

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

Part 5 - Running Times Analysis

Date: Thursday, February 4th, 2021



Avail Team



Gregory Kilbride

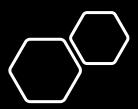
F.A.S.T. TM Professional Services



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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

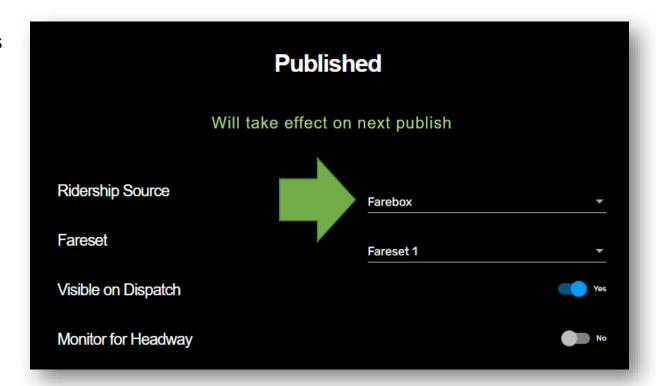


Recap – Ridership Analysis



Ridership Source

- Within the Avail system the ridership source needs to be defined
- What's your ridership source set to?
 - Farebox data or APC Boards





Business Intelligence: Vehicle Utilization

- Analyze data by vehicle capacity percentages
- Find the average capacity and number of times over capacity by Route, Trips, or Peak Times





Homework

- Run your Ridership Reports
 - Confirm your "ridership" source
 - Identify where your data comes from
 - Look through the reports



Next Step – Running Times Analysis



Transit Data Building Blocks



Reporting & KPIs



Operational Behavior



Vehicle Equipment



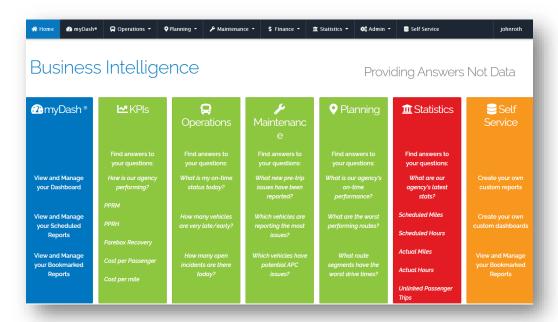
Trigger Box Data



Schedule Data

Running Times Analysis

- The measurement of the scheduled service vs. how it was performed on the street
- Business Intelligence allows us to monitor drive time, layover time, and on time performance





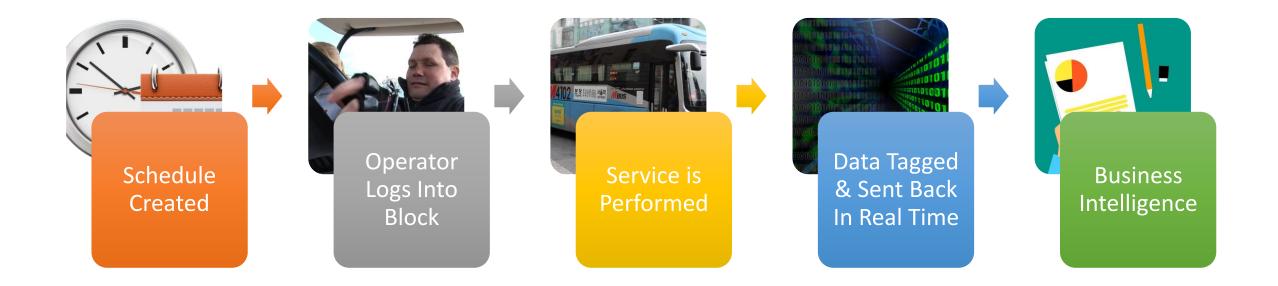


What Affects Running Times?

- Factors that can affect running times:
 - Time of day
 - Traffic
 - Passenger Load
 - Detours
 - Operator experience
 - In Season vs. Out of Season
 - Etc.



How are Running Times Captured?





