MAASTO 2017

OHIO DEPARTMENT OF TRANSPORTATION

TSMO AT ODOT

John MacAdam

PRESENTATION OUTLINE

- What is TSMO?
- Where are we?
- Where are we going?

WHAT IS TSMO?

Transportation Systems Management & Operations

WHAT IS TSMO?

ODOT's Asset Management Program

- Coordinated strategies and a philosophy to TAKE CARE OF WHAT WE HAVE

- Requires participation from across the Department
  - Planning & Engineering
  - Construction
  - Maintenance

WHAT IS TSMO?

ODOT's TSMO Program

- Coordinated strategies and a philosophy to MAKE OUR SYSTEM WORK BETTER, IMPROVE SAFETY, ENHANCE CAPACITY
- Requires participation from across the Department
  - Planning & Engineering
  - Construction
  - Maintenance

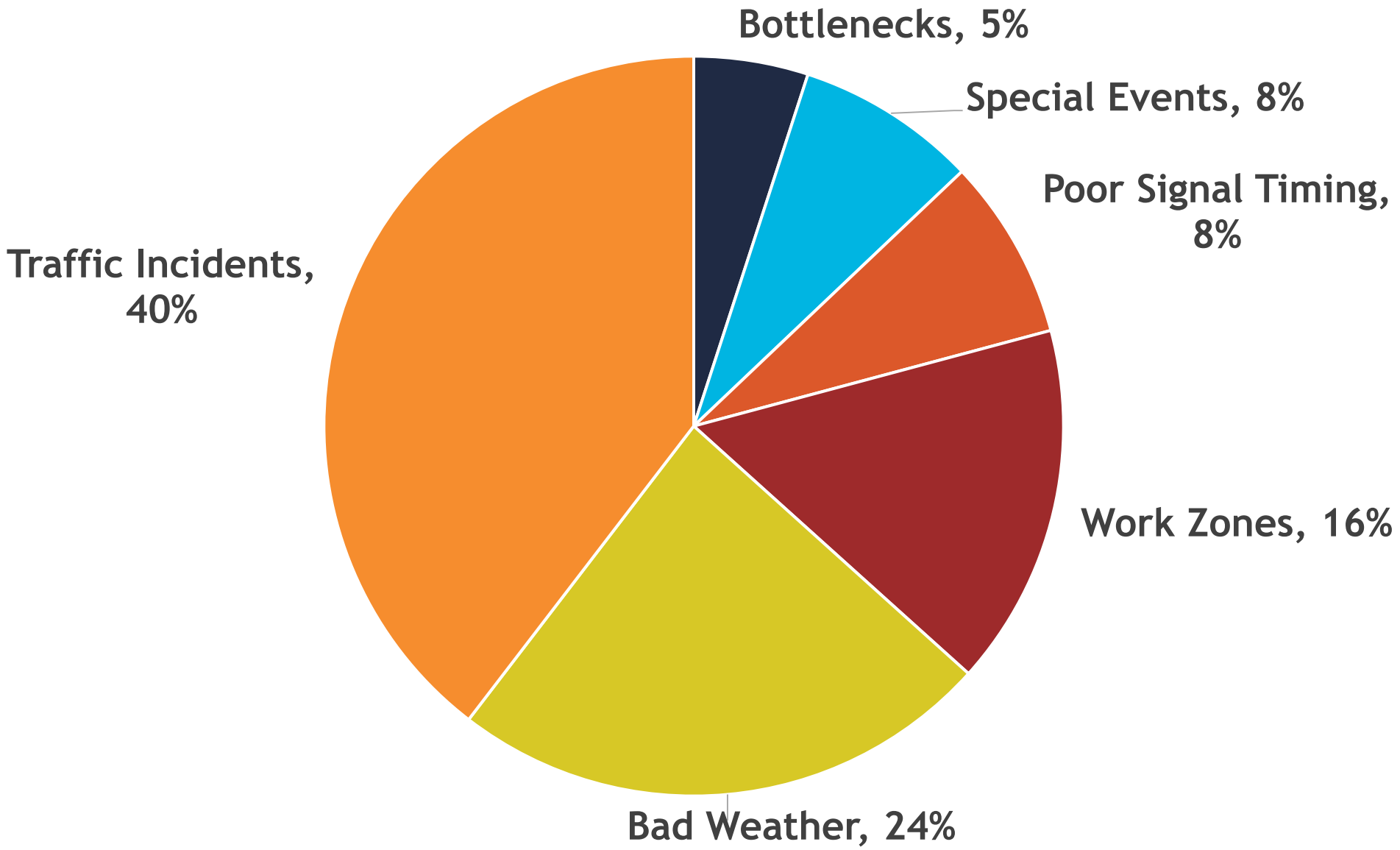
WHAT IS TSMO?

WHAT IS TSMO?

