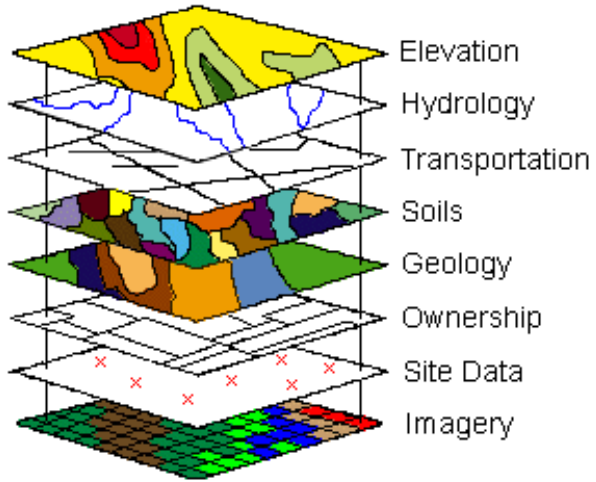


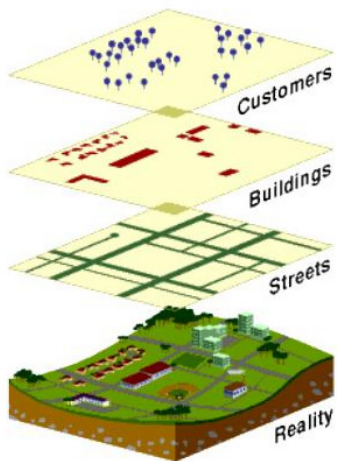
## GIS Data Layers



# Geospatial Technologies

## Minor in Geospatial Science

Here at USFSP



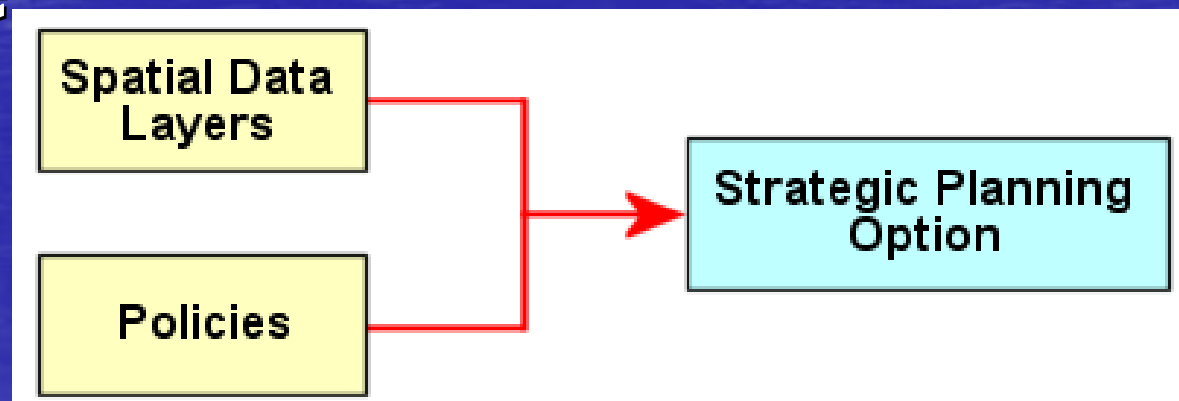
[http://www.usfsp.edu/coas/espg/Student\\_Degree.htm#geospatial](http://www.usfsp.edu/coas/espg/Student_Degree.htm#geospatial)

# Geospatial Technologies Help

- Map Where Things Are
- Map Quantities
- Map Densities
- Find What's Nearby
- Map Change



