

I3 – Calibration Program Development

Group Participants: Alaina Costen, Bayley Turner, Maria Bueno-Ponce

Sponsors: Robert Britsch & Dane Bumgardner



Background

Aggreko is a world leader in mobile energy generation and storage consisting of mobile diesel generators, PV installation and battery storage units.

The facility has storage units consisting of lithium ion batteries; these systems are deployed around the world to help stabilize grids, form microgrids and power major world and disaster events.

Aggreko is deploying a new energy storage system that will integrate with existing diesel generators, wind turbines, PV plants or interconnect with local, utility scale grids. Which will provide a multitude of functions such as UPS backup, frequency and voltage regulation and spinning reserve to name a few.

During manufacturing, testing and deployment of these energy storage systems, Aggreko must use a large assortment of calibrated tooling and measuring equipment. Aggreko's Austin Facility uses a manual tracking system to document when equipment is checked in/out of their quality assurance lab.

No current metrics exist for tracking the tooling in and out of the facility or tracking of defective tooling and equipment.

Incorporate a program to track tools being checked in and out for use. Incorporating a barcode scanning device will make checking in and out tool quick and efficient. We need to use a system to send notifications and updates for when tools need to be calibrated or are past due. Also, when tools can't be calibrated or are defective, the tool needs to be marked to be replaced. The report will include a GPS tracking system for high value tools and equipment.

Abstract



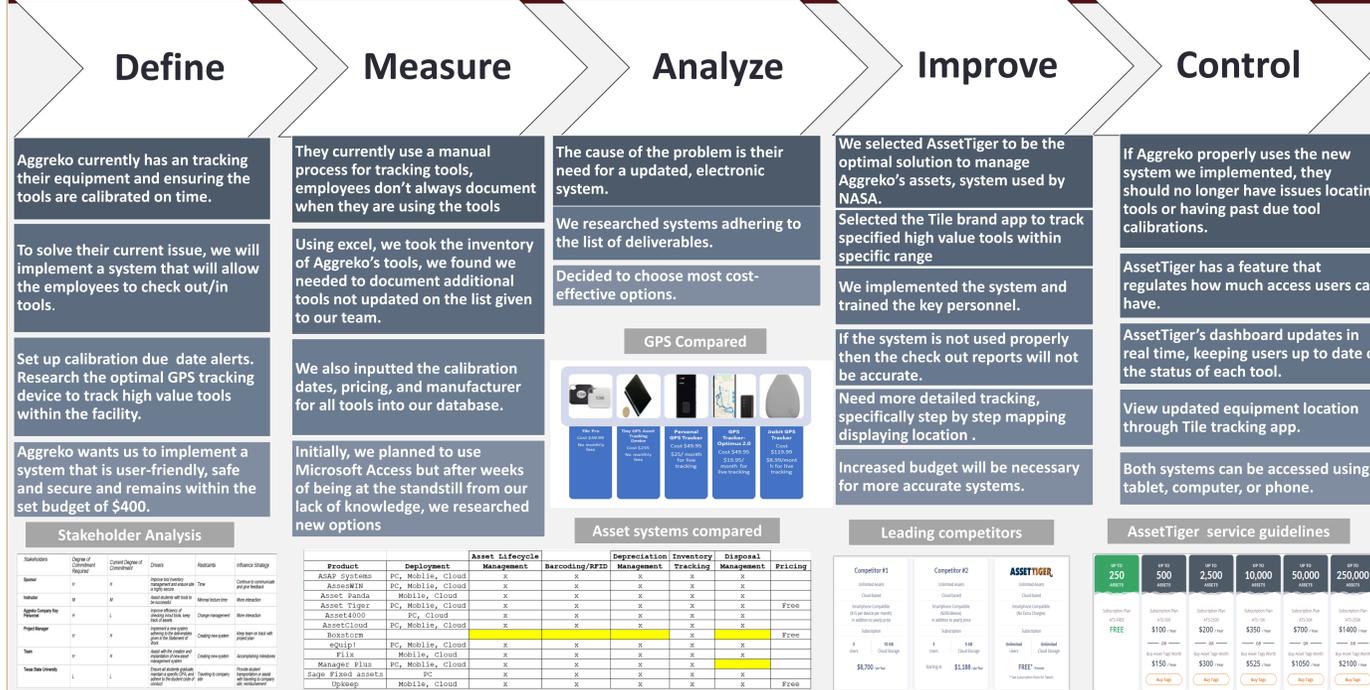
Aggreko currently uses a manual tracking system for tools in and out of its quality assurance lab.

No current metrics exist for tracking the tooling in and out of the facility or tracking of defective tooling and equipment.

