

**AASHTO  
2013 High Value Research**

**Advancing the Use of Streaming  
Media and Digital Media  
Technologies at Connecticut DOT**

**AASHTO RAC/TRB Representative Annual Meeting  
Baton Rouge, LA  
July 16, 2013**



# Acknowledgements

- **Drew Coleman, Principal Developer/Author (CTDOT Retired)**
- **James Sime, Manger of Research (CTDOT Retired)**
- **Jose Romero, IT Manager (CTDOT)**
- **FHWA: SPR funded**



# Big Picture

- **Exploration and Planning (2000 - 2007)**
- **Development and Implementation (2007 - 2012)**



# Exploration and Planning

- Need/Market
- Technology Platform
- Infrastructure
- Organizational Capacity and Roles
- Conclusion: *Go!*





# Implementation - Inhouse

Intranet  
home  
page

The screenshot shows the Connecticut Department of Transportation Intranet homepage. At the top, there is a header with the state logo, the text "State of Connecticut", and "Governor Dannel P. Malloy" with a search bar. Below this is a navigation bar with "Home", "About Us", "Documents and Forms", and "Contact Us". A secondary navigation bar contains "PHONE BOOK", "INTERNAL PUBLICATIONS", "INTRANET APPLICATIONS", "AFFIRMATIVE ACTION", and "DOT VIDEO DEMAND". The main content area features a "Team ConnDOT" banner with a photo of two men working at a computer. To the right of the banner are links for "DOT Internet Site", "Fast Path to Popular Pages", and "Office 'Blogs'". Below the banner are two columns of news and announcements. The left column is titled "Inside DOT News" and includes items like "TRANSPORTATION COMMITTEE INFORMATIONAL FORUM..." and "Transportation Oversight Committee (pdf)". The right column is titled "Announcements & Highlights" and includes "News from the Commissioner", "e-hiway", "ConnDOT CSEC 2012 Web Page", "The Diversity Council Webpage", "Locally Administered Transportation Projects in Connecticut", "DOT On the Move" - Performance Measures, "CORE-CT" Support Links, and "Video Conferencing solution". On the far right, there is a sidebar with links for "Comments to the Commissioner", "Employment Opportunities", "Café Menu/Gift Shop", "HelpDesk", "Mobile Apps", and "SANS".

This is a close-up view of the navigation bar from the screenshot. It shows a red "Contact Us" link and a gold "DOT VIDEO DEMAND" link, both of which are circled in red. A red line connects the "DOT VIDEO DEMAND" link in this close-up to the corresponding link in the main screenshot.



# Implementation – Public Access

The screenshot shows the official website of the Connecticut Department of Transportation. At the top left is the state seal and the text "DEPARTMENT OF TRANSPORTATION". Below this is a navigation bar with links for "Home", "About Us", "Press Releases", and "Contact Us". A secondary navigation bar includes "TRAVEL RESOURCES", "DOING BUSINESS WITH CONNDOT", "PROGRAMS AND SERVICES", and "PUBLICATIONS". The main content area features a large banner with an airplane and the slogan "Connecticut... on the Move!". To the right of the banner is a profile of James P. Redeker, Commissioner, with a welcome message. Below the banner is a row of icons for various services: Traffic Cameras, Highways & Bridges, Trains, Planes & Airports, Buses, Ferries & Ports, and Bikes & Pedestrians. The lower section is titled "ConnDOT News and Announcements" and contains two columns of news items, each with a "NEW!" tag. On the right side of this section is a vertical menu of service links: "Public Trans Service Alerts", "Travel Information Map", "Mobile Apps", "Employment Opportunities", "Streaming VIDEO LIBRARY", "e-Traffic alerts", and "Stamford TOD Project". A red circle highlights the "Streaming VIDEO LIBRARY" link in this menu.

Internet home page

This is a close-up view of the "Streaming VIDEO LIBRARY" link from the website's navigation menu. The link is highlighted with a red circle. It features a camera icon and the text "Streaming VIDEO LIBRARY". Below it, another link for "Sign up for e-Traffic alerts" is visible.





## Streaming Video Library



To locate a specific category or topic, please make a selection from the dropdown list below:

Public Service Excellence

This library is a central point of reference for accessing a wide variety of transportation-related videos. **We can now produce streaming videos or conduct webcasts for your office as a free service to you.** To learn more, please contact [drew.coleman@ct.gov](mailto:drew.coleman@ct.gov) in *Info Systems* or [robert.moore@ct.gov](mailto:robert.moore@ct.gov) in *Communications*. An Internet-based Media Service is available as well.

[Top](#)

## Presentations for In-house Communication

**NEW!**

[Ethics Training for ConnDOT Employees](#)

Presented by Alice Sexton.  
CTDOT Legal Services Unit  
Recorded July 11, 2012.

