THE ROUTE ASSESSOR

The shortest distance between two points is NOT always a straight line

**Problem**

$30$ billion of cargo lost annually in the United States

This calls for managing and mitigating threats related to cargo theft and natural disasters.

**Process**

Automate data import from various dataset sources such as weather, State Crime and commodity type.

Use Likert scoring scale to calculate the Transportation "Risk Index"

Risk score makes risk more tangible, measurable and manageable.

Use predictive analytics to create risk models.

**Solution**

A robust web application that recommends best route for a given Source and Destination, based on the crime statistics and weather conditions on that route.

Assist Security analyst in suggesting alternate routes.

Assist Sales Analyst in offering effective cargo insurance coverage on high risk routes.

Provide competitive advantage. Sponsor can now offer a value added service to their clients.

**Commercial Opportunity**

17% projected growth in United States freight transport by 2020

Potential to be developed into a full scale enterprise level Risk Assessment Tool.

Expeditors suggest possibility of scaling "Route Assessor" to other branches across USA.

**System Design**

Data Sources: Weather Data, Crime Data, Energy Data.

Web: Django, Node/ Angular.js, REST API and Python.

Rendering: HTML.

Beta version released to sponsor to measure impact of solution on business.

Ongoing talks of integration with current system.

**What our sponsor's are saying?**

The program is user friendly and operates very quickly.

- Phil Coolbeth
  Operations Manager at Expeditors

Moving our current tool from a stand alone spreadsheet to a web-based system has increased efficiency in developing route assessments for high value cargo.

- James Hirston
  Senior Security Analyst at Expeditors

**MSIM Team**

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**Sources:** FreightWatch Int, Expeditors Int