

RITIS Prototype Development

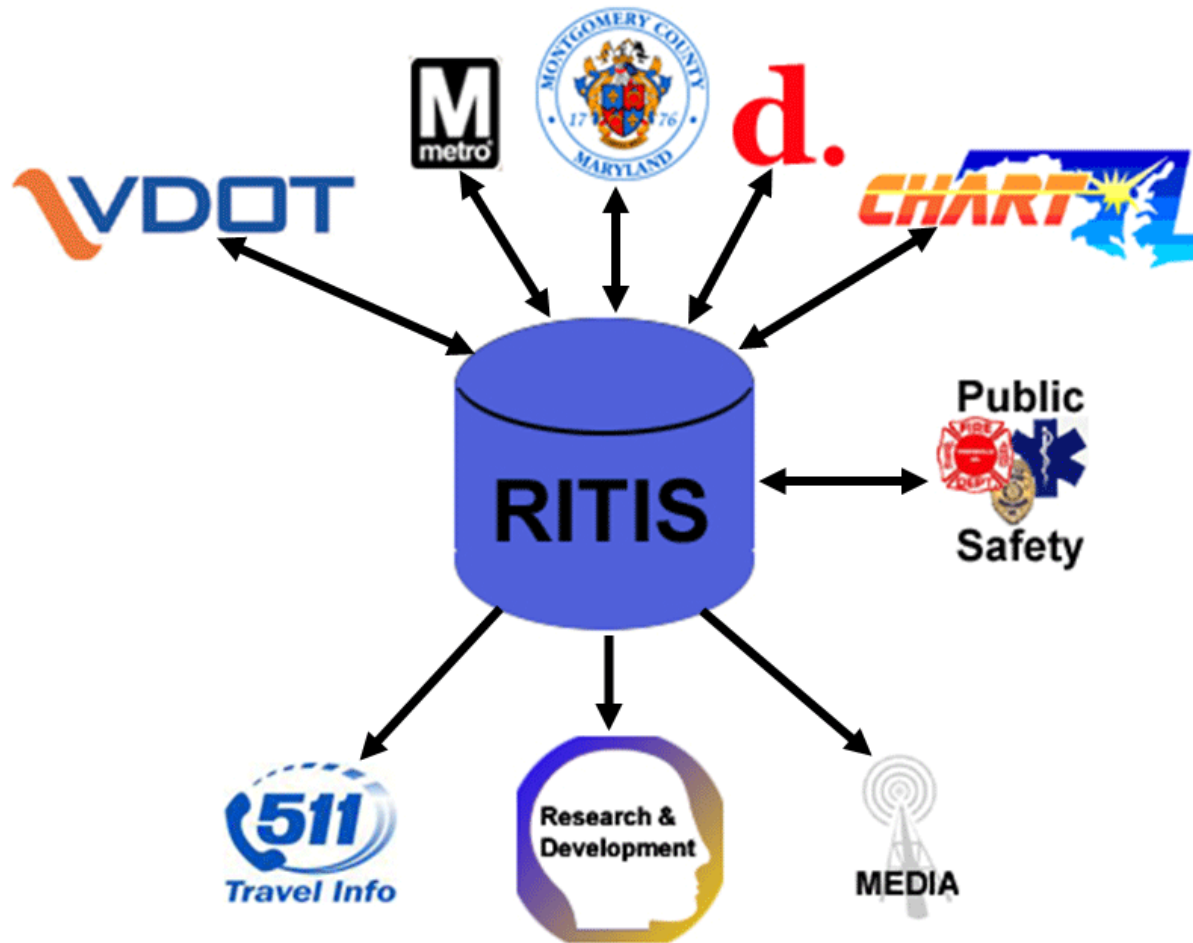
Progress Report



Michael Pack,
Director, CATT Laboratory

March 14, 2006

RITIS




CORBA Listener for CHART


- The CORBA listener retrieves data from CHART in actual real-time.
- There is virtually zero lag in data transfer.



VDOT IM for VDOT



Incident Management System



Controls:

Incident Viewer

[Add Incident](#)

[To Do Lists](#)

[Map View](#)

[Generate Reports](#)

Administrator

[log out](#)

Welcome, Administrator Client.