Aggreko needs a tracking system to reduce the amount of tooling that is lost or uncalibrated.

We will also consider the best GPS tracking for higher end tools.

Methodology

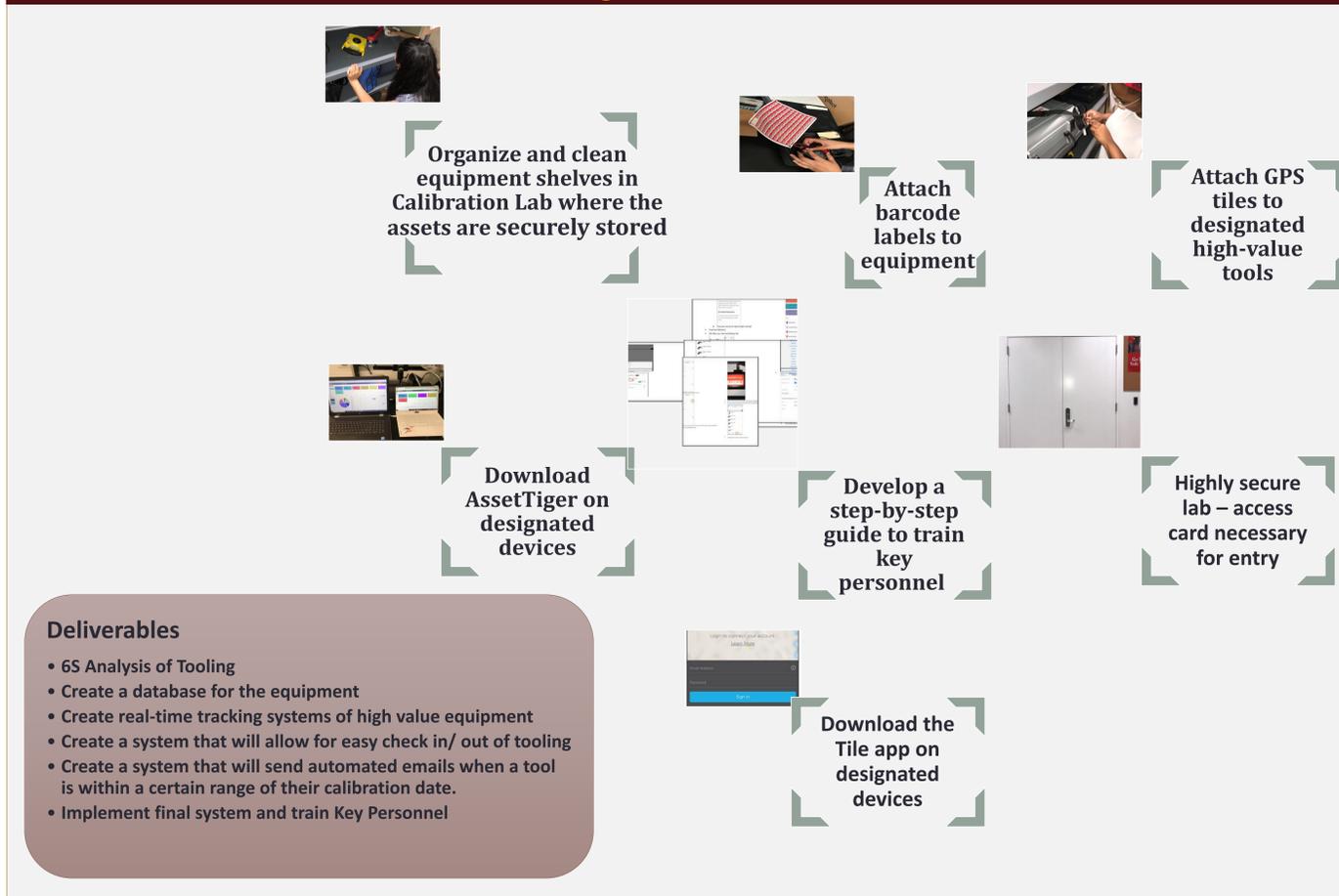


Summary of Results



- Implemented new inventory management system
- Designed database organizing the list of assets with their serial number, manufacturer, price, and current status
- User friendly system
- Ability to track location of high value equipment within the facility
- Improved efficiency of checking in/out assets
- Decreased the probability of misplacing equipment
- Successful integration of automated notification system for upcoming and past maintenance due dates

Project Process



Conclusions

Aggreko went from having an inaccurate, manual system to a having a multi-functioning electronic asset management software to organize their equipment

The new system that we selected will improve the maintenance and upkeep of their tools.

Employees are more likely to check in/out tools using the functions of new system.

AssetTiger is a stepping stone for Aggreko as they continue to improve their inventory management system

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