



Team "NerDOT"
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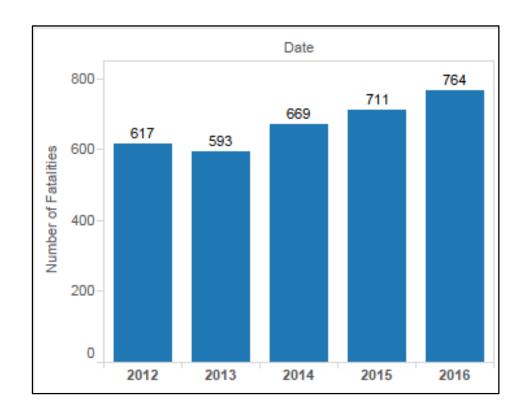


#dctech





National Work Zone Fatalities



Virginia Work Zones

• Crashes: 1,777

Injuries: 870

Fatalities: 10

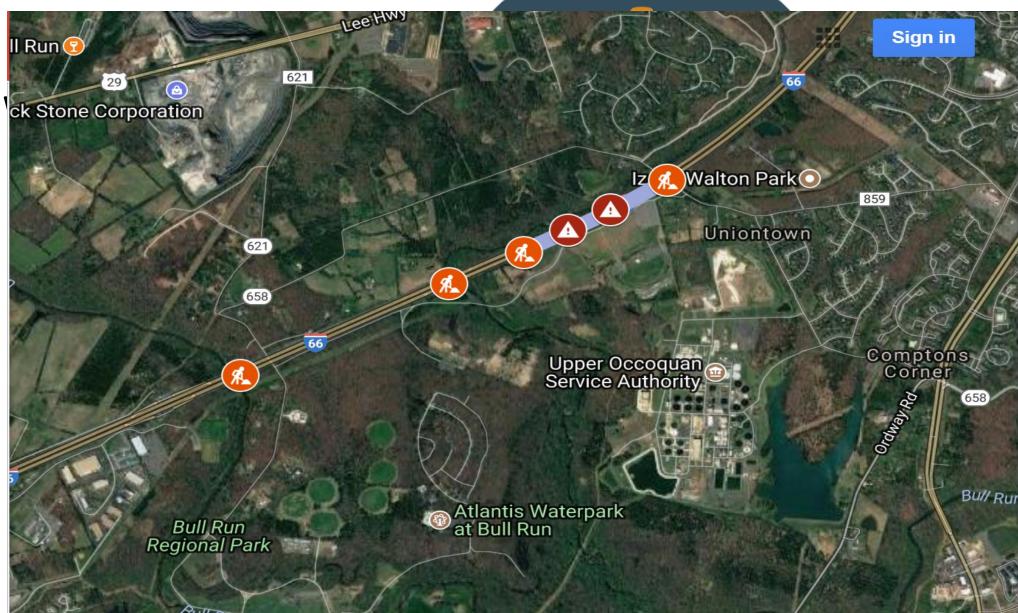
(Numbers represent motorists and VDOT workers)

Source: workzonesafety.org Source: VDOT Traffic Engineering

Goals

- 1. Raise awareness of work zones and incidents
- 2. Increase safety
- 3. Reduce congestion
- 4. Save lives

Zone Alert





Zone Alert Summary Virgini Copartment of Transportation





<u>Problem</u>	<u>Solution</u>	Unique Value Proposition	<u>Unfair Advantage</u>	Customer Segments
 Work zones can be hazardous, w/ increasing deaths, crashes & incidents Driver behavior in work zones is difficult to modify Current approaches do not adjust driver behavior 	Plug-in that provides targeted alerts integrated with existing navigation	 Save lives, improve safety, and reduce congestion by raising awareness of work zones & incidents No existing nav platform w/level of detail on work zones User Experience approach relevant data when driver needs it (vs. data dump) 	 Simple to design & execute w/ fast impact Built-in 250k+ starter user base with VA511 Massive, rapid scalability to popular platforms (e.g., Waze, GoogleMaps) 	 VA 511 Waze Google Maps Other real-time navigation platforms Other State DOT's FHWA
Existing Alternatives	Key Metrics	Key Data Sources	<u>Channels</u>	Early Adopters
• None	 Number of users %Δ Fatalities in WZ %Δ Crashes in WZ %Δ Incidents in WZ %Δ Congestion metrics 	 VA Roads – Projects in SYIP SmarterRoads.Org Beacons (Cones & Vests) Crowdsourced data (Waze, etc) 	 VA 511 Waze Google Maps Other real-time navigation platforms Other State DOT's FHWA 	Current VA 511 users Waze





Questions...(we have some too)

Ok, great. But how is this different from what's already out there?







Areas of additional research...

- Locality, first responder and VDOT coordination to ensure seamless integration.
- Crowd-sourcing to help us fill in the gaps?
- Localities able to submit work zones to 511 for inclusion in Zone Alert app/plug-in.

What's Next?

Scalable







• CAV







• Beacons









Thanks for listening!

Q&A

Video stills

