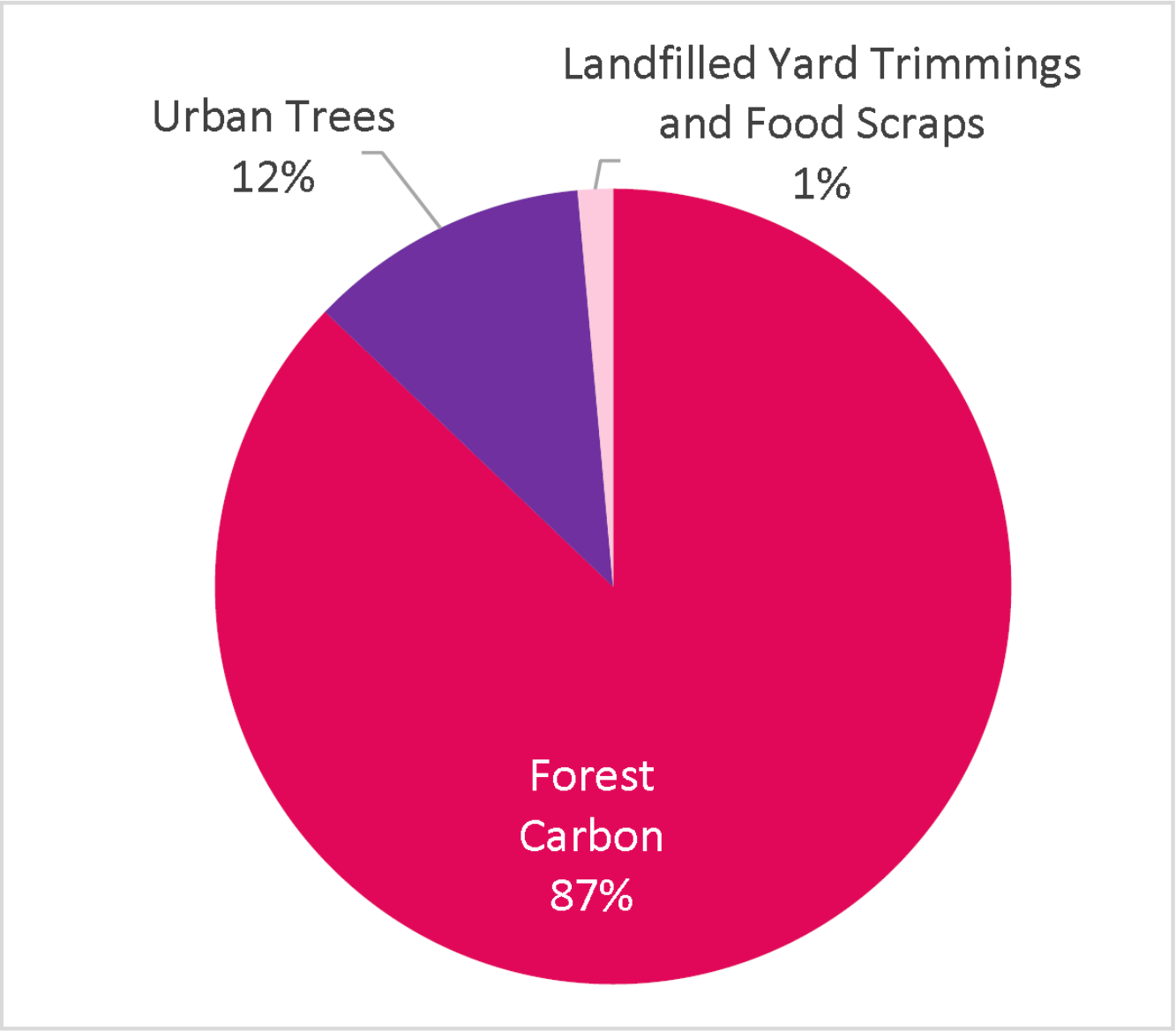
State of Hawai‘i
Department of Land and Natural Resources
Division of Forestry and Wildlife

## Figure ES-3: Hawaii GHG Emissions Inventory Estimates and Projections (Including Sinks)




Source: Hawaii Greenhouse Gas Emissions Report for 2015

## Figure 5-3: 2015 AFOLU Removals by Carbon Sink




Source: Hawaii Greenhouse Gas Emissions Report for 2015

# HAWAI'I DOFAW FORESTRY PROJECTS

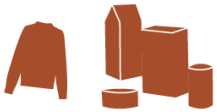
## COOLS OUR PLANET AND SUPPORTS FOREST LIFE

