TOPICS

- GIS Program Evolution
- Contributing Factors That Enable Success
- GeoAnalytics Solutions
- Future Challenges
GEOANALYTICS PROGRAM EVOLUTION

- 1998/1999: GIS Program Initiated
- 2008: GIS put on hold
- 2014: GIS Roadmap
- 2016: GIS Manager Hired
- Analytics Proof of Concept
- 2017: Mapping & Analytics attempt to work more closely together; initial data governance
- 2018: Self serve focused GIS, Agile Development – POC’s
New open end contracts being finalized...
Welcome to the PTC Portal for ArcGIS. The PTC Smart Map is available to explore our first system-wide gathering of data from a variety of sources. Because some map features may not be accessible while the roadmap is in development, the maps are for preview and do not reflect the full scope of the data. In the coming weeks, we will be adding more maps and tools to the Portal. If you have any feedback or questions, please contact us.
SITUATIONAL AWARENESS

Traffic Impediments Dashboard (Barco Video Wall)

**All Events:**
- Today: 181
- Daily Average: 246

**Accidents:**
- Today: 7
- Daily Average: 18

**Roadway Obstructions:**
- This Month: 274
- Monthly Average: 544

**Disabled Vehicles:**
- This Week: 101
- Weekly Average: 617
REAL-TIME DATA FEEDS

- CAD Incidents
- WAZE Incidents
- Vehicle Locations
- Weather
- Traffic Speeds
EVENT DETECTION & NOTIFICATION
UPDATE: All lanes are now open, but there is still heavy traffic in the area, according to the PA Turnpike Commission...
https://t.co/oJuXGy1S1

08:15 PM Aug 19, 2018
**GEOTAG PHOTOS**

**Naming Key:** MilePostDirectionofTravelRouteID event details.

**Text Message Number:** 215-515-7073

For Example: 105.4WT bear in the road
This message would map to:
- Mile Post 105.4
- Westbound
- Mainline

**Requirements:**
- Space between the key and the event details
- Every message sent must have the key included
- Every message must include the event details
- Up to 10 photos per message

<table>
<thead>
<tr>
<th>KEY</th>
<th>FULL LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>Northbound NE Ext.</td>
</tr>
<tr>
<td>SA</td>
<td>Southbound NE Ext.</td>
</tr>
<tr>
<td>EB</td>
<td>Eastbound Beaver Valley</td>
</tr>
<tr>
<td>WB</td>
<td>Westbound Beaver Valley</td>
</tr>
<tr>
<td>NG</td>
<td>Northbound A. Hutchinson</td>
</tr>
<tr>
<td>SG</td>
<td>Southbound A. Hutchinson</td>
</tr>
<tr>
<td>NM</td>
<td>Northbound Mon-Fayette</td>
</tr>
<tr>
<td>SM</td>
<td>Southbound Mon-Fayette</td>
</tr>
<tr>
<td>ES</td>
<td>Eastbound Southern Beltway</td>
</tr>
<tr>
<td>WS</td>
<td>Westbound Southern Beltway</td>
</tr>
<tr>
<td>ET</td>
<td>Eastbound Mainline</td>
</tr>
<tr>
<td>WT</td>
<td>Westbound Mainline</td>
</tr>
<tr>
<td>SH</td>
<td>Southbound I95</td>
</tr>
<tr>
<td>NH</td>
<td>Northbound I95</td>
</tr>
</tbody>
</table>
SEND A TEXT TO 571-200-2059
GEOTAG PHOTOS

@Ashley__Murray
Ashley Murray
State police blocking ramps onto I-376 from Boulevard of the Allies
https://t.co/I0gsWz2mAI

@PATurnpikeAlert
PA Turnpike Alerts
CLEARED: Accident I-76 SB @ MM 31.6, bet Quakertown(Exit 44) & Lansdale(Exit 31)

@PATurnpikeAlert
PA Turnpike Alerts
Accident I-76 SB @ MM 31.6, bet Quakertown(Exit 44) & Lansdale(Exit 31) blocking the left lanes

@ed_keeter
Ed Keeter
I have now been to FOUR rest stops on the Ohio Turnpike in a row that have had their milkshake machines out of order. #fridaymorn #wannatapio

@windowguy11
WindowGuy Dustin
@windowsdoh @Steigerworld The gas prices and turnpike tolls are tough on the smaller inner-suburban youths.
From: info@datacapable.com <info@datacapable.com>
Sent: Saturday, April 6, 2019 9:32:28 AM
To: Parker, Christopher
Subject: Notification: UtiliSocial PA Turnpike Operations inbound SMS messaging threshold surpassed

You have received 1 SMS messages in the past 15 minutes in the account with group name PA Turnpike Operations.

<table>
<thead>
<tr>
<th>Date</th>
<th>Number</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:31 AM EDT</td>
<td>+17242371492</td>
<td>T85.2W accident recovery</td>
</tr>
</tbody>
</table>

With one click, you may unsubscribe from all PA Turnpike Operations notifications (threshold, Influencer, and detected events) at any time.
TRAFFIC ALERT: The westbound @PA_Turnpike I-76 is closed between Reading and Lebanon-Lancaster exits due to a single-vehicle crash involving a tractor trailer blocking all lanes near milepost 283.5. A diesel spill likely indicates a detour of a few hours. Expect delays exiting.
GEOTAG PHOTOS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Person</td>
<td>90%</td>
</tr>
<tr>
<td>Truck</td>
<td>90%</td>
</tr>
</tbody>
</table>
GEOTAG PHOTOS

- Transport: 96%
- Asphalt: 95%
- Mode Of Transport: 94%
- Road: 92%
- Vehicle: 91%
- Motor Vehicle: 90%
- Trailer Truck: 89%
- Snow: 88%
Turnpike reopens after crash site cleared near Lebanon-Lancaster exit

The westbound lanes of the Pennsylvania Turnpike are closed between the Reading and the Lebanon-Lancaster interchanges due to a single-vehicle tractor-trailer crash.
Cashless Countdown

Days: 1,293

Fiber and Conduit Installed
- Installed: 338
- Total: 52

Total Conduit Installed
- Installed: 450
- Total: 106

563 Total Miles of Roadway

AET Readiness

West of Reading
- Ready for AET: 18
- Ready for AET by 09/30: 2

East of Reading
- Ready for AET: 14
- Ready for AET by 09/30: 3

B17 Mount Jackson Rd/Pa 108 - Int
- Future % Utilized with AET In-Place Plus Existing Data: 16.00%
- Project in Progress?: Yes

B18.6 West Toll 18 - Int
- Future % Utilized with AET In-Place Plus Existing Data: 12.50%
- Project in Progress?: Yes

B20 Moravia/Pa 168 - Int
- Future % Utilized with AET In-Place Plus Existing Data: 11.40%
- Project in Progress?: Yes

B29 Beaver Falls/Pa 551/Pa 18 - Int
- Future % Utilized with AET In-Place Plus Existing Data: 11.40%
- Project in Progress?: Yes

Last update: 14 minutes ago
Winter Activation

Real-Time Data Feeds
Coming Soon
• Executive Dashboard – Mobility
• TEO Mobility
• Maintenance – Annual Plan
• IT
• Facilities
• Customer Service/Call Centers
• Executive Dashboard – Infrastructure
• Executive Dashboard – Finance

Coming Soon
• Attenuator Management System
• Traffic Operations Center
• Situational Awareness Mobile App
• Ribbon Wall
• Maintenance GIS Requirements Study
• HR GIS Requirements Study
• Work Zone Dashboard Requirements