Alternative ways to use **what we have**:

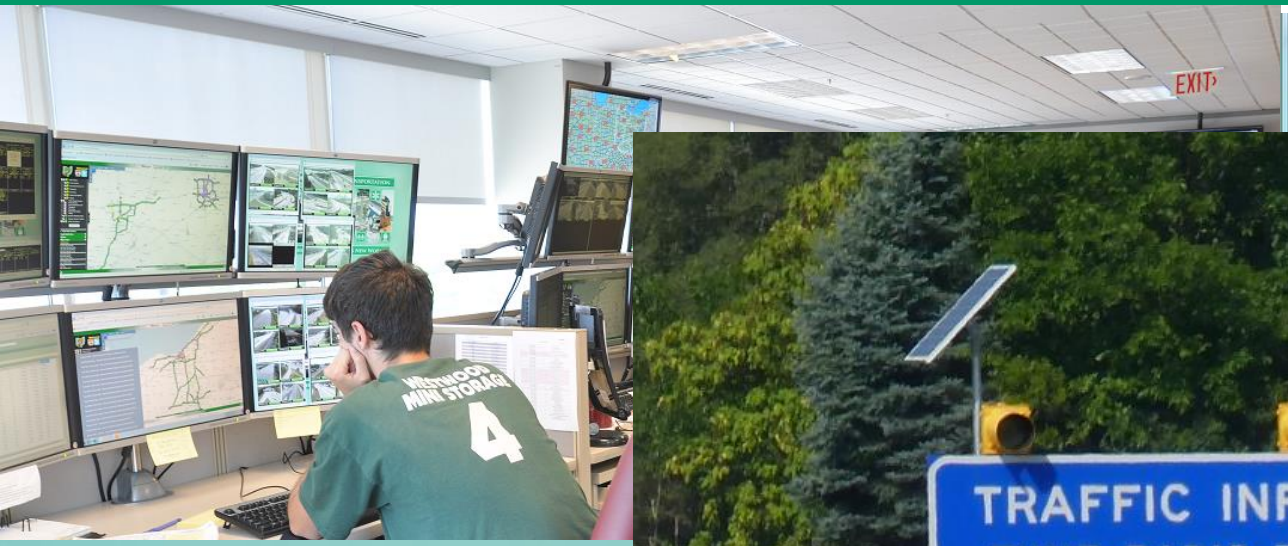
- Reduce recurring congestion (rush hour)
- Reduce non-recurring congestion (weather, crashes, work zones, special events)
- Using technology (devices, data, etc.)

TYPICAL RURAL CONGESTION



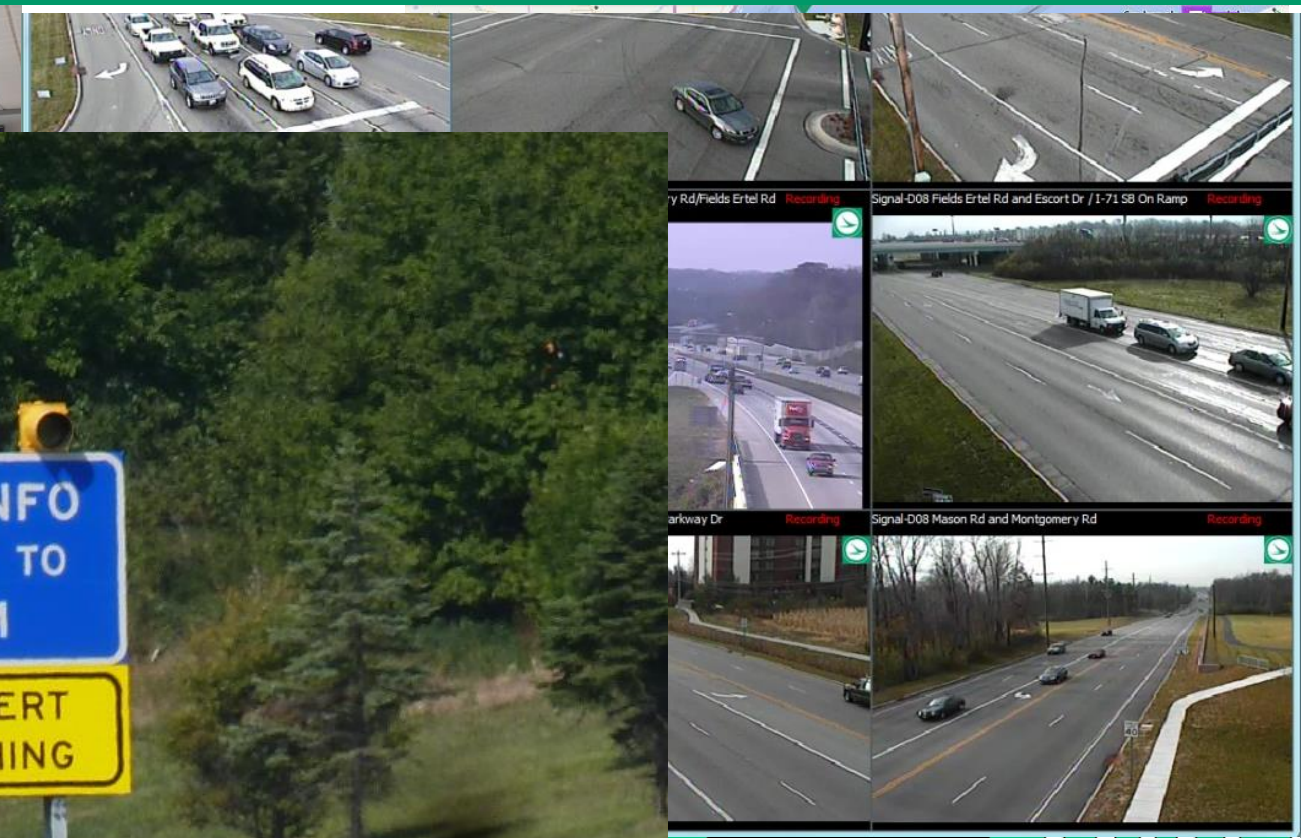
WHERE ARE WE?

