A Smart-State Enabled Police Force Provides Better Protection

Smart states are those that embrace data, advanced technologies, and the Internet of Things (IoT) to share information and communications across transportation systems, utilities, apps, and other networks. This connectivity delivers myriad benefits, including operational efficiencies, enhanced services, and more informed drivers.

Data is the foundation of a smart state. It's what ultimately makes possible increased safety, a robust user experience, improved efficiency, and the other unique attributes of a smart, connected state.

Data-Driven Policing Activities

Teradata recently worked with the national police force in a South American country that needed help monitoring tens of thousands of kilometers of federal highways. A police force program had been created that was responsible for protecting the border and ensuring traffic flows smoothly and safely. However, identifying areas of congestion and possible illegal activities was becoming increasingly difficult due to an inability to gain deep insights from disparate data sources.

The country needed a solution that could integrate data from multiple sources, then make it available for analysis. As part of a smart state approach to connect data, technologies, and users from across the country, the solution also needed to offer scalability and high performance to handle growing data volumes. The country's police force realized the best approach was to implement an active data warehouse.

Data from arrest orders, stolen vehicles, and other sources is now brought together in a single location. This gives law enforcement officials deeper, richer insights to more easily and quickly spot people, organizations, or vehicles involved in crimes. The data warehouse is the foundation of an analytic ecosystem that delivers other far-reaching benefits:

- Allowing complex event processing to uncover relationships that were difficult or impossible to see previously.

- Improving the monitoring and patrolling of federal highways, which enhances traffic safety and border protection.

- Equipping officers with intelligent data on the danger level of policing activities.

- Increasing productivity and efficiency for drug traffic control, vehicle traffic patterns, and vehicle identification.

Big Money Invested in Smart Cities

The smart city market is expected to reach $774.8 billion by 2021, according to BCC Research. That's more than twice the $342.4 billion invested in 2016. However, researchers say the smart city sensor systems, predictive analytics tools, and energy efficient buildings now being purchased are years away from becoming ubiquitous technologies.

Smart Data Management is the Key to the Smart State

A sound infrastructure is the essential building block for any smart state initiative. The infrastructure must be skillfully engineered to integrate and manage a wide variety and large volumes of traditional and non-traditional data. This usually requires an integrated data warehouse, a data lake, and an analytics platform.

A smart data management system uses the infrastructure to take data from agency silos, bring it together with data from a wide variety of other sources, then make the information accessible for advanced analytics.

The analytic insights trigger actions, either through automation or by informing workers who can take appropriate action.

A practical approach to smart data management addresses current problems, but it must also be flexible enough to overcome emerging challenges. For example, the system can start with a focus on improving transportation, but accommodate other aspects of the smart state in the future, such as enhancing energy and water efficiency or reducing greenhouse gas emissions through clean and renewable energy initiatives.

Smart data management can integrate mobility, energy grid, public safety, and government agency data to provide real-time information to federal systems, officials, and citizens across the country.

Smart State Solutions

Teradata empowers companies to achieve high-impact business outcomes. Our focus on business solutions for analytics, coupled with our industry leading technology and architecture expertise, can unleash the potential of great companies.

We help companies evolve from standalone or narrowly-focused smart state projects to highly integrated, business-driven operations. Using a smart data management strategy as a focal point, we drive projects to success through data acquisition and a proven strategy that optimizes analytics. With our experience in IoT and related applications, deep industry knowledge, and broad expertise with complex analytics at scale, we enable companies to derive sustainable value from their smart state investments. **For more information, visit Teradata.com.**

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