



DEPARTMENT OF

Geographical Sciences

BE GLOBAL

**Overview of the  
Department  
of  
Geographical Science**



# Department Composition

## 32.5 State-Funded employees

- 13 T/TT
- 1 Lecturer
- 5.5 staff
- 12 Grad Asst's

## 128.5 External/Soft funded employees

- 8 Lecturers
- 36 Research Professors
- 10 Research Associates
- 30 Faculty Research Assistants
- 38 Graduate Assistants
- 6.5 Staff

- 17 Adjuncts
- 5 Emeritus

## Students

- 80 Ph.D. Students
- 126 Master of Professional Studies in Geospatial Information Sciences (MPS/GIS)
- c. 200 Bachelors (Majors)
  - Minors
    - GIS Minor,
    - Remote Sensing of Environmental Change Minor

***GEOG ranked by NRC as #3 in the nation***

***for PhD granting Universities***

# Key Research Themes

## and example research projects

### Human Dimensions of Global Change – Coupled Human - Natural Systems

- Studies of linkages between socio-economic systems, environment and climate change
  - E.g. Spatial Aspects of Environment and Human Health

### Land Cover – Land Use Change

- Studies key interface between human and natural systems
  - E.g. Global Forest Monitoring using Remote Sensing

### Carbon, Vegetation Dynamics and Landscape-Scale Processes

- Studies monitoring and modeling global vegetation dynamics and carbon
  - E.g. Modeling the Impacts of major Disturbances on the Earth's Coupled Carbon-Climate System

### Geospatial-Information Science and Remote Sensing

- Studies utilizing big data, geospatial data mining, analysis and visualization
  - E.g. Global Satellite Algorithms and Products



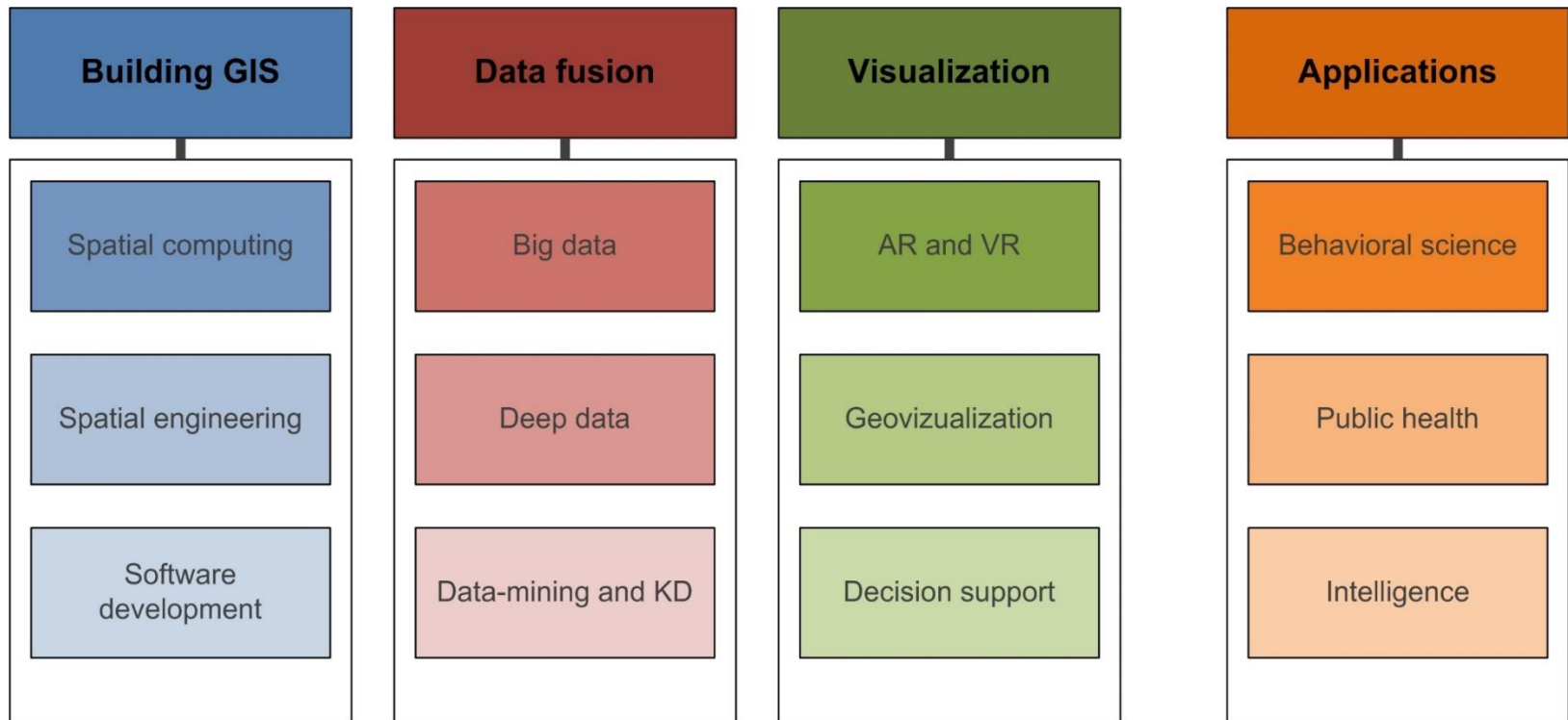
# Research Statistics

- Externally funded research volume passed \$12.5 million
  - FY15 research volume to date (3 quarters) \$12.3 million
  - 3 year total (FY12-FY14) \$38,275,948
  - 5 year total (FY10-FY14) \$57,986,871
- \$6.15 dollars in grant income for every \$1.00 in state funding
- 3<sup>rd</sup> highest externally funded academic department on campus

## Primary External Funding Sources

- NASA, NOAA, DOE, USGS, USAID, USDA
- Gates Foundation, Moore Foundation

# New BSOS Center for Geographic Information Science



## New Facilities

- Spatial data hub
  - Geocomputation facility
- = **Advanced R&D**

## New Learning Space

- Studio-based classrooms
  - Situation room
- = **Advanced education**