**NEW!**

[Underground Storage Tank Operator Training](#)

Presented by Steve P. Farrick  
TRC Environmental  
Recorded July 2012

**NEW!**

[Fuel Control Basic Training-101](#)

Presented by Janice Snyder, Assistant Director of  
Purchasing and Materials Management - CTDOT  
Recorded July 2012

[Safety Section Videos](#)



A Collection of Topics that Help Keep our Staff Safe

[Diversity Council Videos](#)



A Collection of Topics that Celebrate our Workforce Diversity

[Insituform: Cured-in-Place Pipe](#)

Presented by Michael Cronin, Insituform Technologies  
Hosted by CTDOT Highway Design,  
February 22, 2012

[Announcing Video Conferencing at ConnDOT](#)

A Collaborative Effort between the Bureau of  
Policy and Planning and the  
Office of Information Systems  
October 11, 2011

[About High Tension Cable Barrier](#)

Presented by Mr. Richard Butler of Brifen -  
Sept 01, 2010

[Concrete Testing Training](#)

Provided by Central Lab/Materials Testing-  
May 18, 2010

[Benefits and Pitfalls of Designing with Architectural Concrete](#)

Presented by Mr John Glover - LM Scofield Company. Hosted by CTDOT  
State Design -April 2010

[H1N1/Seasonal Flu Awareness and Prevention](#)

Cheryl Marenick, DOT Occupational Health Nurse -  
January 2010





# Types of Content/VOD

- Inhouse training and communication
- Inhouse administrative and technology tutorials
- Public meetings, PSAs
- Construction project summaries/status reports
- Technical seminars and presentations
- LTAP courses
- Research summaries and presentations





# Content Production

Front of room



Back of room



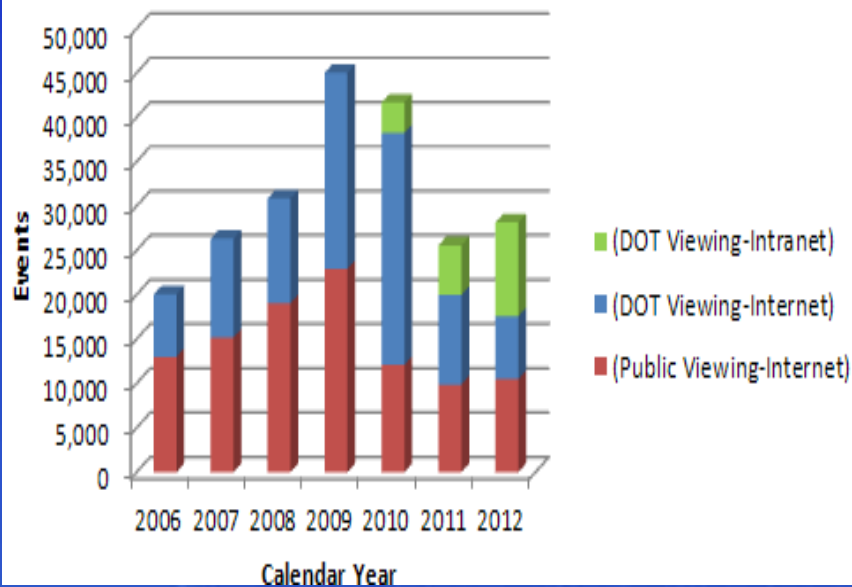
# Content Production



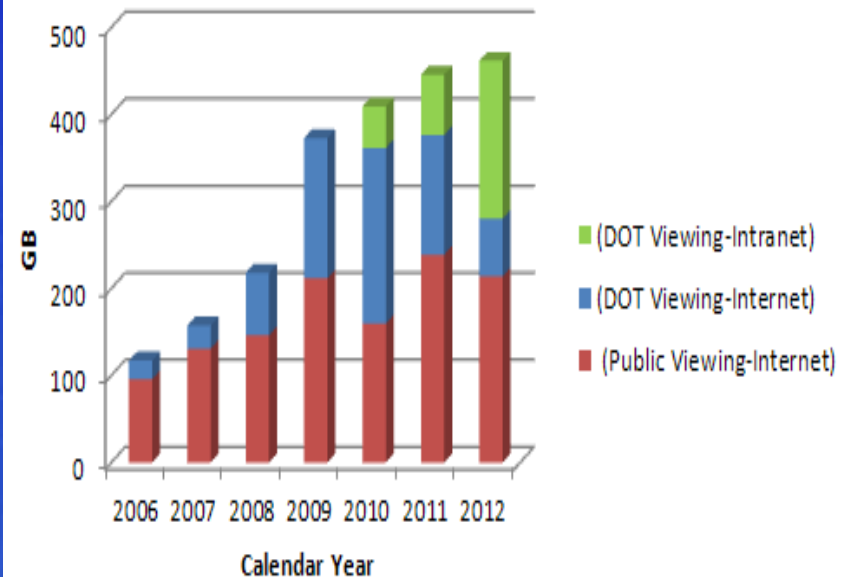


# Utilization

## Total Events Generated (Vod)



## Total Gigabytes Served (Vod)



Events ("Hits")

Data Transmitted



# Conclusions and Observations

- Cost (equipment, personnel, etc): ~ \$330K
- Used routinely (Survived the Research → Implementation transition)
- Development and routine use require organization-wide cooperation

