When the future is known

How TUBR makes sparse time-series predictions to transform transport management operations and improve passenger experience

At a glance

For centuries we've monetized our transport systems with ticket sales. The more people that travel on the system at the same time, the more money the operator claims. The model wasn't sustainable but since the global Covid pandemic we've seen our already tight budget transportation systems cracking from a failing monetization strategy.



~30% of people avoid public transportation

because of feelings of anxiety

~40% of journeys were completed this y



completed this year compared to prepandemic

~60% of loss revenues were reported by train operators for 2021



TIME-BASED PREDICTIONS WITH LESS DATA

Sparse data machine learning

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CHALLENGES

- Transport operators are now looking for new ways to monetize and maximize profits.
- The pandemic has changed the patterns and behaviors of riders making the needs to proactively manage trains & staff difficult.

KEY TRENDS



Transport operators are looking for ways to optimize their operations and save money on service management costs.

Manage to save

Time-based predictions at station, train and carriage level can assist transport operators in better staff and train allotment management driving significant savings.



Rider's experience is a top discussion as more people aim to avoid the very crowded rush hour trains and train operators are looking for ways to proactively manage people movement and needs.



If every minute of travel is valuable and optimizing time allows the rider to enjoy their experience than the operator can drive rider loyalty, revenue and save costs.

RESULTS

TUBR ML uses physics methodology to understand the spatial movement of the entire system. The algorithm runs frequently and is triggered by impact factors, like weather, delays, holidays, which change the behaviors of people within the system.