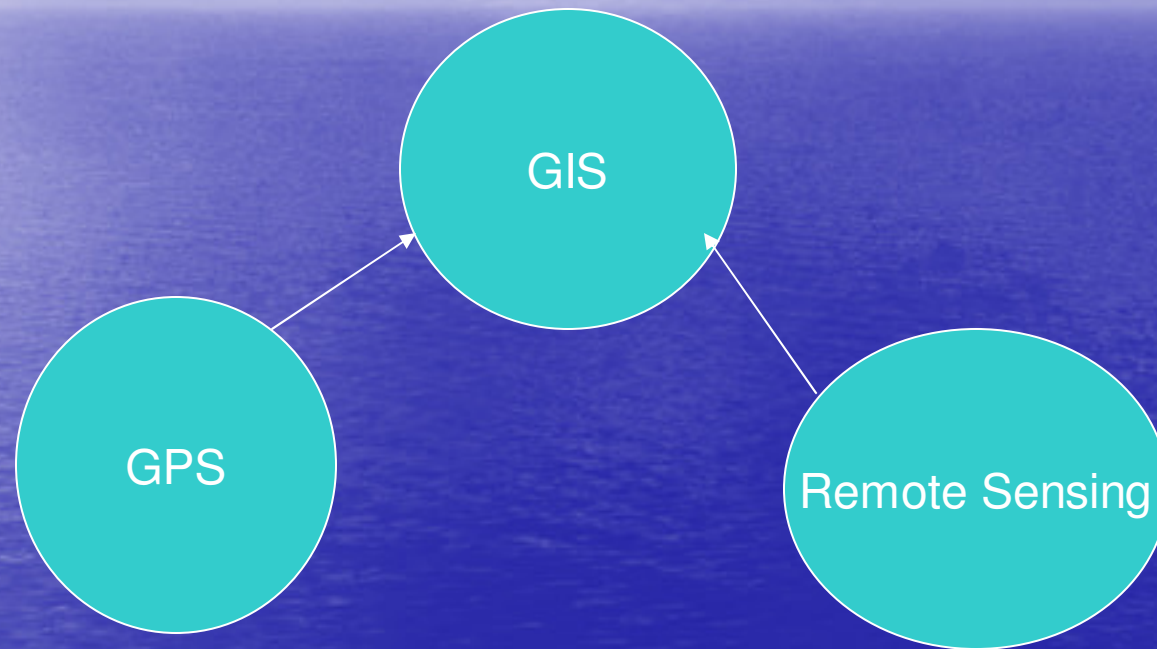
Smart Maps: Data and Graphics



# But why GIS?

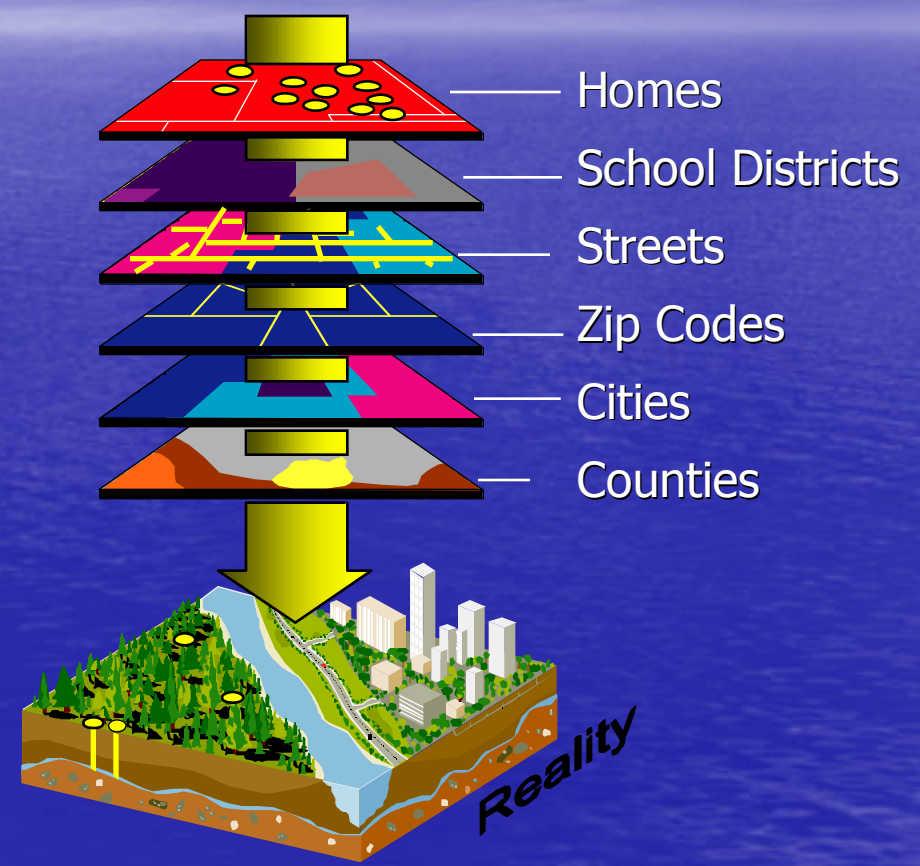
- GIS is about finding patterns.
- Lots of data coming from different sources. You will want to consider all of it to make better decisions.
- Answer the questions of location such as where, why, and how.
- Solve problems and make decisions.
- See patterns and trends that spreadsheets alone won't portray.

