

TCS Intelligent Urban Exchange™

AI-driven Analytics for Sustainable, Resilient & Proactive Operations

ABOUT TATA CONSULTANCY SERVICES:



Tata Consultancy Services is an IT services, consulting and business solutions organization that has been partnering with many of the world's largest businesses in their transformation journeys for over 50 years. TCS offers a consulting-led, cognitive powered, integrated portfolio of business, technology and engineering services and solutions. This is delivered through its unique Location Independent Agile™ delivery model, recognized as a benchmark of excellence in software development.. A part of the Tata group, India's largest multinational business group, TCS has over 500,000 of the world's best-trained consultants in 46 countries

WHAT WE OFFER



TCS' Intelligent Urban Exchange™ (IUX) is a public services and industry-based analytics software solution that leverages AI and machine learning to turn IoT, cross-enterprise and real-time data into actions which increase operational efficiency, resilience and sustainability.

IUX accesses and analyzes data locked in department, transaction and operations repositories enabling unique, data-driven insights from strategic on-location sources, and provides immediate, actionable insights, predictions, and recommendations.



IUX provides pre-built, industry-specific use cases including Command & Control Center, Intelligent Transportation, Intelligent Energy, Intelligent Water, and Enterprise Resilience. Key IUX features:

- Pre-built use cases for crucial enterprise and city functions including:
 - Emission & Carbon analytics
 - Pipeline integrity
 - Green Mobility
 - Operational resilience & sustainability
 - Energy optimization
 - Command Center (event analytics)
- Industry specific AI models and analytics
- Optimized responses and recommendations to events and incidents
- Contextual decision intelligence across the business value chain

IUX benefits include:



- Unique city-wide and enterprise-wide views of events
- Faster time to value through prebuilt use cases with a low TCO
- Simplified operational resilience through cross-domain intelligence
- Net zero carbon journey



IUX leverages Azure as an Infrastructure. The deployment uses Azure VMs , BLOB storage , load balancer and Azure services database. The implementation uses best practices for ensuring:

- Scalability (number of concurrent transactions/minute)
- Security(multi factor authentication, browser cache management, session management)
- Reliability (RTO, high availability).

LEARN MORE

www.tcs.com/smart-city-solutions

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Microsoft Azure

Microsoft Azure is an ever-expanding set of cloud computing services to help your organization meet its business challenges. With Azure, your business or organization has the freedom to build, manage, and deploy applications on a massive, global network using your preferred tools and frameworks.



WHY AZURE



BE FUTURE-READY

Continuous innovation from Microsoft supports your development today, and your product visions for tomorrow. With 1000+ new capabilities in the past year, you can build on the latest advancements in AI, blockchain, Kubernetes, containers, and databases to keep you ahead of the curve.

Our enterprise grade analytics solution outperforms the competition, costs less, and is fully compatible with your existing development, BI, and data science tools.



BUILD ON YOUR TERMS

You have choices. With a commitment to open source and support for all languages and frameworks, build and deploy how you want to. Take advantage of the full-featured, integrated development environments with built-in support Visual Studio and Visual Studio Code, the most popular IDEs trusted by 15M+ developers.

We embrace open source, drive innovation through collaboration, and contribute back to the community.



OPERATE HYBRID SEAMLESSLY

On-premises, in the cloud, and at the edge—we'll meet you where you are. Integrate and manage your environments with tools and services designed for hybrid cloud.

Enhance security, simplify access, and set smart policies across your different environments with a single identity platform trusted by 90% of enterprises globally.



TRUST YOUR CLOUD

Get security from the ground up, backed by a team of experts, and proactive compliance trusted by enterprises, governments, and startups.

With a \$1B+ investment in security R&D and 3,500 cyber security experts, security is foundational for Azure.

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