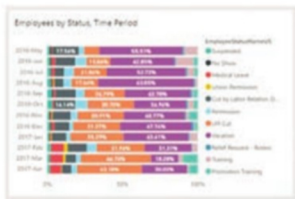
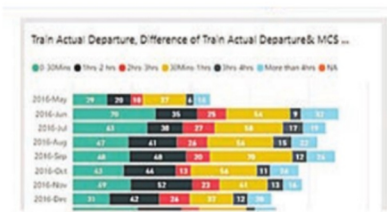


## THE PROBLEM:

Regardless of size, both Class I, short line, and regional railroads possess large amounts of data, including crew-related data. While they've had this data for a long time, it's often high maintenance and isn't actionable. Disparate and unengaging, one can't leverage it to conduct smart, predictive crew scheduling. Since crew scheduling is often manual, railroads can run full steam into unplanned dwell times and deadheads, which translates to a loss of time and money. Have you ever experienced a situation where you assigned a crew member to a locomotive but then found out later that the crew member was actually on leave? Without visibility into crew availability, this information isn't available at the moment, and you don't have the crew necessary to run the train.



CloudMoyo Crew Analytics- Executive view



Executive View



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# PROBLEM SOLVERS

CREW MANAGEMENT

## THE SOLUTION:

# The road to Precision Crew Scheduling (PCS) is through analytics

### WHAT'S THE SOLUTION TO THIS CHALLENGE?

#### Start with your data

Like we mentioned earlier, railroads already have crew data, so it's a natural place to start in their digitalization journey. Beyond simply managing or storing crew data, they can migrate it to the cloud, where it is accessible to employees across the enterprise. By moving from storing data to analyzing it, railroads can harness real-time data to inform intelligent rostering, optimizing crew scheduling and allocation.

#### Leverage data-driven insights

We want a railroad's data to make sense to them. With visually engaging dashboards, they can track metrics like inventory, crew boards, utilization rates, layoffs, and deadheads. With this enhanced level of visibility, they can dig deeper into performance and operational metrics and use actionable analytics to inform the scheduling process. Not only can they make better decisions about crew scheduling right now, but they can make better decisions for the future.

#### Precision Crew Scheduling through predictive analytics

Without analytics, railroads can't successfully implement Precision Scheduled Railroading (PSR) in their enterprise, and crew analytics are essential to supporting Precision Crew Scheduling (PCS), a subset of PSR.

With crew analytics, a railroad can obtain actionable insights from their data that can

inform smarter crew scheduling. They can make predictions about where they'll need crew in the future and who will be available and eligible to be scheduled. Crew analytics will factor in which crew have licenses or certifications that have expired and remove them from the pool (so that they don't schedule them) as well as notify supervisors, helping all involved to be more proactive in crew planning and scheduling.

#### Benefits of predictive analytics

By leveraging crew analytics to improve the customer journey, a railroad can offer an increased level of customer service, run their trains on time, and maximize profitability by optimizing people, equipment, and other assets.

With this increased level of efficiency from asset utilization informed by predictive analytics, railroads can reduce delays and service unavailability, and make work easier for employees across the enterprise.

#### The solution

CloudMoyo Crew Management (CCM) helps railroads collect and analyze their data to improve business operations and execute their crew scheduling and allocations more proactively. We partner with railroads in their digitalization journey, with crew scheduling being one stop on a roadmap towards modernization and increased efficiency through cloud-based solutions and predictive analytics. Visit [rail.cloudmoyo.com](http://rail.cloudmoyo.com) to learn more. ■