



The location of anything  
is becoming everything.

# The Geospatial Revolution Project

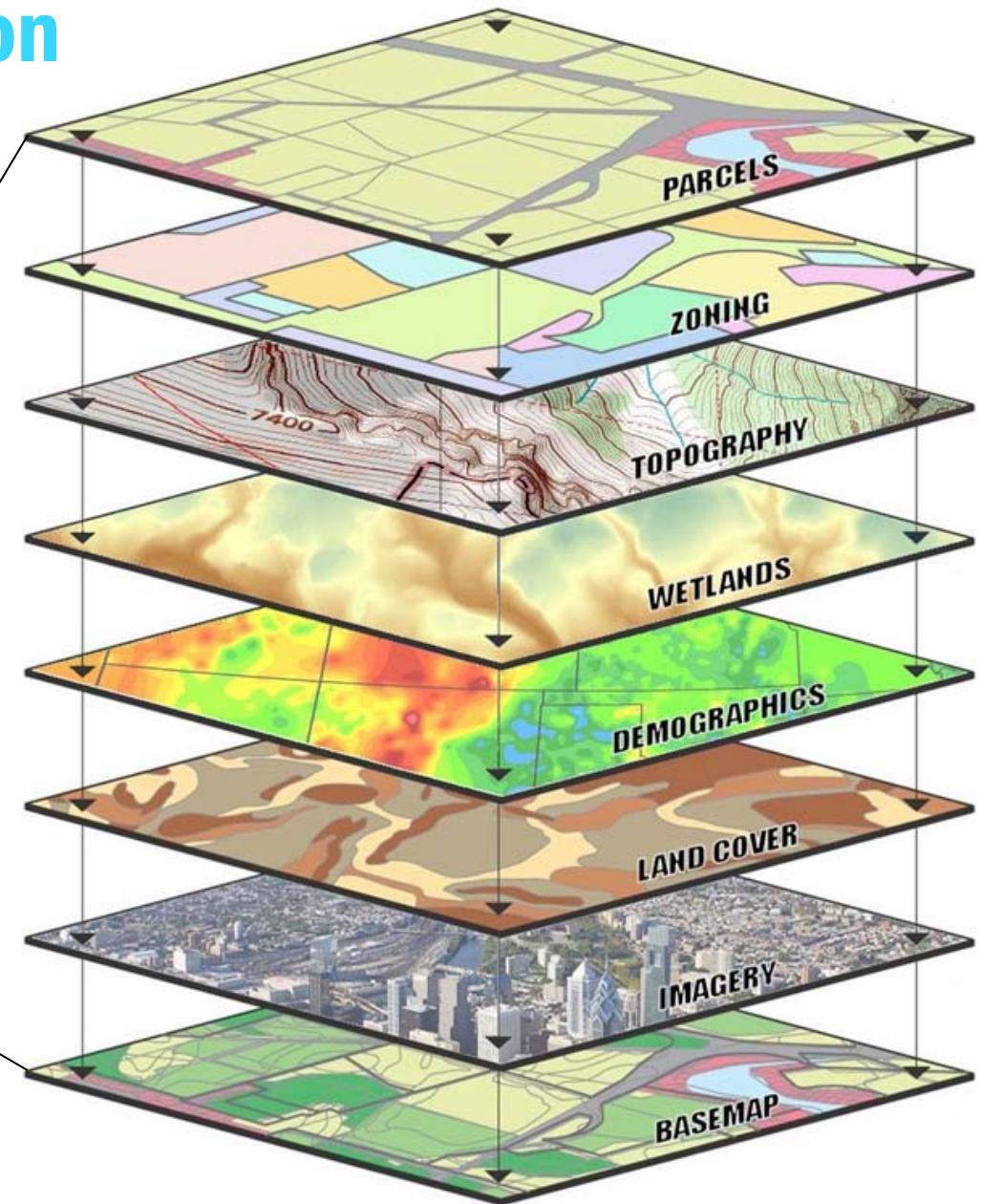
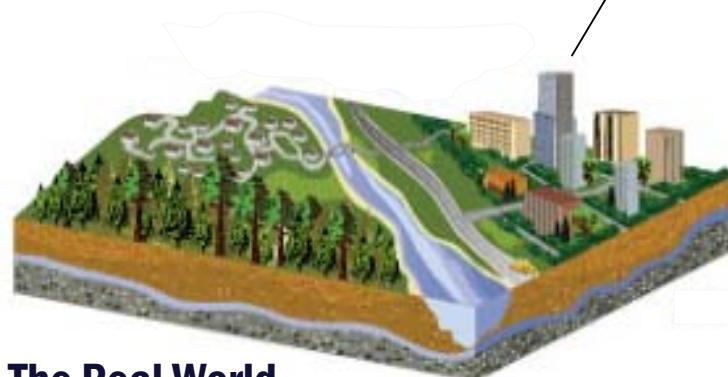


