Deloitte Client Project: *Daikibo Telemetry Data Analysis Dashboard*

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1 **Task One**

Build a dashboard to explore the client's telemetry data

30–60 mins

2 **Task Two**

<30 mins

Finish Line

Achievements

Why this is important

Task 1: Data analysis

Here is the background information on your task

Using a data unification algorithm, the tech team at our client, Daikibo, has converted all telemetry data collected from its 4 factories:

- Daikibo Factory Meiyo (Tokyo, Japan)
- Daikibo Factory Seiko (Osaka, Japan)
- Daikibo Berlin (Berlin, Germany)
- Daikibo Shenzhen (Shenzhen, China)

Each location has 9 types of machines, sending a message every 10 mins. Daikibo has been collecting this data for one month (May 2021) and they've shared this data in the form of a single JSON file.

The reason the client wanted to collect telemetry was to answer 2 questions:

1. In which location did machines break the most?
2. What are the machines that broke most often in that location?

Implementation Tasks for **Daikibo's Telemetry Dashboard**

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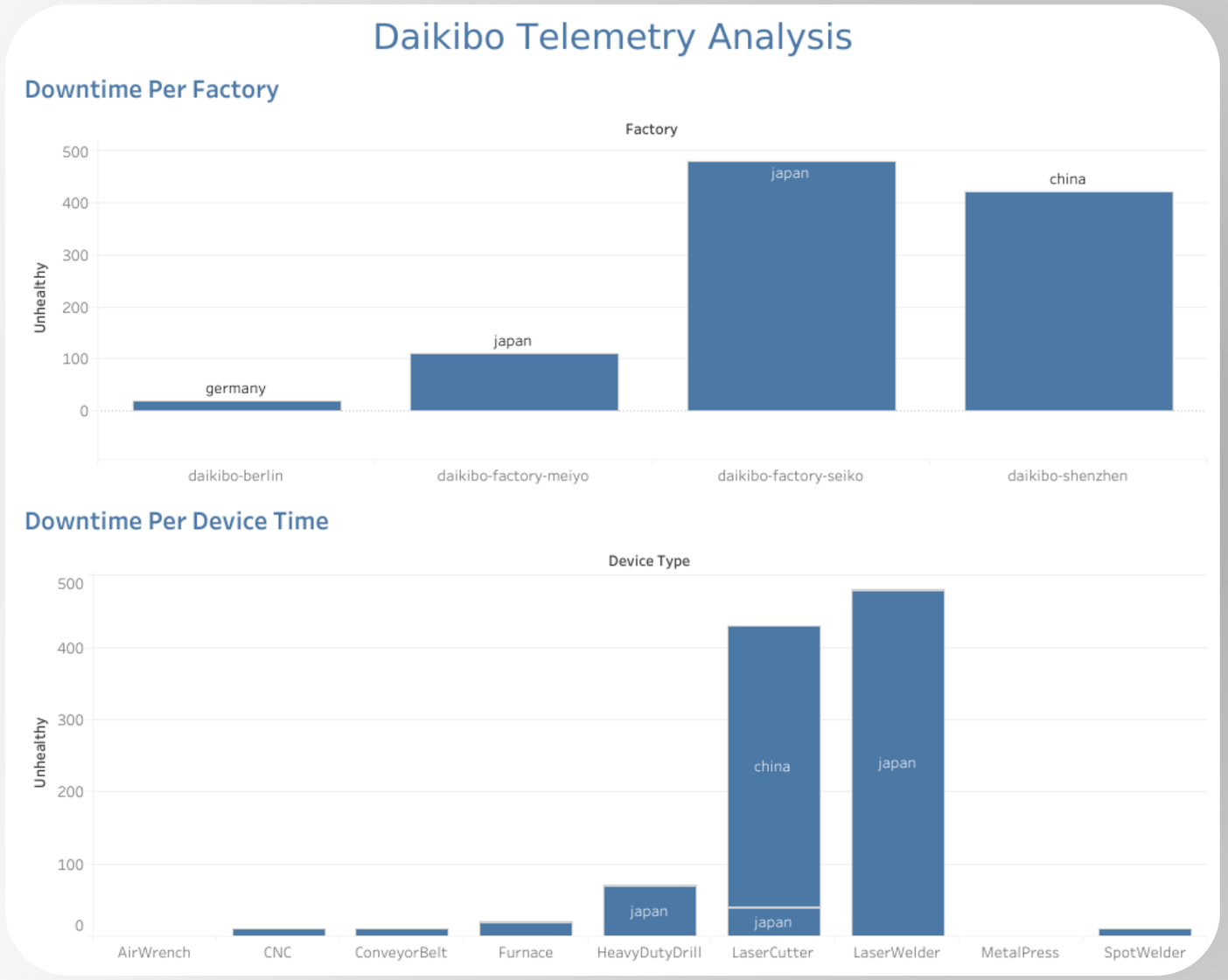
Task 1: Data analysis

Here is your task

Your task is to analyse the telemetry data collected by Daikibo in a software called Tableau. Here are the steps that you need to take:

1. Download the free trial of Tableau (link in the Resources).
2. Install Tableau on your computer and register an account with the same email you used to download the software.
3. Download the daikibo-telemetry-data.json.zip file -> unzip -> and import it in Tableau.
4. Create a calculated measure field called "Unhealthy" with a value of 10 for every unhealthy status (representing 10 mins of potential down time since the previous message).
5. Create a bar chart called "Down Time per Factory".
6. Create a new sheet with a new bar chart called "Down Time per Device Type".
7. Create a Dashboard with the 2 previous sheets and set the first chart to be used as a filter (selecting a factory in the first chart shows only the down time of the machines in this factory in the second chart).
8. Select the factory with the most down time (click on its bar), make a screenshot of the dashboard and upload it as a submission for this task.

Dashboard and it’s features



key features of the Daikibo telemetry dashboard based on the task requirements:

- **Factory Downtime Comparison**
  - Bar chart visualizing total downtime per factory (Step 5)
- **Device-Specific Failure Analysis**
  - Dedicated chart showing downtime by machine type (Step 6)
- **Interactive Cross-Filtering**
  - Selecting a factory dynamically updates device-level data (Step 7)
- **"Unhealthy" Status Quantification**
  - Automated calculation (10 mins per unhealthy status) as key metric (Step 4)
- **Priority Identification**
  - Highlights worst-performing factory through maximum downtime selection (Step 8)
- **Exportable Insights**
  - Screenshot functionality for easy reporting (Step 8)

Visit my Tableau Public profile to check out the dynamic dashboard

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Priyanshu Biswas

Data Analytics Job Simulation

Certificate of Completion

March 24th, 2025

Over the period of March 2025, Priyanshu Biswas has completed practical tasks in:

Data analysis
Forensic technology

Tina McCreery
Chief Human Resources Officer, Deloitte

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