

*Nevada Next Generation 511 System
(NNG511)*

Planning Began in June 2011

RFP released December 2011

NTP Issued July 25, 2012

9 months to design, test and deploy

Project Kickoff Held

August 1, 2012





General Goals of NNG511

- Improve usability and ease for the customer
- Scalable, to handle new data input as it becomes available
- A one-stop-shop for multi-modal traveler information
- Make use of advances in technology
- Regional and statewide focused
- Consider Nevada's texting while driving ban, effective as of January 2012





NNG511 Presentation Overview

- Project Scope
- System Overview
 - High Level Functionality
 - Interactive Voice Response system (IVR)/Telephone
 - Web, Mobile Apps, Social Media, Alerts
 - CRS, Data Fusion, TMDD/C2C
- Major Project Milestones/High Level Schedule
- Questions



NNG511 Project Scope

- Implement a system that maximizes the use of NDOT's and surrounding States' data to deliver accurate and reliable traveler information seamlessly to the public through a 511 interactive voice response (IVR) telephone service and an intuitive web site with both a statewide and regional focus.
- Developed and deployed in two phases.
- Develop a sophisticated IVR Telephone system.
- Develop an Enhanced Interactive Web site.
- Develop Data Fusion Interfaces to NV districts.





NNG511 Project Scope

- Deliver Mobile Apps, Social Media & Alerts .
 - Regional Twitter Feeds
 - Updated automatically
 - Option for operators to tweet
- Develop a Condition Reporting System (CRS) to enter floodgate and web banner messages that include AMBER and SILVER Alerts, major closures, statewide events, flooding, etc. Create HAR messages and have the ability to input incidents .
- Develop NDOT TMDD Data Warehouse Interface - C2C (phase 2).





NNG511 System Overview

Major Components

- Condition Reporting System
- NV Data Warehouse Integration/C2C
- Data Fusion
- Mobile Apps, Social Media, Alerts
- Interactive Web Site
- Phone/IVR (Interactive Voice Response)





System Overview - IVR

- Real-time, relevant information, including data from, incidents, closures, work zones, special events, and weather, based on Points of Interest such as cities, tunnels, bridges or other landmarks.
- Route planning/travel time, including incidents along the chosen route.
- Floodgate messages and Amber alerts that can play statewide or within one of the three regions within the state, and that will be configured to play at certain pre-defined points in the call flow.
- Transfers to other State of Nevada transportation agencies, neighboring 511 systems, and so forth.



System Overview - IVR

- A streamlined menu and shortcuts that allow users to get their desired information quickly.
- Integration with back end to provide data.
- Transfer to VoltDelta's Survey Product (DeltaCheck) for optional caller survey function.



System Overview - Web

- A fully functional web site that includes events, cameras, maps, and other relevant system information.
- A map that is pannable, zoomable, and includes layers to access other system information such as events.
- Congestion layer that shows the current roadway speed data.
- Clickable icons representing incidents, construction, weather, cameras, changeable message signs, and highway advisory radio sites, Road Weather Information Sites (RWIS).
- Selectable layers that allow the user to turn off any specific categories of information.
- Scrolling alerts for high priority information, tailored to the location currently being viewed on the map.
- Links to other 511 systems in adjoining states and other transportation resources in Nevada.
- The ability to create and modify accounts that enable the user to receive traffic alerts by email or short message service (SMS) messaging.
- Social Networking integration (Facebook, Twitter).





Website Features

511 Get connected and go!

MOUNT ARLINGTON STATION

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511 Mega Projects

I-295 (Exit 24 to Exit 32)

Camden and Gloucester Counties
(Exit 24 to Exit 32)

Travel Times

Northbound Exit 24 to 32 (9 mi.)	:10
Southbound Exit 32 to 24 (10 mi.)	:10

[View map and incidents](#)

511 Safety Message

DRUNK DRIVING
OVER THE LIMIT. UNDER ARREST.

511 Interactive Map

511 Cameras

MM 013.3 North of Interchange 2 - US 202 (Woodwich Twp)

511 Popular Travel Routes*

Driving times for...

