

"Ava" The next step to InfoLink



Our Problem Statement

How can Crown Equipment help make the warehouse safer, more productive and drive profits to the warehouse by reducing their resource needs?

Main Issues

(1)Difficult to employ desirable staff strength

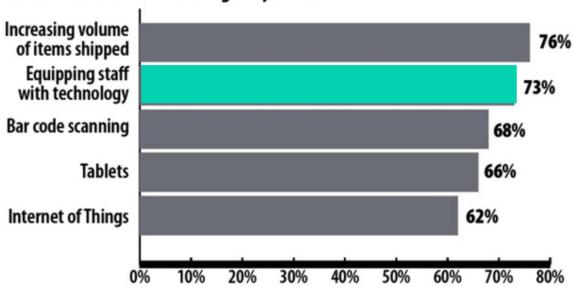
(2) Existing staff are impermanent

(3)It takes around \$10,000 to train an operator and make him/her OSHA compliant

(4)Forklifts account for around 85 deaths every year

Our Analysis

Processes and tools investing in by 2020:



Source: Zebra Technologies' Warehouse Vision Study of 1,378 respondents from 12 countries

Our Solution - Warehouse 2030

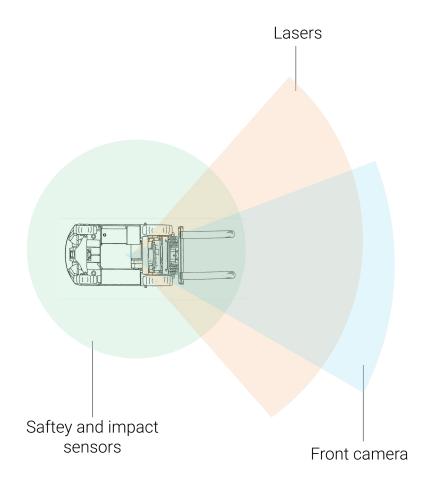


Hybrids





Hybrids



Customer Segments



Warehouses



Age: 25-50

Work: Warehouse Manager

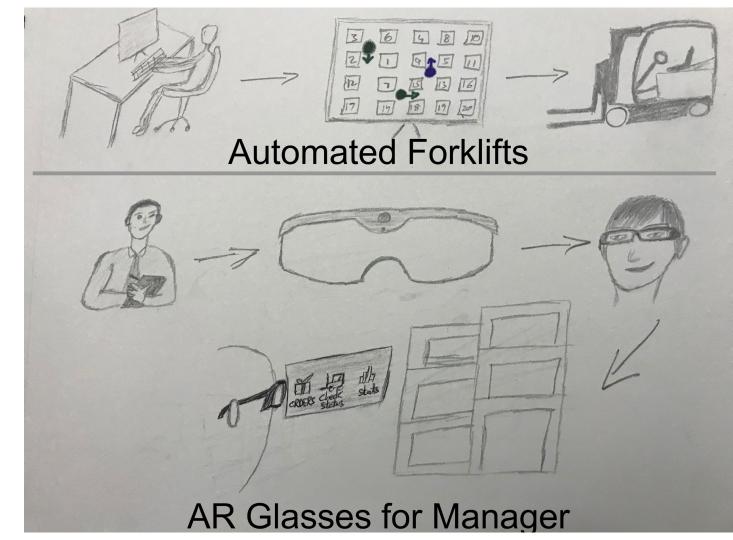
Storyboard

Automated Forklifts

- A controlling station will have warehouse map
- Control station will give commands to the forklift