**Carbon ($CO_2$)**
warms our planet

### Fossil Fuel Burning Activities

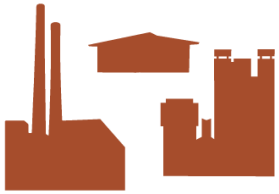
releases $CO_2$ into the atmosphere

**Purchasing Goods and Services**
that are imported and/or carbon-intensive to produce



**Driving Cars**
**Machinery**
**Flying Planes**
Utilizing fossil fuels

**Factories**
**Homes**
**City Buildings**
Utilizing fossil fuel-based electricity



### Healthy Forests

absorbs $CO_2$ : storing carbon and releasing oxygen

**Site Preparation**
includes soil cultivation, preparation of soil, removal of invasive plants, weeds, trees

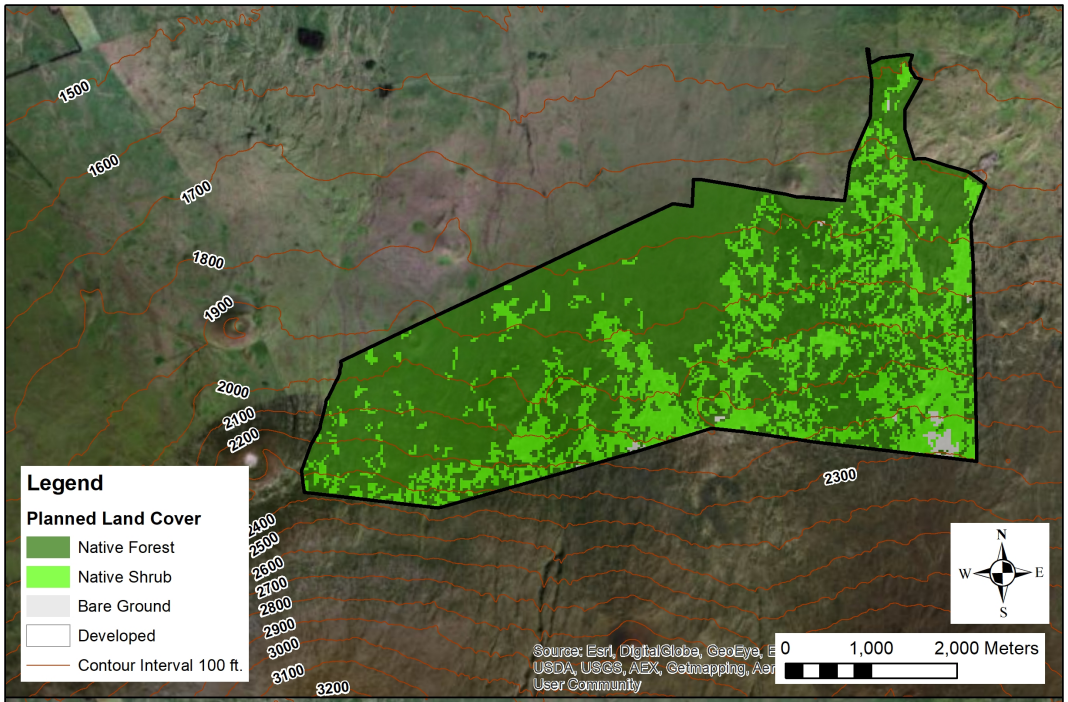
**Fencing**
prevents wild hoofed animals from damaging forests by rooting, and trampling valuable understory

