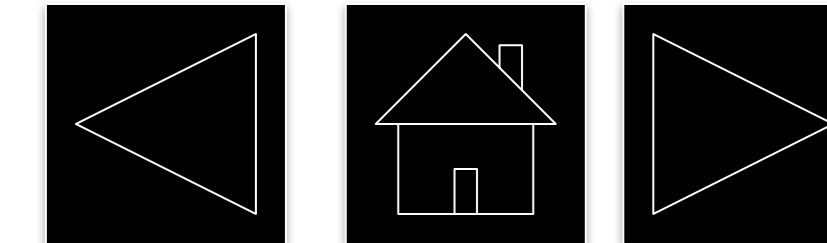
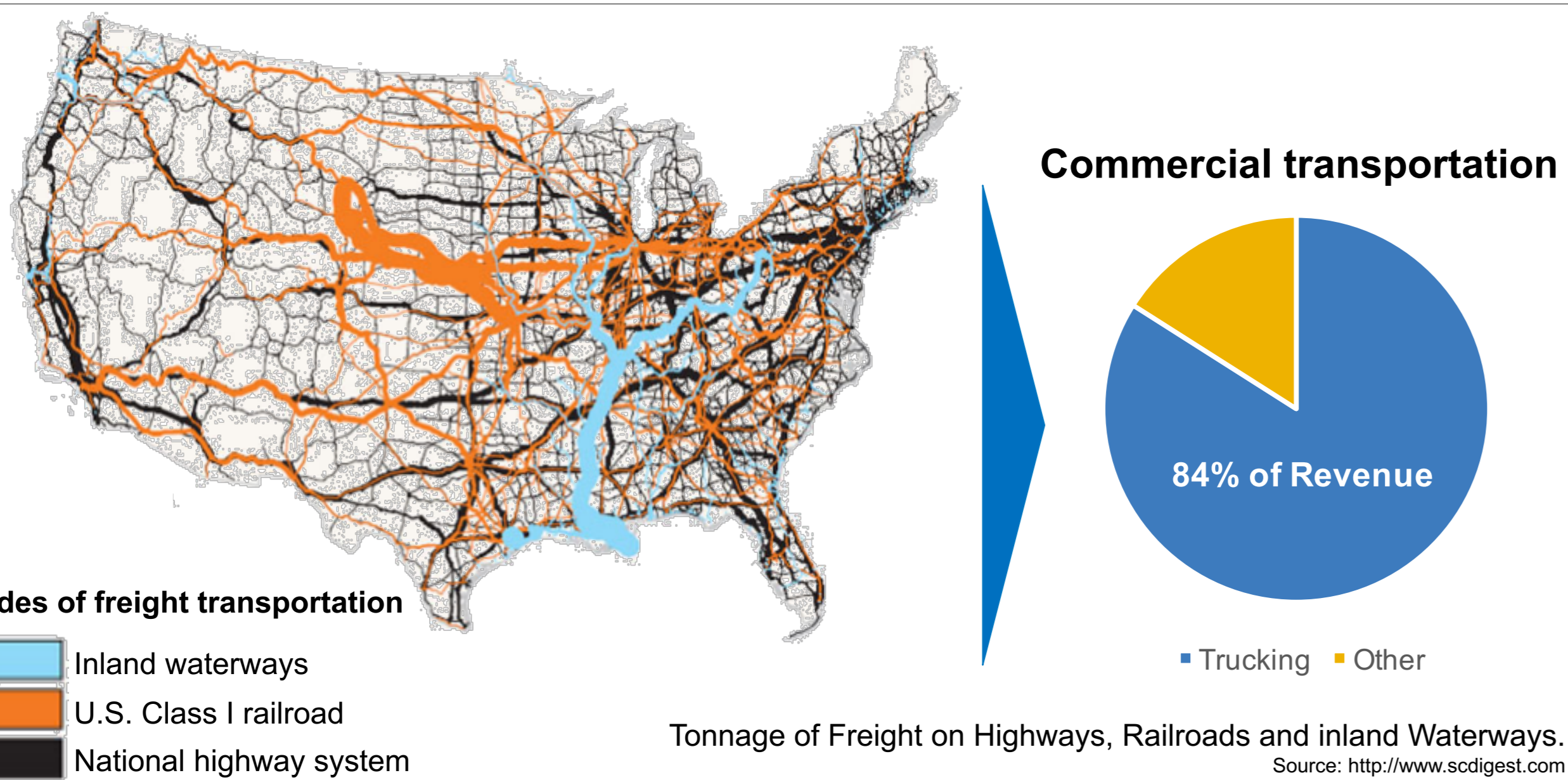


Predicting On-Time Delivery



Motivation / Background

The US trucking industry is vital for domestic transportation.



