Problem context:

Nordic Sensor Company is heavily involved in the IoT sensor industry, and is focused on energy consumption and production. InSense energy tracking sensor is NSC's newest sensor, and the sensor failure rate has increased to 15%.

Criteria for a successful solution:

Have to develop a model that can identify the problem areas in the manufacturing process to make an informed decision.

Scope of the solution space:

There are four factories in Asia refocused solely on InSense, able to manufacture a new sensor every 30 minutes or so, so a data model can allow us to identify any deficiencies in comparison and take action.

Constraints within the solution space:

- sharp increase in failures during sensor testing
- There are 26 suppliers for the seven InSense sensor parts, which will all have to be modeled to start an analysis.

Stakeholders involved:

- James Hansk - CEO
- Otto Evans - InSense President
- Bernard Ong - CTO
- Kern Chu - LithBat President
- Shane Buchholz - Head Engineer
- Tony Abraham - InSense VP
- Vince Maccano - Head of Data Science
- Anna Landis - LithBat - VP
- Gary Neumont - Head of Manufacturing
- Jane Smith - Data Scientist
- QA/QC Engineer - Jessica Jones

Data sources required:

- Cert