

Smart State Approach Connects Departments and People Across Rajasthan

GOVERNMENT



The state of Rajasthan in northwest India had a problem that's common with other governments and businesses. Department-level silos were managing data for department-centric IT applications.

Data needed to be integrated and shared across all departments to facilitate state-level decision making. This required a data and analytic solution capable of bringing together large volumes of structured and unstructured data, then performing advanced analytics to answer queries and deliver insights.

Like a smart state approach that connects departments, technologies, and citizens, the government of Rajasthan turned to a solution that brought together state-wide data for users from all departments to access.

Creating a 'Big Data Environment'

Rajasthan government officials implemented a 'Big Data Environment' project that includes an integrated data platform. A single source for all state data, the platform allows analytics for all departments. This first-of-its-kind solution for the Indian government future-proofs the state's IT architecture by handling both current and emerging needs.

The data environment provides a 360-degree view of citizens to improve the user experience of government services hosted on a website. It also offers actionable intelligence to departments to improve services. The project helped create a backbone for analytics in Rajasthan, leading to benefits in these high-impact areas:

- Determining eligibility of beneficiaries by using advanced analytics to identify welfare schemes.
- Unifying citizen data for a single view for all departments.
- Tracking beneficiaries to identify and eliminate duplicates and "ghost" beneficiaries.

- Enhancing citizen engagement to allow people to interact with departments in their preferred language and preferred mode.
- Detecting fraud by establishing a citizen's financial status using tax filing data.
- Using sentiment analytics to determine the root cause of grievances.

With the data environment, the state of Rajasthan is also able to increase department efficiencies, gauge sentiments of people interacting with the government, and discover patterns in data.

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 analytic platform.

Platform for Agile Analytics

The Rajasthan government implemented the "Big Data Environment" project to have an analytic platform capable of:

- Storing a variety of data and batch-processing in one reliable, scalable, flexible, and cost-effective data repository.
- Enabling all types of analytical capabilities to gain insights from the data.
- Facilitating informed decision making by allowing several types of complex queries.

TERADATA



A smart data management system uses the infrastructure to take data from department 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 state 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 government services to citizens, 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.

A smart data management strategy can integrate mobility, energy grid, public safety, and government agency data to provide real-time information to state systems, officials, and citizens across the state. It can also allow insights that were difficult, if not impossible, to easily achieve before.

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.

10000 Innovation Drive, Dayton, OH 45342 Teradata.com

Teradata and the Teradata logo are registered trademarks of Teradata Corporation and/or its affiliates in the U.S. and worldwide. Teradata continually improves products as new technologies and components become available. Teradata, therefore, reserves the right to change specifications without prior notice. All features, functions, and operations described herein may not be marketed in all parts of the world. Consult your Teradata representative or Teradata.com for more information.

Copyright © 2018 by Teradata Corporation All Rights Reserved. Produced in U.S.A.

04.18 EB10013



TERADATA.