

GIScience Infrastructure Enhancement Highlights from Targeted Excellence Funding February 2008

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Provost's Coffman and Nellis have allocated \$880,000 over the 5 year period between 2004-2008.

The K-State community of GIS scholars is now larger, better connected, and working together.

- New University Staff – Chubb, Mohandass
- New Geography Faculty – Caldas (MICH ST), Daniels (UCONN)
- Vanier Chair in GIS in CBA – offer made to B. Mennecke (Iowa State)
- Close Cooperation with CTS Staff – Networking, Windows, Databases
- Co-Located Federal Researchers – EPA, NPS, USDA APHIS
- Support for Faculty/Staff Training – OME, Marketing, Biology
- Formation of All-University GIS Steering Committee

Extramural funding that incorporates GIScience continues to expand.

- K-State has become a national leader in using GIScience to address issues related to agricultural biosecurity and water resources.
- No less than \$15 of funding received for each GIScience TE dollar invested.
- No fewer than 35 extramural grants, totaling over \$11 million, have been awarded to KSU researchers since GIScience TE Phase I funding (see <http://gis.ksu.edu/CMS/research>)
- KSU won 2005 ESRI Special Achievement in GIS Award for Agriculture - <http://www.esri.com/industries/agriculture/success-stories/sag.html>

TE funding has been used to acquire new, essential hardware and software.

- Completely new server infrastructure devoted to GIS (see attached figure)
- GeoWall
- Expand ESRI site license to include new extensions – Business Analyst, Tracking Analyst, and Data Interoperability

K-State faculty and staff continue efforts to make the university GIScience Commons a reality.

- Developed proposal in 2005
- Submitted entries to the Congressional Briefing Book
- Developed and maintain a formal web presence – <http://gis.ksu.edu>
- Developed phased approach document to implement plan (October 2007)

Student training opportunities in GIScience and GIScience application areas have dramatically increased.

- Course enrollments at all time highs (e.g., GEOG 508 GIS I: 45-60-90), placing increasing demands on computer lab space
- With additional faculty and staff expertise on campus, more courses will be added – especially at the graduate level
- Graduate (26 complete) and undergraduate (14 complete) certificate programs very popular (see attached figure)

K-State is now a contributing member of the University Consortium for GIScience (UCGIS).

- Joined in 2004
- Continuous presence at UCGIS functions
- Presented “Protecting Public Health and Food Supplies: GIScience Research for Understanding Plant, Animal, and Human Biohazard Interactions” at UCGIS Congressional Breakfast in February 2005.

There are numerous GIS-related synergistic activities happening across campus.

- VPAST Geospatial Tech Lecture Series – Maidment, Wright, Bechdol
- Provost Speakers – Dangermond, Clarke
- Faculty and Staff Training Grants – Marketing, Biology, OME
- Strong linkages with a number of departments and centers/institutes – NABC, FSS, Veterinary Diagnostic Lab, KCARE, Kansas Cooperative Fish & Wildlife, KSU Herbarium, GroWE, Konza LTER
- New KSU ESRI GIS User Group

There is limited flexibility in the use of GIScience TE funding, given commitments to funding new faculty/staff.

- Phase 1 – \$330,000
 - Spent: 53% Salaries/Fringe, 40% Equipment/Other, 7% Travel
 - 57% of grant total spent on one staff member (Chubb)
- Phase 2 – \$550,000
 - Planned: 77% Salaries/Fringe, 12% Equipment/Other, 6% Travel
 - Spent: 63% Salaries/Fringe, 25% Equipment/Other, 12% Travel
 - 40% of grant total will be spent on one faculty member (Caldas)