

Business Intelligence F.A.S.T. Webinar Series

Part 3 - Operations and Vehicle Health

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Avail Team



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Purpose

- Embark on the Journey to Better Data
- We've fine tuned a process with a few agencies, and we'd like to share it with everyone
- If you do your homework and follow through, we promise you'll have:
 - Quality Data
 - Eliminate Information Silos
 - Reduce Manual Processes

Five Part Series Line Up

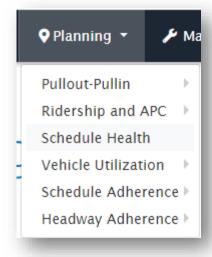


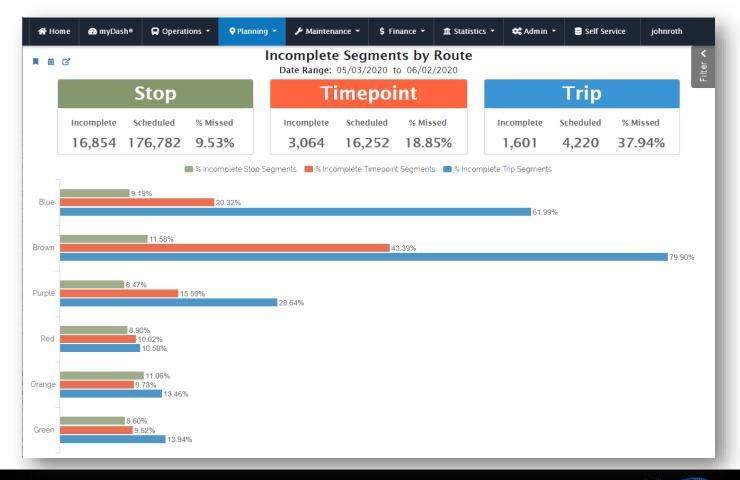
Recap – Schedule Data Health



Business Intelligence – Schedule Data Health Reports

Planning → Schedule Health

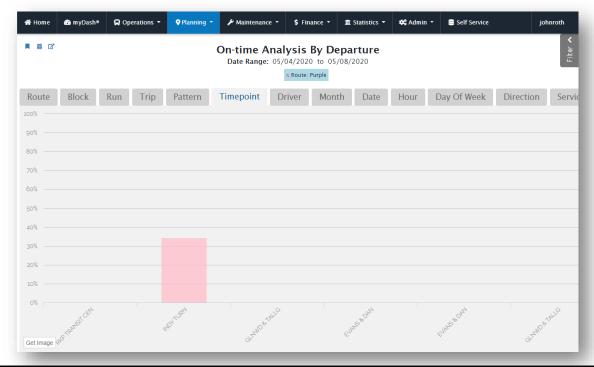






Business Intelligence – Early Outliers

- Early outliers can sometimes be caused by a trigger box at a layover point that is the wrong size
- Review time points that have been flagged as early outliers
- Schedule Adherence → On-time By Departure →
 On-time Analysis By Departure





Homework

- Run your Schedule Health Reports
 - Write down your percentages This is your baseline
 - Start working through the data
- Run your Schedule Adherence Report
 - Check for Early Outliers
- Plan for a future Publish



Next Step – Operations and Vehicle Health



Transit Data Building Blocks



Reporting & KPIs



Operational Behavior



Vehicle Equipment



Trigger Box Data



Schedule Data

Daily Operation

- The operations team's performance can affect the quality of the data collected
- Data points throughout the service day:
 - Operator Checks In
 - Pre-Trip Vehicle
 - Login to Block
 - Pullout of Garage
 - Perform Service (Schedule Adherence / Running Times / APCs)
 - Report Service Issues (Detours / Delays)
 - Pull in or Relief
 - Log out



Are you tracking your performance?

- Operational performance is monitoring and coaching to improve behaviors
- Business Intelligence has reports to assist and provide coaching opportunities to improve your agency
- Operator error can negative effect your data:
 - Log ins are missed or late
 - Pullouts don't occur on time
 - Schedule adherence prompts aren't followed
 - Detours aren't reported or followed
 - Log out are missed



Business Intelligence: System Events Dashboard

- High level performance summary
 - Decision Support
 - Service Deviation
 - Service Monitoring
 - Pull out / Pull In



Decision Support

Event	Occurrences
Cancel Service	0
Discharge Only	0
Helper Vehicle	1
Platoon Trip	2
Replace Vehicle	0

System Events Dashboard

Date: 12/16/2020

Voice Communications

Event	Occurrences	Avg time to take	Avg time to log
Dispatch VoiceCall 1Way	0	00:00:00	00:00:00
Dispatch VoiceCall 2Way	0	00:00:00	00:00:00
PRTT	0	00:00:00	00:00:00
RTT	0	00:00:00	00:00:00
Silent Alarm	1	00:00:15	00:00:59



Service Deviation

Event	Occurrences
Public Messages	0
Detour	1
Off-route over threshold	0
Stationary Vehicle	626

