

From Subjective Behavioral Care to Proactive Data-Led Treatment

AMBITION

Care for neurodivergent individuals was primarily reactive due to a lack of objective, real-time data for identifying triggers or assessing therapy effectiveness. Traditional methods lacked standardization across diverse therapeutic approaches and varied provider requirements. The organization required a transition from subjective analysis to a data-led framework capable of supporting standardized, proactive care protocols.

ACTION

Wipro Engineering – Connected Services implemented a digital therapeutics platform to aggregate longitudinal patient data from sensors, wearables, and biomarkers. The technical team engineered a cloud-backed architecture to analyze physiological indicators, including heart rate and respiratory patterns, in real time. Developers deployed virtual reality modules to provide controlled, gamified environments for life-skills training and behavioral assessment. The system utilized a remote care platform to securely consolidate data and automated over-the-air updates to maintain device performance and HIPAA compliance across distributed environments.

AMBITIONS REALIZED

The implementation established a standardized, evidence-based care environment that utilizes real-time physiological insights.

The Business Impact:

- **Standardized care delivery** using objective metrics to replace subjective assessment.
- **Real-time trigger management** through biomarker analysis to improve episode management.
- **Enhanced quality of life** enabled by home-based therapy administration on handheld devices.
- **HIPAA-compliant infrastructure** ensuring data privacy and security for remote monitoring.
- **Democratized care access** through a scalable telehealth and remote monitoring framework.

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