

# I-95 CC Vehicle Probe

## Project

## Filling the Data Gap

## NJDOT Perspective

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# NJDOT Traffic Operations

- Linear Mileage Total – >2700 miles (2300 DOT)
- Freeway/Toll - >800 miles
- 2 Operations centers (Co-located with NJTA)

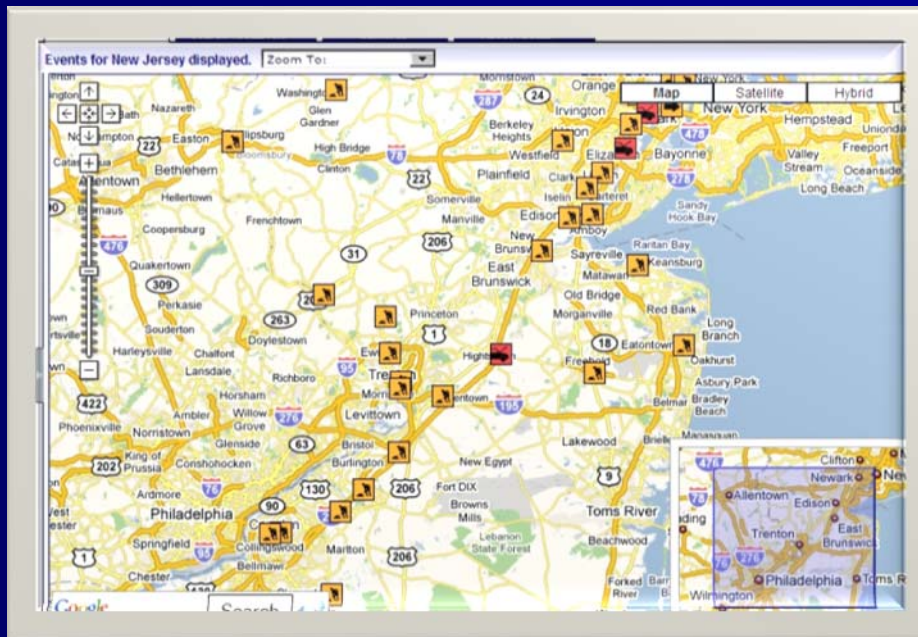


# NJDOT Traffic Operations

- Emergency Service Patrol



- Traveler Info - 511/Web Page/PTS



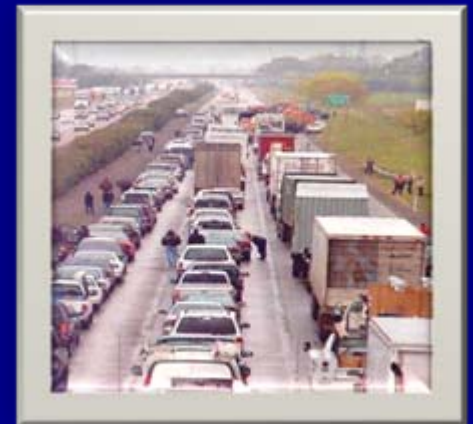
NJ511.INFO

# NJDOT Traffic Operations



# NJDOT Traffic Operations

- Incident Management Response



- Centralized Dispatch

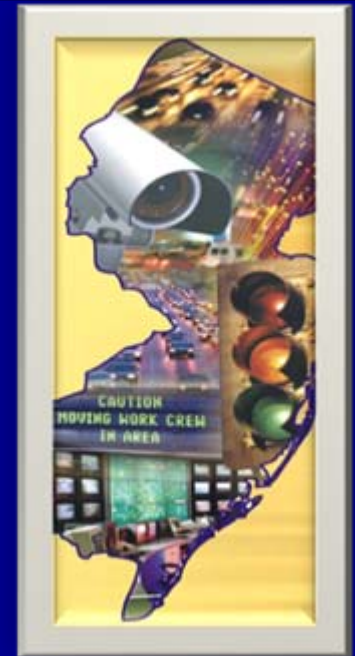




# Traffic Operations

## Existing DOT ITS

- 108 DMS
- 230 Cameras
- 160 RTMS
- 14 Transmit Reader Sites
- 511/Web - few travel speeds
- Travel times on I-78 and a few construction projects



# What we needed and why

- Most densely populated state in US
- Most DMS statewide w/o travel times
- Lack of instrumentation
- Lack of incident detection other than ESP, PD and the media
- Limited resources to instrument the entire system
- We couldn't handle the O&M of statewide instrumentation

# What we did!!

- Leveraged the I-95 Inrix Contract
  - 958 miles covered (DOT & Authority)
    - 534 miles by I-95 CC
    - Addl. 424 miles (\$1.2M for 3 years)
  - Went from less than 5% to 35% covered
  - Displayed in our TOC's to monitor our system



# What we are doing

- Incident Detection alerts from systems
- Travel speeds on 511/Web
- Interactive Travel times on 511/web
- Expanding instrumentation as needed to supplement INRIX and existing.
- Data Fusion of INRIX, RTMS, Transmit and other traffic data systems to feed 511/Web and DMS

# What we learned

- Leveraging this contract worked
- Inrix gives us a Statewide view of the transportation system that we never had.
- Need other means of detection to fill-in