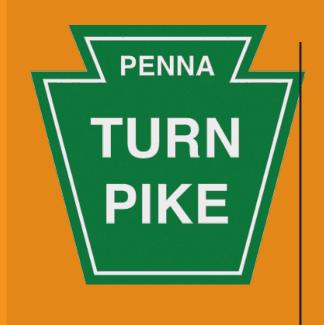


Early Warning Detection using Big data



Introduction to PTC What data?
Lets get SHIRKED!!
EWD tool
What's next







Celebrate 77 years as Americas First Super Highway

Total miles -552

Total employees - 2045

Vehicles per day — 543,934

Net Annual Toll Revenue— 932.1

million

PA Turnpike Fast Facts

BIG flat data facts

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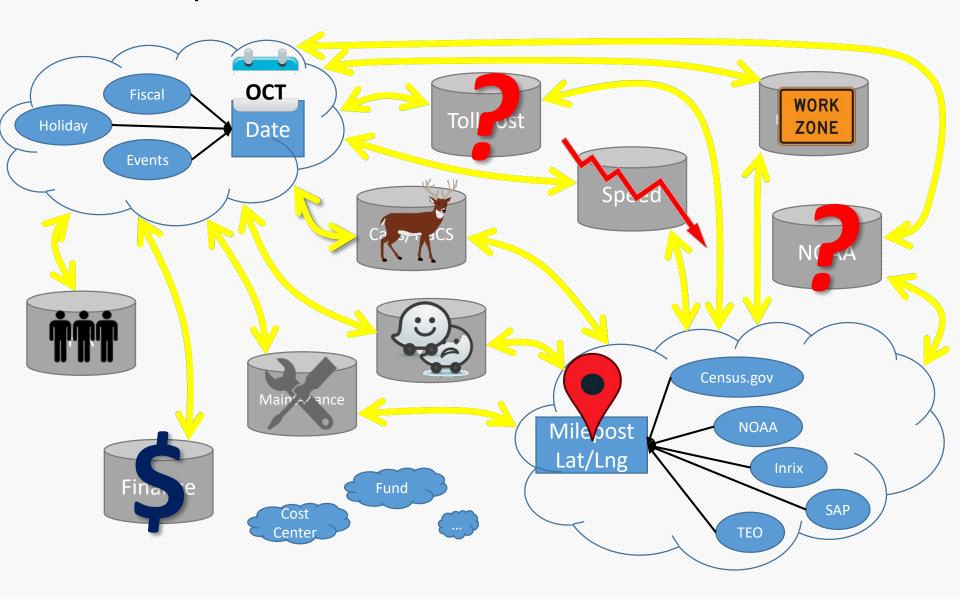
Feed	Records
Inrix	749k
Waze	45.5k
NOAA	4,320

ANNUAL

F <i>e</i> ed	Records
Inrix	273.4MM
Waze	16.6MM
NOAA	1.6MM



Conceptual Architecture









- Need for early detection
- Waze alerts are 4 minutes faster nationwide
- Combination of weather/speed/incidents

Business Need

What is EWD





What we learned?

