

## ervation Data



# Vision

## GIS

Is Enabling a Sustainable World

## I Analysis

- Access to all-weather road (% access within [x] km distance to rog
- Aerosol optical depth (AOD)
- Percentage of wastewater flows treated to national standards
- Proportion of total water resources used
- World Distance to Water
- Area of public and green space as a proportion of total city space

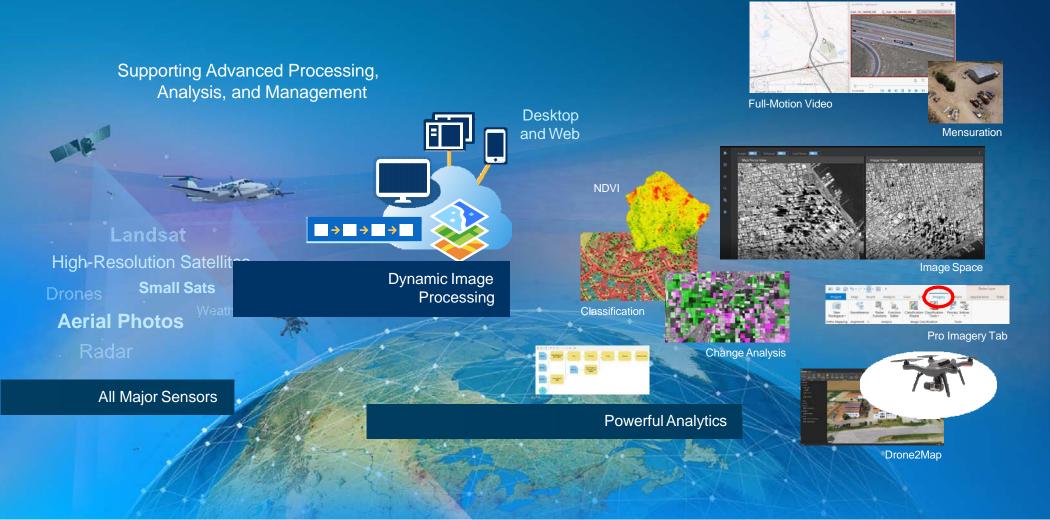


## Think Small

## Implementing a Drone Program



## ArcGIS A Complete Imagery Platform



## Imagery

#### Supporting

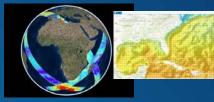
- Powerful Analysis Tools (100+)
- All Major Sensors
- Standard Workflows

# Change Analysis

#### Drone2Map (NEW)



#### Scientific Data



## Image Classification and Segmentation



#### **Orthophoto Generation**

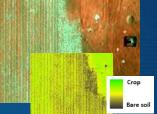




#### Dynamic Processing Chains



#### Multispectral Analysis



#### Oblique Imagery and Measurement



Supporting Single Scenes . . . . . . and Massive Collections

## **Earth Observation Data**

Oceans





Hexagon Imagery



Nearmap Imagery

Land Cover



## **Earth Observation Data**

Valdosta

**Precipitation Estimates** 

Jacksonville

Palm Coast

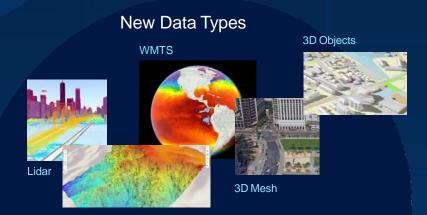
Gainesville



#### **Real-Time Observations**



Weather Radar



Massive Point Clouds



Warnings



#### Earthquakes

## Extracting Information from Imagery

Visualization Measurement Change Detection Feature Extraction Land Cover Classification Elevation Creation