Shore Traffic

Garden State Parkway North

From Exit 117, Sandy Hook to the Pavilion Toll Plaza :07





Social Media, Mobile Apps & Alerts

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Results for 511njtpk

Tweets · Top ▾

- 511njtpk** 511NJ TPK
 CLEARED Accident on New Jersey Turnpike southbound North of Interchange 7A - I-195 (Robbinsville) all lanes open to traffic
- 511njtpk** 511NJ TPK
 CLEARED Roadwork on New Jersey Turnpike southbound south of Interchange 11 - C currently schedule 39 seconds ago
- 511njtpk** 511NJ TPK
 CLEARED Delays Interchange 13 - I-278/Goethals I 5 minutes ago
- 511njtpk** 511NJ TPK
 Delays on New Jersey 13 - I-278/Goethals I Bridge 40 minutes ago



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Welcome back, Peter! [Sign Out](#)

Date/Time	Profile	Message Sent
03/20/12 05:30PM	NJTA - Hudson Cty HT to Newark	CLEARED: there's Roadwork on the New Jersey Turnpike - Hudson County Extension westbound from West of Jersey Ave/Holland Tunnel to East of Interchange 14C - Toll Plaza in Jersey City. Right lane closed to traffic until 6:00 P.M.
03/20/12 09:39AM	NJTPK to HT	Roadwork: New Jersey Turnpike - Hudson County Extension westbound West of Jersey Ave/Holland Tunnel (Jersey City) right lane closed to traffic - visit 511nj.org
03/19/12 05:59PM	NJTA - Hudson Cty HT to Newark	CLEARED: there are Delays on the New Jersey Turnpike - Hudson County Extension westbound from Interchange 14A - NJ 169/Bayonne Bridge in Bayonne to Newark Bay Bridge in Newark 1 1/2 mile delay.
03/19/12 05:42PM	NJTA - Hudson Cty HT to Newark	As of 5:42pm, there are Delays on the New Jersey Turnpike - Hudson County Extension westbound from Interchange 14A - NJ 169/Bayonne Bridge in Bayonne to Newark Bay Bridge in Newark 1 1/2 mile delay.
03/19/12 05:42PM	NJTA - Hudson Cty HT to Newark	As of 5:41pm, there are Delays on the New Jersey Turnpike - Hudson County Extension eastbound from East of Interchange 14 - I-78 to Newark Bay Bridge in Newark 1 mile delay.
03/19/12 09:06AM	NJTPK to HT	Roadwork: New Jersey Turnpike - Hudson County Extension westbound West of Jersey Ave/Holland Tunnel (Jersey City) right lane closed - visit 511nj.org
03/16/12 08:40AM	NJTPK to LT	CLEARED: there are Delays on the New Jersey Turnpike - Eastern Spur exiting at Interchange 16E - NJ 3/Lincoln Tunnel in Secaucus due to Express Bus lanes to Lincoln Tunnel.
08:19AM	NJTPK to LT	As of 8:18am, there are Delays on the New Jersey Turnpike - Eastern Spur exiting at Interchange 16E - NJ 3/Lincoln Tunnel in Secaucus due to Express Bus lanes to Lincoln Tunnel.
07:36AM	NJTPK to LT	CLEARED: there are Delays on the New Jersey Turnpike - Eastern Spur exiting at Interchange 16E - NJ

AT&T 3G 3:20 AM 36%

Find Me Regional Map Legend

PEAKING. for iPhone.™

idents Cameras More





System Overview - Data Fusion

- Collect data from the available sources, convert it into standardized internal formats.
- Handle all roadway sensor (link) data, Events data, and weather information, as available.
- Data is made available to other internal users (such as the web and IVR).
- Link Data Fusion Process that can accept point (spot sensor), segment (probe), historical, and algorithmically derived data.





Major Project Milestones/Schedule

- Kick Off Meeting - August 1, 2012
- Preliminary Design Review (PDR) – October 24-25, 2012
- Critical Design Review (CDR) – November 2012
- Milestone Demonstration #1 – December 2013
- Milestone Demonstration #2 – January 2013
- Milestone Demonstration #3 – February 2013
- Factory Acceptance Testing – March 2013
- Start of 30 day Operational Test – March 2013
- Completion of 30 day Operational Test – April 2013
- NNG511 Go Live – April 2013





Conclusion

Questions



Thank You

