



Cross Platform Data Analytics

XSMART is a scalable and open standard based platform designed to store, integrate and manage data for secure data exchange, analytics and visualization. The platform incorporates data security and privacy features and handles both static and real-time data from the public and commercial sector. It allows translation and integration of data into actionable insights through machine learning and data analytics, so that citizens, businesses and public agencies can make informed decisions.

The XSMART Data Analytics Exchange ("**XSMART**") Platform is designed to facilitate the secure management, analytics and exchange of data; it is a scalable data exchange platform built upon standards and architecture to bring better situational awareness through data collection, efficient sharing and making sense of collected data.

XSMART has been successfully deployed at the multi-agency test bed, with integration to a shared sensor network of close to 1,000 IoT sensors and video analytics of more than 25 optical sensors. XSMART is also a highly secure and capable the data platform, it serves as a centralized platform for data aggregation and analytics exchange, with capabilities to integrate, manage and analyze information that provide a coherent big-picture view of the data and derived insights. This is a value-added solution that includes cutting-edge Big Data Analytics technology that has been developed and proven.



Visualisation of transportation trajectory in peak hours

Technology Features

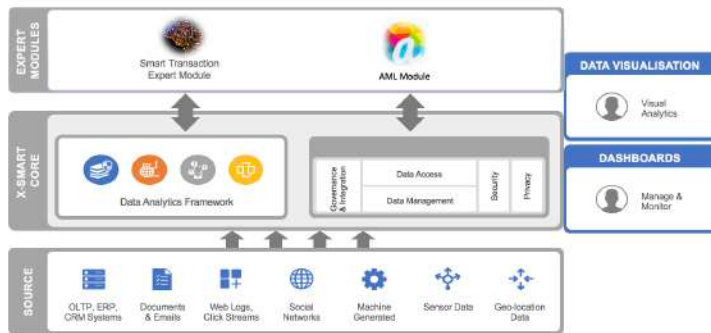
- Marketplace Portal: One Stop Secure portal for discovery and exploration of data product
- Data ETL: Highly configuration data flow management with data province and visual control
- Fusion Analytics Framework: Supports development of modular and portable Data Analytics Toolkits
- Exploratory Analytics Tool: Repository of chart templates to visually analyze and explore data
- Interactive Visualization SDK: 2D, 3D chart and mapping libraries for impactful data for analysis
- Data Reservoir: Big data infrastructure to store and manage heterogeneous data analysis
- API Management: Complete solution for management and monitoring of data products published as secure web services.

Applications

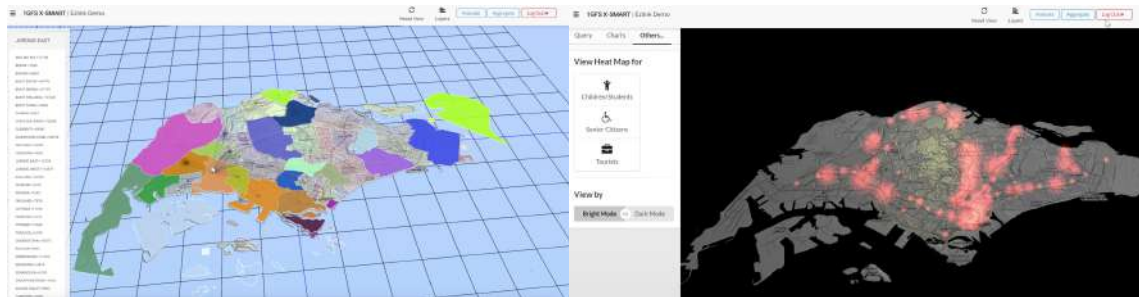
- Real-time network and traffic monitoring
- Stream, event-based location-aware computing
- Demand prediction
- Event detection and source tracking
- GIS modeling, simulation and visualization
- Precision medicine analytics

Benefits

- The key value propositions of X-SMART are geared towards helping public agencies, private businesses and people make informed decisions and respond intelligently to dynamic urban conditions based on real-time sensing and data analytics:
- One-stop unified data platform designed
- Open and standards-based architecture
- Flexible components substitution
- Secure data sharing and exchange



Systems Architecture- Highly Scalable, Flexible and Modular in Design.



Example: Visualization of Resources Supply and Demand Predication.



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