#### Visualization & Measure

#### **Raster Analytics**

#### **Change Detection**



#### **Classification & Extraction**



## Identifying Change

Example of NDVI Change Detection









### **Global Ecological Marine Units**



Industries

Products \* Support & Services \* About \* Community

Sign In

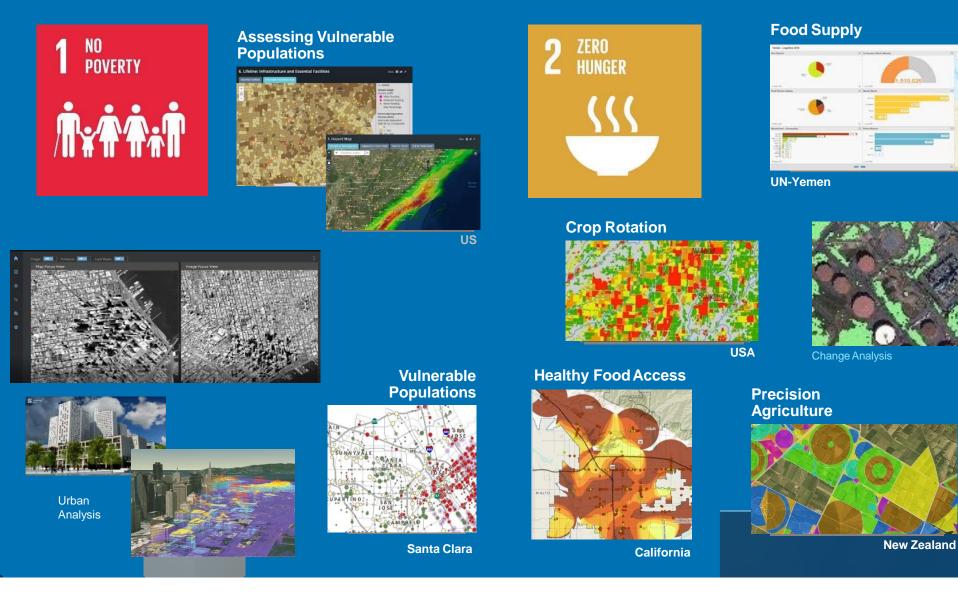
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## Ecological Marine Units

GIS Provides Better Understanding of Ocean Ecosystems

**Ecological Marine Units** 

Main Educate Research Collaborate

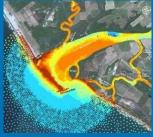








Sediment Change



Mexico

#### Marine and Terrestrial Habitat



Coral Communities



Martinique

Biodiversity



Philippines



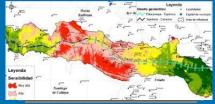
## Emalahieni Ermelo Wildlife Conservation South Africa

#### Habitat Corridors



Atlanta

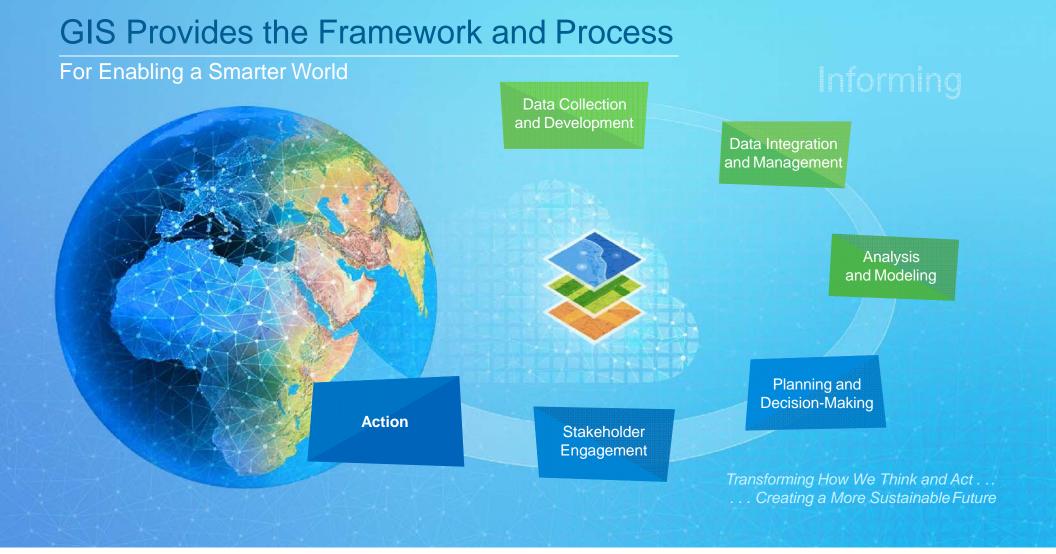
#### **Ecosystem Sensitivity**



Bolivia

Watershed







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