**Specialized equipment and trained staff**
needed for challenging terrain in remote areas

**Replanting**

# Pu‘u Mali Forest Carbon Project

KŪPU


1500
1600
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2100
2200
2300
2400
2500
2600
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2800
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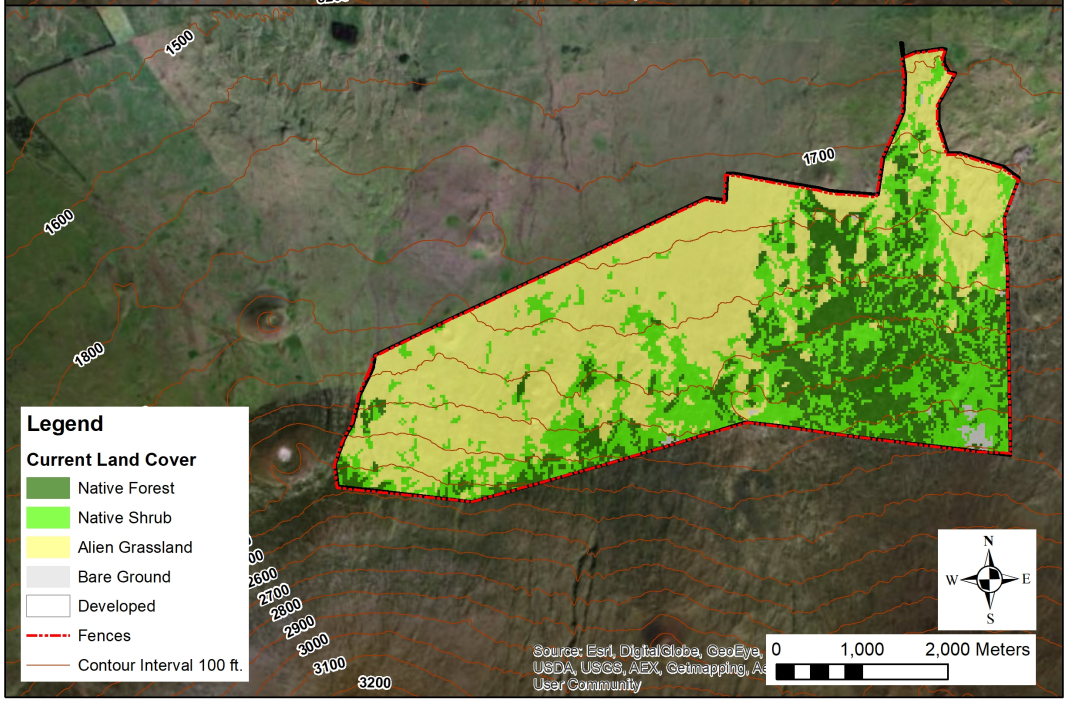
3000
3100
3200
Legend
Planned Land Cover
Native Forest
Native Shrub
Bare Ground
Developed
Contour Interval 100 ft.
N
W
E
S
0
1,000
2,000 Meters
Source: Esri, DigitalGlobe, GeoEye, E
USDA, USGS, AEX, Getmapping, Aer
User Community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1600
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2700
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2900
3000
3100
3200
Legend
Current Land Cover
Native Forest
Native Shrub
Alien Grassland
Bare Ground
Developed
Fences
Contour Interval 100 ft.
N
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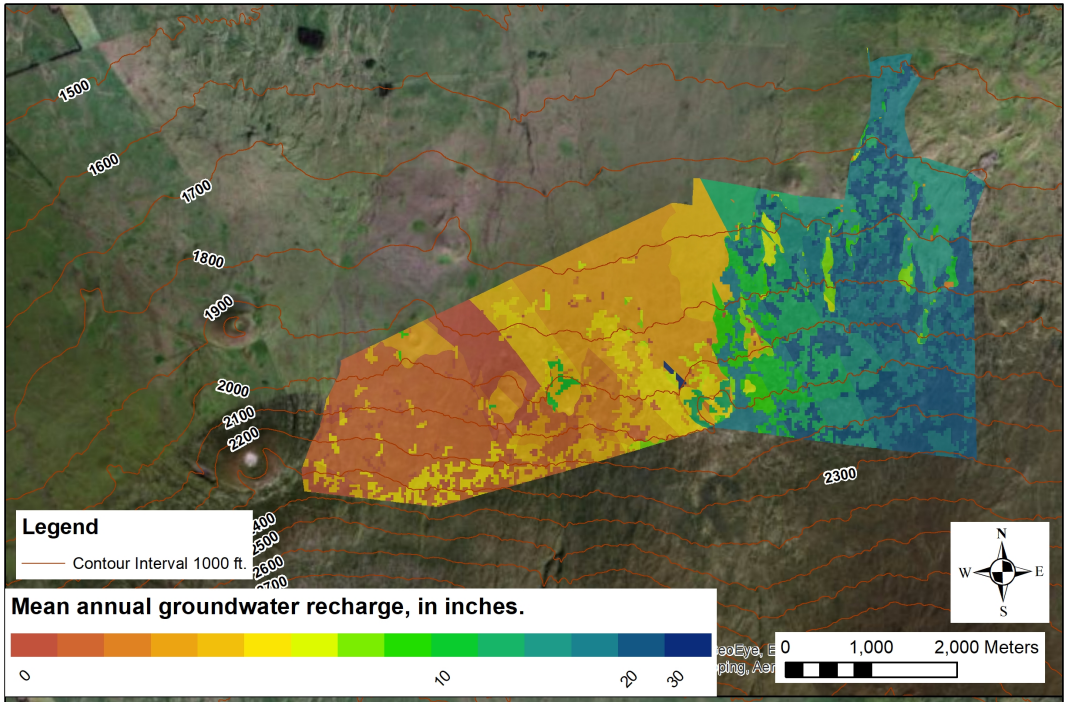
2,000 Meters
Source: Esri, DigitalGlobe, GeoEye,
USDA, USGS, AEX, Getmapping, A
User Community


