Esri India and Asman Software Solutions join hands to enhance electoral experience

The general elections in India is a landmark event, however, the process involved is usually laced with the following challenges:
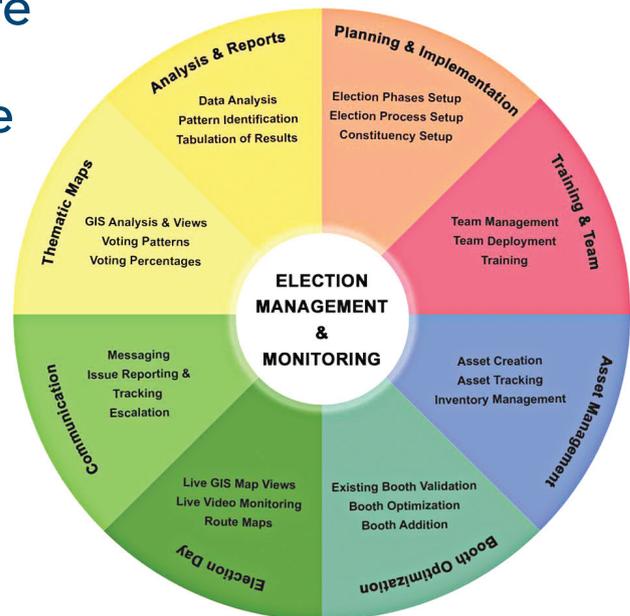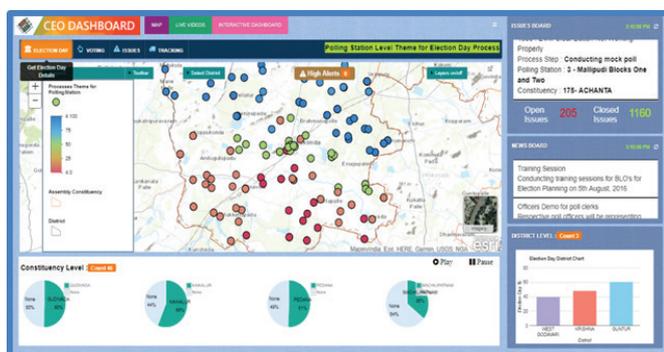
➜ Identifying the most sensitive areas from a polling perspective.
➜ Lower voter registration.
➜ Over-registration when compared to the population figures in the area.
➜ Mismatch in gender demographics when compared to the actual population ratio within the polling constituency.
➜ Identification of strategic locations for the polling stations.
➜ Inability to identify correct polling stations by registered voters and physically locating the polling premises.

The state election commission of Andhra Pradesh recognised these challenges early and realised a GIS solution can resolve the issues.

The solution

Asman Software Solutions, a leading Hyderabad-based web technologies and GIS solutions company collaborated with Esri India to develop a GIS-based Electoral Management solution. The solution, using Esri ArcGIS API for Java Script 4.x, WCF services, ArcGIS server 10.5, enables all voters and election officers to visualise relationships, patterns, and trends to deeply understand their constituency and manage electoral processes effectively.

"The main idea was to build a portal for the district collectors to use to analyse the historical data and also the polling registration." Swaroop Dunna, CEO, Asman Software Solutions Pvt Ltd.

Election Management and Monitoring

Features

➜ A GIS-based dashboard for CEO, District Officers and Mobile App for Officers, Booth Level Officers, Staff and for Voters.
➜ Routes to the polling station can be created on maps and stored for future reference.
➜ Map-based view of key elements such as district boundaries, locations of polling booths etc. is available.
➜ Functionality of the ArcGIS application leads to easy management of election logistics.
➜ Webcasting feature with live video enables polling officers to monitor the voting process and identify discrepancies more efficiently.

Benefits

➜ A comprehensive GIS based analytics & reporting solution used at every stage of the election process.
➜ Instant access to polling logistics information to voters through mobile app.
➜ Registered voters can claim their voter records and correct discrepancies directly.
➜ Multiple language support allows ease of communication for voters from remote villages.
➜ Better coordination among booth level officers through the virtual space and data sharing.
➜ Reduced cost of managing the election logistics.
➜ Easy deployment of polling personnel to manage the election process efficiently.
➜ Easy creation of travel plans for observers as they can connect the polling booths they have to visit on the maps and create a route. ♠