ITS & TMC


EXIT

TRAFFIC INFO
TUNE RADIO TO
1570 AM
TRAFFIC ALERT
WHEN FLASHING

US35
1675

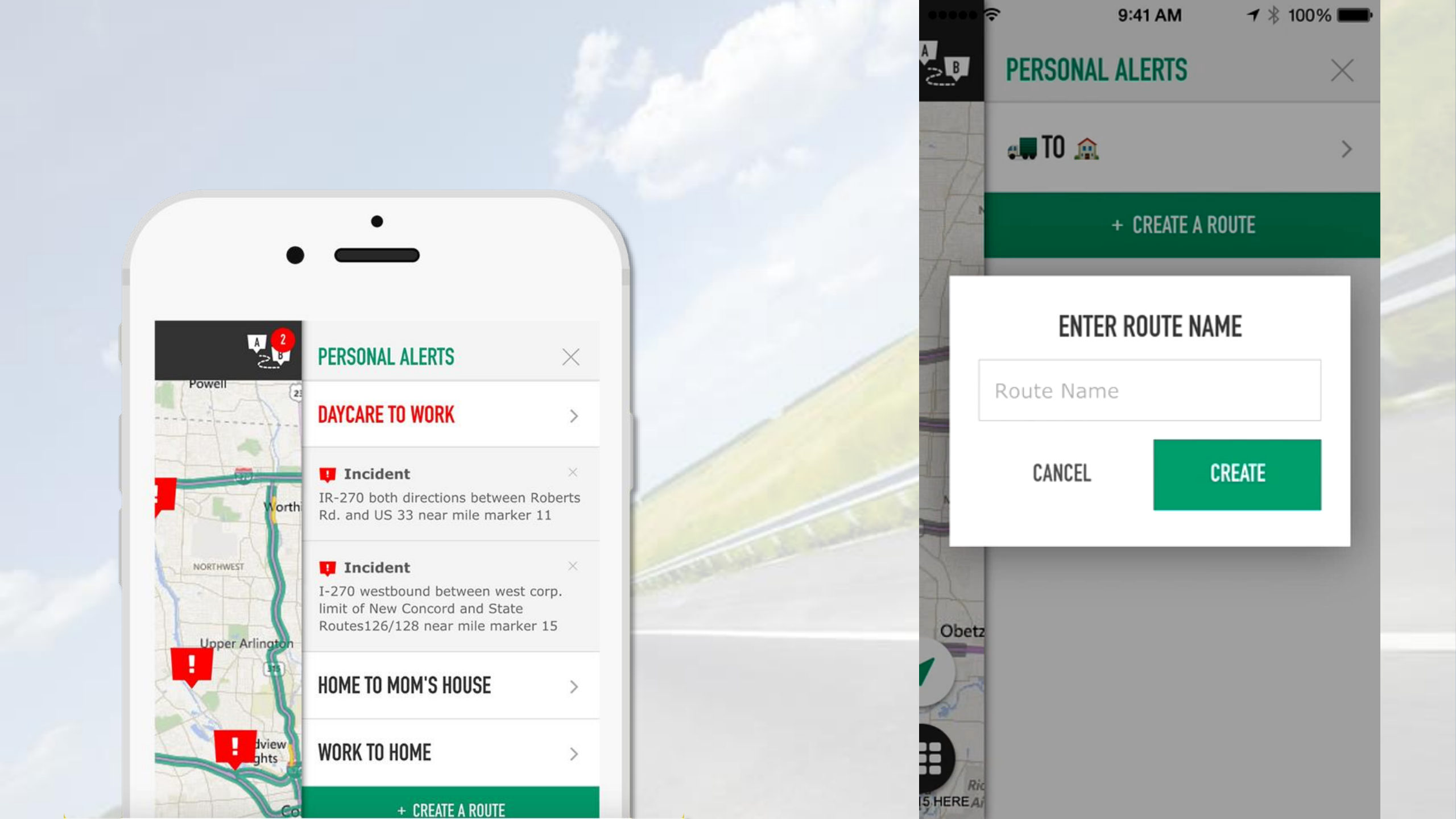

Signal-D08 Fields Ertel Rd and Escort Dr / I-71 SB On Ramp
Signal-D08 Mason Rd and Montgomery Rd

