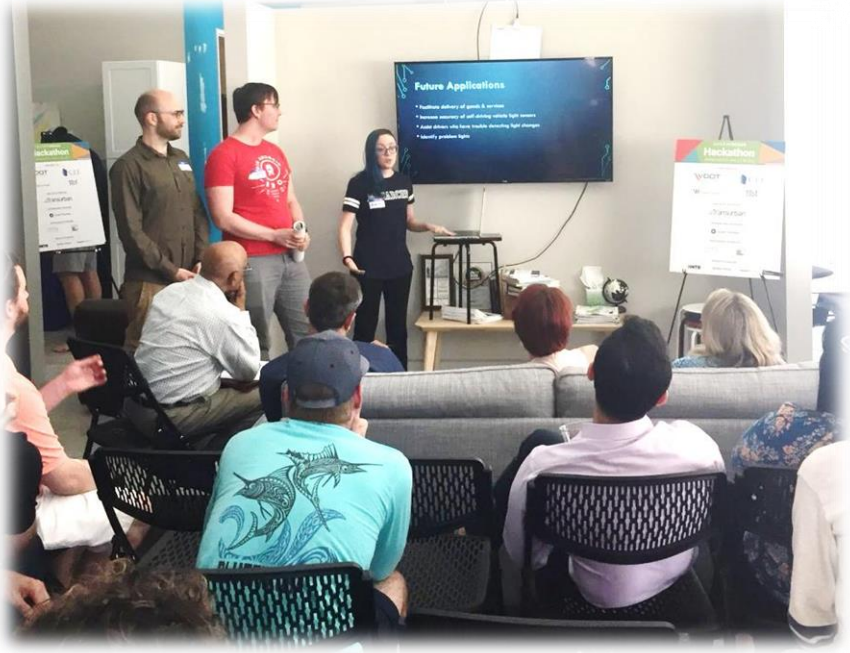


SMARTER ROADS IDEA JAM & HACKATHON UPDATE

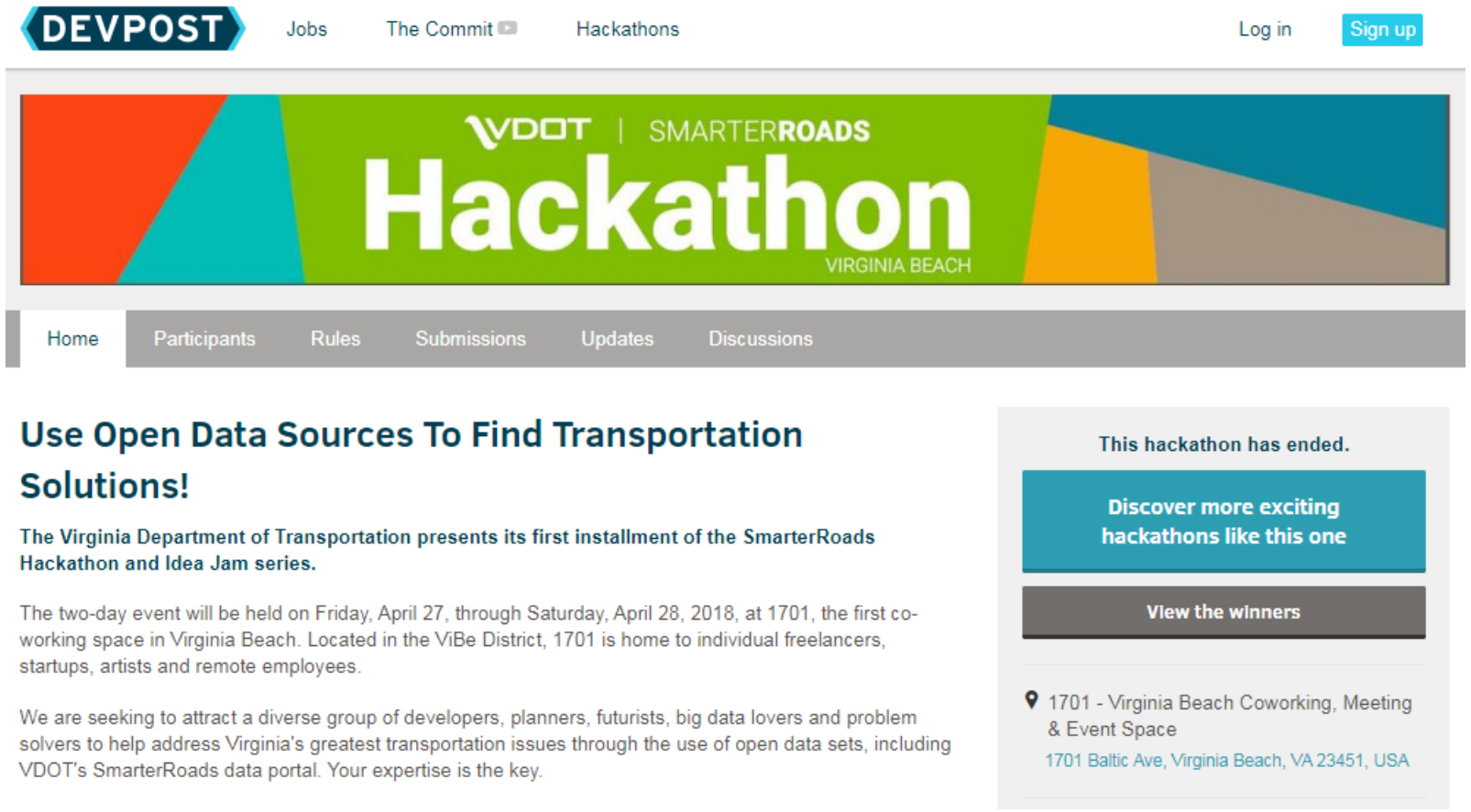
for CTB Innovation and Technology Subcommittee