# Geospatial Technologies



# GIS

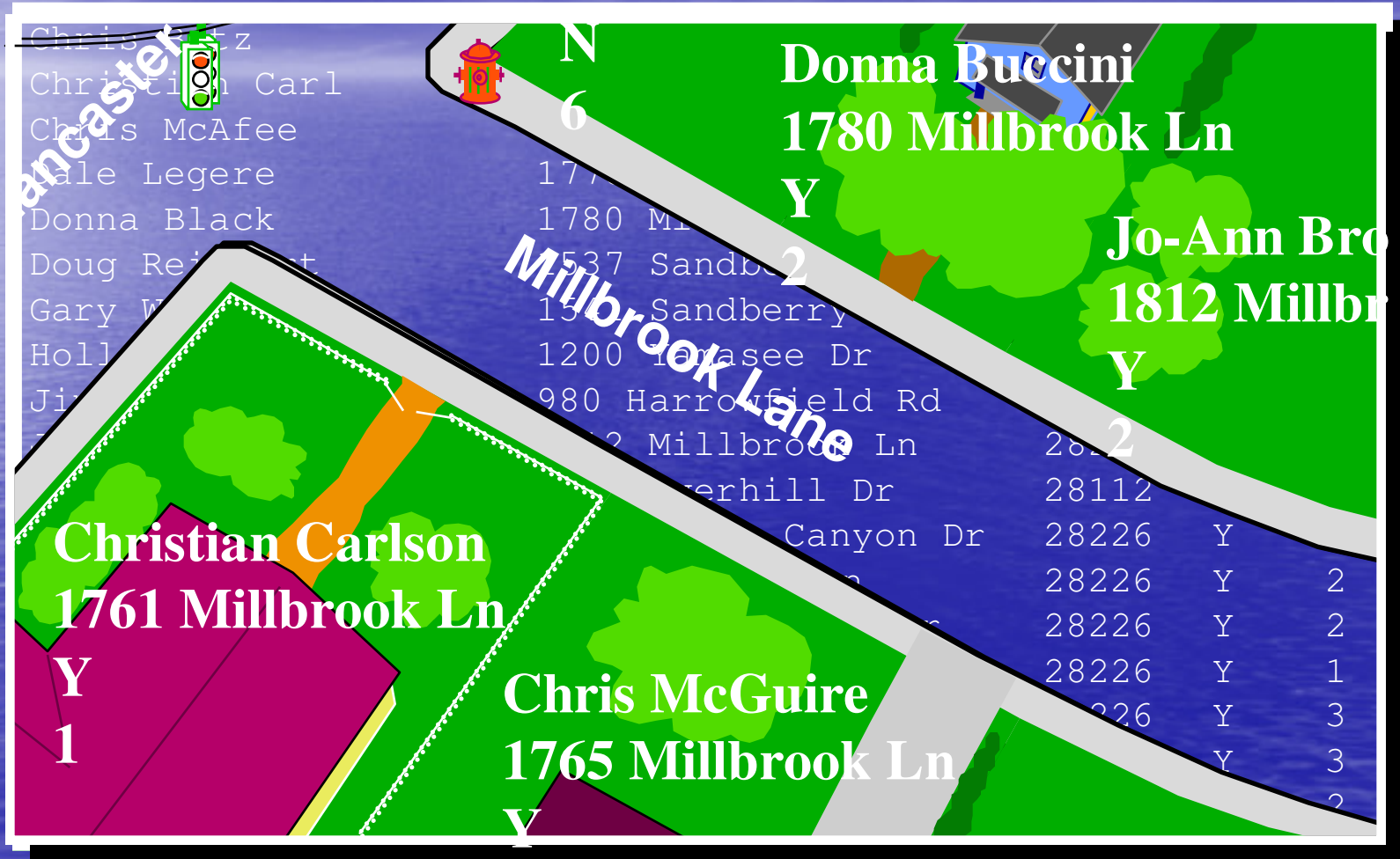
- GIS is an abbreviation for geographic information system, which is
  - computer software that maps and analyzes geographic data