# Geospatial Science

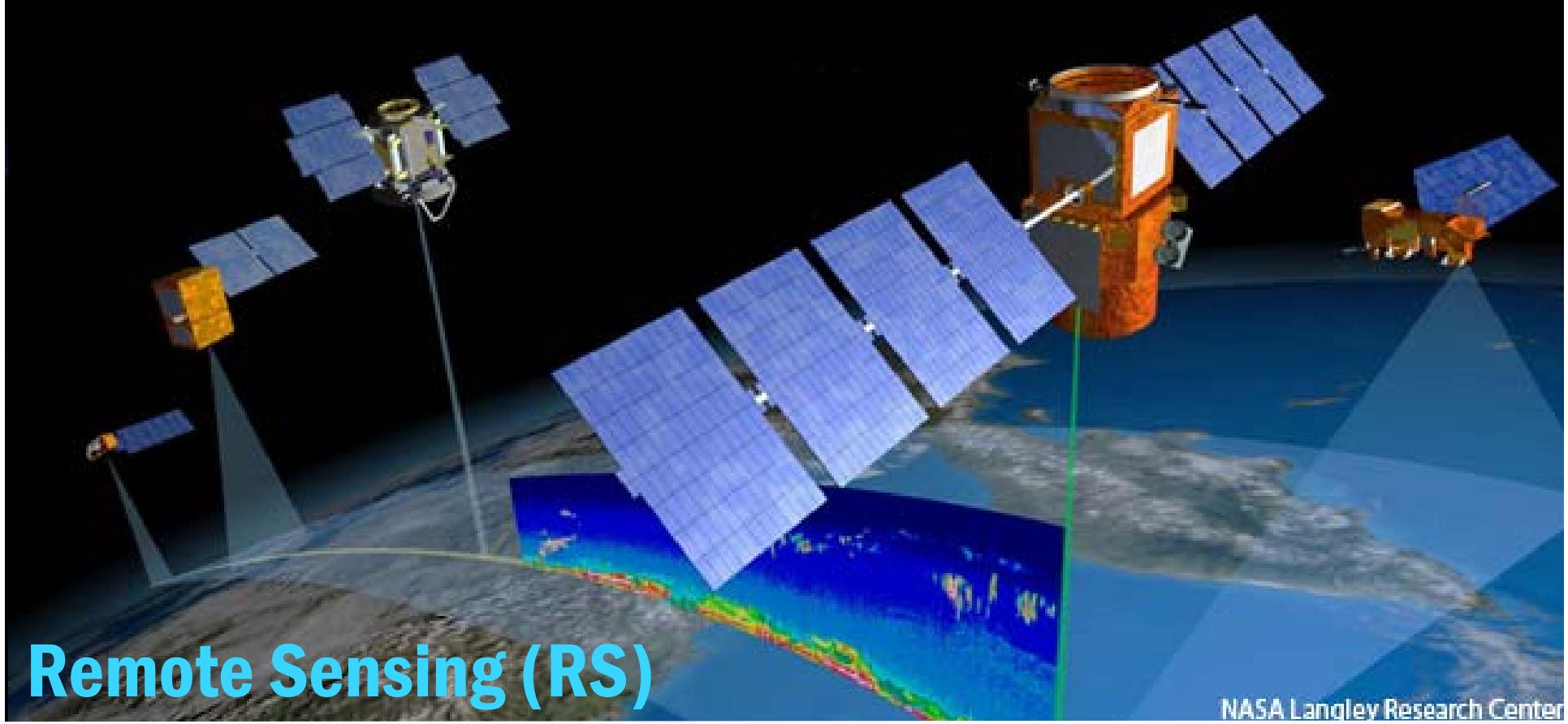
- **Geographic Information Systems (GIS)**
- **Remote Sensing (RS)**
- **Global Positioning System (GPS)**