Maintenance Events

Event	Occurrences	
Comms Statistics	0	
Equipment Failures	189	

Incidents

Event	Occurrences
Incidents with Revenue Service Adjustment	0
Other Incidents	4

Pull Out / Pull In

Event	Occurrences
Expired Pullin	0
Expired Pullout	10
Late Check In	3
Late Login	27
Late PreTrip	5
Late Pullin	0
Late Pullout	13
Late Relief	4
Missed Check In	24
Missed Login	60
Missed PreTrip	18
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Service Monitoring

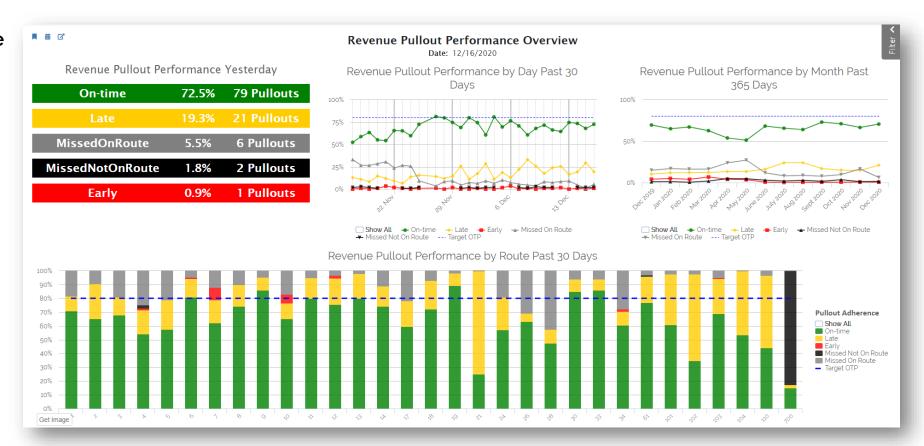
Event	Occurrences
Bus Bunching	0
Detour Message Failed	2
Early over threshold	0
Expired Dispatch Message	0

Text Communications

Event	Occurrences	Avg time to take	Avg time to log
Canned Message From Vehicle	0	00:00:00	00:00:00
Dispatch Message	44	00:00:00	00:00:00
Emergency Canned Message	0	00:00:00	00:00:00

Business Intelligence: Revenue Pullout Performance

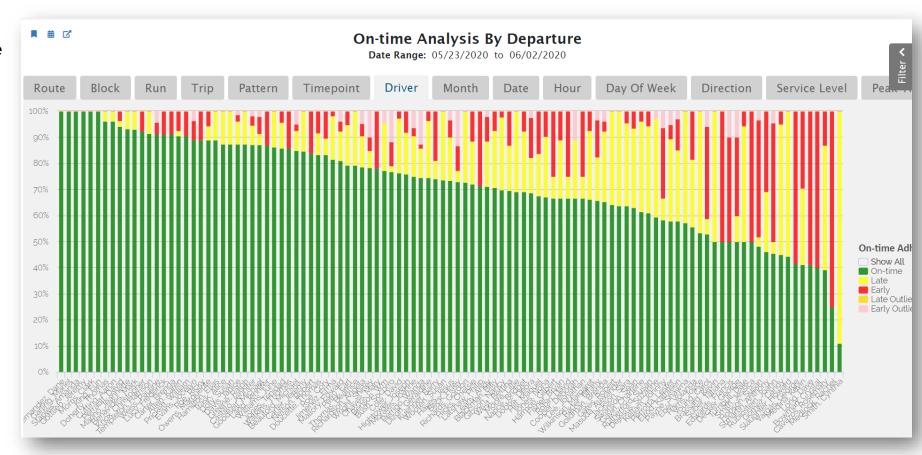
- This is the first revenue stop after deadhead
 - Late
 - Missed On Route
 - Missed Not On Route
 - Early





Business Intelligence: Schedule Adherence by Driver

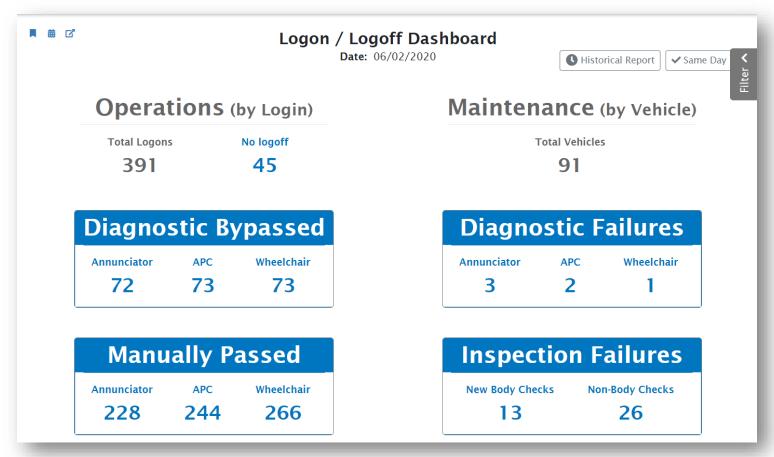
- This is the first revenue stop after deadhead
 - Late
 - Missed On Route
 - Missed Not On Route
 - Early





