Intelligent Urban Exchange Solution
Digital Software and Solutions
As the world’s urban population continues to grow at an unprecedented rate, the need for intelligent, sustainable cities has never been greater. City leaders are challenged to address urbanization and deliver superior services to citizens while managing limited resources. They must leverage data from multiple sources and build ecosystems made up of citizens, urban planners, civic developers, and merchants to co-create services that promote innovation, sustainable living, and economic development.

TCS’ Intelligent Urban Exchange Solution (IUX)—an integrated, cloud-based solution—helps partners and city leaders launch smart city initiatives quickly and cost effectively with an Urban Intelligence Platform, Urban Planning Applications, and a rich set of APIs for application development that leverage its real-time analytics capabilities. IUX enables cities to realize the full potential of their smart city initiatives, helping create an environment where citizens, businesses, and governments all thrive.

Overview

IUX collects and analyzes historical and real-time data from disparate internal and external sources (networks, actuators, sensors, devices, wireless access points, and social media) to provide rich insights and next step recommendations. The robust IUX platform integrates urban domains—water, energy, transportation, and governance—sectors, providing unified and shared intelligence to administrators, citizens, local businesses and civic developers. This powerful, cross domain intelligence helps cities identify correlations and integrate city initiatives across multiple sectors.

IUX is the ideal platform for city partners, providing the ability to connect a wide range of devices, sensors and APIs, and applications. IUX’s modular, scalable architecture offers multiple deployment options and ultimate flexibility. Leveraging developer APIs and platform services, partners can deploy IUX in any of the following manners:

- **Out of Box Deployments** - Standard IUX Platform with bundled Urban Planning Applications i.e. water, transportation, energy, governance for faster time to market
- **Integrated Deployments** - IUX Platform and Urban Planning Applications in conjunction with other platforms and IT systems from partners or partner ecosystems through IUX’s data services for acceleration of more robust smart city solutions
- **Custom Applications** - IUX Platform with custom applications built by partners, leveraging IUX’s platform data model and services to address specific city challenges

Benefits

TCS Digital Video Services offer the following benefits to communication, media, and entertainment companies:

- **Accelerate rollout of smart city programs**: Speed up the launch of smart city initiatives by offering an Urban Intelligence Platform, Urban Planning Applications, and a rich set of APIs for application development using IUX’s real time analytics capabilities. Leverage pre-built city solutions for transportation, energy, water and governance to rapidly create smart city programs, citizen services, and support the creation of innovative digital apps.

- **Reduce city operations’ costs and improve utilization of urban services**: Harness IUX’s cloud based architecture to improve the utilization of city services to reduce infrastructure and maintenance costs.
**The TCS Advantage**

TCS’ Intelligent Urban Exchange offering enables city administrations to realize the full potential of their smart city and e-governance initiatives by helping them achieve greater levels of social, economic, and environmental sustainability. By partnering with TCS, you can leverage our:

- **Domain expertise**: We have proven expertise in designing and implementing large scale egovernance and citizen engagement programs for all tiers of public sector organizations—federal, state, and local—in multiple countries. We combine this with our extensive experience in the government sector to understand and leverage best practices, as well as current and next-generation technologies.

- **Scalable, open-source platform**: IUX is an integrated cloud-based platform that provides city data and the associated intelligence as a utility to all stakeholders—thus simplifying smart city initiatives. Our flexible solution architecture allows you to buy only the software modules you need at any point of time. The platform can be implemented quickly, and is easy to manage and change. It is also scalable, in terms of supporting the ever-growing ecosystem of smart city apps.

- **Deep analytics expertise**: Our experienced team of data scientists and analytics specialists has in-depth expertise in helping clients generate real-time intelligence from large data and device networks. By drawing on this expertise, clients can harness data to make relevant and timely decisions.

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- **Promote economic growth and local innovation**: Boost tax revenues by promoting expansion in city commerce. Enable local entrepreneurs, and small and medium size businesses to leverage real-time data and analytics for business growth. Identify new avenues to monetize local data and explore revenue sharing business models.

- **Provide more reliable and useful citizen services**: Deliver improved services in a cost effective and timely manner. For example, enhance commuters’ transportation experience by better managing the city’s fleet resources. Allow citizens to use city services and infrastructure in a more personal context and encourage the adoption of public services and green mobility.
Awards & Recognition

To know more
Visit the Digital Software and Solutions page on tcs.com
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About Tata Consultancy Services Ltd (TCS)
Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India’s largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

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