**“accurate representations of  
the earth”**

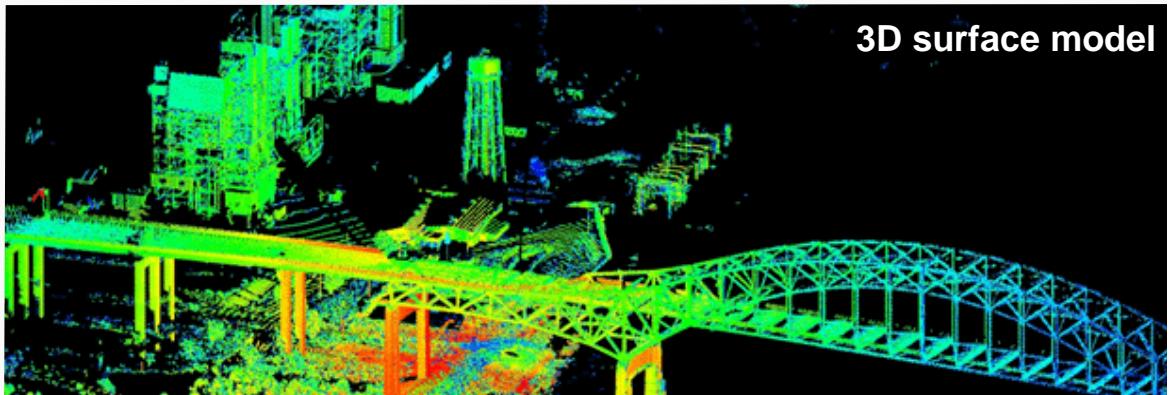
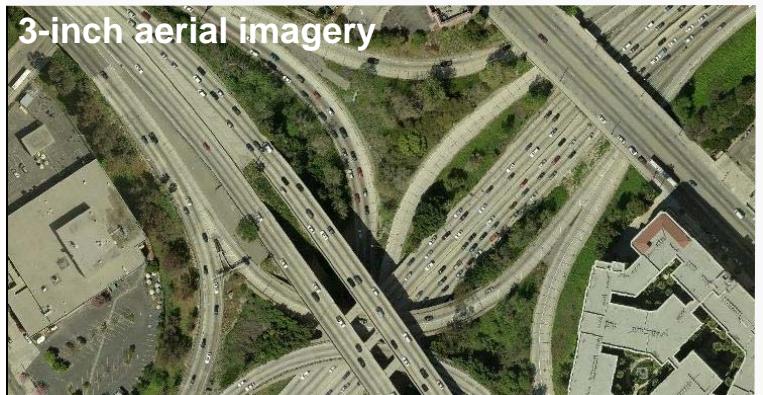
# Geographic Information System (GIS)



