# Predicting the transport cost of individual shipments

#### **Short description:**

Customers of the logistic industry would like to receive an immediate cost estimation for their transport orders; however, due to a manual/tedious process the dispatchers are unable to provide such. This mini project aims to accurately **predict the cost of a shipment** based on its attributes.

# Dispatchers in the logistic industry must provide a cost immediately to the customer shipment orders

#### **As-is situation**

- Logistic companies usually simply act as the intermediary between a customer who wants to ship its goods and a carrier who can transport those shipments.
- Logistics dispatchers get customers orders and must assign a cost for the transportation of those shipments.

#### **Issue**

- The process to assign the cost is not straightforward, relies on human interactions/decisions and negotiations with the carrier can take several days.
- The customer wants to know a cost price **immediately**.
- The dispatcher has no way to provide an immediate cost approximation: he first needs to contact the potential carriers.

### Objective

- Build a model which is able to predict the cost based on general shipment attributes
- **Evaluate** the performance of your model

## A shipment data set was provided which includes locations, attributes, dates and the cost paid

## **Shipment Data**

- Historic shipment data was provided by a logistic company, which will be kept as confidential
- Data has 9 columns and over 250K rows
- All shipment attribute values have previously being normalized
- Latitude, longitudes and dates have been **shifted**
- Column cost represents our target value

