

Magnify Analytic Solutions delivers a self-serve, 360-degree customer view to Fortune 100 clients like Chrysler, DuPont and Ford. Magnify has built broad expertise processing large datasets for customers to support things like business-to-consumer (B2C) online marketing contests and product giveaways. Magnify recently managed an automotive client's customer relationship management (CRM) system and evolved it into a centralized data hub delivering a 360-degree view of customers, encompassing broad data types from different sources, including vehicle information from local motor vehicle departments, dealer distribution statistics, and parts data from services organizations. Magnify now offers clients a web-based solution through which they interact directly with Hadoop.

Source: http://www.cloudera.com/content/dam/cloudera/Resources/PDF/whitepaper/WP_Business-Value-EDH.pdf

(BI) tools or simple search. Analyzing these richer omni-channel profiles enables the team to optimize each engagement. Benefits include investing in the right dialogue with individual citizens, providing the right service at the right time, and lowering the total cost of engagement and support.

Proactive and Predictive Maintenance

A large portion of any transit budget is allocated to the ongoing maintenance of everything from vehicles to roads, and it's critical for government agencies to optimize resources to ensure that citizens can have access to the most convenient and cost-effective transportation solutions. Whether the agency has responsibility for local or national transportation, there is no doubt that employing the use of big data will provide a better understanding of where maintenance is needed and how to effectively manage the process to increase uptime and lower costs. Sensors can provide some of the most useful insights to governments, and being able to ingest and analyze that data allows for targeted action. When using big data, equipment sensors can be analyzed in real time, bringing much needed intelligence to government organizations. For example, this information can be used to anticipate faults at the individual component levels, such as brakes or at a stretch of tracks, or wear and tear on highways. Agencies can then schedule maintenance precisely at the right time. Such measures taken too early can be unnecessary and expensive whereas, if they are done too late, they can be costly and disruptive to citizen services.

Build Public Trust

Providing a safe and expedient transit system through the use of data, and one that can evolve as the needs of citizens change, presents government agencies with an opportunity to build public trust. This desire to enhance the lives of citizens has government officials focused on determining the best course of action during man-made and natural disasters, as well as planning for expected transit challenges like major events and seasonal changes in population. All of these decisions impact the daily lives of constituents, and public sector leaders are increasingly aware of how the results of their actions can either build or erode public trust. Allowing citizens to participate in a dialogue with government through multiple channels of communication can greatly enhance decision-making and provide a more complete picture of transportation needs. Furthermore, opening additional channels of communication, and seeking to understand and act on the data they provide, can help transform public transit organizations and enhance support from the citizen base.

Summary

Across the public sector, leaders within transportation agencies and transit authorities seek to identify the needs of the population they serve and determine how to best deliver those solutions both safely and cost-effectively. This is a very difficult task, as gaining that insight requires bringing together a variety of data sets that reflect the unique and changing needs of a region. While analytics teams are a great start, it's important that data and analytics embed themselves within every organizational decision. With more and more digital interactions being captured by a variety of applications, it is critical to make sure that government organizations have the ability to take advantage of this information. From building smart cities that enhance citizen experiences to addressing the need for inclement weather or natural disaster road conditions, Cloudera has your data and analytics needs covered.

About Cloudera

Cloudera delivers the modern platform for data management and analytics. The world's leading organizations trust Cloudera to help solve their most challenging business problems with Cloudera Enterprise, the fastest, easiest, and most secure data platform built on Apache Hadoop.

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