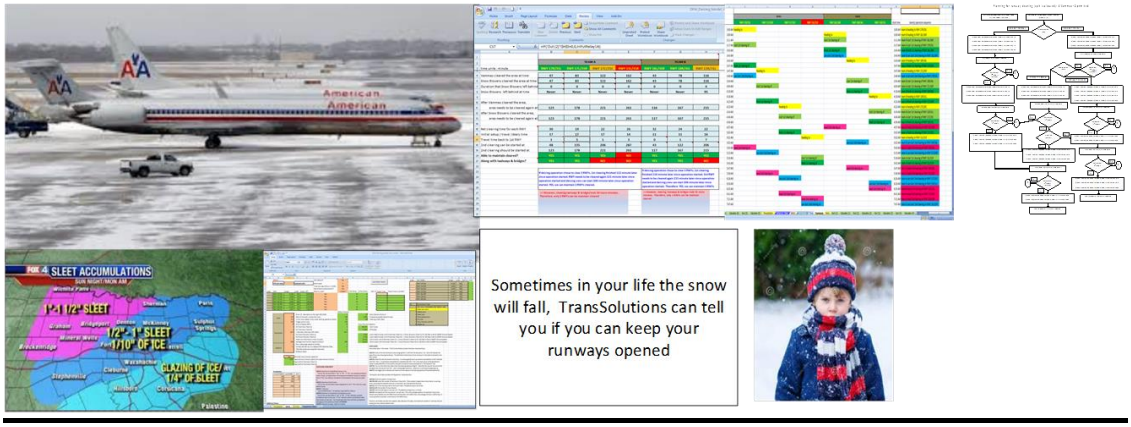
Dallas Fort Worth (DFW) International Airport
Runway Snow and Ice Clearing



Client Name: Dallas Fort Worth International Airport
Date Started: December 2013 **Date Completed:** February 2014

The 2013 Dallas/Fort Worth International Airport (DFW) clearing plan was not able to accommodate all runways and supporting taxiways due to time and equipment constraints during severe weather storms. DFW wanted to clear all the airport areas in 2014, including three (3) additional runways, all taxiways, and one service road around the airport by adding additional equipment.

TransSolutions offered technical support services to optimize the snow removal from runways and taxiways at DFW. This included developing process maps from data collected onsite and creating optimized flow patterns for snow removal equipment. TransSolutions used a Lean table top simulation concept to develop the optimized route and communication points.

TransSolutions developed a computerized tool that would allow DFW Planning the ability to evaluate the effects of incoming snow and ice storms on runway and taxiway closures. Based on the type of precipitation and duration, the tool gives DFW the best strategy for deployment of its snow and ice removal resources to maximize the number of open runways and taxiways. The project involved working with several departments within DFW to coordinate and get buy-in.

The outcome of this project included:

- ✓ Facilitation of Lean planning teams across departments
- ✓ Using Lean tools to create stable and predictable processes while dealing with unpredictable and unstable inputs, such as a storms type and duration
- ✓ Using computer simulation to test a solution before implementation
- ✓ Standardizing operator work instructions