IoT-led Compressor Health Monitoring
Client
The client is a leading midstream company with over 50,000 miles of pipeline and more than 1,400 compression assets across more than 450 stations.

Business Challenges

- **Human Capital Productivity:** The client needed manual presence and intervention at compression sites to assess and manage continuous operations which led to inefficient usage of expert resources.

- **Efficient Maintenance:** A lack of analytics propagated preventive rather than predictive maintenance practices leading to non-essential maintenance downtime and lost productivity due to unplanned breakdowns.

- **Asset Utilization:** The inability to gather and process real-time data meant that the client could not monitor the current health of the asset and attain higher efficiency of utilization while being able to drive proactive actions to prevent shutdowns.

Solution Highlights

- **Cloud-based Data Lake:** Disparate sources of data from multiple asset monitoring stations were collated and moved to an Azure-based data lake to serve as a centralized repository with advanced analytics capabilities.

- **Asset Analytics:** LTI deployed advanced modelling and statistical analysis capabilities using its proprietary Mosaic platform to create predictive models for breakdown prevention.

- **Experience Transformation:** Empathy-led design interventions created user-friendly, cloud-based visualizations of real-time asset health and performance to speed up decision making for business users.

Business Benefits

- **15%** Improved reliability for compression assets due to predictive and proactive maintenance practices.

- **75%** Reduction in miles driven for maintenance.

- **20%** Improvement in utilization of compression stations.

LTI (NSE: LTI, BSE: 540005) is a global technology consulting and digital solutions Company helping more than 420 clients succeed in a converging world. With operations in 32 countries, we go the extra mile for our clients and accelerate their digital transformation with LTI's Mosaic platform enabling their mobile, social, analytics, IoT and cloud journeys. Founded in 1997 as a subsidiary of Larsen & Toubro Limited, our unique heritage gives us unrivalled real-world expertise to solve the most complex challenges of enterprises across all industries. Each day, our team of more than 30,000 LTites enable our clients to improve the effectiveness of their business and technology operations, and deliver value to their customers, employees and shareholders. Find more at www.Lntinfotech.com or follow us at @LTI_Global.