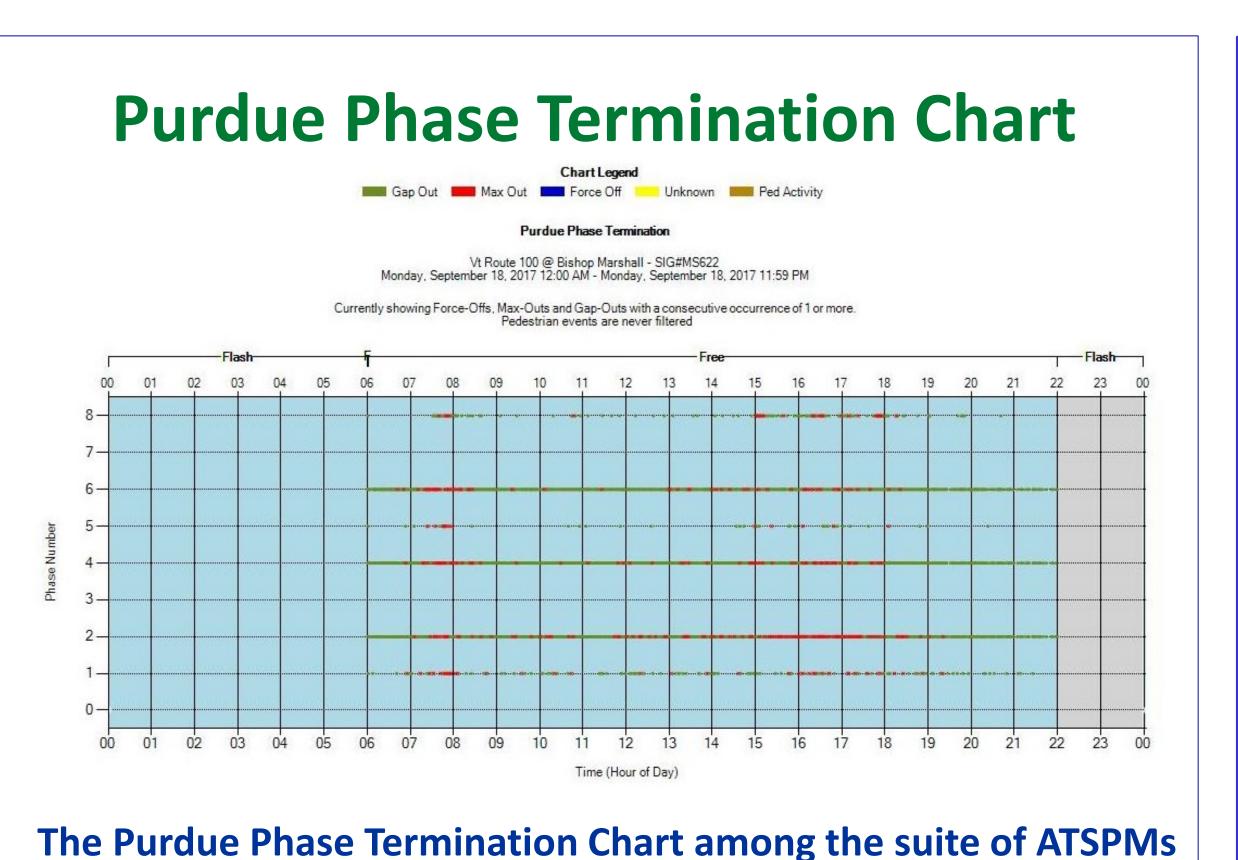


## 2017 STIC AID Grant Proposal: DSRC/ATSPMs

Derek L. Lyman, P.E.







can efficiently display the capacity utilization of our traffic signals

Chittenden County Regional Planning Commission, Vermont

along an Urban Traffic Signal Corridor:

Implementation of Dedicated Short-Range Communication (DSRC)

and Automated Traffic Signal Performance Measures (ATSPMs)



Implementation of
Dedicated Short Range
Communication (DSRC) and
Automated Traffic Signal
Performance Measures
(ATSPMs) along an Urban
Traffic Signal Corridor: Real
Time Traffic Information
through DSRC Deployment
(Pending Award)

VTrans in partnership with the **CCRPC** would like to present an innovative proposal to improve the traffic flow on our most congested corridor in the State, Shelburne Road (US Route 7). Our proposal includes the installation of remote communications along the corridor to support dedicated short-range communication, DSRC, implementation to prepare us for connected vehicle and AASHTO's **SpaT (Signal Phasing and Timing)** challenge. This project will integrate three Every Day Counts (EDC) program focus areas:

- EDC 4 Automated Traffic Signal Performance Measures
- EDC 3 Regional Models of Cooperation
- EDC 3/4 Data Driven Safety Analysis

## **Study Intersection Upgrades**

	Intersection	<u>Town</u>	<u>New</u> <u>Cabinet</u>	<u>New</u> <u>Controller</u>	Advanced Detection	Ethernet Radios	DSRC Radio
MS-511	US 7 & WEBSTER RD	SHELBURNE		Х	Х	Х	Х
MS-507	US 7 & LONGMEADOW RD	SHELBURNE		Χ	Х	Χ	X
MS-508	US 7 & BAY RD	SHELBURNE		Χ	Х	Χ	Х
MS-512	US 7 & PINE HAVEN SHORES	SHELBURNE		Χ	Х	X	Х
MS-513	US 7 & HULLCREST RD	SHELBURNE		Χ	Х	Х	Х
MS-509	US 7 & MARTINDALE RD	SHELBURNE		Χ	Х	X	Х
MS-515	US 7 & HARBORVIEW RD	SOUTH BURLINGTON		X	Х	X	Х
MS-514	US 7 & ALLEN RD	SOUTH BURLINGTON		Χ	Х	Χ	Х
MS-516	US 7 & BARTLETT BAY RD	SOUTH BURLINGTON		Χ	Х	X	X
MS-517	US 7 & IDX DR	SOUTH BURLINGTON		Χ	Х	Χ	Х
MS-518	US 7 & MCINTOSH AVE	SOUTH BURLINGTON	X	Χ	Х	Χ	X
MS-519	US 7 & BALDWIN AVE	SOUTH BURLINGTON	Х	Χ	Х	Х	Х
MS-524	US 7 & LAUREL HILL RD	SOUTH BURLINGTON		Χ	Х	Х	Х
MS-520	US 7 & BREWER PKWY	SOUTH BURLINGTON	Х		Х	Х	Х
MS-521	US 7 & QUEEN CITY PKWY	SOUTH BURLINGTON	Х		Х	Х	Х
MS-522	US 7 & SWIFT ST	SOUTH BURLINGTON	Х		Х	Х	Х
BVT-1	US 7 & I-189 WB OFF RAMP	BURLINGTON		Х		X	X

