## City of Ann Arbor AVL Snow Plow Mapping



www.a2gov.org



#### **Winter Maintenance Goal**

- Provide passable roadway
  - Free from drifts, snow ridges, and as much ice and snow pack as is practical and can be traveled safely at reasonable speeds.
  - May not be bare pavement



#### Winter Weather Conditions

- Light Snow Less than four inch accumulation
- Heavy Snow More than four inch accumulation or forecast conditions that exceed the regular street maintenance resources
- Snow Emergency Conditions that exceed all City resources



### **Light Snow Response**

- Salt Major roads first if necessary switch to plowing
- The City's Public Services Area clears the high volume streets, bridges, (trouble spots)
- De-icing materials are also applied to salt route streets as they are plowed



### **Heavy Snow Response**

- 24/7 Operation Utilize all resources
- Residential plowing started based on Solid Waste schedule
- Snow Desk staffed, webpage updated
- Encourage removal of vehicles from street
- Schools and private streets/lots are responsible for their own maintenance



### **Snow Emergency Response**

- Declared by City Administrator or designee.
- Parking restrictions may be placed citywide or in designated areas
- Utilize all available resources
- Use of contractors for additional services



### **Primary Salt/Plow Routes**

- The first priority is to clear the primary major streets
- The high-volume major are broken into three routes



#### **Prioritization Salt Routes**

- 1 Primary Salt/Plow Routes
  - Highest volume road travel lanes
- 2 Secondary Salt/Plow Routes
  - Next lower volume roads, turn lanes, median lanes.
- 3 Curb and Shoulder plowing



### **Anti-Icing / De-Icing / Traction Enhancement**

- Salt is used to prevent bonding of snow and ice and to keep accumulation workable
- Salt is used only on designated salt routes
- Sand is used to improve traction on local streets



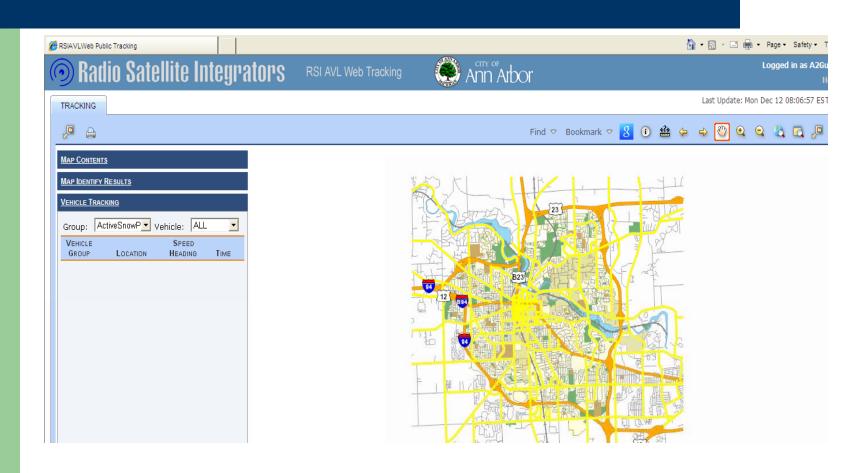
## **AVL and Snow Plow Mapping Technology**

- 14 large snow plows and 33 smaller vehicles equipped with AVL
- Primary goal increase efficiency and effectiveness of snowplow operations
  - Reduce need for admin staff during snow events to answer public inquiries
- Provide self-service view of snowplow activity using AVL and web-mapping



- Application provides real-time view of snow plows and sand/salt spreader activity
- AVL snow plow mapping demonstration
- Available to the Public on Monday December 19<sup>th</sup>, 2011

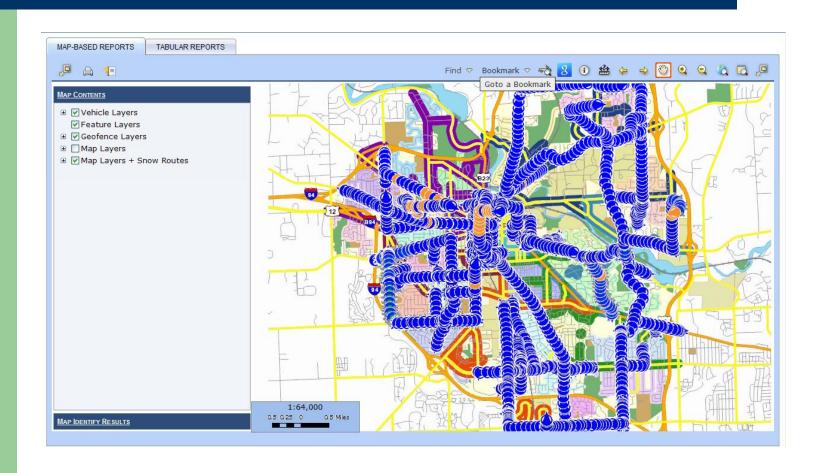




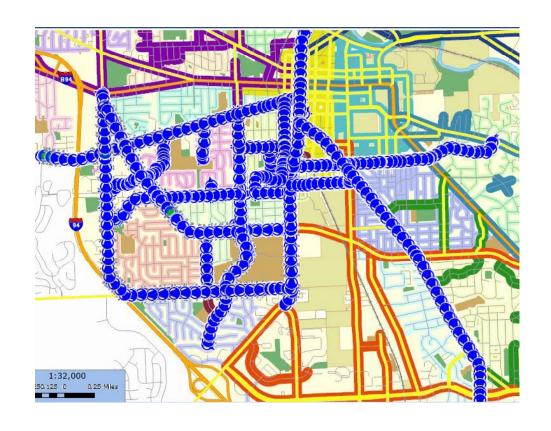












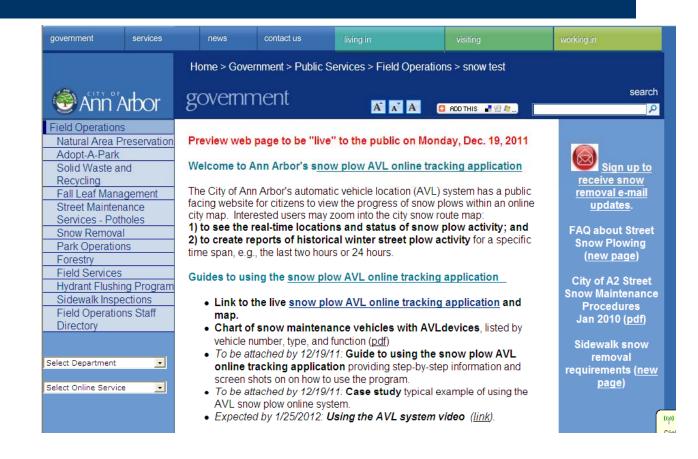


- Will be linked to <u>www.a2gov.org/snow</u> starting Mon., Dec 19, 2011
- http://64.27.15.44/AnnArbor/Public\_Track ing.aspx

#### **AVL Snow Plow Public Web Info**

- Linked to <u>www.a2gov.org/snow</u>
- Access to the AVL snow plow tracking system
- Chart of AVL snow vehicles, functions
- Step-by-step guide to viewing AVL vehicles and making historical reports
- FAQs to AVL system and winter street maintenance
- http://mossfesvr:8888/government/publicservices/fieldoperations/Pages/snowtest.aspx

#### **AVL Snow Plow Public Website**



### **AVL Snow Plow Tracking System**

- Public online AVL snow plow tracking system expected to be available Mon. Dec. 19, 2011 at www.a2gov.org/snow
- Questions?