1500
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Legend
Contour Interval 1000 ft.
Mean annual groundwater recharge, in inches.
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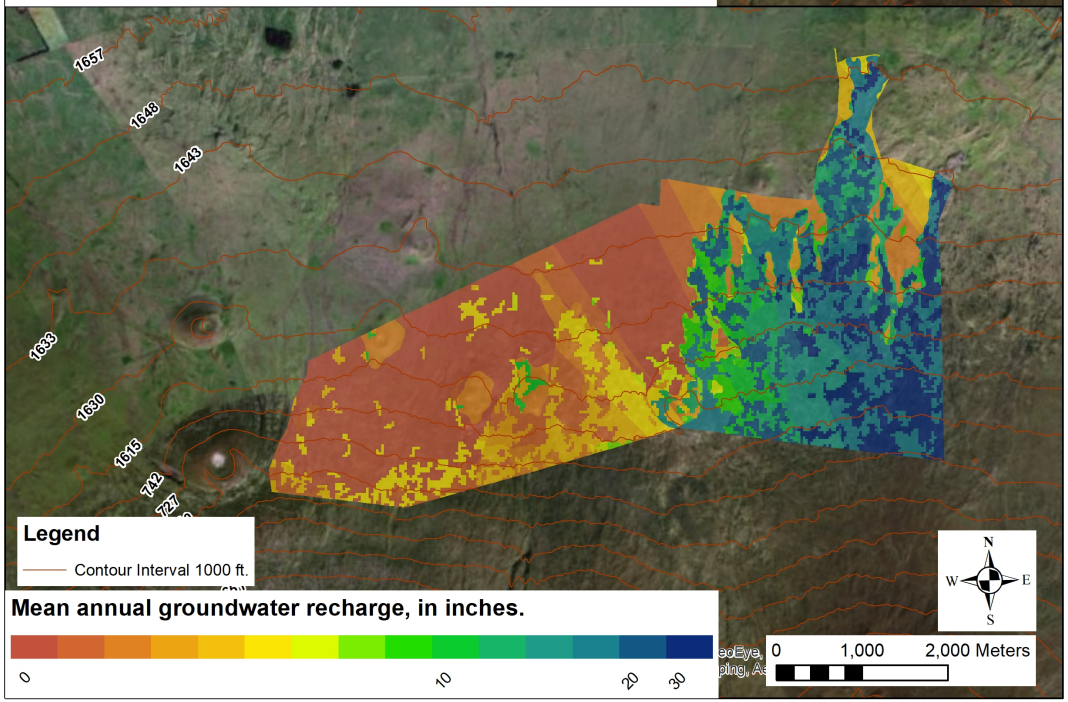
1657
1648