Show VDOT Incidents From

ALL
 I-495
 I-395, I-95
 I-66
 CHART
 DDOT
 WMATA

Active Incidents

ID	Type	Sub Type	Start Time	Location and Lane Status	Severity	CAD ID	Notes	Controls
9826	Collision	Property Damage	5:55 AM 2/21/06	I-95 North @ Prince William Pky	Minor		accident I-95 northbound n/o of exit 158 pwc parkway right shoulder AT 159 MM 2 CARS .	Edit Remove Close
9808	Disabled	Abandoned	4:02 PM 2/20/06	I-495 Outer Loop @ Braddock Rd	Routine	706022176	ABANDONED DISABLED I-495 SB TO BRADDOCK RD. ON SERVICE ROAD.	Edit Remove Close

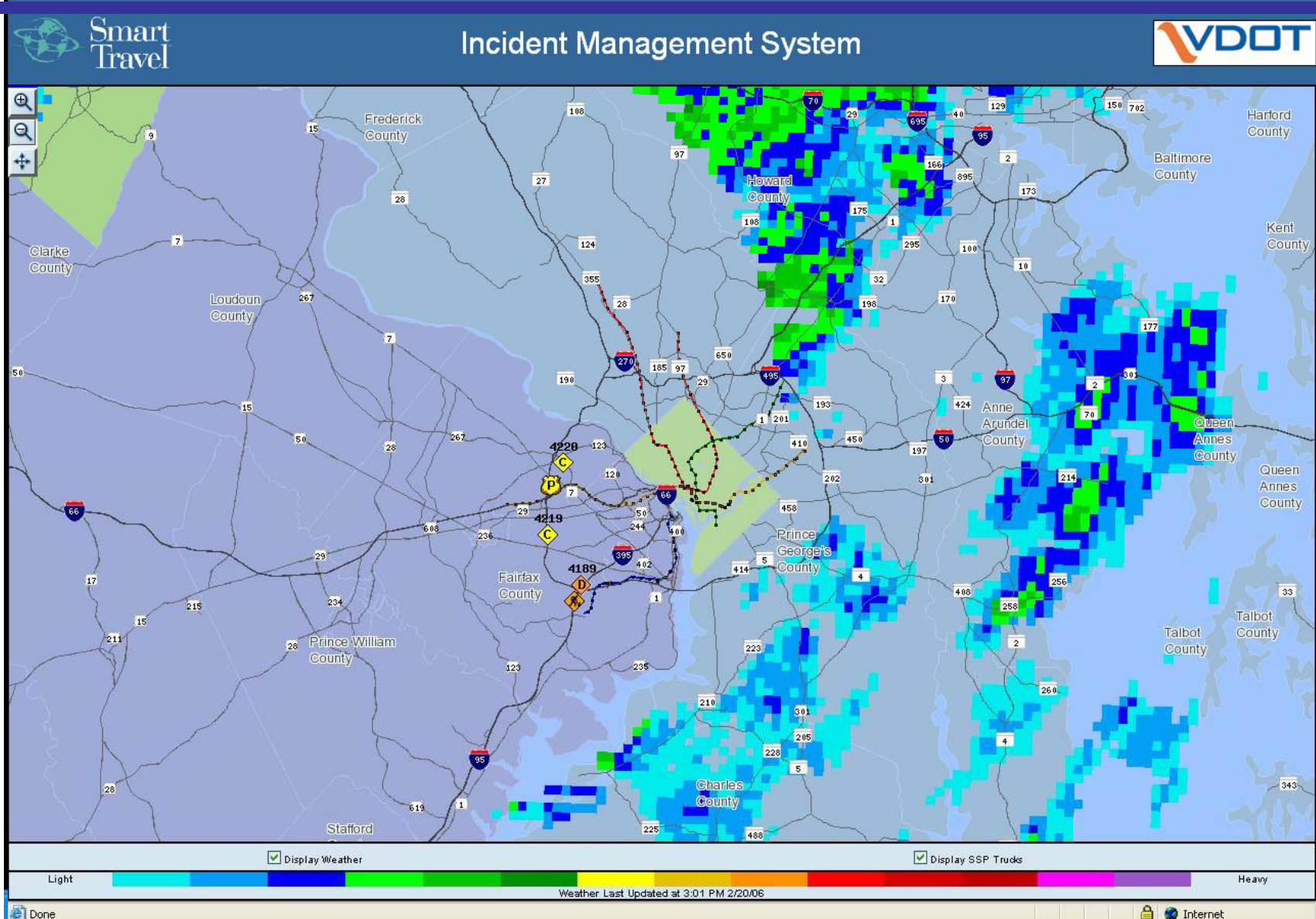
Closed Incidents From Past 2 hours or between Feb 21 2006 and Feb 21 2006 Get Incidents