Virginia Lingham, P.E., Connected and Automated Vehicle Program Manager

May 15, 2018

SmarterRoads Hackathon – Virginia Beach

A Great Success!



#SmarterRoadsVA

Idea Jam and Hackathon Objectives

- ***Accelerate the Connected and Automated Vehicle and Smart City technology development*** **by exchanging transportation data with private sector business, application developers, and university partners.**
- ***Strengthen and develop relationships*** **with the developer community for future coordination and opportunities with connected vehicle and smart city data feeds and information.**
- ***Promote and raise awareness*** **of the availability of the open data resources, including Smarter Roads' open platform.**
- ***Drive the implementation*** **of Connected and Automated Vehicle and Smart City deployments and applications.**
- ***Lead the national conversation*** **to raise awareness of the need for a common platform for data to support the further developments of transportation applications.**

GOAL: Create and share model to follow for future events

Sponsors and Prize Categories

- Hackathon 1st Place
- Hackathon 2nd Place
- Idea Jam: Safety
- Idea Jam: Resiliency
- Idea Jam: Vulnerable Road Users
- People's Choice

PRESENTED BY

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VB City of Virginia Beach

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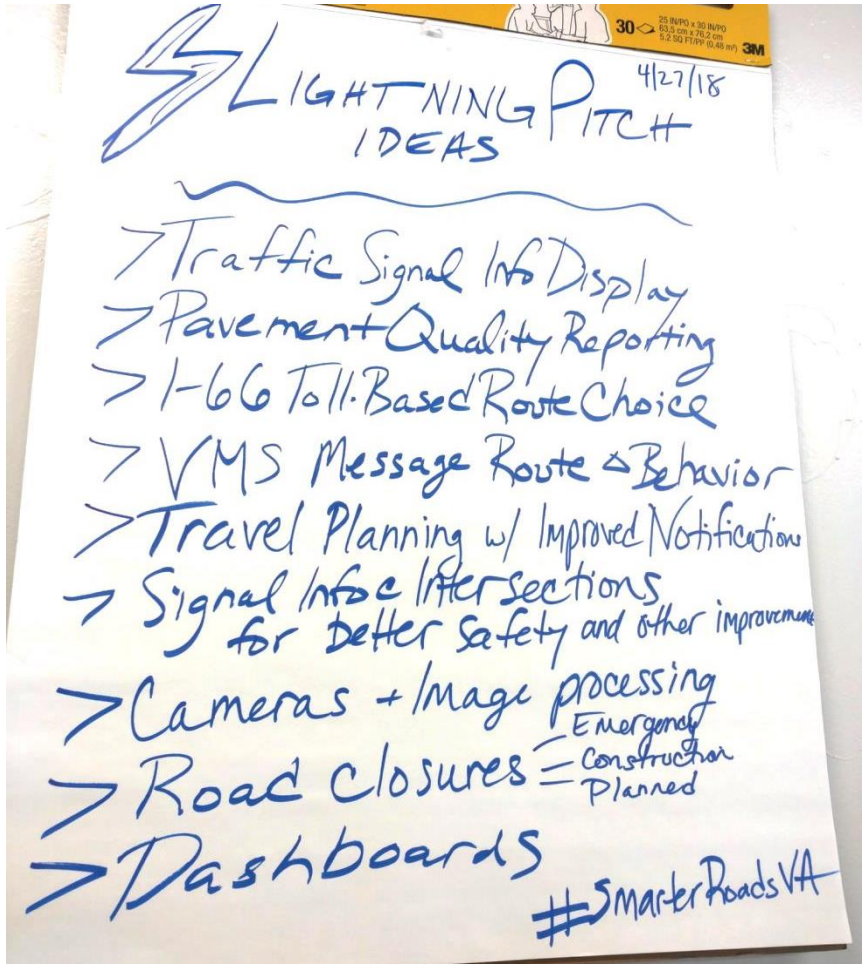
Ideas, Submissions and Awards



Talk DOT

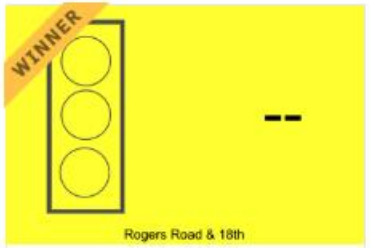
This project enables users to consume traffic data and get insights through