MIN
MIN

FSP & TRIP

THE OHIO TRIP

Towing & Recovery Incentive Payment Program

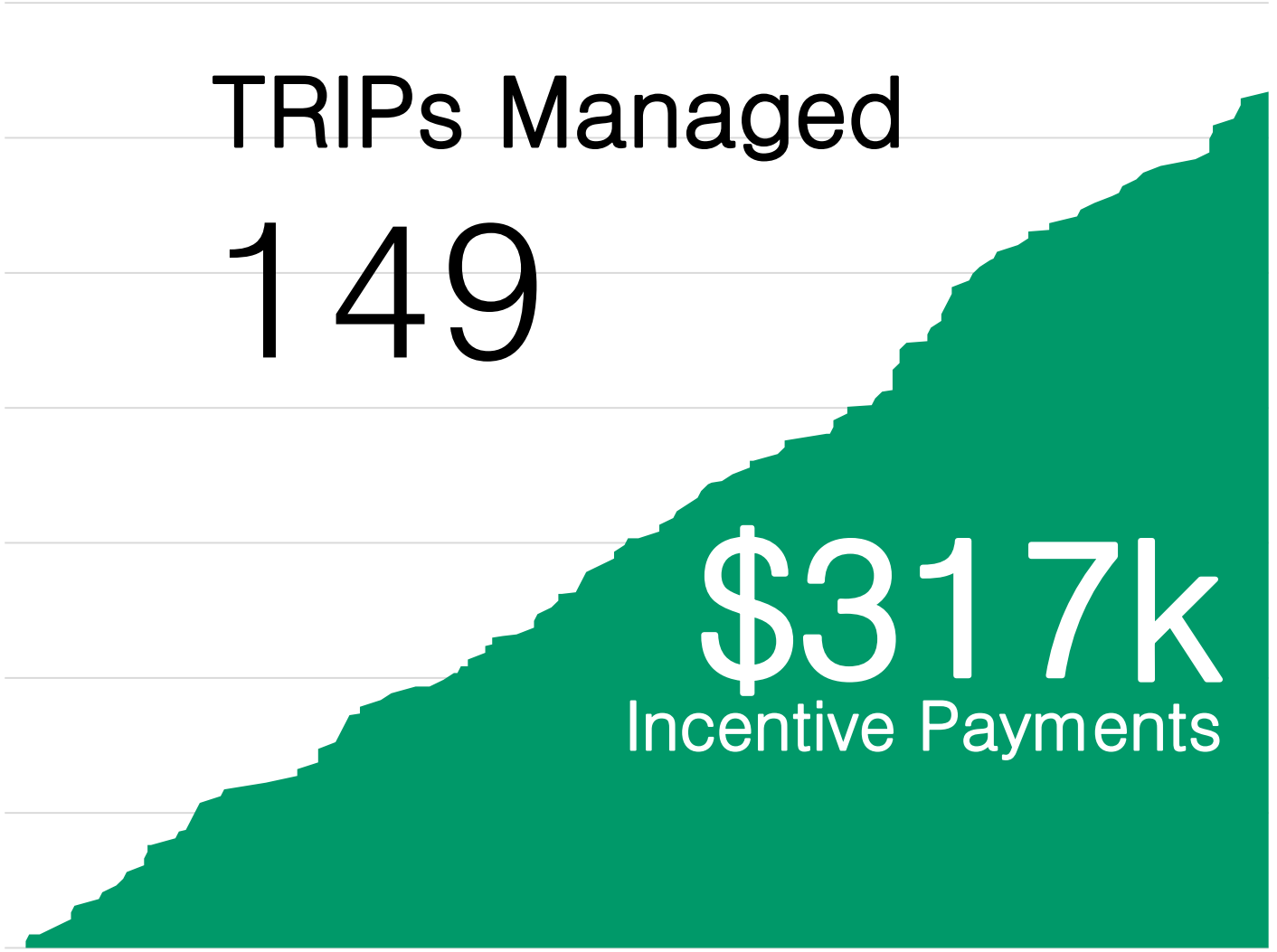

PERSONAL ALERTS
DAYCARE TO WORK
Incident
IR-270 both directions between Roberts Rd. and US 33 near mile marker 11
Incident
I-270 westbound between west corp. limit of New Concord and State Routes126/128 near mile marker 15
HOME TO MOM'S HOUSE
WORK TO HOME
+ CREATE A ROUTE
Powell
Worth
NORTHWEST
Upper Arlington
9:41 AM
100%
PERSONAL ALERTS
TO
+ CREATE A ROUTE
ENTER ROUTE NAME
Route Name
CANCEL
CREATE
Obetz