Business Intelligence: Logon / Logoff Dashboard

- Operations side
 - Total Logons without logoffs
 - Diagnostics bypassed
 - Diagnostics manually passed





Vehicle Health



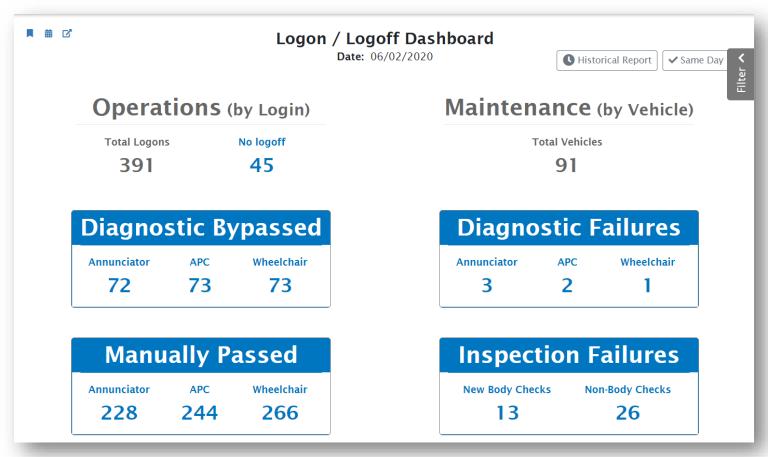
What is Vehicle Health?

- Just like Schedule Data Health, it's important to monitor the vehicle equipment health
- If ITS equipment is not 100%, it's going to negatively impact your data and your operations team's ability to perform service
- Goal: No vehicle leaves the yard with an ITS equipment issue



Business Intelligence: Logon / Logoff Dashboard

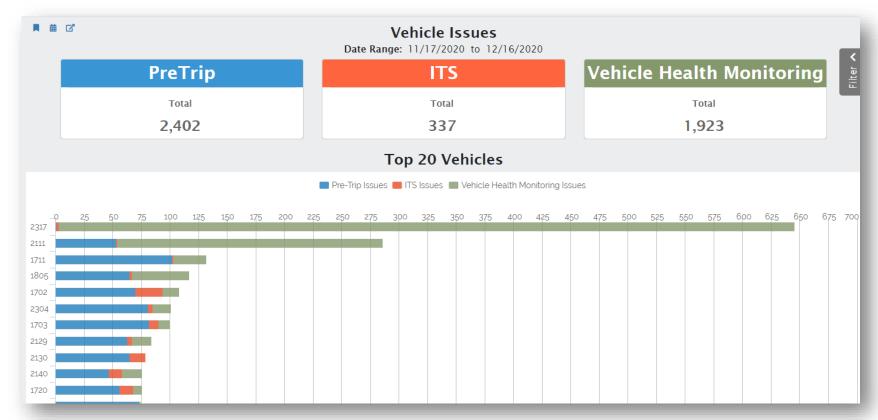
- Maintenance side
 - Total Vehicles
 - Diagnostic Failures
 - Inspection Failures





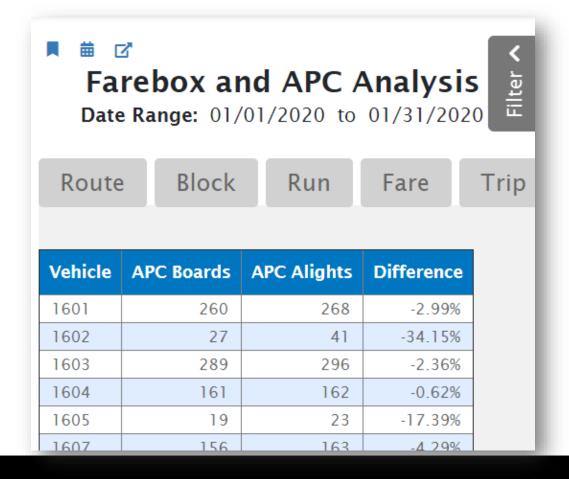
Business Intelligence: Vehicle Issues

- PreTrip
- ITS Diagnostics
- Vehicle Health Monitoring





Business Intelligence: APC Balance & Fareboxes





Next Steps



Homework

- Run your Operational Behavior Reports
 - Write down your percentages This is your baseline
 - Start figuring out how you're going to setup Coaching Sessions
- Run your Vehicle Health Reports
 - Plan to process for monitoring and improvement



Timeline

Completed

• Part 1 Nov 12th: Intro and Basics

• Part 2 Dec 3rd: Schedule Data Health

• Part 3 Dec 17th: Operator Performance and Vehicle Health

Upcoming

• Part 4 Jan 7th: Ridership Analysis

• Part 5 Jan 21st: Running Times Analysis



Thank you!

