

GIS Research Laboratory



Spatial Science @ USC

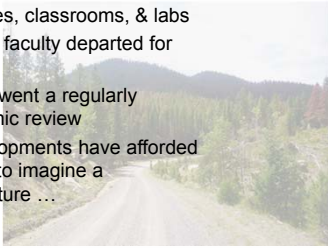
John Wilson
22 September 2009



Spatial Science

The Past Year

- USC Geography Department moved into refurbished space which included new computer resources, classrooms, & labs
- More than half the faculty departed for various reasons
- Department underwent a regularly scheduled academic review
- These three developments have afforded us an opportunity to imagine a completely new future ...



John Wilson
Spatial Science @ USC - 2


The Current Year

- Several key decisions were made in light of faculty departures and academic review ...
 - A newly appointed Spatial Science Faculty Advisory Committee is busy preparing proposals for doctoral and undergraduate spatial science programs
 - USC Geography Department will cease to exist as of 30 June 2010
 - Geographic Information Science & Technology Master's and Graduate Certificate Programs will be retained and slated for growth
 - GIS Research Laboratory will be repositioned and strengthened
 - Center for Sustainable Cities has been moved to School of Policy, Planning and Development

John Wilson
Spatial Science @ USC - 3

GIST Online Programs

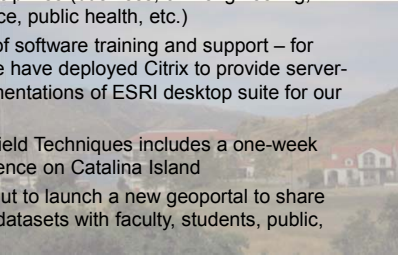
- M.S. Degree & Graduate Certificate Programs
- Full suite of semester-length courses
 - Concepts for Spatial Thinking (R)
 - Spatial Databases (R)
 - Spatial Analysis and Modeling
 - Geospatial Project Management
 - GIS Programming and Customization
 - GIS/GPS Field Techniques (R)
 - Remote Sensing for GIS
 - Cartography and Visualization
 - Web GIS
 - Master's Thesis



John Wilson
Spatial Science @ USC - 4

GIST Online Courses

- Assignments in each of these courses cater to multiple disciplines (business, civil engineering, earth science, public health, etc.)
- Full range of software training and support – for example we have deployed Citrix to provide server-side implementations of ESRI desktop suite for our students
- GIS/GPS Field Techniques includes a one-week field experience on Catalina Island
- We are about to launch a new geoportal to share geospatial datasets with faculty, students, public, etc.



John Wilson
Spatial Science @ USC - 5

GIS Research Lab

- Newly designated ESRI Development Center
- Manages campus site licenses
- Provides various web services
- Large investment in variety of geospatial software & applications
- 5 faculty, 12 doctoral students, 4 master's & undergraduate research assistants, & 3 support staff



John Wilson
Spatial Science @ USC - 6

New Programs ...

- Spatial Science Doctoral Program
 - Spatial Thinking & Analysis
 - Geospatial Information Management
 - Geocomputation
 - More ...
- Spatial Science Undergraduate Program
 - Cartography & Visualization
 - Field Techniques
 - Introduction to Geographic Information Systems
 - Principles of Geographic Information Science
 - Remote Sensing



John Wilson
Spatial Science @ USC - 7

New Collaboration Opportunities

- We need to connect our students with your worlds ...
- Doctoral students – high risk, multi-year projects with flexible deadlines
- Master's students – smaller, less ambitious projects that can be completed in ≤ 9 months
- Undergraduate students – semester-long collaborative projects, internships, etc.



John Wilson
Spatial Science @ USC - 8

Questions ...

Spatial Science Programs
<http://spatialscience.usc.edu/>

GIST Programs
<http://college.usc.edu/gist/>

GIS Research Laboratory
<http://gislab.usc.edu/>



John Wilson
Spatial Science @ USC - 9