The Real World



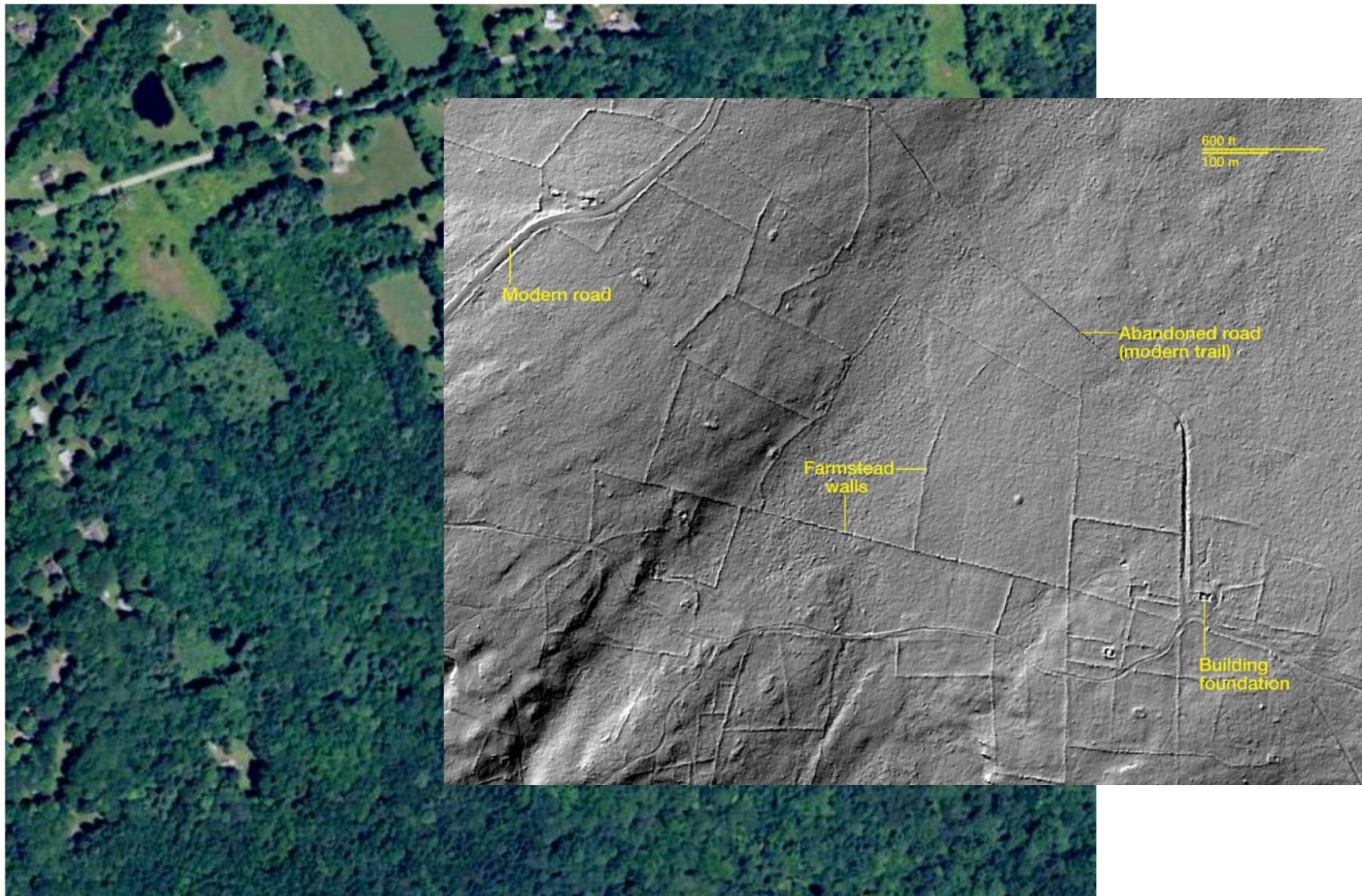
NASA Langley Research Center





**“We simply could not know how the earth works without geospatial technology telling us where things are, how they’re related, how it is put together to tell us the story of what’s really happening.”**

