



Alta Baldwin

Age: 22

Work: Refinery Corrosion Engineer

Family: Single

Location: Manhattan, NYC

Bio

Alta Baldwin is a Refinery Corrosion engineer working in Cherrypoint. She is responsible for collecting data via reports, inspections, and measurements to determine the speed and spread of corrosion on metal parts and structures. She works with this collected data to find ways to eliminate or mitigate the effects of corrosion.

Goals & Expectation

My goal is to reduce the time it takes to find accurate data and to search through multiple data sources. Doing so helps me discover insights and solve complex corrosion problems by providing technical knowledge of damage mechanisms to troubleshoot current corrosion integrity issues & prevent future corrosion failures.

Gather Inspection Insights

Stage 1

In this first stage, Alta needs to gather data based on the popping and vessel information in areas of the refinery with potential corrosion. She has to gather this data from multiple sources to ensure her reading of causation will be as accurate as possible.

Analyze Corrosion Causes

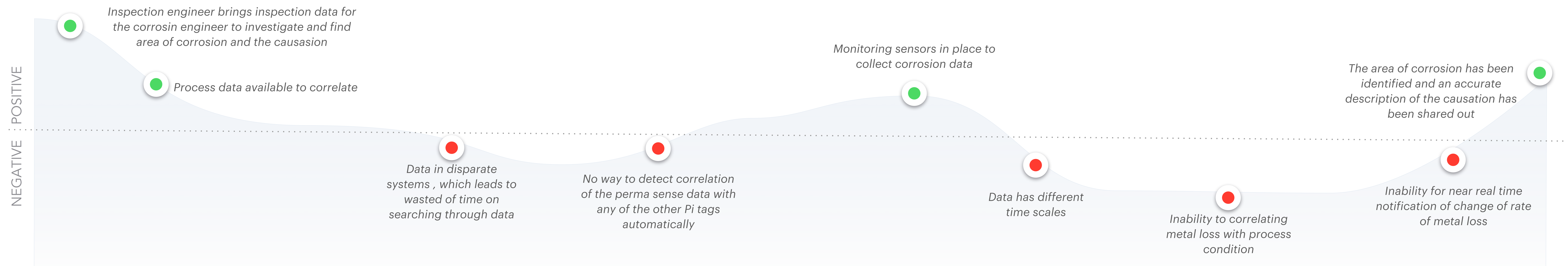
Stage 2

Within stage two, Alta has now gathered as much data as she could. She is now analyzing through all the data to understand what are some of the reasons why corrosion is happening. She ultimately wants to be able to find changes in corrosion rate. To do this she is searching for correlation between the different datasets for the popping circuits to help identify the specific reason of causation.

Conclusion and Prescribing Solution

Stage 3

Finally in stage three, Alta can conclude what has been causing the corrosion and provide the proper insight to her team. Once this has been done, the necessary action steps will follow whether its to replace, repair, or to continue monitoring.



Opportunity

Merging the data source is in one location would help the engineers waste time searching through different data sets applications.

Being able to cycle through different time scales quickly would help analyze the data and identify changes in the corrosion rate to help extract more accurate insights.

Having a way to plot the process data and the permanence data would help identify potential corrosion causation faster.

A real-time indication/alert of change in the rate of mental loss would help identify the problem as it happens and more accurately.