10 0

SmartPave (Smart systematic

Optimized maintenance planning seeks for solutions that minimize the cost

9 0



Headsup - Smarter Roads Tra

A mobile-web app giving a real-time signal-status display of upcoming traffic

7 0

Vi-Care

Infrastructure inventory; Project Optimization; Public Engagement

10 0

LiveDrv

Gamify your way to less distracted driving

+2 11 1

Web Application of Toll-based

An app that gives toll users detailed information and lets VDOT collect and

8 0

-

-

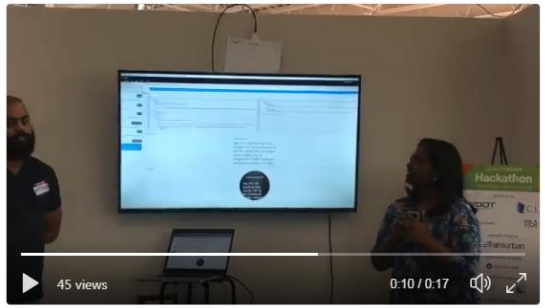
1 0

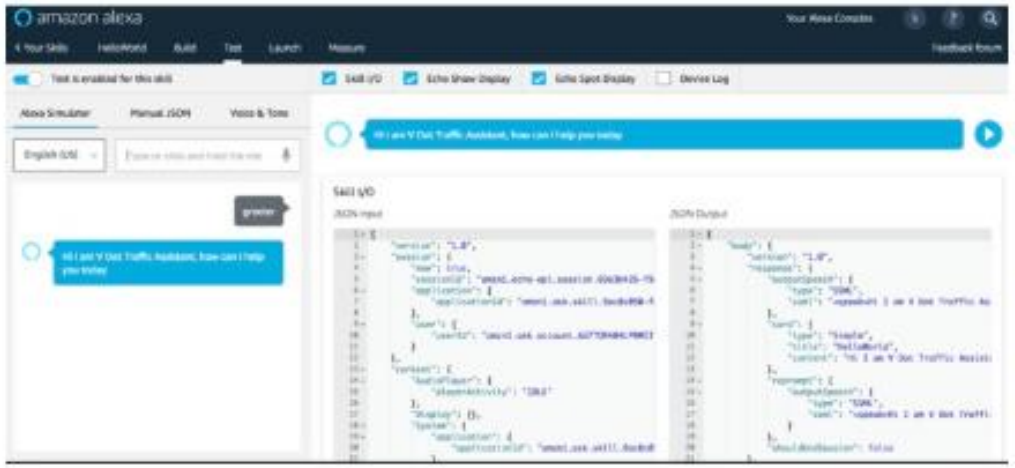
Talk DOT

STORY UPDATES

Code for HR
@Code4HR
Following

"What's happening in Fairfax"?





