

Tesco's system infrastructure is the backbone of the businesses retail operations as it provides stability in its supply chain management, data analysis and customer engagement tools. As their data grows, Tesco must make sure their information systems are to comply with ethical laws, agile and must allow room for growth to maintain their position at the top of the market.

Tesco has recently with the help of Roambee, implemented advanced ai driven technologies into their supply chain, greatly transforming their retail operations. This provided tesco with over 23,000 unique container journeys and with more than 6.21m miles throughout all rail and road logistics networks. Thanks to this partnership, Tesco also has real-time access about the whereabouts of their containers at all times allowing supply chain leaders to confirm deliveries and resolve any issues.

Tesco previously signed with Microsoft aiming to improve the retails global productivity and spark international growth while impacting decision-making, knowledge sharing and operational performance. The retail business planned to expand into a new global collaboration platform as its plan to grow internationally, and expand its retail services.

Despite Tesco's collaborations and advancements in digital transformation mainly through partnerships, the complexity of its implemented systems and over reliance on its associates highlight some of the weaknesses within its technological infrastructure.

Tesco ai-technology developments with Roambee providing 23,000 unique container journeys and 6.21 miles must be processed and any misalignments between the technologies can result in inaccurate insights and major operational inefficiencies. In addition to this, using real time IoT data with predictive analytics can hinder system performance and lower the quality of cybersecurity.

The partnership between Tesco, Roambee and Microsoft is a clear benefit and exhibits dedication to digital innovation however it creates clear weaknesses through dependency. By relying on external systems, Tesco is rendered useless in the event of an external crisis within its partners. Any issues within cybersecurity can greatly impact the data Tesco handles.

<https://www.computing.co.uk/analysis/2404864/how-tesco-took-an-agile-approach-to-rebuilding-its-data-warehouse>

<https://fooddigital.com/retail/tesco-enhanced-supply-chain-visibility-using-ai>

<https://www.computerweekly.com/news/2240105230/Tesco-signs-eight-year-deal-to-use-Microsoft-products-and-services>