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1633
1630
1615
1742
1727
Legend
Contour Interval 1000 ft.
Mean annual groundwater recharge, in inches.
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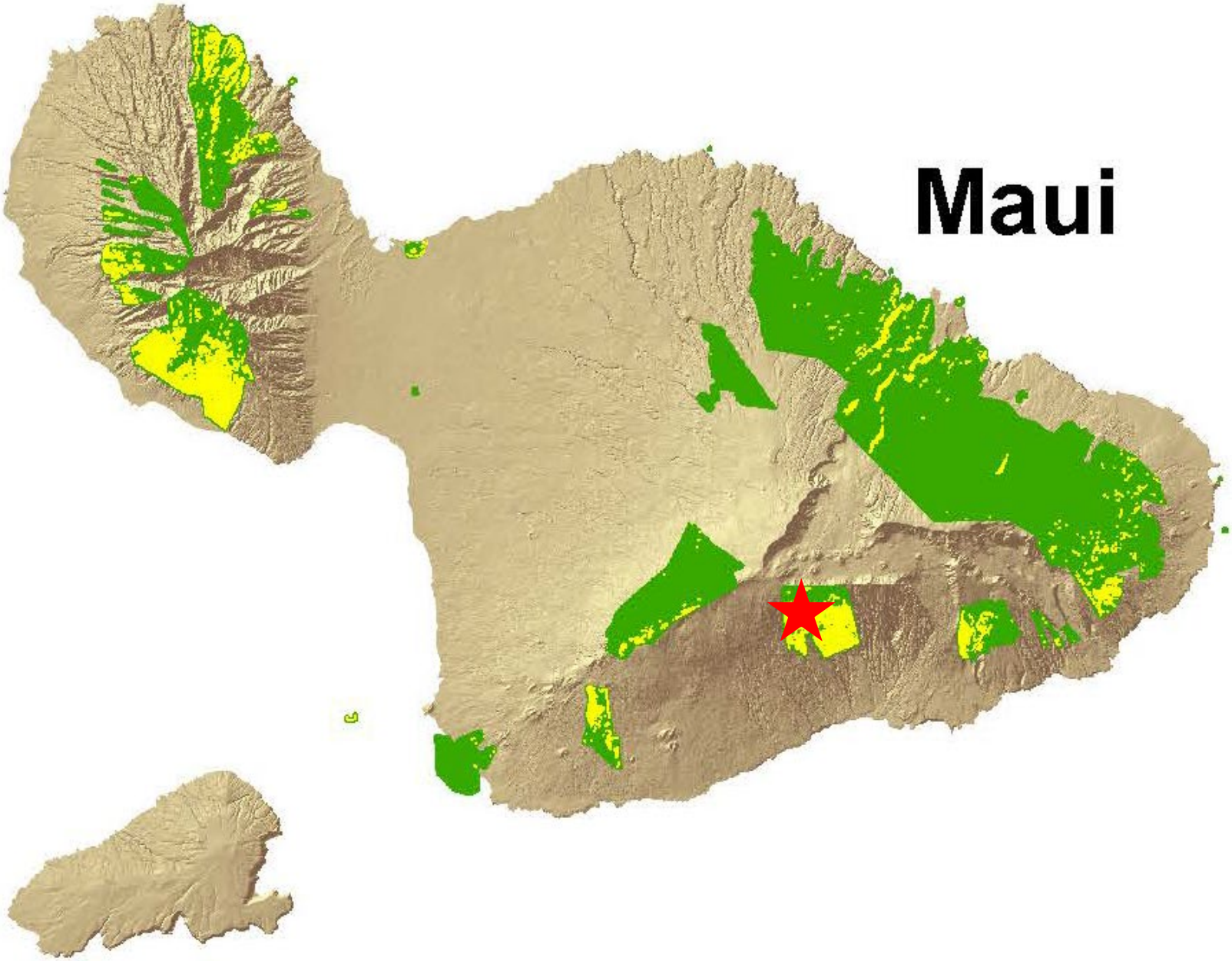
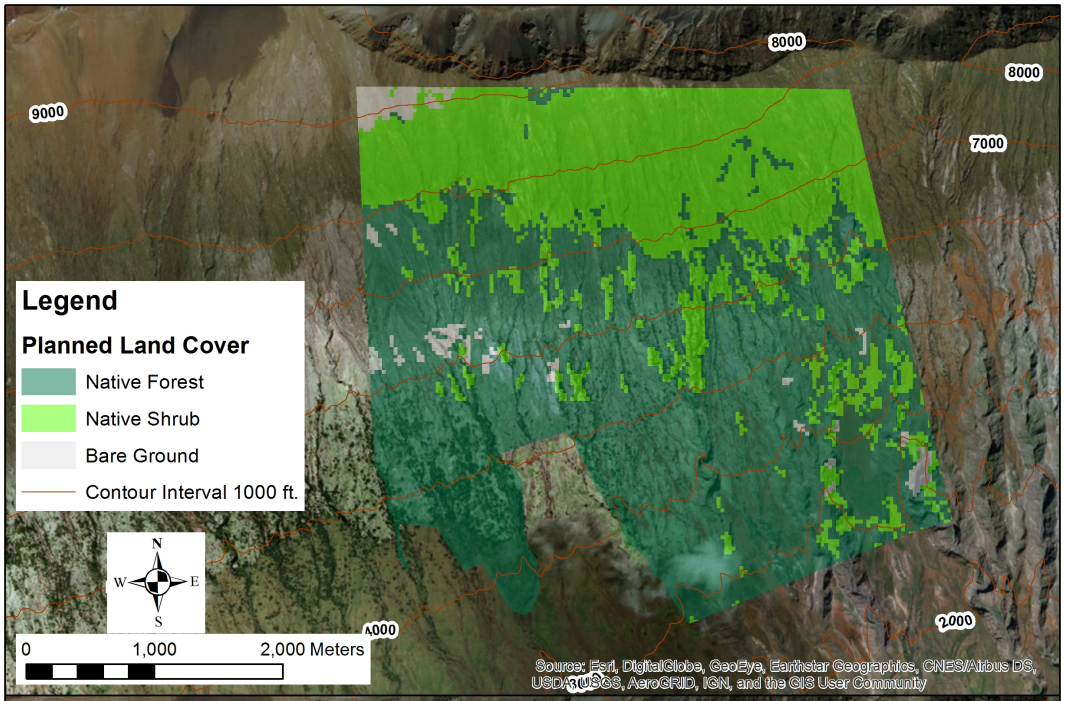