2016 TMC STATS

15,745
Total Incidents

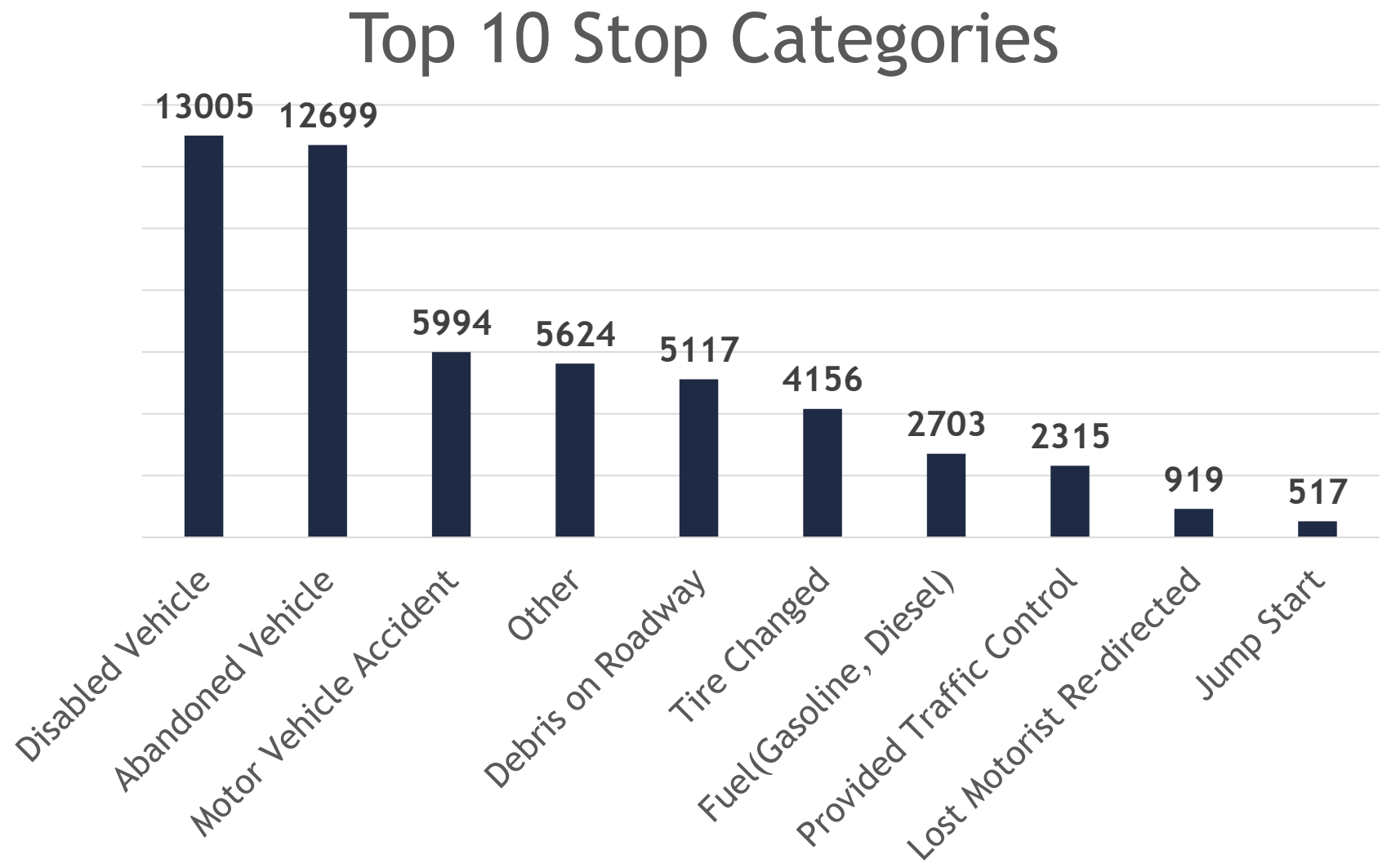
56,357
Emails Handled

5309
Radio Dispatches



2016 FSP STATS

55,241
Total Assists



OHGO STATS

88,000
App Users

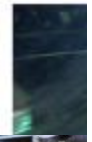
OHGO

10 mil
Page Views

2 mil
Screen Views

23,000
Personal Routes

GPS / AVL ON MAINTENANCE VEHICLES



Road Temperature

Wired Plow Up/Down Sensor

Report Start	3/30/2014 12:27:34 AM	Truck	T4 915	Mileage Start	41672.13	Legacy PPLM	305.47
		Driver	,	Mileage End	41805.45	Actual PPLM	347.14
Report End	3/30/2014 8:42:55 AM	Fuel	0.00	Mileage Total	133.31	Salt Mileage Total	117.31

Road Condition and Operation Report

Time On	Time Off	Route	From	To	Condition	Treatment	Salt	Calcium	Brine	Abrasives	Mileage	PPLM
3/30/2014 12:34:20 AM	3/30/2014 12:39:47 AM	SR-153	Cnty Num: 4.3	Cnty Num: 5.22	0 = Undefined	5 = Patrol Only	0.00	0.00	0.00	0.00	2.27	0.00
3/30/2014 12:39:47 AM	3/30/2014 12:58:48 AM	SR-153	Cnty Num: 5.22	Cnty Num: 14.51	0 = Undefined	2 = Apply Only	1.00	0.00	0.00	0.00	4.39	308.29
3/30/2014 12:58:48 AM	3/30/2014 1:13:07 AM	SR-183	Cnty Num: 12.58	Cnty Num: 5.63	0 = Undefined	2 = Apply Only	0.97	0.00	0.00	0.00	6.13	381.37
3/30/2014 1:13:07 AM	3/30/2014 1:13:30 AM	US-30	Cnty Num: 32.97	Cnty Num: 32.97	0 = Undefined	5 = Patrol Only	0.00	0.00	0.00	0.00	0.00	0.00
3/30/2014 1:13:30 AM	3/30/2014 1:18:57 AM	SR-183	Cnty Num: 5.45	Cnty Num: 5.45	0 = Undefined	5 = Patrol Only	0.00	0.00	0.00	0.00	0.00	0.00
3/30/2014 1:18:57 AM	3/30/2014 1:45:18 AM	SR-183	Cnty Num: 5.61	Cnty Num: 17.47	0 = Undefined	2 = Apply Only	1.86	0.00	0.00	0.00	14.29	343.44
3/30/2014 1:45:18 AM	3/30/2014 2:16:12 AM	US-62	Cnty Num: 38.78	Cnty Num: 38.84	0 = Undefined	5 = Patrol Only	0.00	0.00	0.00	0.00	6.65	0.00
3/30/2014 2:16:12 AM	3/30/2014 2:26:29 AM	SR-183	Cnty Num: 17.16	Cnty Num: 12.75	0 = Undefined	2 = Apply Only	0.69	0.00	0.00	0.00	4.78	420.18
3/30/2014 2:26:29 AM	3/30/2014 2:41:23 AM	SR-153	Cnty Num: 14.45	Cnty Num: 7.62	0 = Undefined	2 = Apply Only	0.73	0.00	0.00	0.00	6.04	411.58
3/30/2014 2:41:23 AM	3/30/2014 2:59:38 AM	SR-153	Cnty Num: 7.45	Cnty Num: 14.63	0 = Undefined	2 = Apply Only	1.31	0.00	0.00	0.00	11.53	402.62
3/30/2014 2:59:38 AM	3/30/2014 3:16:22 AM	SR-183	Cnty Num: 12.57	Cnty Num: 6.83	0 = Undefined	2 = Apply Only	1.20	0.00	0.00	0.00	3.32	449.25
3/30/2014 3:16:22 AM	3/30/2014 3:41:16 AM	SR-183	Cnty Num: 6.28	Cnty Num: 17.47	0 = Undefined	2 = Apply Only	2.15	0.00	0.00	0.00	0.00	437.51
3/30/2014 3:41:16 AM	3/30/2014 3:59:18 AM	US-62	Cnty Num: 39.52	Cnty Num: 0.44	0 = Undefined	2 = Apply Only	0.05	0.00	0.00	0.00	0.00	227.27
3/30/2014 3:59:18	3/30/2014 5:05:18	US-62	Cnty Num:	Cnty Num:	0 =	2 = Apply	0.83	0.00	0.00	0.00	0.00	144.07

