**Business Objective**

**Task 1**

Here is the background information on the task

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

1. Daikibo Factory Meiyo (Tokyo, Japan)
2. Daikibo Factory Seiko (Osaka, Japan)
3. Daikibo Berlin (Berlin, Germany)
4. 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:

* In which location did machines break the most?
* What are the machines that broke most often in that location?

**Data Analysis Procedure**

The task is to analyse the telemetry data collected by Daikibo in a software called Tableau. Here are the steps that will be undertaken:

* 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).
* Create a bar chart called “Down Time per Factory”.
* Create a new sheet with a new bar chart called “Down Time per Device Type”.
* 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).
* 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.

**Findings**

* Machines breakdown most in the Daikibo Factory Meiyo in Tokyo, Japan.
* The machine that breaks down the most in this location are the Heavy Duty Drill and Laser Cutter.