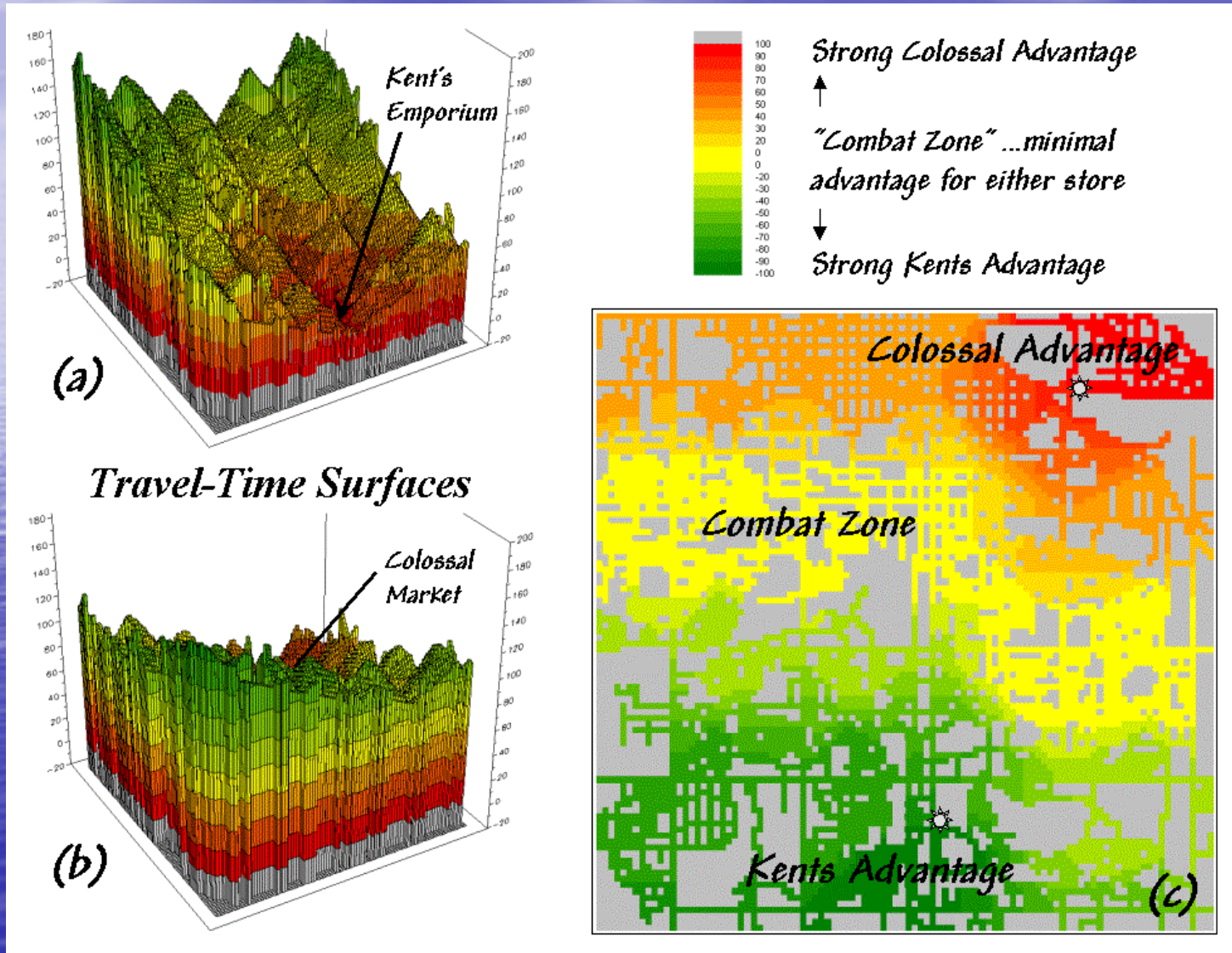
# What are the some Industries that use GIS