SUBMITTED TO

SmarterRoads Hackathon - Virginia Beach

WINNER Hackathon: 1st Place

CREATED BY

Ranjani Chandran

Santhosh Kumar

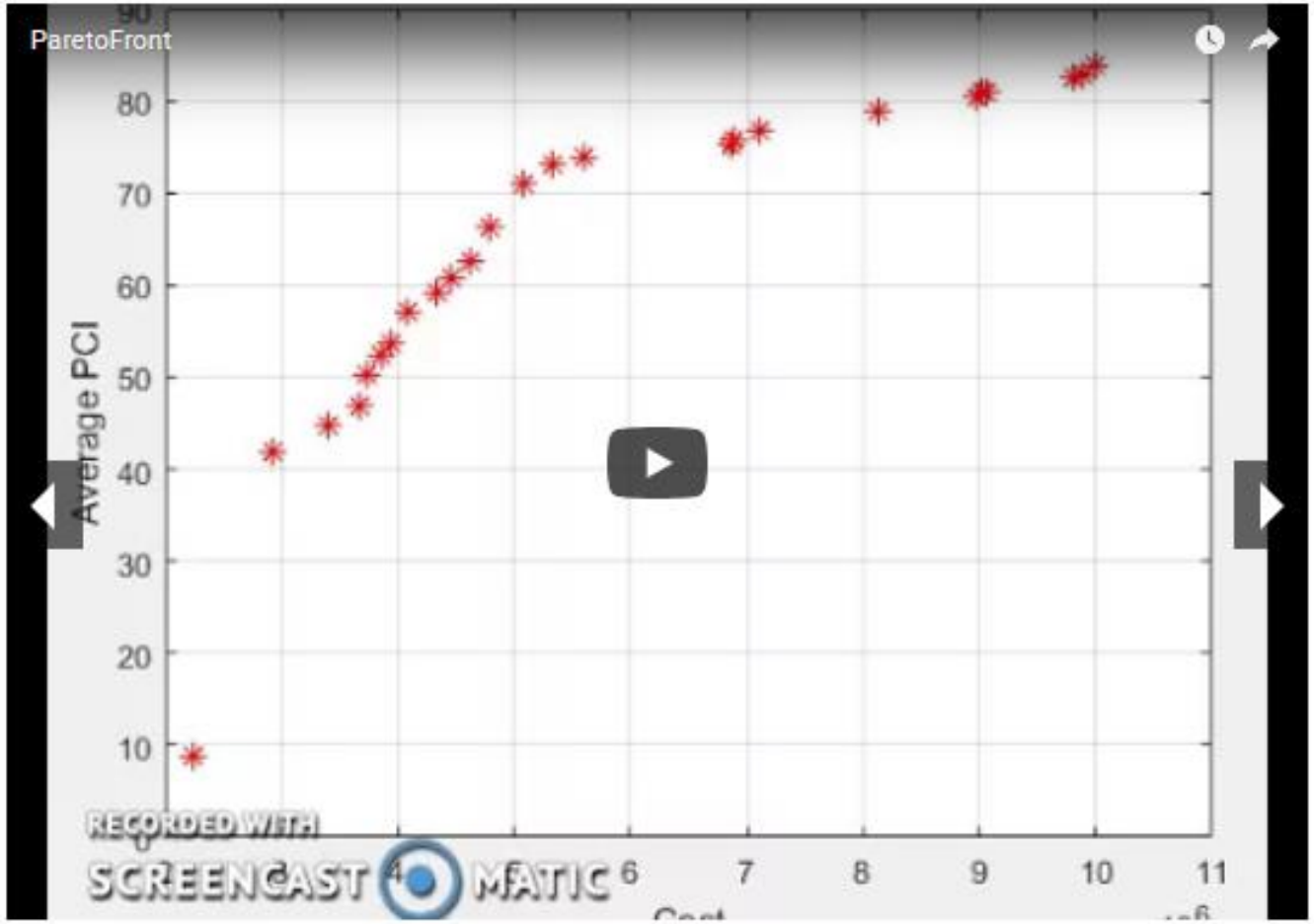
Inspiration

Availability of data sources in various places and different formats waiting to be consumed by users in an easy manner

What it does

Provides information from data anywhere and all the time through Alexa

SmartPave



SUBMITTED TO

SmarterRoads Hackathon - Virginia Beach

WINNER Idea Jam: Resiliency

CREATED BY

Reza Vatani Nezafat

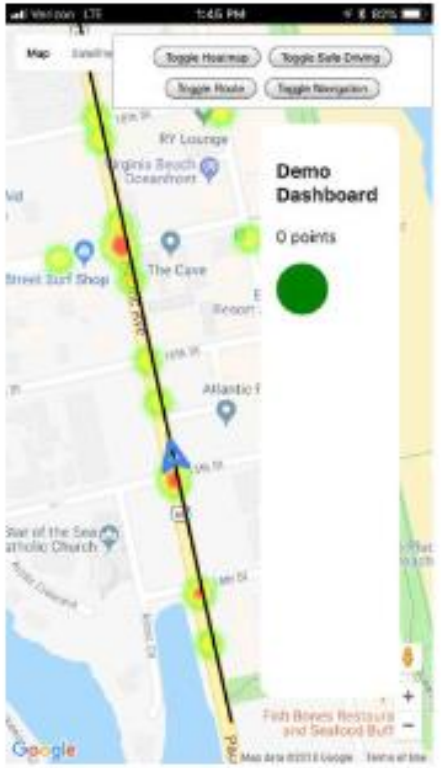
Behrouz Salahshour

Inspiration

Every year hundreds of millions of dollars are allocated towards the maintenance of pavements in the commonwealth. Therefore, even the slightest improvement in budgeting management can make a significant difference.

What it does

LivDrv



Inspiration

There are **179** people injured per day because of traffic crashes in the state of Virginia. Virginia reports an average of 2.3 deaths per day due to traffic related incidents. Accidents could be avoided if drivers practiced safer driving habits, and were more aware of hazards and conditions around them.

What it does

LiveDrv is an application that will use state provided data on historic traffic crash locations, active construction zones, and current driving behavior, such as speed, to reward users with points. Users are incentivized to leave their phones alone while driving, and will receive audio warnings of upcoming road conditions or situations to be aware of.

SUBMITTED TO

SmarterRoads Hackathon - Virginia Beach

WINNER People's Choice

WINNER Hackathon: 2nd Place

CREATED BY

James Johnson

Austin Galyon

Tonia Seenauth

Chazona Baum

Christian Kagel

Next Steps

- After Action Review
- Document Steps Taken and Lessons Learned
- Improve Feedback Process for SmarterRoads Data Portal
- Keep Moving Forward Planning the Remaining Events of the SmarterRoads Hackathon Series for Summer 2018:
  - Danville
  - Northern Virginia
  - Roanoke
  - Richmond?
- Outreach to Future Partners, Sponsors, and Participants

Questions?

Talk DOT
Ranjani & Santhosh
SMARTERROADS
Hackathon
VDOT
CIT
Transurban
Grant Thornton
HNTB

VDOT
Virginia Department of Transportation