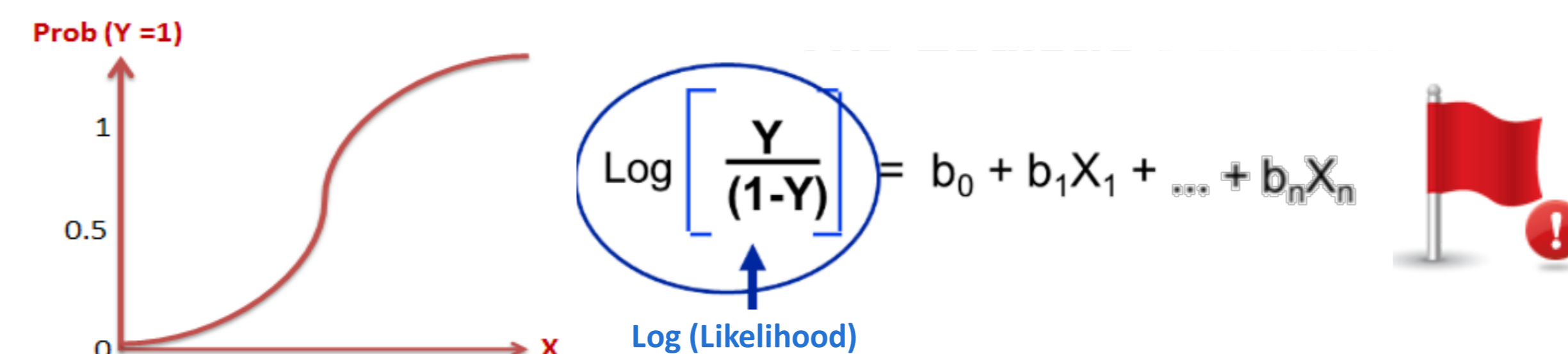
Methodology

Machine Learning



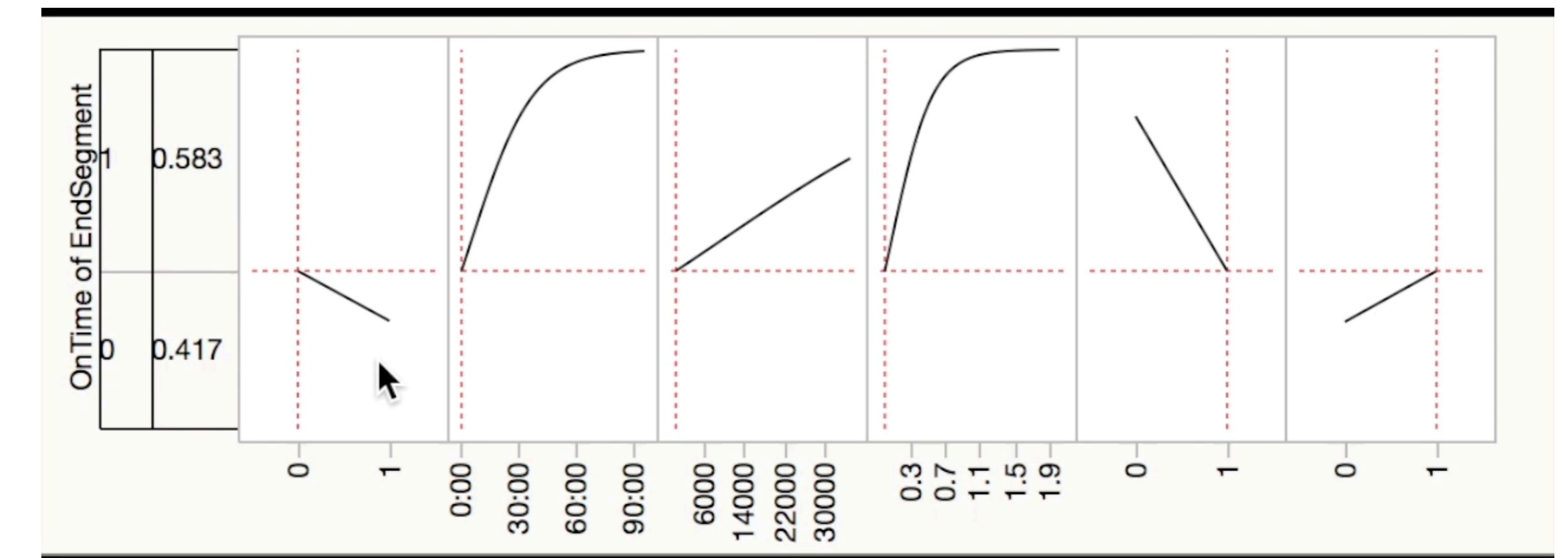
The Logistic Regression

To predict the probability of a new observation to belong to a specified class (Delayed = 0 / On time = 1)



Initial Results

From 60 to 6 explanatory variables



Prediction

	0	1
Actual 0	2.6%	2.4%
Actual 1	21.1%	73.9%

- Tracking 23.7% of the loads
- Missing only 2.4% of loads that will be late

Expected Contribution

- Accurate on-time delivery predictions can lead to more effective resources allocation.
- Identification of explanatory variable combinations will reveal loads requiring attention.

