I1.04 – Electronic Production Dashboard

Andrew Gustafson, Kameron Schmidt, and Paul Passmore
Sarah Chowdury and Team Signify

TEXAS STATE® INGRAM SCHOOL OF ENGINEERING

Signify

Problem Statement

- Downtime reporting is a very manual process
- Signify needs an automated reporting tool to aggregate the data.

Project Purpose

- Creating an automated reporting system
- Push for data driven improvements in the plant
- Improve plant OLE

Objectives

Create	Create a useable downtime report to enable downtime analysis driving data driven improvements
Make	Make the reporting analysis and countermeasure implementation part of the MCRS process
Link	Link the downtime report outcome to the Kaizen database
Generate	Generate work instructions of the system for trouble shooting and accessibility
Increase	Increase plant OLE (overall line effectiveness) by 10%

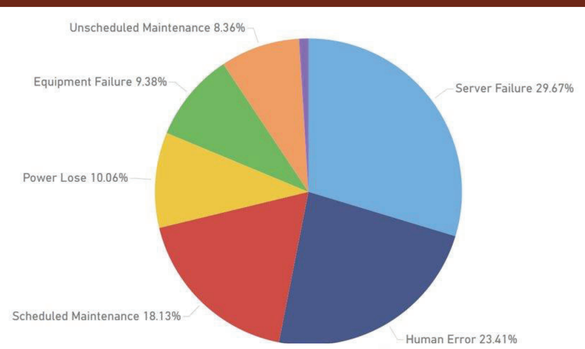
Team Members

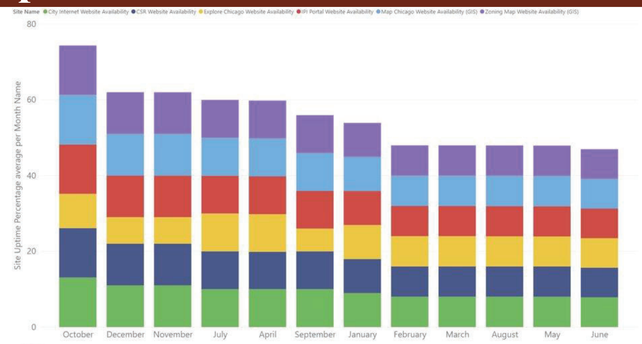
From left to right
Andrew, Kameron, Paul

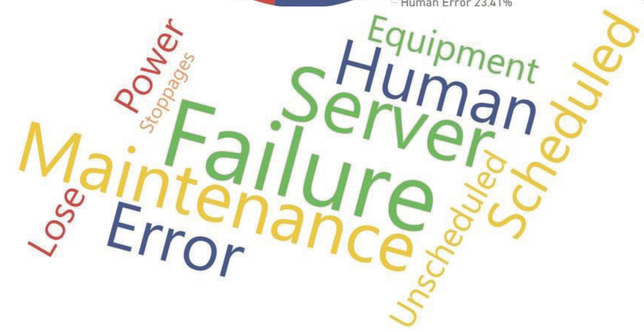
Design Approach

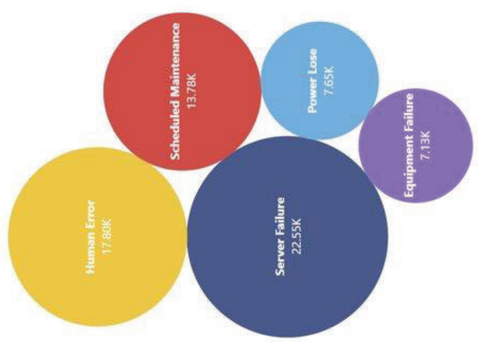
D	M	A	I	C
Define	Measure	Analyze	Improve	Control
Project Overview Project Objectives Functional Overview Human Factors	Overall Line Effectiveness	Current System Process	Aggregating Data Overall Line Effectiveness	Create Work Instructions

Improve



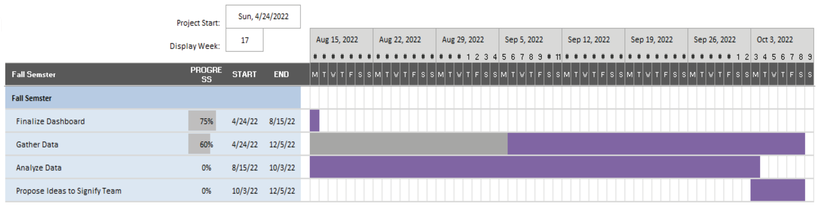






Future Plans

- Finalize dashboard with team
- Continuously gather data
- Analyze data to find improvement areas
- Improve plant OLE



Human Factors

- Informative tool for quick decision making
- Alleviate time consuming manual calculations
- Reduce mental workload of key personnel

Measure

Manual Assembly OLE % = (A x P x Q) x100%

Availability (A) = Operating Time/Planned Loading Time

Performance (P) = EarnHrs/Hrs Available

Assembly Quality (Q) = Total good parts produced RFT*/Total parts produced
RFT = right the first time

Analyze

Power BI Data Visualization

Sponsor/ Faculty

Sponsor: Sarah Chowdhury
Instructor: Michelle Londa