Explore UConn forest aerial photography vs. LiDAR hillshade



## Connecticut Gypsy Moth Caterpillar Damage, 2014 v 2016

Comparison of 2014 and 2016 leaf damage

A story map



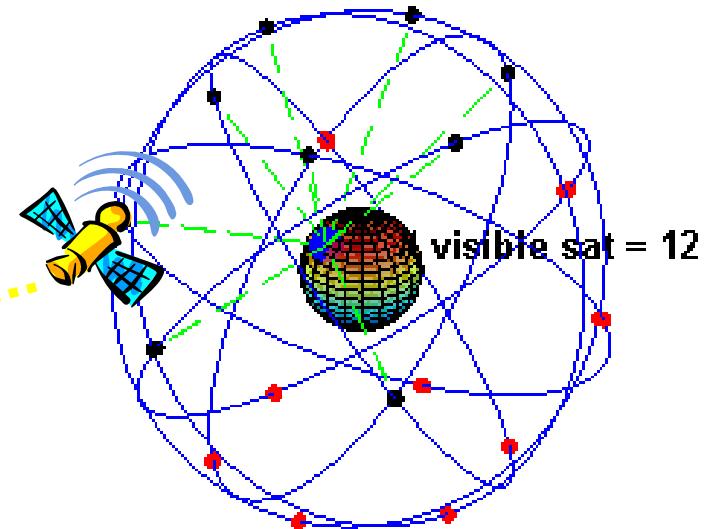
# Global Positioning System



“GPS is a miracle of science  
and technology”