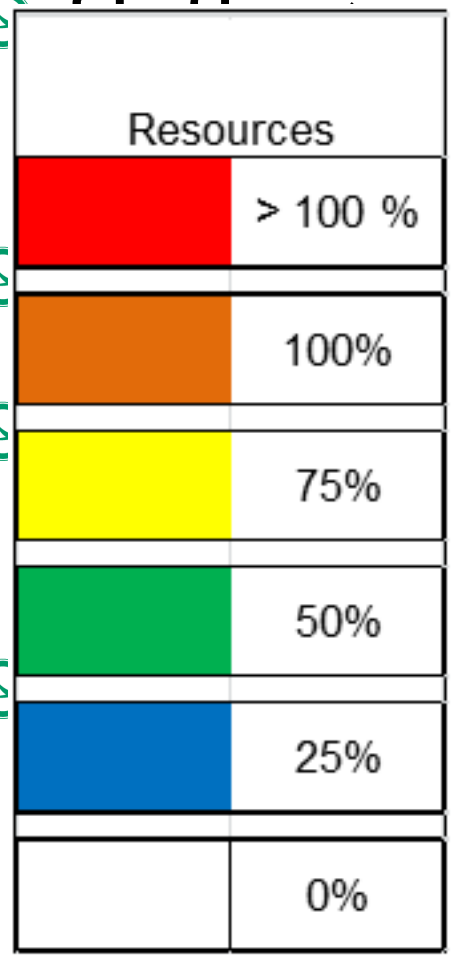
nmunication	Lat	Long	Heading	Road	MPH
nerica Device	10/07/2016 09:06 AM	39.425728	-81.417973	N	SR-26	0.0 MPH

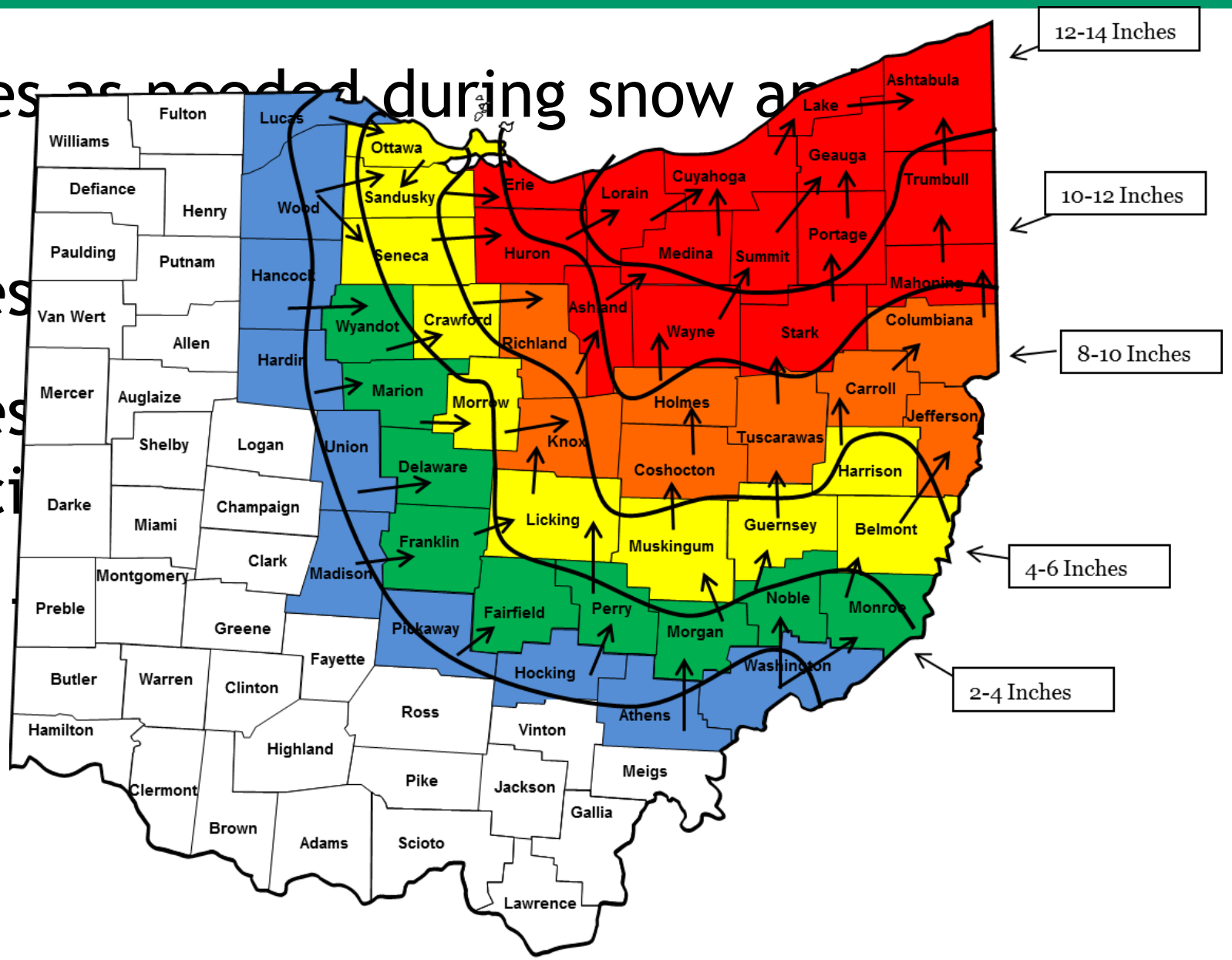
WEATHER FORECASTING / RWIS

- Reviewing weather updates / communicating about events
- Review District RWIS sites for maintenance needs
- Monitor real-time conditions during snow and ice events
- Work with NWS and State RWIS Coordinator