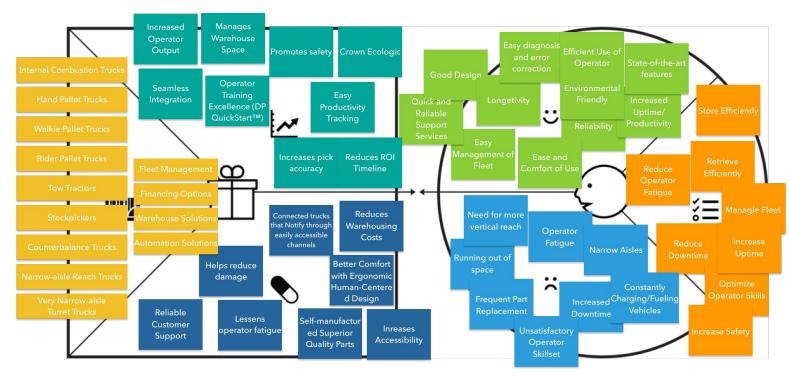
AR Glasses

- Manager will have AR glasses
- Manager can go around the warehouse to check all stats, and productivity



Value Proposition





Value Proposition









Automation



Sustainability Safety Save Time



Superior Quality

Channels









Website

Retailers

Customer Relationships



Personal Assistance

Automated services

Key Resources





- -Manufacturing plant
- -Manufacturing machines
- -Point of sales systems
- -Distribution network
- -Raw material



- -Infolink platform
- -Intellectual patents for

AGVs

-Massive financial support from the company



- -Human resource
- -Developers
- -Designers
- -Workers
- -Managers, etc

Key Activities





- -Development & manufacturing of AGV forklifts
- -Creating test environment
- -Testing those forklifts in test environment
- -Selling the new product line to the customers



- -Platform development
- -Design
- -R&D for intellectual properties
- -Filing for patents for AGVs
- -Massive financial support from the company









Automated driving forklifts

Google Glass

MYO Armband



- -Automated driving forklifts
- -Re-invent the automated wheel and delay or use existing resources.
- -Big companies like Uber, Google have either partnered or bought CMU department onboard.



- -Google Glasses
- -Glass EE is for industry workers in their workplace.
- -Big companies like GE, Boeing, DHL and Volkswagen have already started testing it in their workplace.



- -Gestures to access forklifts
- -If Crown wants this feature to be exclusive they can buy it or put clause in their contract.
- -Customized gestures for industry requirement.

Revenue Streams



Asset sale of the semi-automated vision guided forklifts or Renting forklifts





A cut from the Asset sale for providing more channels for Thalmic Labs



Asset Sale for initial set-up Subscription fee for additional features



A cut from the Asset sale of Smart Safety Glasses for providing more channels for

Cost \$tructure



Value Driven - Will never compromise quality, offers personalized services



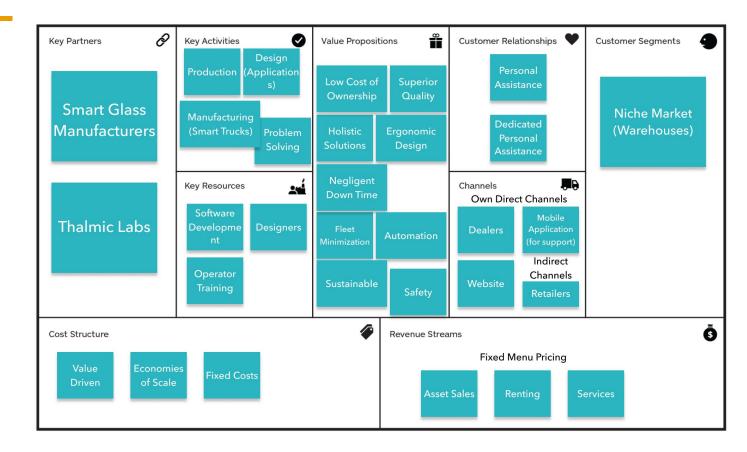


Fixed Costs - Manufacturing has mostly high proportion of fixed costs



Economies of Scale

Summary



With our Solution...



Is the warehouse a safer place?





Has the immense need for human resource reduced?





Has the cost of training and maintaining staff reduced?





Has the uptime increased?





Is there efficient fleet management?

