

DeIDOT Work Zone & Incident Communication (WZIC) Phase 2 – Public/Private Solution

2021 Delmarva
Winter Freight Meeting

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A large blue and red semi-truck is driving on a multi-lane highway. It is surrounded by several other vehicles, including cars and another truck. The scene is captured from a front-facing perspective, showing the truck's grille and headlights. The background shows a clear sky and some greenery on the side of the road.

Informed Drivers = Better Decisions

Better Decisions = Safer Highways

*Providing commercial vehicle operators the incident
and travel advisory information they needed . . .*

. . . Before they need it . . .

So, they can make those better driving decisions

Work Zone & Incident Communication Project (WZIC)

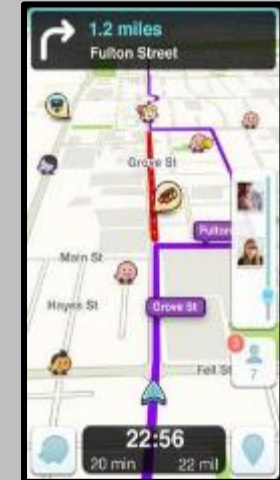
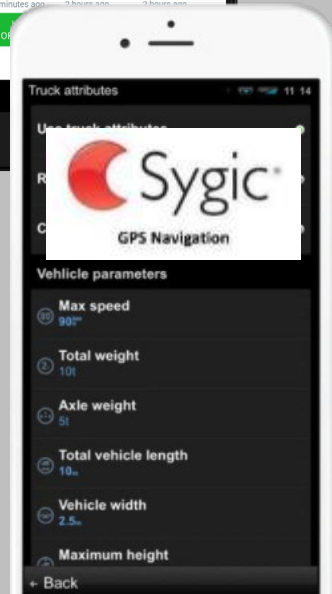
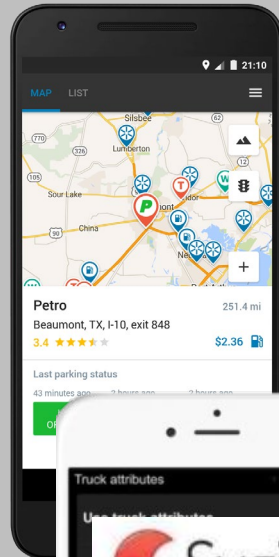
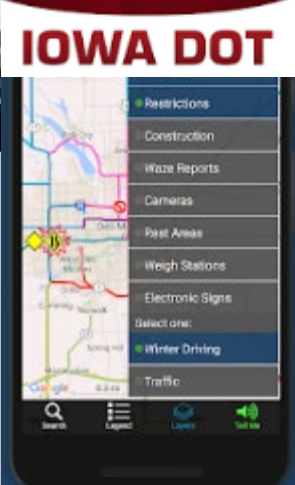
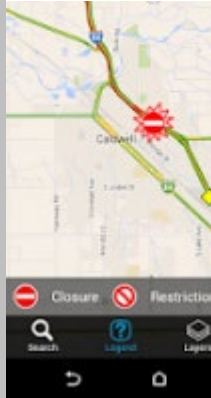
Phase 1

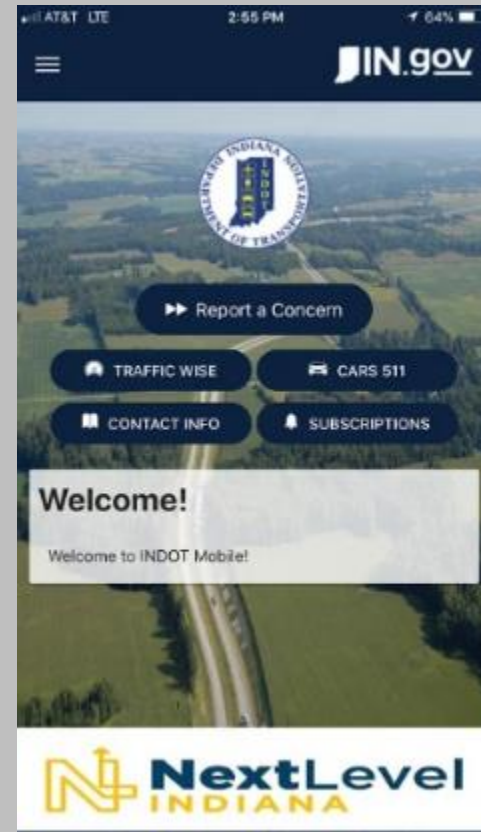
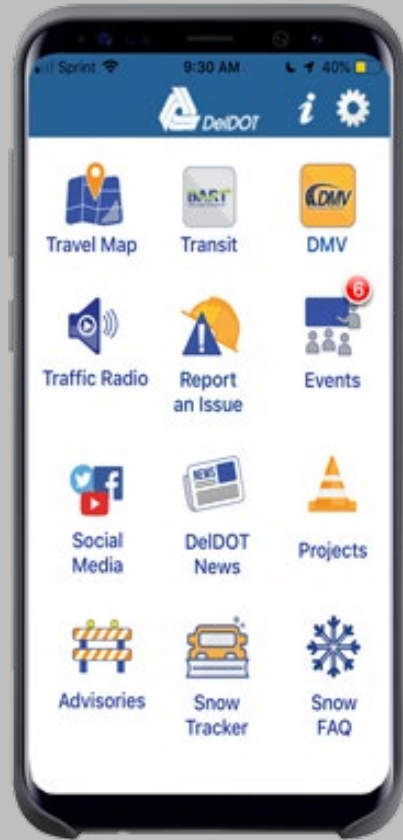
State of the Practice