Maui

# Kahikinui/Nakula Forest Carbon Project


Legend
Planned Land Cover
Native Forest
Native Shrub
Bare Ground
Contour Interval 1000 ft.
N
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8000
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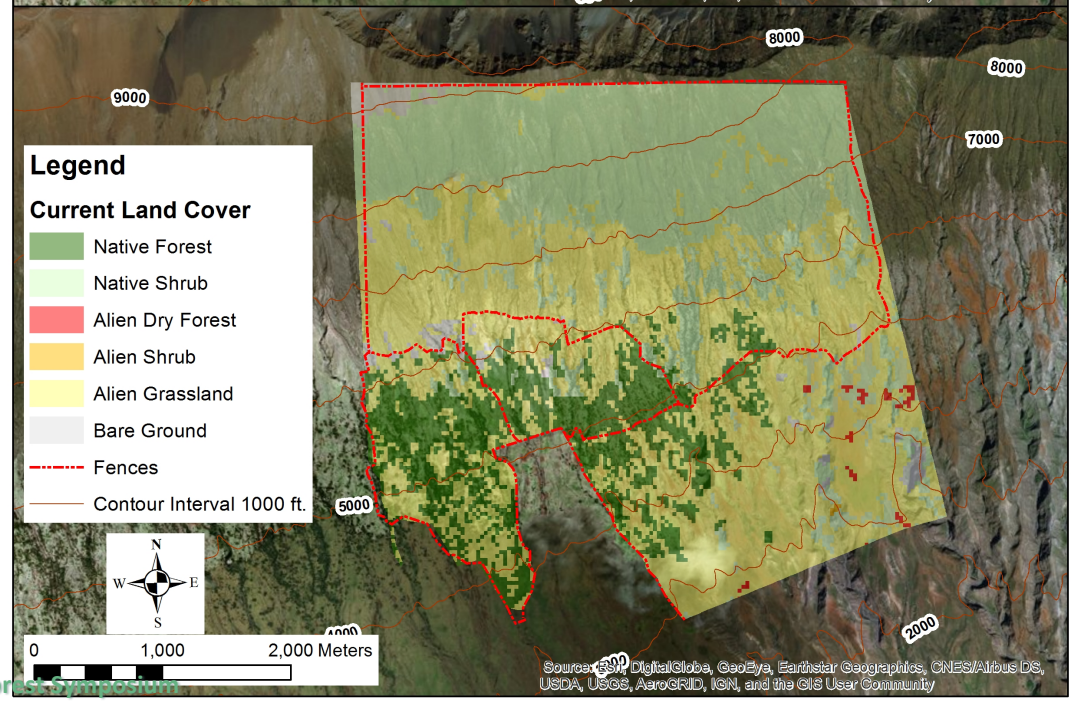
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community


Legend
Current Land Cover
Native Forest
Native Shrub
Alien Dry Forest
Alien Shrub
Alien Grassland
Bare Ground
Fences
Contour Interval 1000 ft.
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1,000
2,000 Meters
8000
8000
9000
7000
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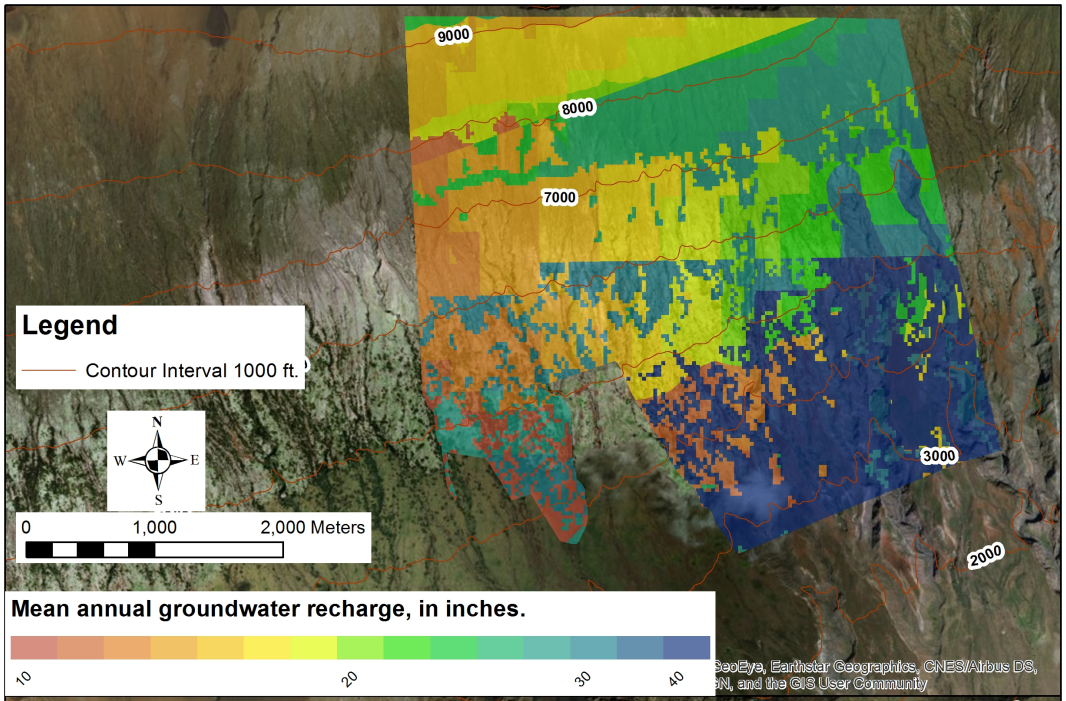
2000
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community


