Nordic Sensing Problem Statement [Ulziibat Tserenbat]

1. **Context**

* In its early stages of development, Nordic Sensor Company (NSC) has been having failure rates of about 1-2% on their new sensors. But then they were faced with failure rates of 15%. They believed that these were the faults of faulty parts and poor manufacturing but could not detect the cause entirely. NSC believes that studying the data will help uncover missed observations about the causes of failures. So, we are given data to research and find a trend in the date, common manufacturer, and supplier for when the sensors failed

1. **Criteria for Success**

* Search the data thoroughly and provide the correct data to determine the right solutions.

1. **Scope of solution space**

* I will explore the data to look for trends that will help tell what caused the failures to increase. Also, I will focus on timing because they can manufacture the sensor in 30 minutes so that it can cause failure, and examine part manufacturer too.

1. **Constraints within solution space**

* Time. We are given a short amount of time to figure out the problem, so we are more focused on parts manufacturers.

1. **Stakeholders to provide key insight**

* Gary Neumont- Head of Manufacturing, will help notify whether the manufacturers are operating successfully.

1. **Key data sources**

* Data provided by Tony Abraham - InSense VP will be providing the data scientists with the data.
* I - Data Scientists will be the person searching for the problems and trends of the data.