- What were State DOTs doing?
- Private Sector?
 - Trucking Companies
 - Service Providers



In-Cab Communication





Most smart phone travel apps don't comply with the FMCSA's "single-touch" policy

What should DeIDOT do?

Obvious Solution

- Build a Trucker Travel App
- Populate it with DeIDOT data

Downsides!

- Initial Expense \$90,000+
- Endless Ongoing Expense
- Security, Hacking, Privacy Issues
- Questionable Use (26 mi of I-95)



Call with an IT Manager, Large State DOT

“Whether a DOT should even be in the travel app business”

Examined the use of their app

– *“It was not worth the expense”* (They have since ended support)

If larger states were thinking of getting out of the travel app business . . .

Why would DeIDOT . . .

even consider getting into it?

But, staying out of the app business, doesn't solve the problem

Was there an alternative approach?

What if?

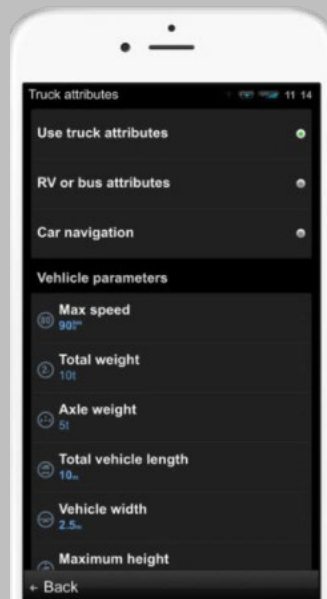
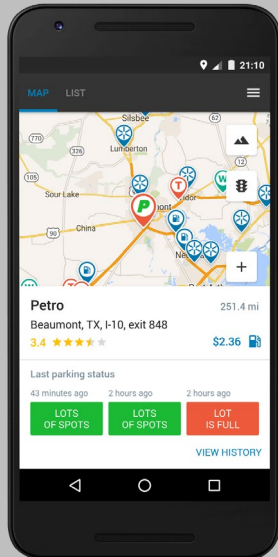
- DOT – Focus on Data Acquisition (core business)
- Private Companies – Distributed that Data (core business)

Capitalizing on the Private Sector Technology

Electronic Logging Devices (ELDs)s Fleet Management Systems

Scale Bypass Systems Navigation Systems Travel Apps

This is a surprisingly good match



They have:

- Their Own Collected Data
- Crowd-Sourced Data

What They Don't Have:

- DOT Verified, Real Time Data
- “The Holy Grail”

The Public / Private Solution

- **Target “Critical Data”**
 - Data that gives a trucker a head’s-up warning
- **Include ANY event that impacts traffic**
 - Lane Closures & Lane Shifts (work zones, accident, etc.)
 - Traffic Backups (congestion, accident, events, etc.)
 - Rail/Bridge Crossing Closures
 - Flooding on the Road, Rockslides
 - Severe Weather

Data is already being made available

Include Everything

Everyone uses a different format

There Needs to Be a Standard

WZIC Phase 2

Using DelDOT as a pilot

For an idea that could be adopted nationwide

- **Develop standardized data format**
- **Adopt a standardized data distribution process**
- **Standardization that is not a burden on either:**
 - **The DOTs – nothing exotic**
 - **The Companies – easily adopted**

Critical Advisory Data

Draft Data Elements

- **First Draft Review – Happening Now**
 - Active Private Sector Partners
- **Second Draft Review –**
 - Delmarva States
 - Eastern Transportation Coalition
- **Iterative Review – All Parties**
 - Finalize Data Elements
- **Then,**
 - Build the schema of the data file
 - Identify a standardized distribution process

Contacts

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