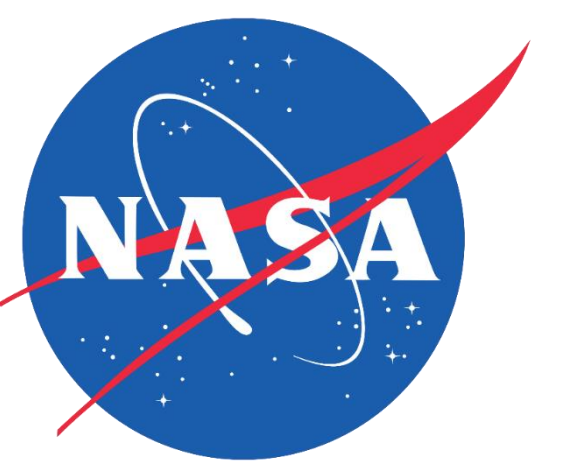# Evaluating the Success of Reforestation Practices in Haiti

Project-Partner Impact

The Haiti Reforestation Partnership has reforested several areas across Haiti. A total of **15.52 million trees** have been planted.

NASA DEVELOP's habitat suitability model (HSM) encompasses **topography, climate, and spectral** predictor variables.

Project impacts include building resilience to **food insecurity** and **expanding** reforestation efforts.

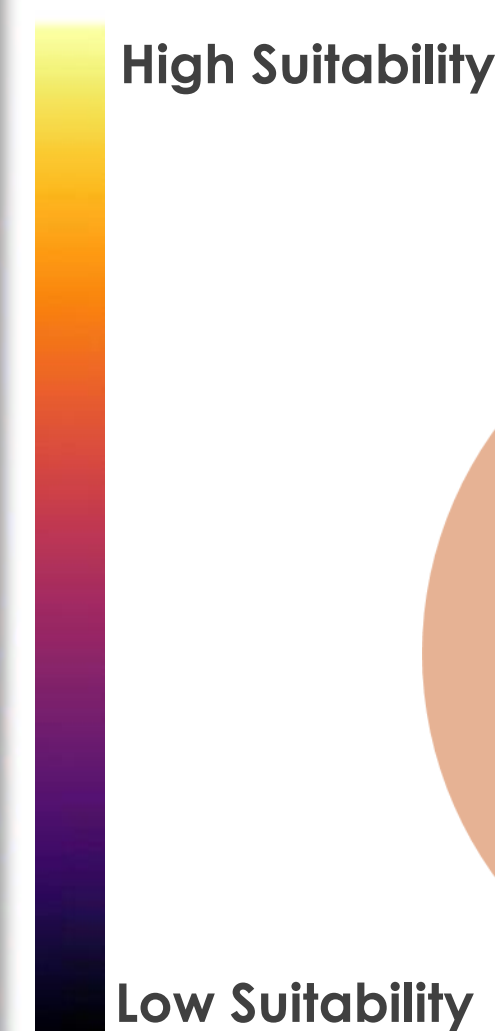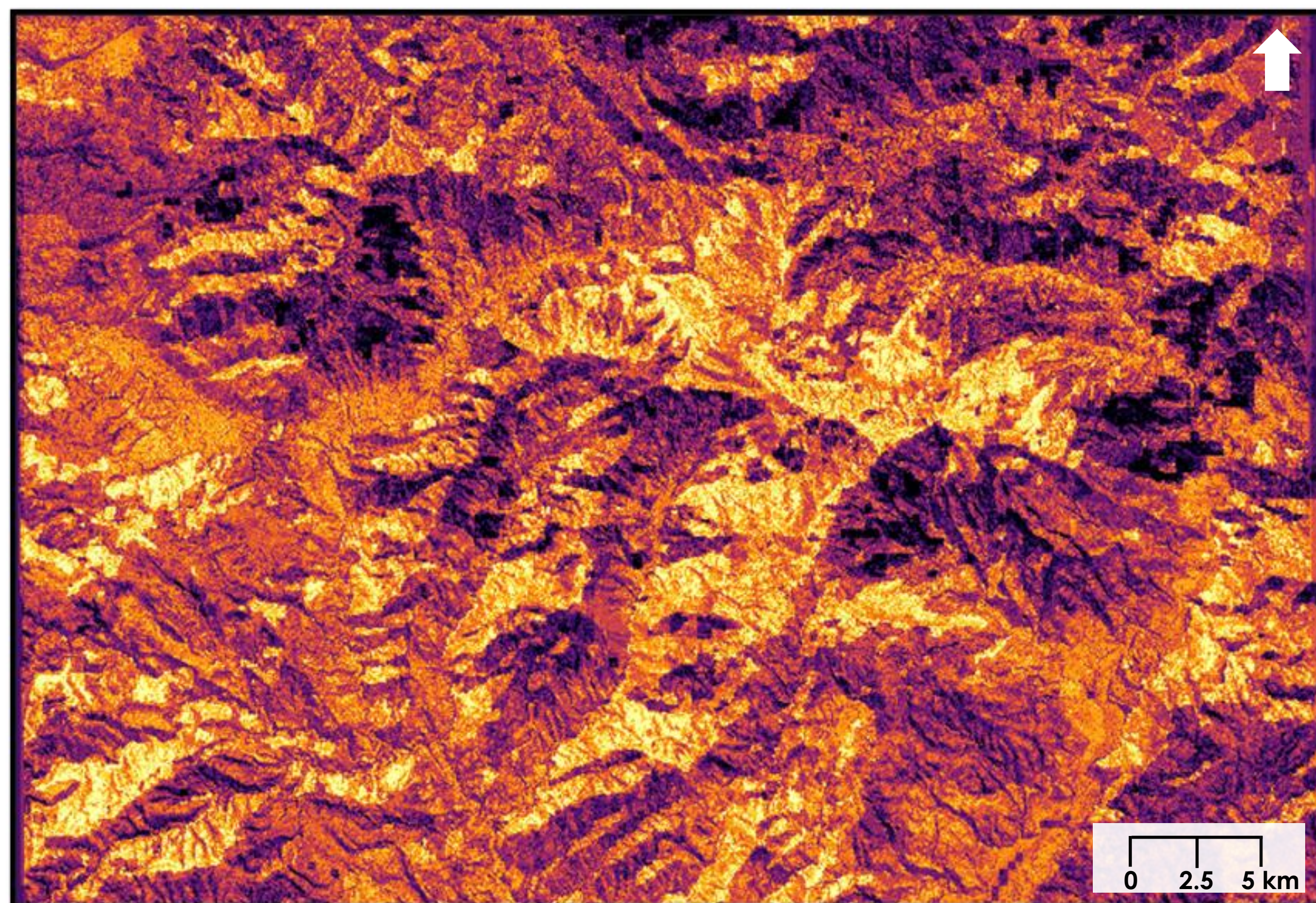## Community Concerns