ID	Type	Sub Type	Start Time	Clear Time	Close Time	Location	Severity	CAD ID	Notes	Controls
9836	Collision	Personal Injury	8:15 AM 2/21/06	8:48 AM 2/21/06	8:49 AM 2/21/06	I-66 HOV West @ Nutley St	High Profile		66 EAST BOUND EAST OF NUTLY LEFT TWO LANES BLOCKED FIRE/ RESCUE ONSEEN ALL LANES OPEN 8:40	View ReOpen Print
9835	Collision	Property Damage	8:10 AM 2/21/06	8:16 AM 2/21/06	8:17 AM 2/21/06		Minor		495 N/B @ 66 R/S 1050	View ReOpen Print
9833	Disabled	Other/None	7:45 AM 2/21/06	7:49 AM 2/21/06	7:50 AM 2/21/06		Routine		495 N/B @ GALLOW RD EXIT RAMP R/S 1046	View ReOpen Print
9834	Collision	Personal Injury	7:45 AM 2/21/06	8:11 AM 2/21/06	8:19 AM 2/21/06	I-395 South @ I-95	Major		accident I-395 southbound at I-495 2 left lanes blocked .0806 am 2 left lane reopened	View ReOpen Print
9832	Disabled	Other/None	7:36 AM 2/21/06	7:42 AM 2/21/06	7:42 AM 2/21/06		Routine		495 N/B NORTH 236 R/S 1046 HELP IN RTE	View ReOpen Print
9831	Disabled	Other/None	7:33 AM 2/21/06	7:42 AM 2/21/06	7:43 AM 2/21/06	I-95 South @ Lorton Rd	Routine		95 NORTH SOUTH OR LORTON 1046 RT SHOULDER 1 OCCUPANT OWN 1051 IN ROUTE	View ReOpen Print
9830	Collision	Property Damage	7:04 AM 2/21/06	7:30 AM 2/21/06	7:31 AM 2/21/06	I-66 West @ Nutley St	Major		66 east east of nutley green arrow lane 2 car 1050d lane blocked ALLLANES OPEN AT 7:27	View ReOpen Print

Planned Events

ID	Type	Sub Type	Proposed Start Time	Proposed End Time	Location	Notes	Controls

NWS Feeds



XML Feeds

- ATIS/IT IS/TMDD Standards Compliant
 - Integrated into the VDOT IM System
 - Integrated into CapWIN

Incident Data

```
</crossStreetsPoint>
</crossStreets>
</location>
- <typeEvent>
  <accidentsAndIncidents>disabled vehicle</accidentsAndIncidents>
</typeEvent>
- <description>
  - <text>
    ABANDONED DISABLED I-495 SB TO BRADDOCK RD. ON SERVICE ROAD.
  </text>
  <text>Virginia</text>
  <ITIS>state police units</ITIS>
  <ITIS>in route to use</ITIS>
</description>
- <affectedLanes>
  - <affectedLane>
    <laneSelect>0000100000000000</laneSelect>
    <laneCnt>10</laneCnt>
    <condition>closed</condition>
    <direction>both Directions</direction>
  </affectedLane>
</affectedLanes>
<vehiclesInvolvedCount>1</vehiclesInvolvedCount>
- <types>
```

Detector Data

```
<?xml version="1.0" encoding="UTF-8"?>
<detectorData>
  <organization-id>CATT Lab</organization-id>
  <network-id>CHART</network-id>
  <collection-period>
    <collection-period-item>
      <detection-time-stamp>
        <date>20060221</date>
        <time>094454</time>
      </detection-time-stamp>
      <measurement-duration>300</measurement-duration>
    </collection-period-item>
  </collection-period>
  <detector-reports>
    <detector-report>
      <detector-id>60z1</detector-id>
      <detector-name>I-83 SB at Cold Bottom Road South</detector-name>
      <detector-status>1</detector-status>
      <lane-data>
        <lane-data-item>
          <lane-vehicle-count>158</lane-vehicle-count>
          <occupancy>3</occupancy>
          <lane-vehicle-speed>69</lane-vehicle-speed>
        </lane-data-item>
      </lane-data>
    </detector-report>
  </detector-reports>
</detectorData>
```


RSS Feed



Prototype Website

(Still Under Development)

