

The rising STAR of Texas

# **Problem Statement**

• HID Global needs a system that tracks inhouse inventory. There is no tracking of these part numbers once they are received and stocked inside the POU-WW.





## **Project Purpose**

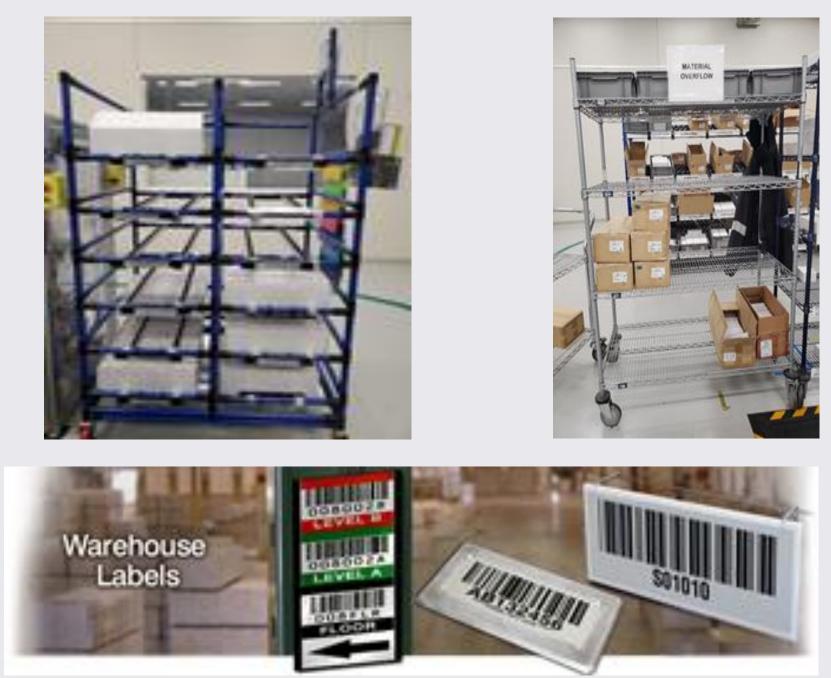
- Create inventory tracking system logging new boxes or partial inventory, and parts used or put back in a new location.
- To organize the inventory room
- Reduce waste of time, cost to company

# Objectives

- Install of the above inventory logging systems using Python
- Improve the cleanliness of the inventory room using 5S

### **Improved Inventory Room**

• Propose purchasing barcode scanners to label material overflow rack with QR codes for each part that the Python program will recognize.



# IE 2.3 – HID Global Team

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# **Improvement Process Methodology**

#### Define

- Statement of Work
- Project Statement
- Schedule
- Voice of Customer
- **Project Target** Goal
- Time and cost reduced to company

Measure

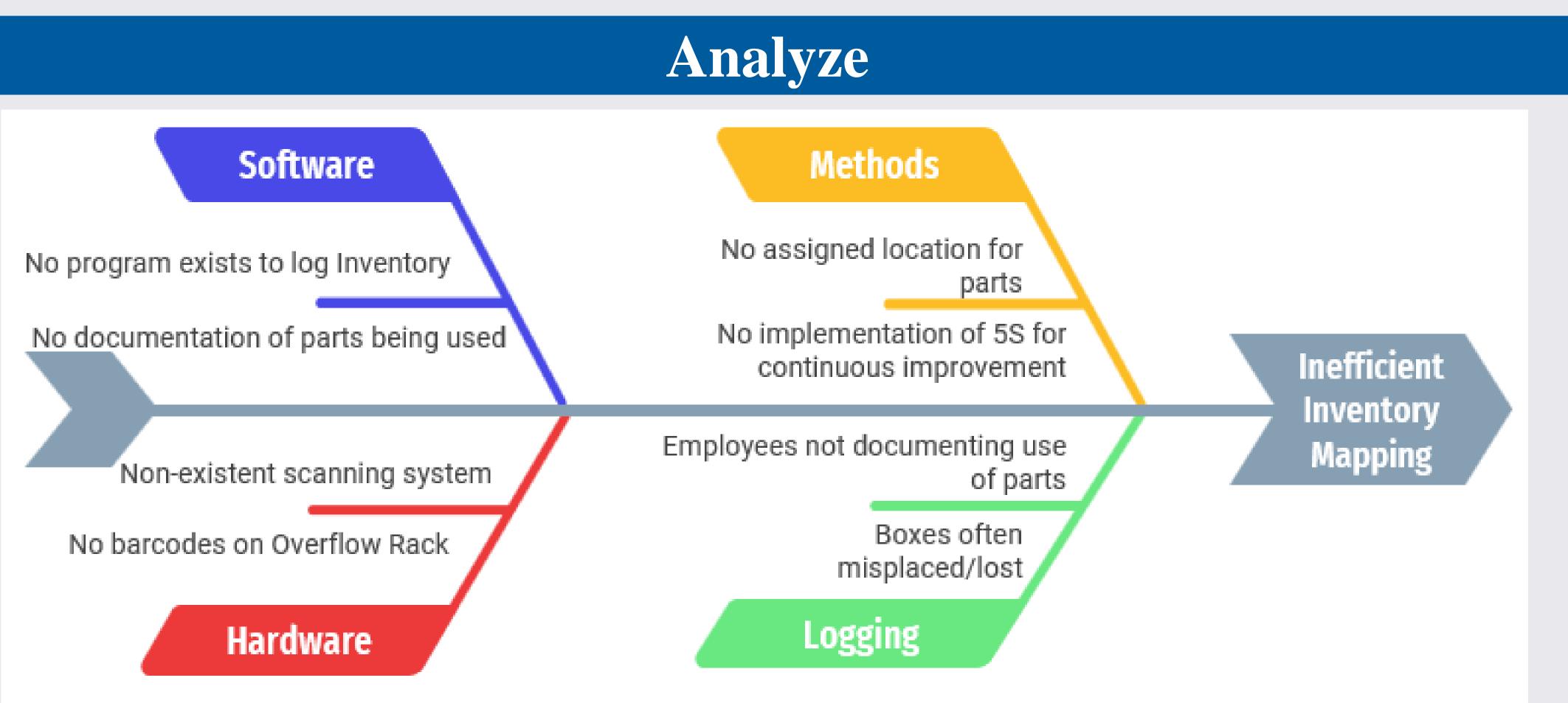
- Reduce misplaced inventory
- Record bugs in Python software