INVISIBLE BOUNDARIES

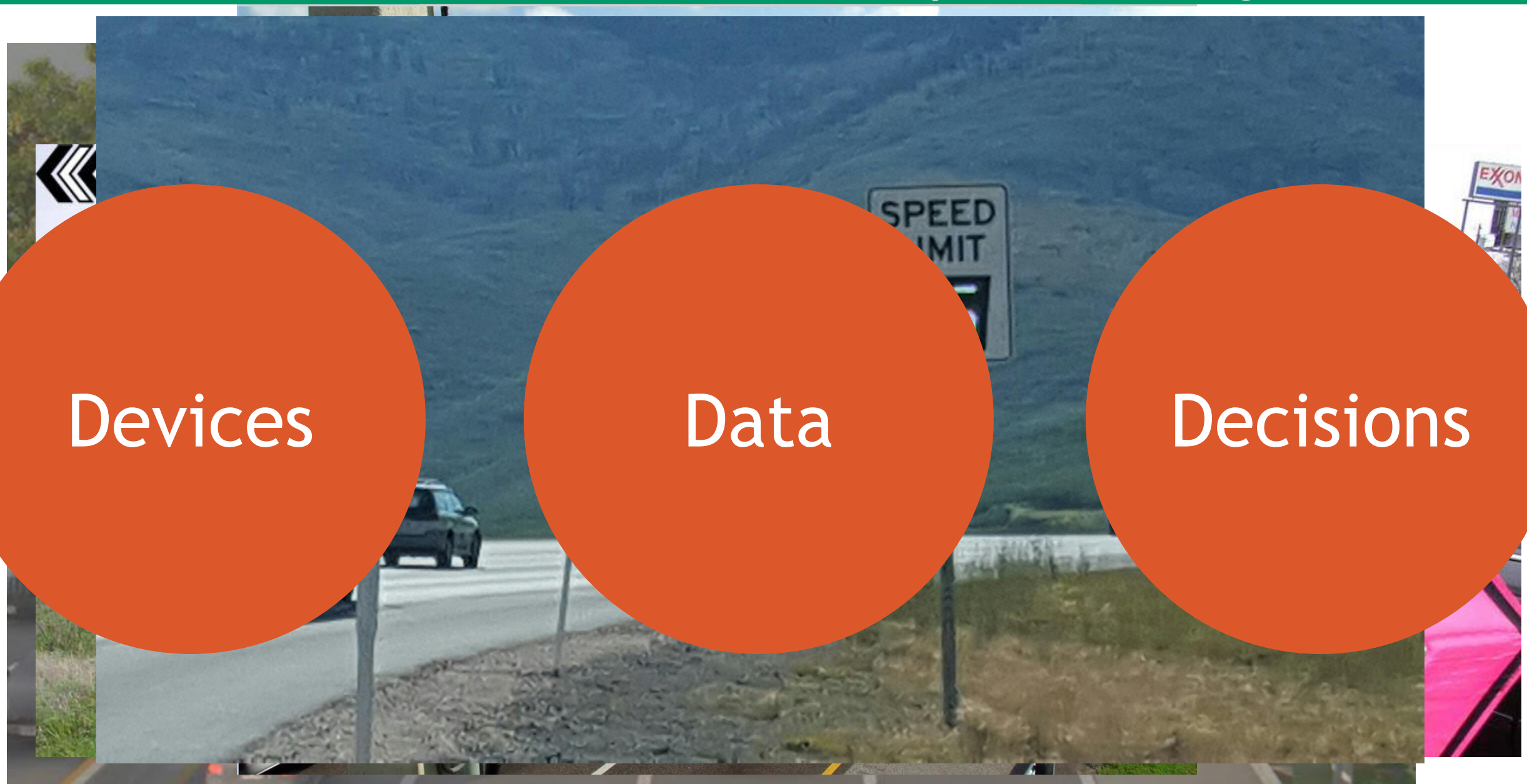
- Shifting sources as needed during snow an
- sources
- sources
- fic inci
- now &



