

## **City of Woodstock**

### **Woodstock Traffic Data Analyzation**

#### **Project Lead(s):**

Katie O'Connor, Senior City Planner, City of Woodstock

#### **Project Work Location:**

City of Woodstock City Hall Annex, 12453 Highway 92, Woodstock GA 30188

#### **Project Description:**

The City of Woodstock will take on two interns, who will take the new data being accumulated by our GridSmart installations (minute-by-minute traffic and turning movements) and find a way to integrate that data with previously collected historical volume flows that are static, and analyze, compare, and represent the results of the data to show historical patterns. The city wants to find the best way to amalgamate the data to use for making smart decisions about new transportation projects and ideas, and as we work toward predictive and adaptive real-time data-driven decision-making. To summarize, the intern team will be tasked with consolidating our GridSmart data and finding a way to incorporate historical and static data and identify changes over time.

#### **Project Learning Goals:**

The interns will work directly with senior city staff including the Assistant City Manager, the Public Works Dept. Director, and the Senior City Planner. Learning goals include making sense of the real-world traffic situation using historical and real-time data. We are not aware of anyone else that is currently using this type of technology on narrow, urban streets. The interns will discover what the data is telling us and potentially help shape the course of our transportation objectives if the data points to any specific conclusions. The interns will be exposed to real-life, complex data issues with cutting-edge technology.

#### **Top Desired Intern Skills:**

Data visualization and analyzation, mathematics, and database design/maintenance; understanding of traffic patterns not necessary but helpful.

#### **Intern Deliverables:**

Deliverables will be established in the first weeks of the internship, but at a minimum, a report of findings and conclusions with a presentation to either top level city staff or the elected officials will be expected.