Introduction of GIS into Civil Engineering Curricula

Investigators:
Ghulam H. Bham (ghbham@mst.edu, 573-341-6286), Ronaldo Luna (PI), Richard Hall, Vincent Yu, Uday Manepalli, Aparna Sukavasi, Prathyush Banarjee

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Project Description:
The objective of this project to introduce GIS into Civil Engineering Curricula in respective fields of Civil engineering like transportation, geo-technical, environmental, surveying and water resources. For transportation a real world crash data from Arkansas was used to create a web based learning environment. The objective focused on dealing with one real world problem and how GIS can be applied to solve this problem. In this regard, highway safety was chosen and the factors that affect crashes were explored. The high density crash locations are also carried out. The students evaluated the lab and further improvements were made based on the feedback received. Some of the major issues faced by the students were resolved to make the exercise more focused.

Publications:
- Bham, G. H. and D. Cernusca, Evaluation of a Transportation Engineering GIS Laboratory based on Assessment of Student Learning, Annual Meeting of the Transportation Research Board, Paper No. 11-3918, Jan. 2011.