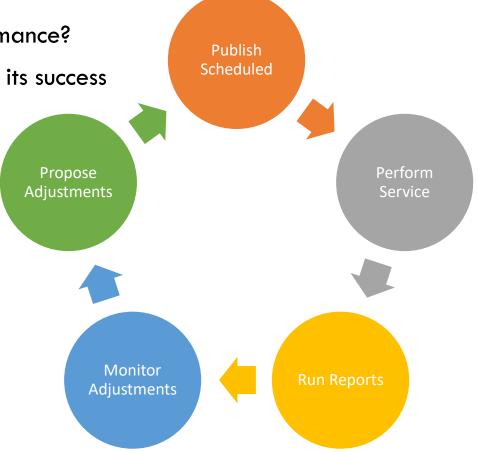
Review your Agency's Processes

How often are you analyzing running times and on time performance?

• Do you have a process in place to make an update and review its success

afterwards?

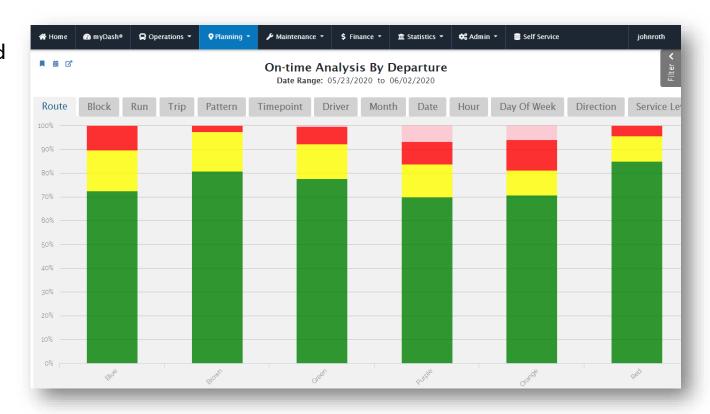
Are you gathering driver and rider feedback?





Business Intelligence: Ontime Analysis By Departure

- OTP is good place to start
- Is there a route, block, or service level you'd like to investigate first?
- Can you identify an area that's under performing?





Business Intelligence: Running Times Variance

- Observed variance between the schedule and actual
 - Drive Time
 - Dwell Time
 - Total Time
- See in your schedule where extra time is being taken or where there isn't enough time





Business Intelligence: Running Times Overview

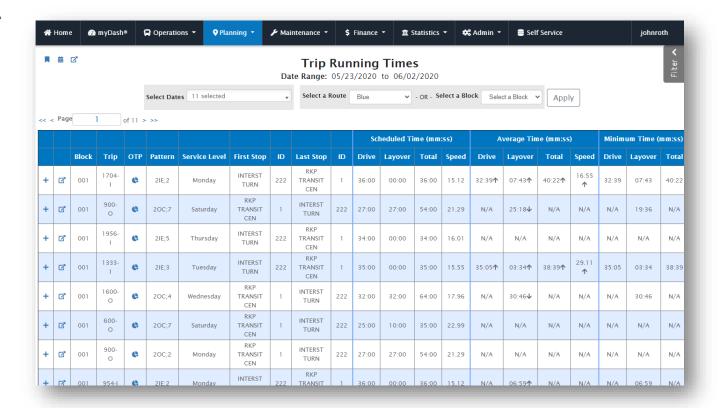
- Route and Trip level information
- Visual representation of scheduled drive time and dwell time vs. actuals
- Are trips always starting late? Can you rebalance the drive time between timepoints?





Business Intelligence: Trip Running Times

- Trip, Timepoint, or Stop segment level drive and layover time:
 - Scheduled Times
 - Average
 - Minimum
 - Maximum
 - Speed





Business Intelligence: Vehicle Utilization

- Analyze data by vehicle capacity percentages
- Find the average capacity and number of times over capacity by Route, Trips, or Peak Times





Homework

- Run your Running Times Reports
 - What's your On Time performance? That's your baseline, document it, let's improve from there
 - Does your agency have a process of adjusting schedules and validating them after the fact?
 - Reach out to your FAST member if you need assistance!



You did it!



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

• Part 4 Jan 21st: Ridership Analysis

• Part 5 Feb 4th: Running Times Analysis

Upcoming

• Feb 10th: Data Flow: System-Wide Training Webinar



Thank you!

