State of North Carolina
Office of Information Technology Services

MEMORANDUM

TO: The Honorable Senator Andrew Brock, Co-Chair, Joint Legislative Oversight Committee on Information Technology
The Honorable Representative Jason Saine, Co-Chair, Joint Legislative Oversight Committee on Information Technology
Karlynn O'Shaughnessy, General Assembly-Fiscal Research Division

FROM: Kristen W. Culler, Deputy State Chief Information Officer

SUBJECT: Monitoring Report for GIS-Related Information Technology Projects

DATE: December 31, 2014

The Center for Geographic Information and Analysis (CGIA) has the responsibility of monitoring GIS-related information technology projects and expansion requests proposed by state government agencies as part of Session Law 2013-360 as referenced below.

> **SECTION 7.9.(c)** All State agencies shall coordinate any Geographic Information System (GIS) initiatives through the Center for Geographic Information and Analysis (CGIA) in the Office of Information Technology Services, as well as the Office of the State CIO, to ensure that existing capabilities are not being duplicated. The CGIA shall monitor and approve all new GIS-related information technology projects and expansion budget requests. By January 1 of each year, the CGIA shall submit a written report on GIS duplication to the Joint Legislative Oversight Committee on Information Technology and the Fiscal Research Division.

These projects are tracked through the Enterprise Project Management Office (EPMO). During the 2014 calendar year CGIA reviewed two GIS-related projects at the direction of the EPMO. There were no FY15-17 biennium expansion requests. The two projects were initiated by the NC Department of Transportation (NCDOT) and are summarized below as they relate to GIS. CGIA has determined that neither project is duplicative of other efforts in state government.

Traffic Monitoring System (TMS)
NCDOT has a network of traffic count stations where traffic volume is collected at points across North Carolina. Some are permanent stations while others are temporary in nature. Each is identified by a point location. The Traffic Surveys Group processes, analyzes, and publishes traffic data using a linear referencing system for reporting. The existing system is not well integrated with other activities and does not address the needs of the department. TMS will support trend and spatial evaluations, allowing users to work interactively with maps to view data, select traffic count stations, and perform analyses. Existing GIS data housed at NCDOT and through NC OneMap will be used to support this system.

NC-RITE: Integrated System to Identify Required Investments in Transportation for Economic Development

NCDOT already uses TREDIS (Transportation Economic Development Impact System) software in its effort to prioritize transportation projects. Using TREDIS as the foundation, the NC-RITE project would help drive more comprehensive statewide planning and economic evaluation for transportation through a set of additional software modules. NCDOT will be able to look at locations of growth by a number of measures, locations of critical facilities (air, sea, and rail), and locations of employment, among other data. Implementation of these modules will lead to better spatial modeling and forecasting to support department planning efforts. Existing GIS data will need to be combined with new data created under this system to achieve the objectives of NC-RITE.