## Analyze

- Find root cause of problem with tracking parts
- Layout of inventory racks
- Labeling and designation of part locations
  - Measure

- Mapping of process
- Tracking of inventory
- Documentation by employees in software

Measurement system analysis



# Improve

Implement solution and improve process by eliminating undocumented inventory

## Control

• Implement continuous control plan and data logging to ensure future success of our solution



- Data collected for audit and inventory
- Process in control
- Narrow down shrink and lost inventory cost

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and collaboration to: Mr. Arnab Sengupta, HID Global Mr. Mark Thelen, HID Global Dr. Michelle Londa, Texas State University Mr. Jerel Walters, Texas State University

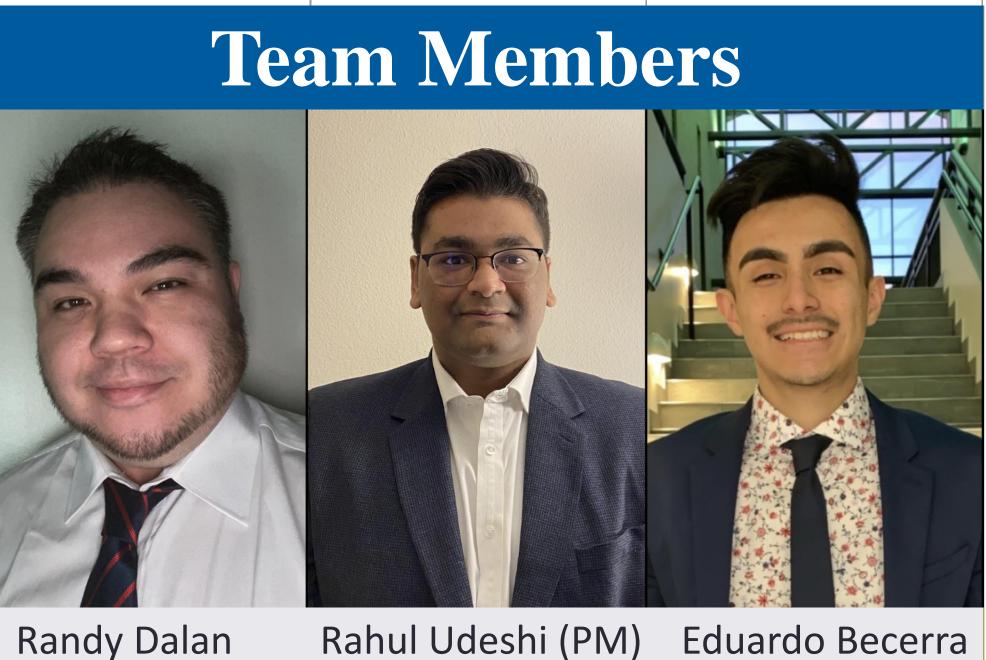


#### **Future Plans**

Monitor inventory logging with employee data log Implement 5S system with scheduled employee cleaning and organization of inventory room Create logging system to report any bugs in Python software regulated by an HID programmer

# **Evaluation Criteria**

ECTIVES	RELATIVE WEIGHT	METRIC
em to log inventory into base.	0.60	<u>Pass</u> : Scanners and code are logging inventory into desired storage database. <u>Fail</u> : Inventory not being logged
barcodes on racks are gned to each part/box. The odes will be variables in ramming code written next ester.	0.30	<u>Pass</u> : Scanner recognizes each barcode and inputs value for inventory with proper part ID. <u>Fail</u> : Barcodes not registering and failing to track.
g 5S system to maintain inuous improvement of em and organization of ntory room.	0.10	Pass: Employees scanning each time they grab parts, inventory room maintained and organized with regular schedule. No boxes placed in un-assigned areas. Fail: Boxes placed anywhere and not on assigned racks, checklist for 5S not followed on regular schedule.



Acknowledgements

We would like to extend special thanks for their guidance

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