

## Case Study: Who is Going to Get the Flu Next?

### The Problem

Every year, the flu is a drain on medical resources. The greatest challenge is knowing where resources will be needed, and when.

### The Solution

We forecasted the spread of flu 10 days ahead and won the grand prize in IBM's Big Data for Social Good. Here's what we used:

#### DATA

- Wunderground for weather data
- United States census data
- Historical weather measurements (GSOD)
- Travel data – 2009 National
- Household Travel Survey
- Google Flu Trends
- Twitter Streaming API

#### TOOLS

- IBM BlueMix
- IBM Analytics for Hadoop
- Sentiment Analysis
- Node Red
- SAS
- R
- Python