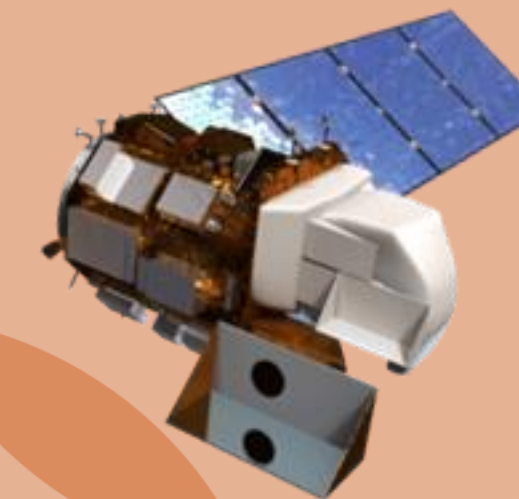**Natural disasters & climate change**

Food security

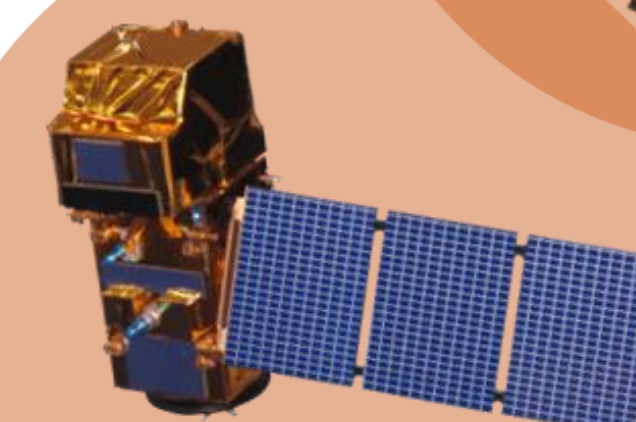**Funding for education & supplies**

- **Design** a habitat suitability model to evaluate current & future plantings for eucalyptus, hardwood, and mango fruit trees.
- **Provide** physical static maps for CODEP workers and guidebook of HSM variables.
- **Create** 3D print models of topographic surface.
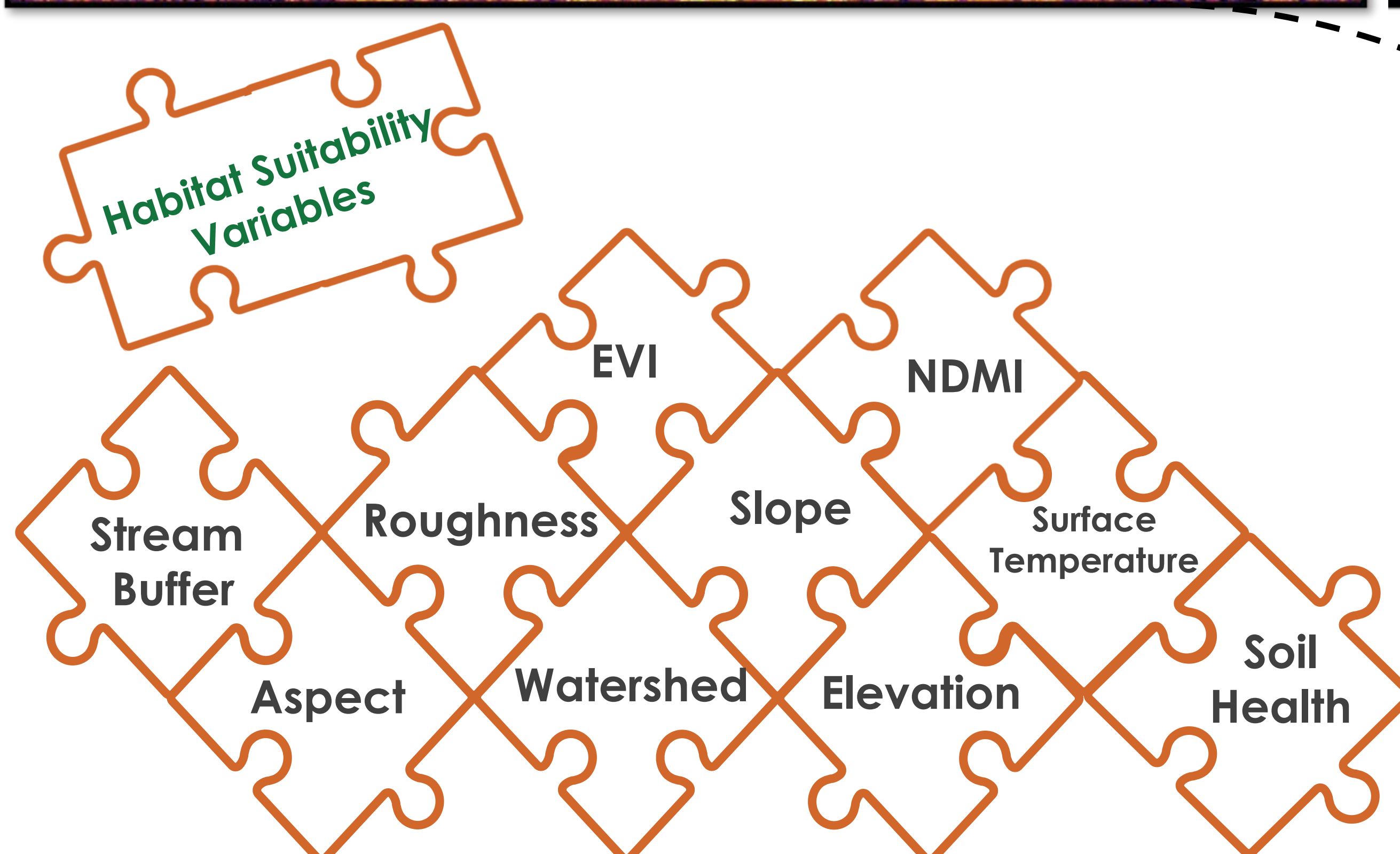- **Produce** a video that highlights HRP to promote the importance of reforestation Haiti.

High Suitability

Low Suitability

0 2.5 5 km

Landsat 8

Landsat 9

Sentinel-2

Other Datasets:
CNIGS Airborne Lidar
PlanetScope/RapidEye
Digital Chart of the World Server

Study Area

Port-Au-Prince

Fondwa

Habitat Suitability Variables

EVI | NDMI | Stream Buffer | Roughness | Slope | Surface Temperature | Aspect | Watershed | Elevation | Soil Health

Haiti Agriculture

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Acknowledgements