- **Electric/Gas Utilities**
- **Business/Marketing**
- **Telecommunications**
- **Transportation Logistics**
- **Petroleum & Mining**
- **Pipeline**
- **Water & Wastewater**
- **Health Care**
- **Federal Government**
- **National Agencies**
- **Environmental Mgmt.**
- **Local Government**
- **Public Sector**
- **Retail**
- **Military/Intelligence**
- **CAD**
- **Mapping**
- **Land Use Planning**
- **Real Estate & Cadastral**
- **Site Location**
- **Agriculture**
- **Forestry**
- **Land Use Planning**
- **Risk Management**

# GIS Combines Maps and Data



# Analyzing Retail Competition



# Marketable Skills

- Job: Data miner, search engine analyst, competitive intelligence analyst
- Job: Crime Analyst
- Major: Information Science
- Value added skills:
  - Web analytics, statistics, human/census data analysis using GIS
- Major: Criminology
- Value added Skills
  - Statistics and GIS

# Geospatial Industry : Growing Fast!

- Find out more about this growing field and Job Market from the US Dept of Labor!!
- <http://www.doleta.gov/Brg/JobTrainInitiative/>

# Dedicated Job Search Engines

- [www.gjc.org](http://www.gjc.org)
- [www.gisjobs.com](http://www.gisjobs.com)
- [www.geojobs.org](http://www.geojobs.org)
- [giscareers.com](http://giscareers.com)
- [gisgig.com](http://gisgig.com)
- [www.gis.com](http://www.gis.com)
- [www.geosearch.com](http://www.geosearch.com)



# Discipline-Based Geospatial Related Information

# Marketable Skills

- Job: Business intelligence analyst
- Major: Business
- Value Added Skills
  - Computer science, business statistics, GIS
- Job: Marketing research analyst
- Major: Marketing
- Value Added Skills
  - Consumer behavior, Marketing, Database software, GIS

# Marketable Skills

- Job: Research/Management assistant (social policy)
- Major: Social Science, Public Policy
- Value Added Skills
  - Research Methodology, GIS
- Job: Anthropologist or Archeologist
- Major: Anthropology/ Archeology
- Value Added Skills
  - GIS, remote sensing and GPS

# Marketable Skills

- Job: Environmental Scientist
  - Major: Environmental Science and Policy
  - Value added skills
    - Analytical chemistry, statistics, GIS, GPS and Remote Sensing
- Job: Field Technician
  - Major: Environmental Science
  - Value added skills
    - GIS, GPS and Remote Sensing

# Job Search Engine: GIS (Archeology/Anthropology track students with sufficient GIS skills)

- The best current job-hunting site for GIS is through the University of Minnesota: GIS Jobs Clearinghouse  
<http://www.gis.umn.edu/rsgisinf./jobs.html/>
- GeoSearch <http://www.geosearch.com/>. Extensive listings of GIS jobs, salary surveys, etc.
- geojobsources <http://www.geojobsources.com> One of the most extensive listings of career opportunities in the spatial data professions.
- Geoweb <http://www.ggrweb.com/>. Current job postings and resume postings; good directory of web sites and forums, home pages, chat areas, etc.; company index; product and business news; freeware, etc.