Rafael Alcoba



Ken Ohlund



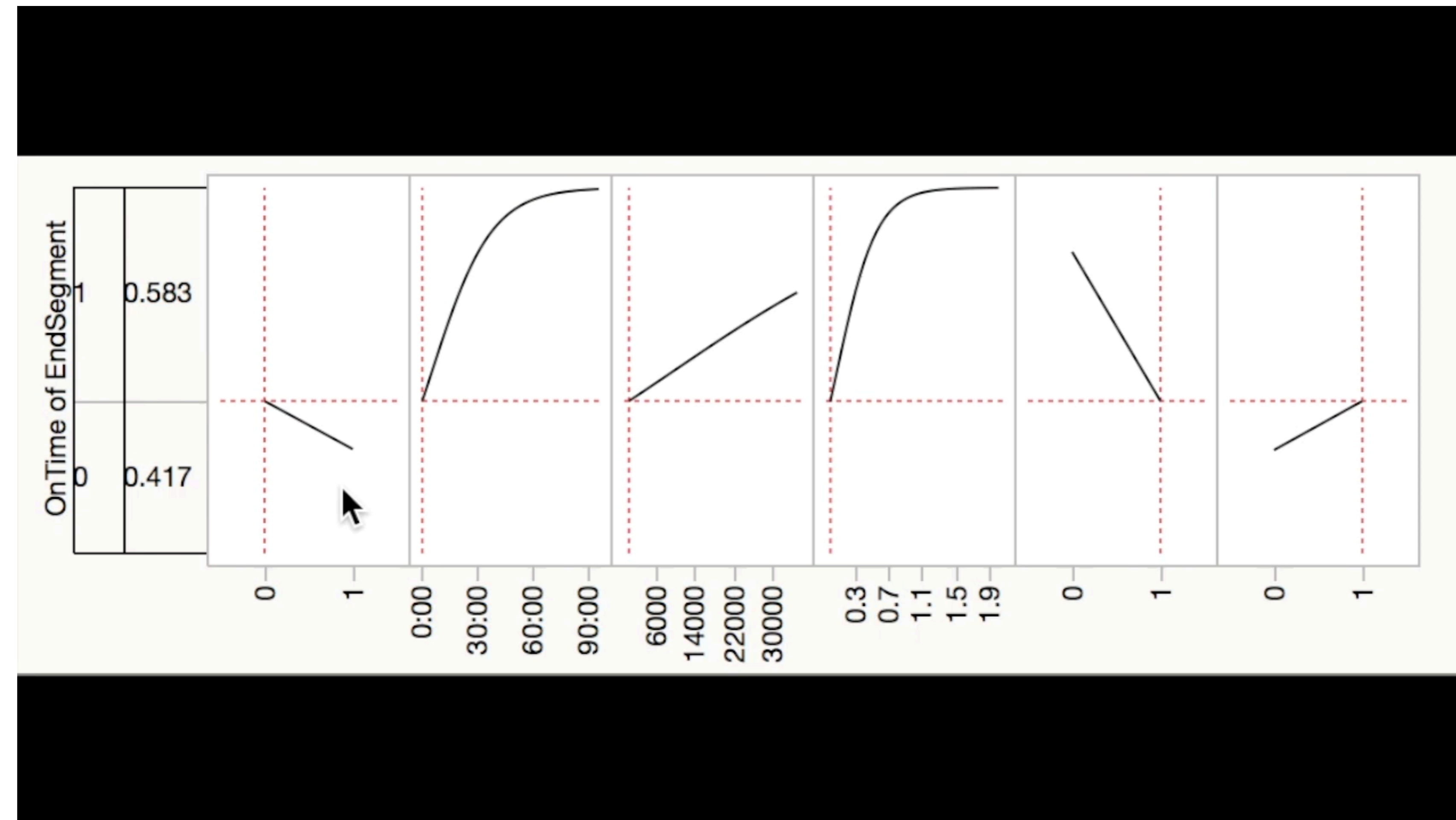
- Coyote provides truckload services via a network of more than 40,000 carriers
- On time performance is critical to competitiveness

The Challenge / Key Questions

- How can a leading 3PL effectively optimize its use of resources while improving customer service levels?
- Can on-time delivery in trucking be predicted?
- Can a predictive analytics model indicate which combinations of variables lead to delays?

Hyperlink Test

<https://youtu.be/6ck1-rELdR0>



Please make sure the video runs in a continuous loop.