This project develops a system based on performance measurement for the Alabama Department of Transportation (ALDOT) to evaluate and achieve sustainable transportation while addressing the agency’s strategic planning goals. The overall aim of this project is to develop sustainable transportation performance measures for ALDOT and to develop a methodology to implement a more sustainable transportation system. Specifically, the project’s main objectives are 1) develop an understanding of sustainable transportation, 2) review major sustainable-transportation studies and initiatives in North America and Europe, 3) create a framework for using sustainable transportation performance measures based on the types of applications that need to be supported, 4) develop a methodology that can be implemented in the form of a sustainability enhancement tool, 5) develop sustainable transportation performance measures to address ALDOT’s strategic plan goals, 6) identify data elements and data sources required to quantify the measures, 7) examine how the results and findings from this project may be applied to ALDOT’s practices and maybe other DOT’s, and 8) transfer knowledge of sustainable transportation to pertinent individuals within ALDOT.

Start Date: 1/1/2012  End Date: 12/31/2012
Status: Active  Contract/Grant Number: 23593
Secondary Number: UTCA Project #12302
Total Dollars: 38,328
Source Organization: University Transportation Center for Alabama
Date Added: 1/5/2012

**Sponsor Organization**
University of Alabama, Tuscaloosa
University Transportation Center for Alabama
Box 870205
Tuscaloosa, AL 35487

**Performing Organization**
University of Alabama, Huntsville
Department of Civil and Environmental Engineering
Environmental Engineering
301 Sparkman Drive
Huntsville, AL 35899

**Project Manager**
Toutanji, Houssam A.
Phone: (256) 824-6854
Fax: (256) 824-6724
Email: toutanji@eng.uah.edu

**Principal Investigator**
Toutanji, Houssam A.
Phone: (256) 824-6854
Fax: (256) 348-6724
Email: toutanji@eng.uah.edu

Anderson, Michael D.
Phone: (256) 824-5028
Fax: (256) 824-6724
Email: mikea@cee.uah.edu

Ashour, Mohamed
Phone: (256) 824-5029
Fax: (256) 824-6724
Email: ashour@eng.uah.edu
Leonard, Kathleen M.
Phone: (256) 824-6423
Fax: (256) 824-6724
Email: leonard@cee.uah.edu

Subjects
Administration and Management
Planning and Forecasting