## Improve Profitability by Predicting Delays

### Challenge
- Late flight arrivals severely impact operations:
  - Disrupts catering services
  - Delays flow of flight crews between aircrafts
  - Jeopardizes gate availability
  - Delays connecting flights for passengers
- Identifying delays early makes it easy to adjust
- Delays are hard to predict & slow to identify

### Solution
- Quickly pinpointed the most predictive variables
- Built innovative yet simple widget for flight ops:
  - Input specific flight numbers
  - Immediately receive a predicted arrival time
- Automated flight scheduling
  - Includes the predicted arrival times

### Impact
- Discovered prime factors that create delays:
  - Which runways are utilized
  - How many passengers have connections
- Model accuracy optimized at time of take-off
- Annual cost benefits in the 10s of millions

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**Problem type:** Regression

**Universal relevance:** Every business experiences some kind of delays, which can cost you time, money and effort. Identifying delays before they happen gives you time to prepare.