IAGT

- The Institute for the Application of Geospatial Technology
  - Not-for-profit organization
  - At Cayuga Community College
  - Promote the application of geospatial technologies
  - Government, business and education sectors

SERVIR-Viz:
3-D visualization tool for Mesoamerica

EarthScope:
Explore structure and evolution of North American continent.

Vineyard Site Evaluation:
Understanding sites for planting grapes.
Geospatially Enabled Module (GEM) Initiative

What is the GEM initiative?
- Collaborative effort
- 4 higher education institutions
- Integrate geospatial technologies into different disciplines
- Develop educational content
- 3 year NASA grant

Why the GEM initiative?
- Teaching with Spatial Technology Workshop (TwiST)
- Existing collaborations
GEM Institutions

Community Colleges
Cayuga Community College
Mohawk Valley Community College

Technology College
Morrisville State College

University College
SUNY Oswego
Participants
GEM Disciplines

Total GEMS = 11

- Biology/Microbiology
- Construction Management
- Criminal Justice
- Emergency Management
- Physics
- Meteorology
- Geology
- Forestry/Wildlife Management
- Natural Resources
General Approaches

- Support systems (steering committees)
- Knowledgeable GIS individual
- Unique

Target Approaches

- Cross-disciplinary
- Template
- Mentoring/team
- Independent
Teaching and Research Approaches

Faculty: advanced
Student: lead

Faculty Research
Student Internships

Geospatial Technologies

Teaching

Classroom

Research

Geospatial students
Knowledge and skill

Expansion: Depth and width in disciplines
Current Status

• Integration of spatial technologies into courses
  – Summer, and Fall 08

• Ideas for further integration opportunities
Achievements…so far

- Courses
  - New discipline courses
  - GIS elective for non-GIS majors
  - Creation of GEM for other faculty courses
  - New degree program

- Faculty/Administration
  - Interest from other faculty
  - Remodeling old and developing new curricula
  - New Institute - Center for Energy Education and Economic Solutions
Achievements…so far

• Industry connections
  – Sharing GEM with NYS DEC
  – Oswego County Emergency Management Office

• K-12 connections
  – College credit high school classes
  – Student camps
Future

- Peer to peer collaborations
- Integrate to other disciplines
- Engage other institutions

Thank you

Email: awork@iagt.org
Website: www.iagt.org
Phone: 315.252.8669
Approaches

- Morrisville State
- SUNY Oswego

Teaching
- Cayuga Community College
- Mohawk Valley Community College