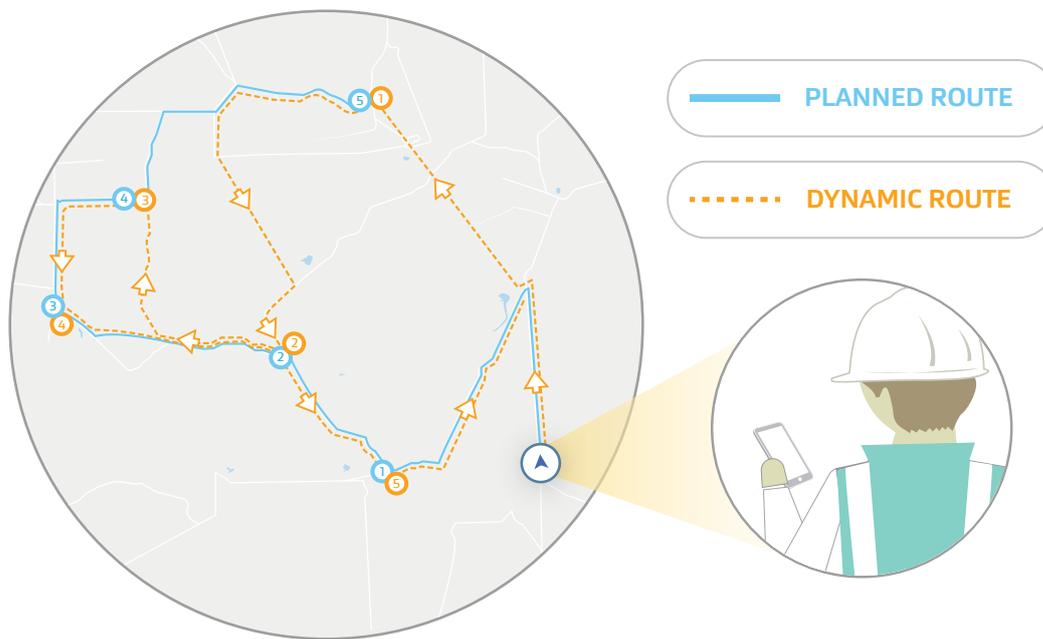


Route Optimization

Dynamic Routing Saves One Hour Every Day for Every Operator in a Permian Oilfield

Fixed, Manual Routing

Lease operators routinely began each shift with a stop at the office where they would collect the day's routes. These routes would be organized based on assumptions about well conditions, or simply by calculating the time elapsed since the most recent well visit. While the daily office stop seems like a necessary step in the routine, in fact it delayed every worker's first well visit – often by an hour or more per day. And, their routes which were prepared for them were fixed – not dynamic – and based on assumptions that often wouldn't reflect the day to day realities of the oilfield. With four hours of a typical lease operator's day spent behind the windshield, valuable productivity was being lost by every operator, every day.



An Hour Saved in Drive Time for Every Operator, Every Day

With JOYN, everything gets better. Operators have their daily routes automatically pushed to them via the JOYN app. Instead of the daily office stop, they accessed their entire route for the day on their mobile devices, making their first trip of the day a well visit – not an office stop. Furthermore, JOYN prioritizes their routes based on the greatest needs and the potential impact of each stop on oil or gas production, allowing high priority assets to be addressed sooner. The dynamic routing algorithms in JOYN identify high priority events based on risk scores by asset, and the well location relative to the worker's skillset and GPS location. Lease operators access the updated stop sequence on JOYN on the go, reducing drive time by over 25%, giving lease operators over an hour back, every day.

Route Optimization

Live Tracking Provides Visibility for Prompt Action

Also, with JOYN, field supervisors can track every lease operator on a satellite map which details their immediate locations and their assigned sequence of stops via GPS-enabled live tracking. Supervisors can track actual time spent at each stop, or any deviation in planned routes to flag exceptions and take required action. JOYN turns oilfield data into a measurable, trackable flow, enabling maximum productivity for every oilfield worker who drives a daily route.