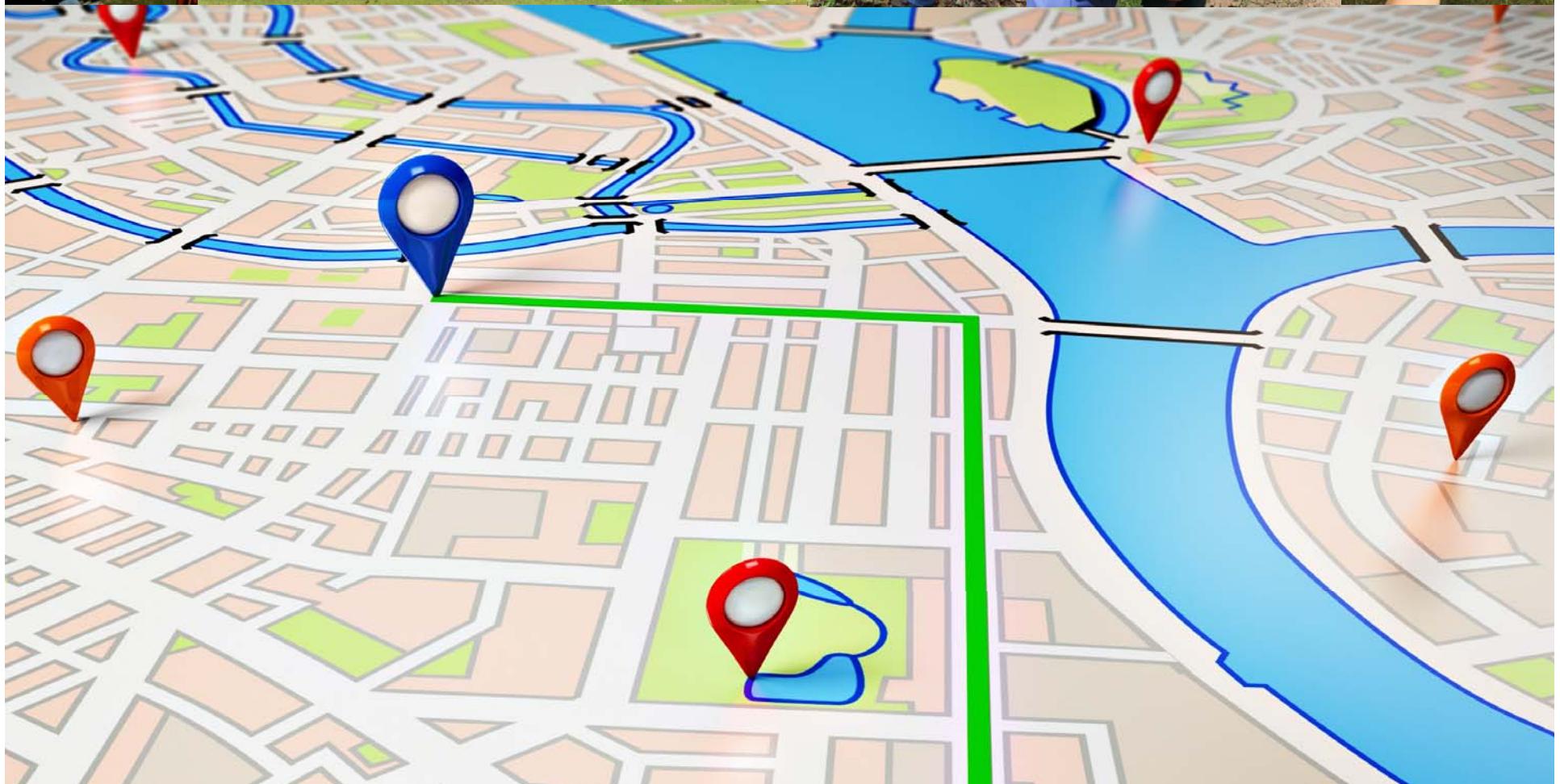






- **24+ GPS satellites**
- **Six orbital planes**
- **4+ satellites per orbit**
- **Altitude  $\sim$  12,600 miles**
- **Each makes two orbits per day**

**The distance to a satellite is determined by measuring how long it takes the radio signal to travel from the satellite to the GPS receiver.**





**“We now live in an  
information ecosystem. It’s  
amazing. It’s cutting edge.  
It’s changing the world.”**

# Your World-Changing Toolbox



## Smartphone Apps

- GPS tracks and waypoints
- Digital field surveys
- Customized web maps

## Geospatial Web Tools

- Story Maps
- CT Environmental Conditions Online

# NRCA Community Projects

## Maps & Apps for Community Conservation Projects

Examples of technology in action from UConn's Natural Resources Conservation Academy



Natural Resources Conservation  
Academy

Introduction Trail Mapping Field Surveys Invasive Species About the NRCA

Introduction



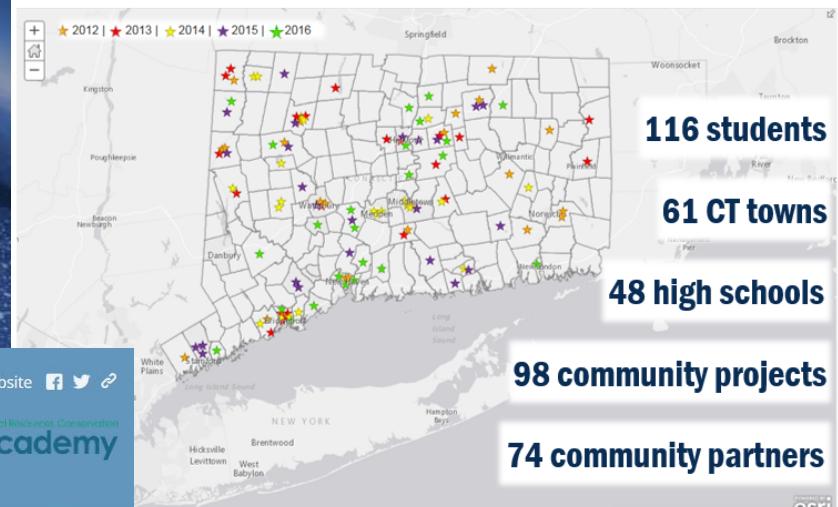
*Harnessing technology  
to make your community  
a better place.*

Mapping technology is more accessible than ever these days. In fact, it fits in your pocket. With a few strategic downloads to your smart device, you can use it to help you conduct a wide variety of local conservation projects. This brief story map describes smartphone applications that can be useful for mapping-related conservation projects. It also presents



<http://s.uconn.edu/nrcastorymap>

As of 2016:



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# So much more!

# GEOSPATIAL REVOLUTION PROJECT

## GEOSPATIAL REVOLUTION

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Trailer

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Episode 2: Full Episode (14:42 minutes)

Chapter 1: Creating an Interactive City

Chapter 2: Powering Business

Chapter 3: Finding a Healthy Future

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