9000
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Legend
Contour Interval 1000 ft.
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2,000 Meters
Mean annual groundwater recharge, in inches.
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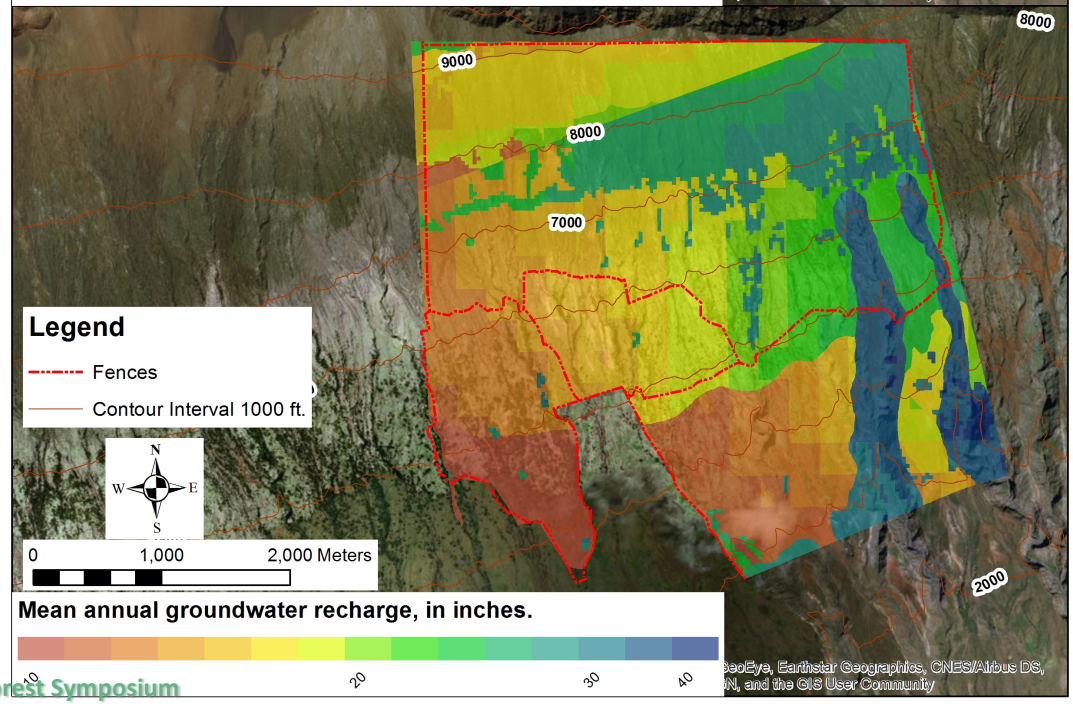
GeoEye, Earthstar Geographics, CNES/Airbus DS,
GN, and the GIS User Community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Fences
Contour Interval 1000 ft.
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2,000 Meters
Mean annual groundwater recharge, in inches.
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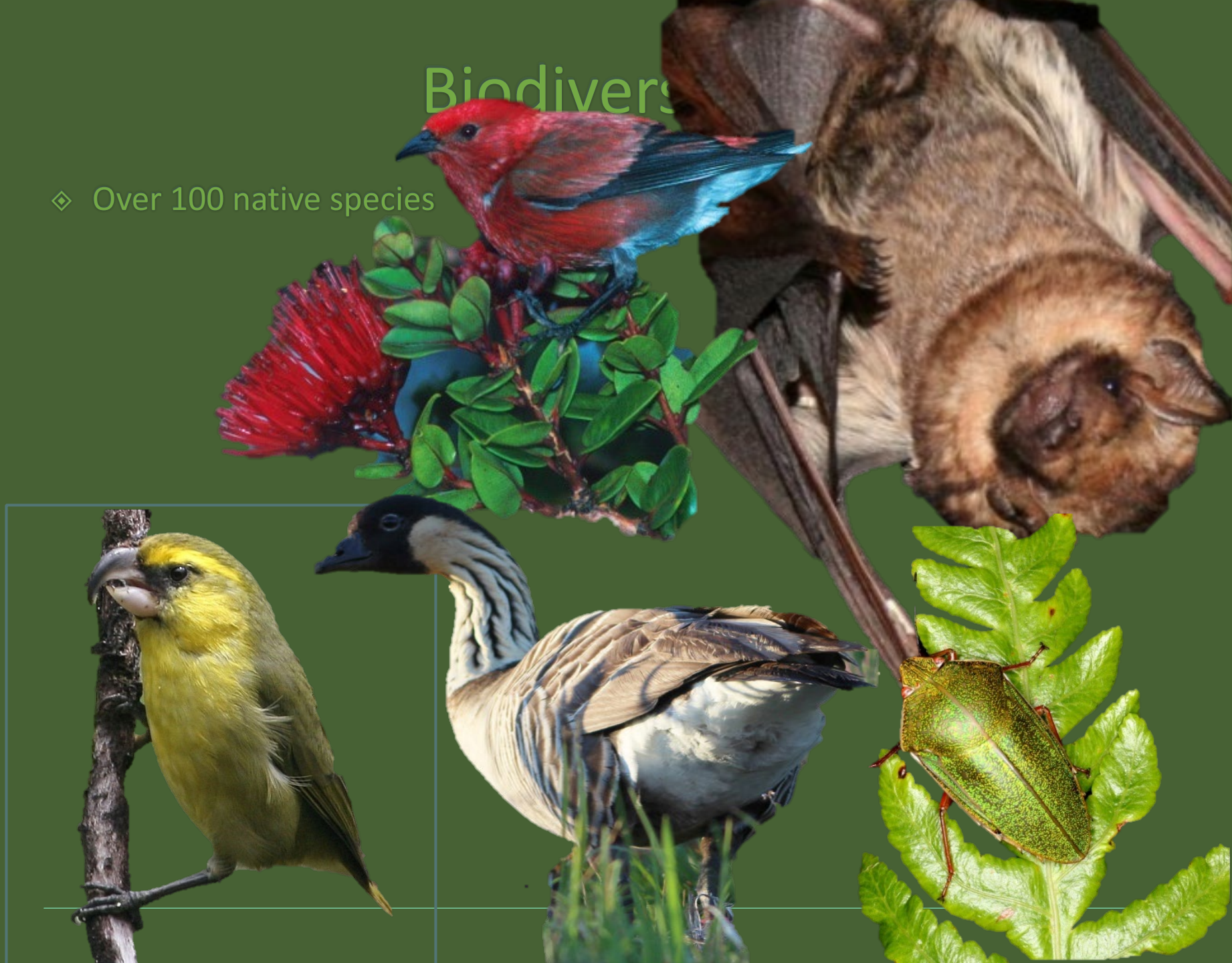
GeoEye, Earthstar Geographics, CNES/Airbus DS,
GN, and the GIS User Community