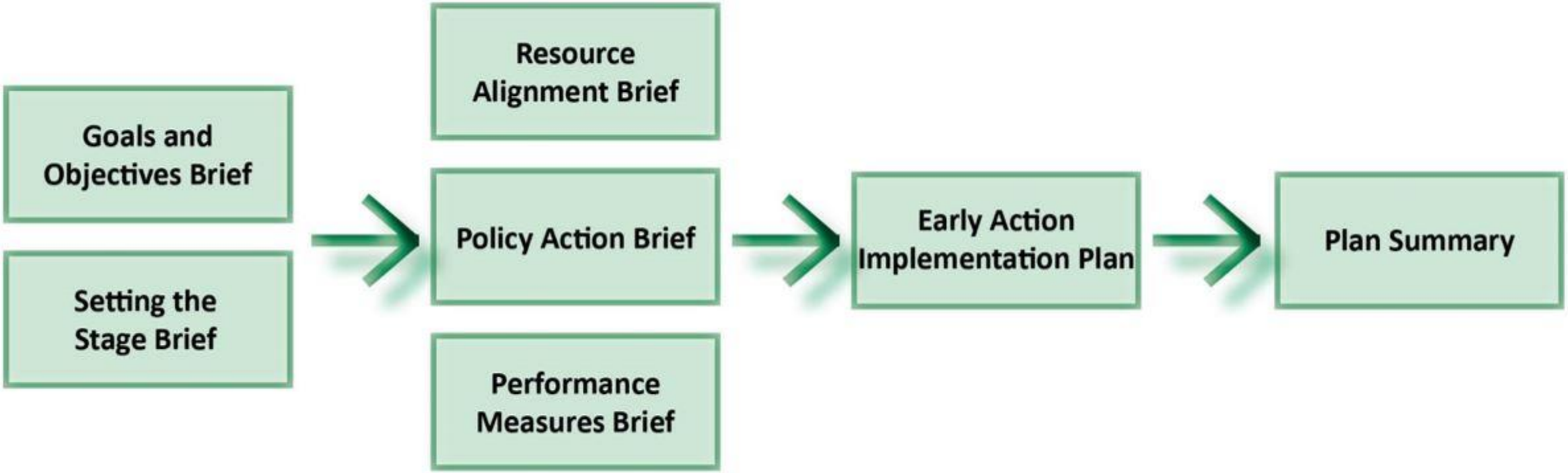


WHERE ARE WE GOING?

WHERE WE ARE GOING: Variable Speed Management



TSMO PLAN


Goals and Objectives Brief
Setting the Stage Brief
Resource Alignment Brief
Policy Action Brief
Performance Measures Brief
Early Action Implementation Plan
Plan Summary

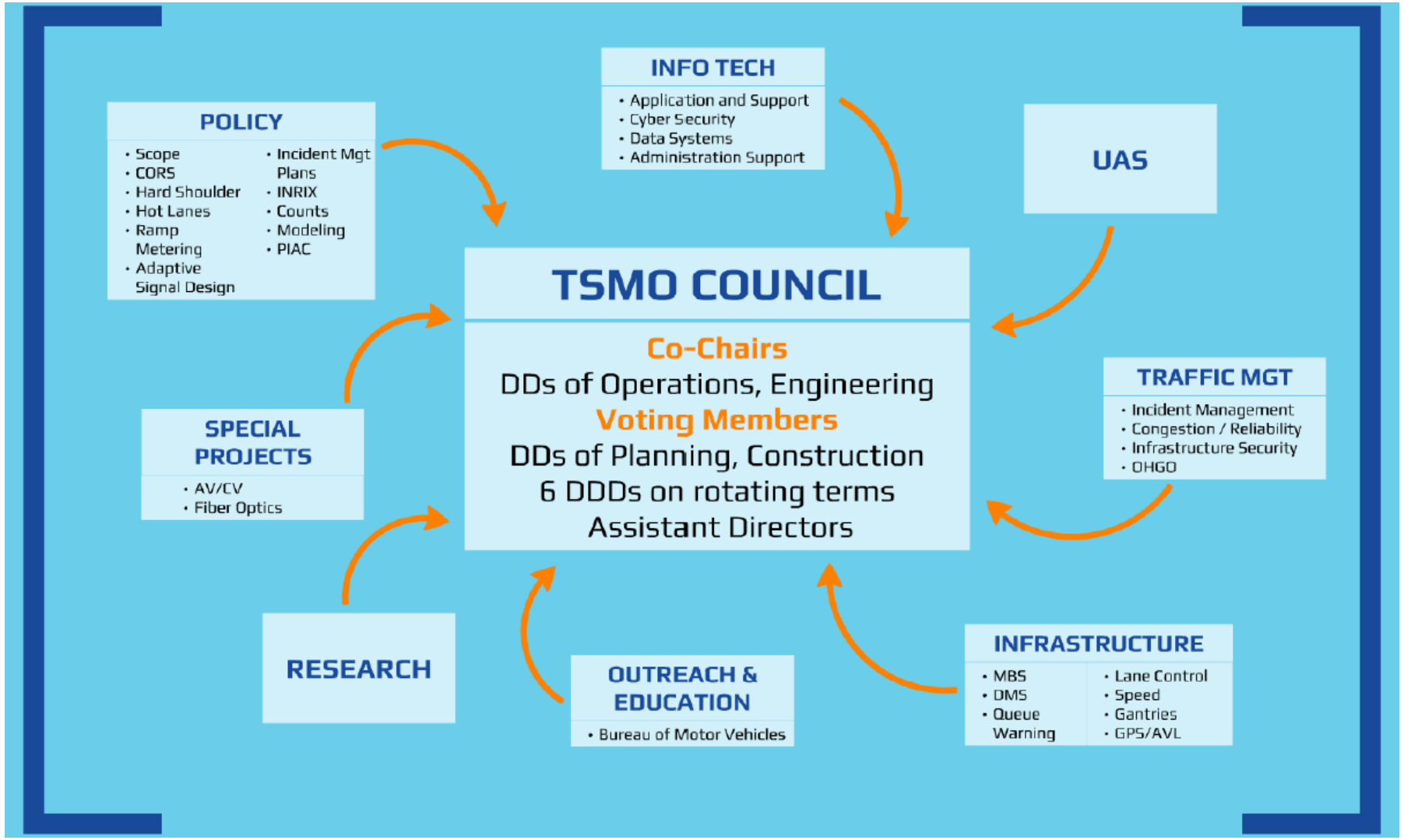
TSMO PLAN: KEY FINDINGS

- Need for the right people in the right places
- Current funding allocations are not sufficient, formalized, or sustainable
- Expand TSMO functions in the Districts
  - TSMO Coordinator

TSMO PLAN: PROGRAM GUIDANCE

- Establish a leadership body (e.g.: Council)
  - Develop charter and provide guidance
- Formal review and update of TSMO Plan every 4 years
- Integration with long-range strategic transportation plan (Access Ohio 2045)
- Conduct annual self assessments (e.g.: CMM)

TSMO PLAN: COUNCIL



QUESTIONS