## Transportation and Logistics Analysis

Welcome to the Transportation & Logistics Data Challenge! In today's fast-paced supply chain industry, optimizing shipment efficiency, reducing delivery times, and enhancing operational visibility are critical for success. This challenge invites data enthusiasts to explore and derive actionable insights from a real-world logistics tracking dataset, featuring shipment records, GPS tracking, vehicle information, and transportation distances.

**About**

The FP20 Analytics Challenge 24 is brought to you in collaboration with ZoomCharts. Thanks to this partnership, we're integrating ZoomCharts' exceptional Power BI solutions into this competition. You will gain skills to create Pro reports that help business users explore data faster and more intuitively.

To participate in the challenge with ZoomCharts, [register here](https://zoomcharts.com/en/microsoft-power-bi-custom-visuals/challenges/fp20analytics-march-2024?utm_source=challenge&utm_medium=fp20analytics&utm_campaign=fp20analytics_web_march&utm_term=register&utm_content=registration) and create a Power BI report including at least 2 ZoomCharts Drill Down Visuals in one report page.

**Introduction**

#### **Questions:**

Top Routes: What are the most common shipment routes and their average distances?

Delivery Times: Which routes have the longest delivery times?

Peak Shipments: When are the busiest booking and delivery dates?

Delays Analysis: What factors contribute to shipment delays?

Supplier Trends: Which suppliers handle the most shipments, and do some have higher delays?

Customer Insights: Which customers receive the most shipments, and do they experience delays?

Material Movement: What are the most frequently shipped materials, and do certain materials have longer delivery times?

Bottlenecks: Where are the most common shipment delays based on GPS data?

Predicting Delays: Can you build a model to predict shipment delays?

Route Optimization: What strategies can improve transportation efficiency?

#### **Technical Requirements**

* All tools are permitted for FP20 Analytics Challenge.
* For ZoomCharts Challenge: create a Power BI report including at least 2 ZoomCharts Drill Down Visuals in one report page.
* Reports are restricted to a maximum of two pages.
* Canvas size is 16:9 (Default Power BI size) or Full HD size = w:1920 - h:1080.

##### **Judging Criteria**

Business users use reports to make data-driven decisions. That’s why reports are called effective if they enable users to drill down and filter data quickly and intuitively to find answers to any question they might have and analyse data in all possible directions and dimensions.

Each report is evaluated based on three main criteria: **intuitiveness**, **insightfulness**, and **interactivity**. These factors ensure that the reports are not only accurate and functional, but also meet the target audience's needs and are ready to be presented to the end-users.

1. **Intuitive: How clear and easy it is to understand the report at a glance?** (max 15 points)
   * Is the report visually appealing?
   * Choice of charts and visual elements
   * Does the report tell a story?
   * Is it not overwhelming to the user?
   * Choice of tooltips, titles, and legends
2. **Interactive: How engaging and seamless is the report exploration and interaction with data?** (max 15 points)
   * Clear navigation that allows user to explore the report
   * Use of slicers and other interactive elements
   * Smooth cross-chart integration
   * Is report optimized for touch devices?
   * Are tutorials and guiding elements helpful to the user?
3. **Insightful: How accurate, complete, and meaningful is the data in driving decisions?** (max 15 points)
   * Depth of analysis
   * Data cleaning and preparation
   * Does data show up accurately in the report?
   * Is report optimized for quicker loading time?
   * Does the report provide deeper exploration of data (drill-down)?

You are encouraged to use various techniques at your disposal, such as tooltips, drill-throughs, drill-downs, cross-chart filtering and page navigation features, to enhance your analysis.

### **The Resources.**

1. Excel Spreadsheet with dataset and data dictionary.

2. PDF with the Intro and Brief in English.

3. PDF with the Intro and Brief in Spanish.

### **Zoomcharts Resources.**

Resources that will inspire you to master Power BI reports that end-users will love:

1. [Use-Case Gallery](https://zoomcharts.com/en/microsoft-power-bi-custom-visuals/dashboard-and-report-examples/?utm_source=challenge&utm_medium=fp20analytics&utm_campaign=fp20analytics_web_march_2024&utm_term=resources&utm_content=use-case_gallery): Try live demos and download reports made by the ZoomCharts team

2. [Video tutorials](https://academy.zoomcharts.com/?utm_source=challenge&utm_medium=fp20analytics&utm_campaign=fp20analytics_web_march_2024&utm_term=resources&utm_content=video_tutorials): Watch engaging video guides on how to set up and use the visuals

3. [Documentation](https://zoomcharts.com/en/microsoft-power-bi-custom-visuals/documentation/general/getting-started/?utm_source=challenge&utm_medium=fp20analytics&utm_campaign=fp20analytics_web_march_2024&utm_term=resources&utm_content=documentation): Technical deep-dive about ZoomCharts visuals

4. [ZoomCharts Blog](https://zoomcharts.com/en/microsoft-power-bi-custom-visuals/blog/?utm_source=challenge&utm_medium=fp20analytics&utm_campaign=fp20analytics_web_march_2024&utm_term=resources&utm_content=blog): Useful tips & tricks for data visualization and report creation

5. [Visuals Gallery](https://zoomcharts.com/en/microsoft-power-bi-custom-visuals/gallery/?utm_source=challenge&utm_medium=fp20analytics&utm_campaign=fp20analytics_web_march_2024&utm_term=resources&utm_content=visuals_gallery): Explore all the possible customization options for Drill Down Visuals.

### **Submissions of Entries.**

**\*IMPORTANT\***

To submit your two-page report, please follow these steps, if you want to be considered for the Zoomcharts' prize, otherwise post your entry in the challenges group.

### **1.**[**Submit your entry .pbix file here.**](https://zoomcharts.com/en/microsoft-power-bi-custom-visuals/challenges/fp20-analytics-february-2025?utm_source=challenge&utm_medium=fp20analytics&utm_campaign=fp20analytics_web_february&utm_term=register&utm_content=registration) Your report will undergo validation to ensure it meets all the technical requirements. If the report is valid, you will receive a 'Publish to Web' link. If it does not meet the requirements, you will receive a rejection reason and will have the opportunity to resubmit your report.

### **2. Post your submission on LinkedIn:**

1. Upload the report as a PDF document on your LinkedIn feed.

2. Use the caption "I am participating in FP20 Analytics Challenge 24”, along with screenshots from your report.

3. Include a summary of your report's key insights and publish it to the web or NovyPro link.

4. Use the hashtags #FP20Analytics, #FP20TransportationAndLogisticsAnalysis, #builtwithzoomcharts, tag @Federico Pastor and @Zoomcharts.

5. Additionally, post your report in [the FP20 Analytics LinkedIn Community Group.](https://www.linkedin.com/groups/12751070/)

### **Dataset.**

### **Click on the link below to get your dataset: The files contain all the necessary data and information to create your report.**

### **Dataset** **Intro & Brief in English** **Intro & Brief Español**

\*Any questions, please post them in the challenges group; a member of the team will get back to you ASAP. Please do not send challenge questions via private messages to the members of the team, these will not be answered.