

# An Introduction to Intelligent Transportation Systems in Rhode Island



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# Rhode Island Thumbnail (2000)

- **Land area: 1,045 sq. miles (rank: 50)**  
**Highest point: Jerimoth Hill (812 ft.)**  
**Lowest point: Atlantic Ocean (0 ft.)**
- **Population: 1,048,319 (rank: 43)**  
**Persons per square mile: 1,003.2 (rank: 2)**  
**Percent urban population: 865 (rank: 7)**
- **All public roads: 6,052 miles**  
**Interstate: 70 miles**  
**Road bridges: 747**

# Average Daily Traffic (2004): Providence vs. Boston

## Downtown Providence

I-95 near



ADT 18%  
higher in  
Providence

## Downtown Boston

I-93, Central



# TMC History – Establishment

- **1997**
  - Congestion Management Study
- **1998**
  - TMC Opens
- **2000**
  - TMC Website
  - State Police Presence in TMC
  - DTN – Weather



# TMC History – Growth

- **2001-2004**
  - 24/7 Operation
  - 22 Camera CCVE System
  - 511 System
  - Traffic.com
  - DMS Network
  
- **2010**
  - 130+ Cameras, 10+ HAR
  - 40+ DMS/PVMS, 50+ Detectors
  - Road Weather Information System



# TMC History – Capabilities

- 2011
  - Emergency Operations Center (EOC)
  - TMC Video Display System Upgrade
  - Field Camera System Upgrade
  - Travel Times on DMS



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# TMC Overview



- Vehicle Sensors



- Weather



INCIDENT R

- Rhode



Public Affairs  
Maintenance



os Centers

- Radio



FIELD EQUIPMENT

- DMS
- POMS
- AR

- TMC Website
- Twitter
- 511
- Media



- RIDOT Public Affairs
- RIDOT Maintenance
- Police
- Fire
- Other Ops Centers



# 2011 TMC Upgrade

- New video wall
- New digital video management system
- Revamped workstation layout
- All new field cameras are IP-based



# 2011 TMC Upgrade

- **TMC Conference Room**
  - Upgraded for EOC Ops
- **TMC Library**
  - Spare Conference Room
  - Media Overflow Room
- **Video dissemination throughout RIDOT**
  - Director's Conference Room & Offices
  - TMC Manager's office
  - TMC Library / Media Room



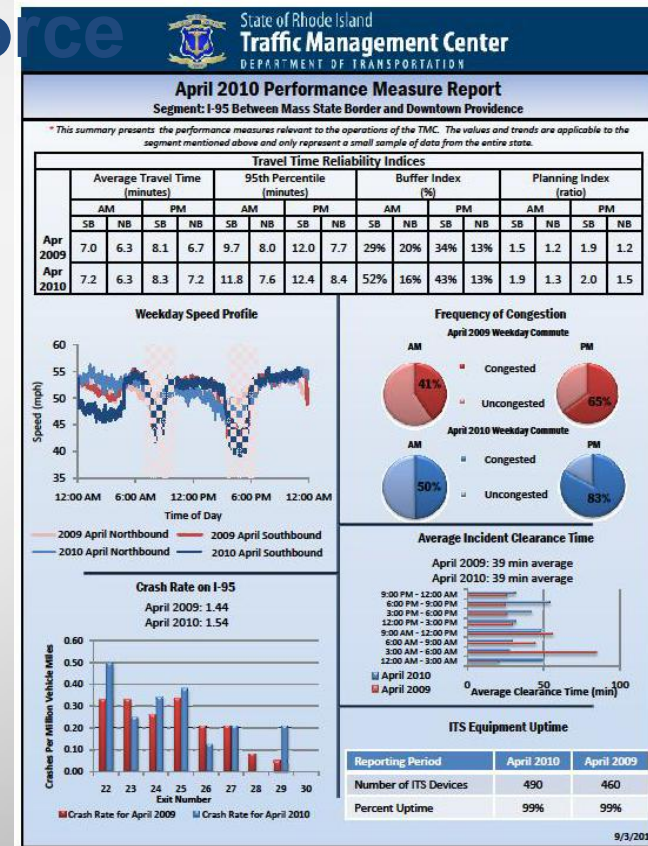
# EOC - Emergency Response

- Winter storms – center for RIDOT maintenance response
- Flooding – center to coordinate RIDOT assets



# Current TMC Initiatives

- Congestion Management Task Force
- Incident Management Task Force
- ITS Mainstreaming
- Communications Study
- Performance Measures
- Operator Training



# **Future TMC Initiatives**

- **Statewide DMS Prequalification (Winter 2011/2012)**
- **511 Procurement (Winter 2011/2012)**
- **Systems Integration (2012)**
- **6 PVMS (2012)**
- **Maintenance Contracts (2012)**

# **Finally**

## **To Contact the TMC:**

- **Phone: 401-222-3005**
- **Website: <http://www.tmc.state.ri.us>**
- **Twitter: <http://twitter.com/RIDOTNews>**