

TCS IoT – Microsoft Azure : Driving Enterprise Transformation

TCS IoT enables enterprises in capturing the physical context and combining it with the rest of the digital systems in a boundary-less manner to unlock exponential business value. We have partnered with Microsoft to help enterprises develop systems that are connected in context, predictive and increasingly self-aware.

TCS IoT business framework, called [Bringing Life to Things](#) supports enterprise IoT journey starting from identifying the roadmap and connecting products and services to autonomous systems and Digital Twin. Bringing Life to Things™, leverages the Azure platform to enable enterprises to realize new business models, optimized & responsive value-chains, which deliver an enhanced quality of life, and a seamless customer experience.

TCS IoT focuses on finding right solutions for customers business problems through a Value Discovery Approach thereby, enabling their business success across services along with operational excellence and improved customer experiences. This unique consulting- led approach brings together appropriate stakeholders from different functional groups of customer organizations to create their customized digital enterprise vision, advanced business strategy and roadmaps. Our frameworks guide this value driven approach to identify use cases to enable exponential value creation for customers. This is enabled by our tools and solutions tuned for each phase of execution of the customers transformation journey.

Our business solutions range from connecting products in both B2B and B2C segments, to using advanced technologies like industry 4.0, digital twin etc. The expertise in these and experience across industries enables us to build and drive an exponential path for our customers with value driven implementation. TCS IoT jointly with Microsoft Azure, has multiple solutions which are Cosell ready and will be published in the Microsoft Partner Center Marketplace:

TCS IP2: TCS IP2, powered with Azure IoT, is the first solution that combines AI, ML, IoT and Digital Twin technologies to operate and maintain thermal power plants, enhancing plant reliability, improving flexibility and cutting emissions while keeping operating costs low. The intelligent, scalable, modular digital solution deploys AI and ML-based Digital Twins as “Intelligent Operators” that provide real-time insights and actions for critical assets such as boilers, turbines, generators and auxiliary systems in partial and full-load operating conditions. The solution can analyze 1000s of parameters to optimally guide operation and maintenance of power plants.

TCS Clever Energy: Award winning TCS Clever Energy™ solution managing more than 75+ Million Sq. ft globally is powered by IoT and cognitive intelligence facilitating organizations to optimize energy and reduce GHG (Green House Gases) emission and meet their financial and sustainability goals. In-built analytical models & Energy Digital Twin Setup enables organization to integrate disparate systems to take faster decision to become energy efficient and drive net zero emissions.

TCS Digital Manufacturing: TCS Digital Manufacturing solution helps you optimize production and reduce unit costs by bringing together manufacturing performance management, asset and energy

management, and supply chain analysis. Our modular data-centric solution uses a value-based approach that allows you to start with one use case and scale up to end-to-end optimization.

Logistics Optimizer: TCS Logistics Optimizer helps you optimize your shipping and logistics to increase utilization, optimize routes, and improve delivery service to customers by up to 17%. Our AI model looks at orders, shipments, packages, trucks, drivers, and road data and provides real-time optimization recommendations and simulation support to achieve the target outcomes.

TCS DigiFleet™ : is a suite of solutions focused on providing real-time actionable insights for assets on the move, and helping organization reimagine supply chains. Powered by an IoT and AI-ML engine, the suite provides contextual and situational insights on fleet and supply chain operations by analyzing real-time data from the heterogeneous ecosystem. The suite offers modular, industry-specific features on software as a service model to accelerate digitalization of fleet and supply chains through two pre-built modules:

These joint solutions are focused on driving business transformation and operations transformation for customers across industries like manufacturing, CPG, retail, energy, utilities, transportation, logistics, healthcare, hi-tech and telecom.