DDOT | MDOT | VDOT | WMATA

RITIS

regional integrated traveler information system

About RITIS

Traveler Info

[Traffic Maps](#)

Incident Lists

[3D, Traffic Visualization](#)

[RSS Incident Feed](#)

Data Feeds

[Data Archive](#)

Documentation

username

password



State	Location	Type	Time ↑	Lane Status	Description
MD	I-695 BTWN EX 36 MD 702 TO EX 35 US 40 PULASKI HGY	closed	02/14/2006 08:27:42 AM	Inner Loop Outer Loop 	-
MD	RT 50 AT MD 197	accident	02/14/2006 08:17:57 AM	West East 	-
VA	I-95 at Telegraph R.d	unknown	02/14/2006 07:30:12 AM	-	I-495 EB ON RAMP FROM TELEGRAPH RD
VA	I-66 at Washington Blvd	accident	02/13/2006 7:39:43 PM	-	Disabled Vehicle I-66 East at the TR. Bridge; Right Shoulder.
MD	US 1 AT KNOTS ROAD	closed	02/11/2006 00:33:52 AM	South North 	-
VA	I-95S at I-395	roadwork	02 / 06 / 2006 9:45:32 AM	South North 	pothole repair on left lanes.
MD	I-95N at I-695	accident	02 / 06 / 2006 9:45:32 AM		fender bender on I-95
MD	I-495S at Exit 15	sportingEvents	02 / 06 / 2006 9:45:32 AM	-	Redskins football game - heavy traffic.
MD	I-270N at I-495	roadwork	02 / 06 / 2006 11:25:30 AM	South North 	Shoulder repaving.
MD	I-95 PAST EXIT 59 (DO NOT DELETE)	closed	01/23/2006 10:00:05 AM	South North 	-

Prototype Website

(Still Under Development)