Minor in Geospatial Science offered at USFSP meets these criteria

# GIS and Criminology: Information Resources

- <http://www.nij.gov/nij/maps/welcome.htm>
- <http://gislounge.com/crime-mapping-and-analysis/>
- <http://raidsblog.com/2010/03/changing-careers-to-crime-analysis/>
- <http://www.rutgerscps.org/People.htm>
- <http://www.geosearch.com/>
- [http://www.satimagingcorp.com/svc/crime\\_analysis.html](http://www.satimagingcorp.com/svc/crime_analysis.html)

# GIS and Business : Information Resources

- <http://www.esri.com/industries/business/marketing/index.html>
- <https://www.theladders.com/reg/ppc?cr=mcmw064&creative=16771345550&pl=gos-mktg>

# GIS and Environmental Science

- <http://www.clarku.edu/departments/idce/programs/gisde/>
- <http://www.earthworks-jobs.com/>
- <http://www.indeed.com/q-Environmental-GIS-jobs.html>
- <http://www.ejobs.org/>
- <http://www.cyber-sierra.com/nrjobs/gis.html>

# GIS Jobs International Opportunities

- [Agency for Technical Cooperation and Development \(ACTED\)](#)  
[AlertNet](#)  
[Asian Development Bank \(ADB\)](#)  
[Asian Disaster Preparedness Center \(ADPC\)](#)  
[Centre for Research on the Epidemiology of Disasters \(CRED\)](#)  
[Conservation International \(CI\)](#)  
[Cooperative for Relief and Assistance Everywhere \(CARE\)](#)  
[European Commission Humanitarian Aid Department \(ECHO\)](#)  
[Famine Early Warning Systems Network \(FEWS NET\)](#)  
[Food and Agriculture Organization of the United Nations \(FAO\)](#)  
[Food Security and Nutrition Analysis Unit \(FSNAU\)](#)  
[Inter-American Development Bank \(IADB\)](#)  
[International Federation of Red Cross And Red Crescent Societies \(IFRC\)](#)  
[International Food Policy Research Institute \(IFPRI\)](#)  
[International Institute for Environment and Development \(IIED\)](#)  
[International Institute of Rural Reconstruction \(IIRR\)](#)  
[International Organization for Migration \(IOM\)](#)  
[International Relief and Development \(IRD\)](#)  
[International Rescue Committee \(IRC\)](#)  
[International Union for Conservation of Nature \(IUCN\)](#)  
[Management Systems International \(MSI\)](#)  
[MapAction](#)
- National Red Cross and Red Crescent Societies (varies by country or region)

# GIS Jobs in Developing Countries

- [Network for Information, Response and Preparedness Activities on Disaster \(NIRAPAD\)](#)  
[Norwegian People's Aid \(NPA\)](#)  
[Oxfam International](#)  
[Panthera](#)  
[Snow Leopard Conservancy](#)  
[Snow Leopard Trust](#)  
[Swedish International Development Cooperation Agency \(SIDA\)](#)  
[The Nature Conservancy](#)  
[United Nations Assistance Mission in Afghanistan \(UNAMA\)](#)  
[United Nations Children's Fund \(UNICEF\)](#)  
[United Nations Development Programme \(UNDP\)](#)  
[United Nations Educational, Scientific, and Cultural Organization \(UNESCO\)](#)  
[United Nations Environment Programme \(UNEP\)](#)  
[United Nations Joint Logistics Centre \(UNJLC\)](#)  
[United Nations Office for the Coordination of Humanitarian Affairs \(UNOCHA\)](#)  
[United Nations Population Fund \(UNFPA\)](#)  
[United Nations Operational Satellite Applications Program \(UNOSAT\)](#)  
[United States Agency for International Development \(USAID\)](#)  
[Wildlife Conservation Society \(WCS\)](#)  
[World Bank](#)  
[World Food Programme \(WFP\)](#)  
[World Health Organization \(WHO\)](#)  
[World Resources Institute \(WRI\)](#)  
[World Wildlife Fund \(WWF\)](#)

# USFSP Offers a Minor in Geospatial Science!!

- To find out more information about the minor please visit
  - [http://www.usfsp.edu/coas/espg/Student\\_Degree.htm#geospatial](http://www.usfsp.edu/coas/espg/Student_Degree.htm#geospatial)
- Contact: Dr. Barnali Dixon [bdixon@mail.usf.edu](mailto:bdixon@mail.usf.edu)