Public Transit Agency Apps

Department	App/Solution	Function
Planning/Scheduling/System Development	**Title VI Analysis**	Perform analysis to better understand current and future routes for meeting title VI requirements
	Route Planning	Analyze routes and stops to increase ridership, prepare for expansion, optimize routes to meet rider demand
	Ridership Visualizer	Interactive map to visualize passenger loads, origin & destination information, transfer points, handicap ridership, bicycles. This data could potentially be put on a public facing map or dashboard to reduce the number of requests that need to be answered.
	Demand Responsive	Perform network analysis for origin/destination for paratransit/demand responsive needs
Safety	**Safety Management System**	Suite of safety apps to identify safety hazards, mitigate and eliminate risk before an event takes place, investigate and report on events, meet FTA requirement
	Identify Safety Issue	
	Assign Safety Issue	
	Incident Reporting	
	Incident Data Collection	
Operations and Maintenance	**Performance Monitoring**	Dashboards for tracking KPI such as OTP, ridership, etc.
	Track Allocation	Understand and analyze track capacity and routing trains appropriately
	AVL & Traffic Monitoring	Monitor location of vehicles in real time for situational awareness and decision making, include various data feeds like traffic, weather
	Bus Stop Amenities	Suite of apps for identifying bus stops for cleaning, assigning field crews to perform work, routing crews to work locations, workflow for completing work, displaying on dashboards
	Assign Bus Stop Cleaning	
	Receive Bus Stop Cleaning Assignments	
	Nofify Maintenance	
	Bus Stop Maintenace	Suite of apps for identifying maintenance needs, assign maintenance work to field staff, receive work assignments, notify dispatch when work has been started and completed, display on dashboards
	Assign Maintenance Work	
	Receive Bus Stop Maintenance Assignments	
	Pullout Performance Dashboard	Dashboard shows trends and yard pull out performance in real time, helping keep buses on time
	Finding the Bus	Locate buses in the yard and communicate the exact parking spot location to the operators. This can be displayed on a screen in the yard office or on a mobile device
	Entry/Exit Vehicle Counter	Monitor and display yard entry and exits to maintain an accurate count of vehicles in the yard
	Public Reporting/Pass-Up Reporting	Allow the public to capture and report relevant location and issue data, along with photos. May also include the capability for the public to report pass-ups and safety issues
	Project Viewer	Understand maintenance and capital project info, including timing and locations of projects
Engineering and Asset Management	**ADA Bus Stop Assessment**	Identifying bus stops, assess bus stops for ADA compliance using a smart form, use further spatial analysis techniques to narrow down priority stops for assessment
	Linear Referencing	Identifying assets along a track
Real Estate	**Asset Management**	Understand where public transt property assets are, display various information about the assets, ownership, status
Public Safety	**Incident Viewer**	Display where incidents occurred within a public transit system, pull in data sets from city, county, other municipalities. Allow for richer analysis and understanding of incident locations, times, and responding agencies
	Crime Reporter	Public faciing application to be able to report on crimes that occur within a public transit system
	Crime Analysis	Perform spatial analysis to better understand llocations of crimes and assess potential patterns within a public transit system
	Damage Assessment	Assess damage that was done to public transit property or assets, conduct investigative workflow and report back on status
	Police Officer Tracking	Show the location of officers and allow dispatchers to assign officers to specific incidents
Marketing and Communications	**Nearest Stop**	Application shows stop nearest to current or selected location
	Demographic Analysis	Ability to click points along the service area to see demographic information
	Community Engagement/Public Feedback	Communicate system changes in a simple format, gather community input on proposed system changes and additions. Establish two-way communication to get input from the public on proposed changes and allow the public to sign up for initiatives they value. Through the use of smart form surveys, gather community feedback on proposed system changes and projects.