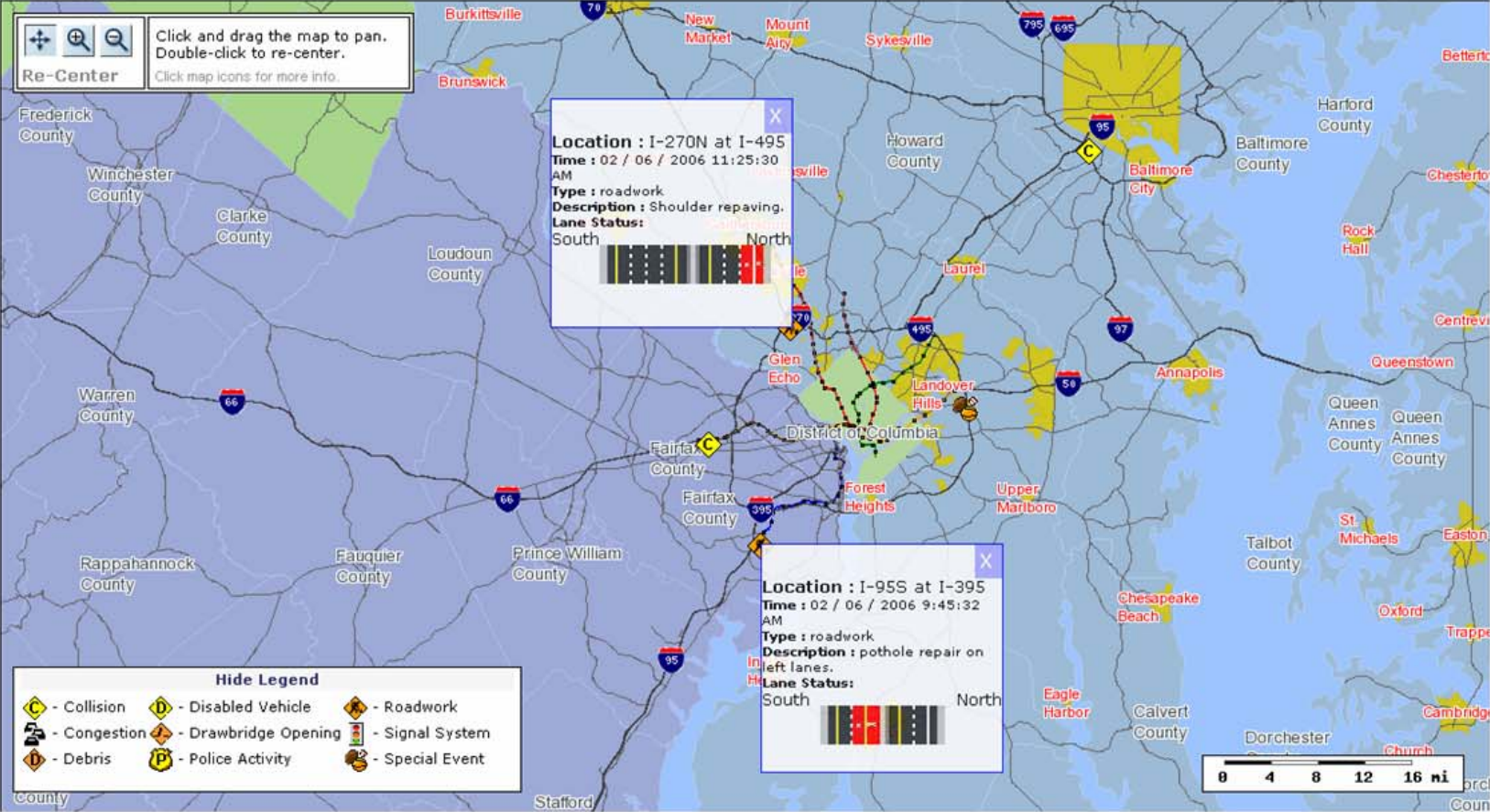

DDOT | MDOT | VDOT | WMATA

RITIS

regional integrated traveler information system

- About RITIS
- Traveler Info
- Data Feeds
- Data Archive
- Documentation
- Reading Room

logged in as admin
[logout](#)



Re-Center
Click and drag the map to pan.
Double-click to re-center.
Click map icons for more info.

Location : I-270N at I-495
Time : 02 / 06 / 2006 11:25:30 AM
Type : roadwork
Description : Shoulder repaving.
Lane Status : South

Location : I-95S at I-395
Time : 02 / 06 / 2006 9:45:32 AM
Type : roadwork
Description : pothole repair on left lanes.
Lane Status : South

Hide Legend

- Collision	- Disabled Vehicle	- Roadwork
- Congestion	- Drawbridge Opening	- Signal System
- Debris	- Police Activity	- Special Event

0 4 8 12 16 mi

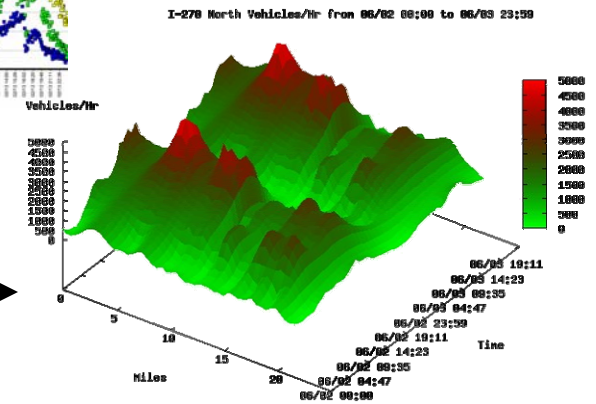
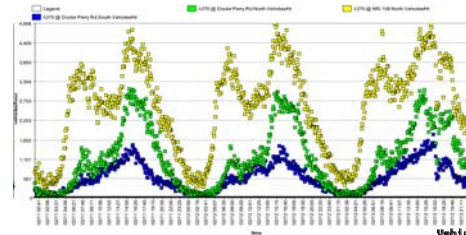
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Contact Us

3D flyovers

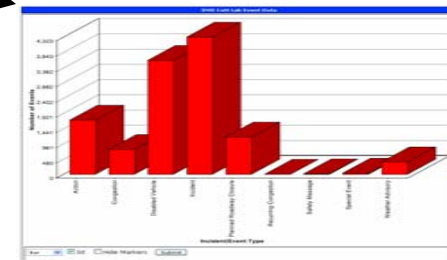


Archived Data Access

- All data is being archived for:
 - Research & Development
 - Planning
 - Operational Needs



The screenshot shows the 'Traffic Query Tool' interface. It includes a map of the I-270 corridor, a 'Data Options' panel with 'Display As' set to 'Graph', 'Data Interval' set to '15 mins', and 'Time Options' panel with 'Date' set to '9/16/2005' and 'Time' set to '00:00' to '23:59'. The 'Submit' button is visible at the bottom right.



Questions

For additional information contact

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