# Biodivers

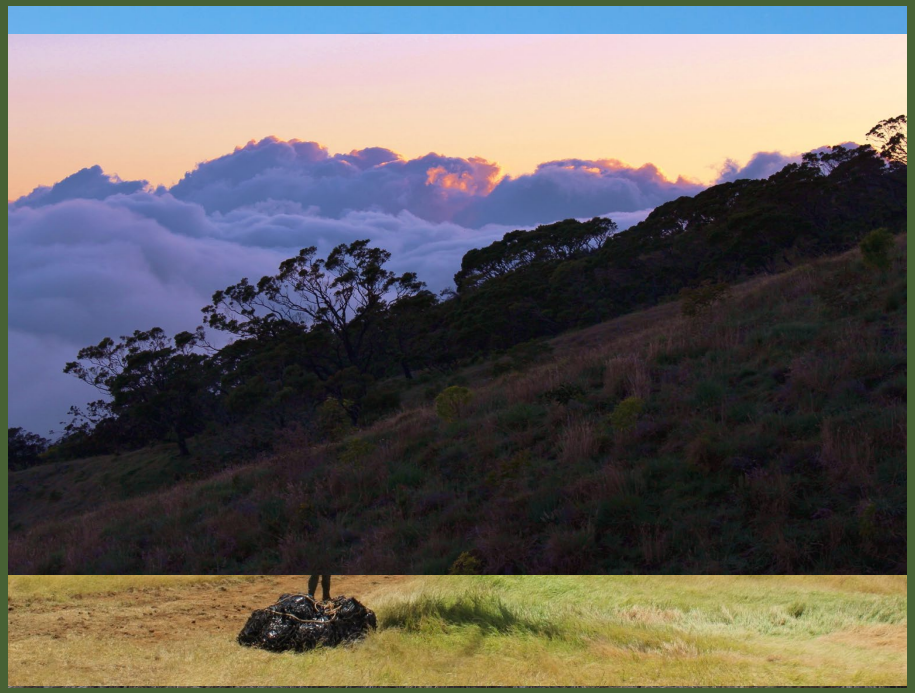
- Over 100 native species



# Green Jobs

# Project Specifics

- USGS: Total of about 94,000 tons of carbon
- Project includes
  - Fencing
  - Site preparation
  - Invasive species removal
  - Planting
  - Certification
- Total budget: about $10.5 million over the 50 years of the Project



# Mahalo!

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