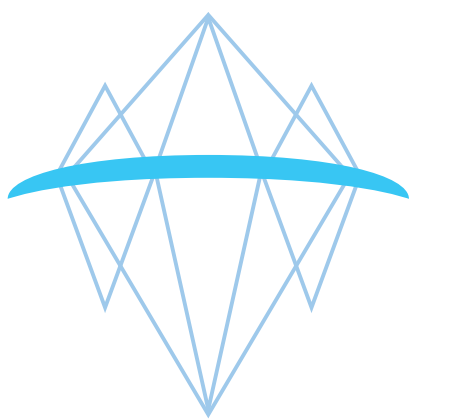


# Internet of Things Dashboard Design



# Design Team



**Matt Mahr**



**Catherine Babikian**



**Tasha Riedman**



**Travis Raymond**

# Iceberg IoT Team

John Dahlberg  
**FOUNDER**



Andrew Dahlberg  
**FOUNDER**



Iceberg IoT Team

# Fourth Industrial Revolution

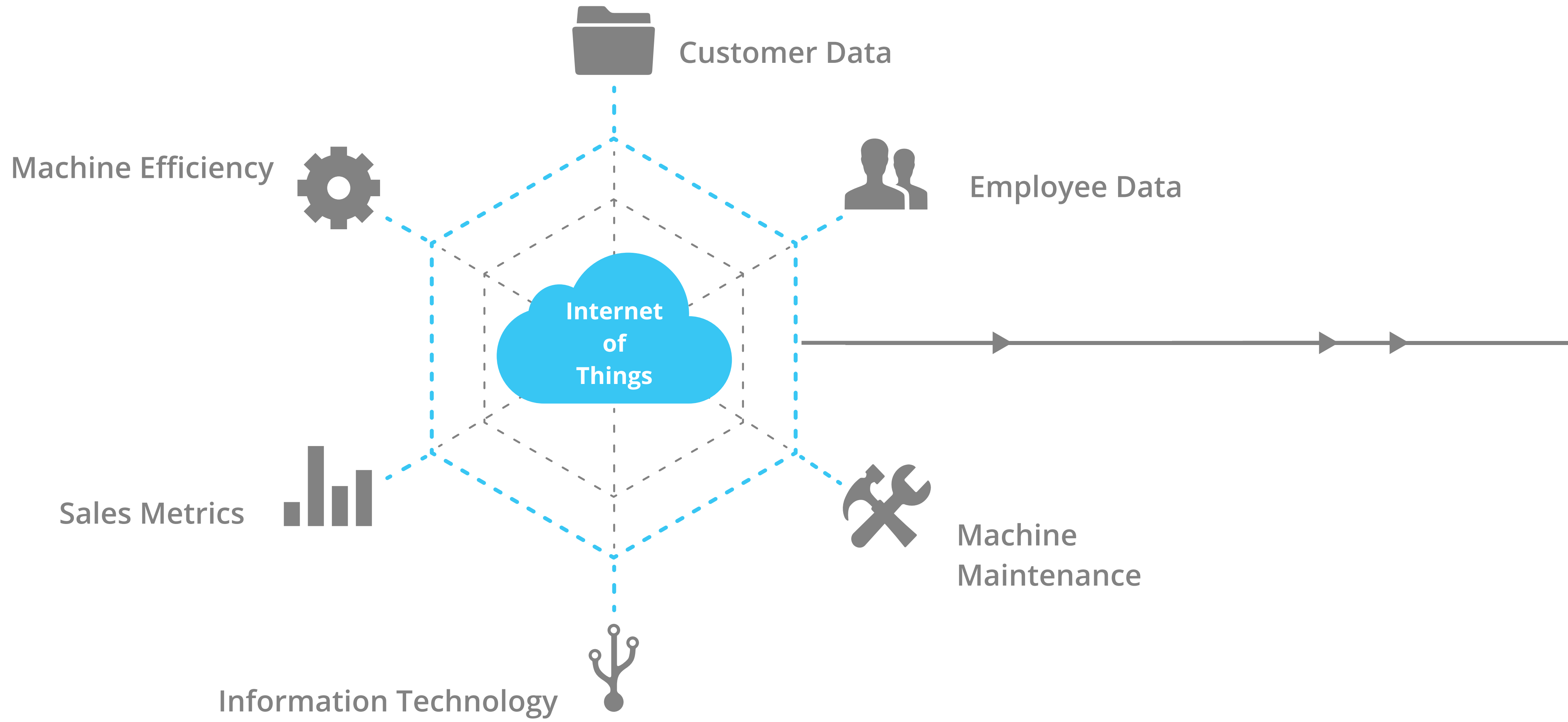
The Fourth Industrial Revolution is the ongoing automation of traditional manufacturing and industrial practices, using modern smart technology.

-Wikipedia

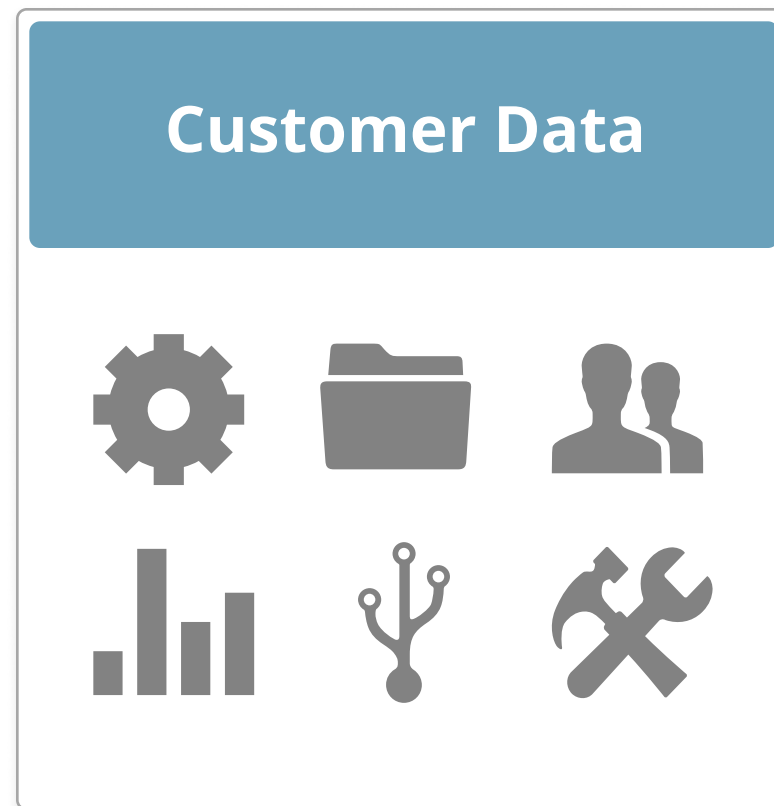


# What is IoT?

The Internet of Things (IoT) describes the network of physical objects—“things”—that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet.



# What is Iceberg IoT?

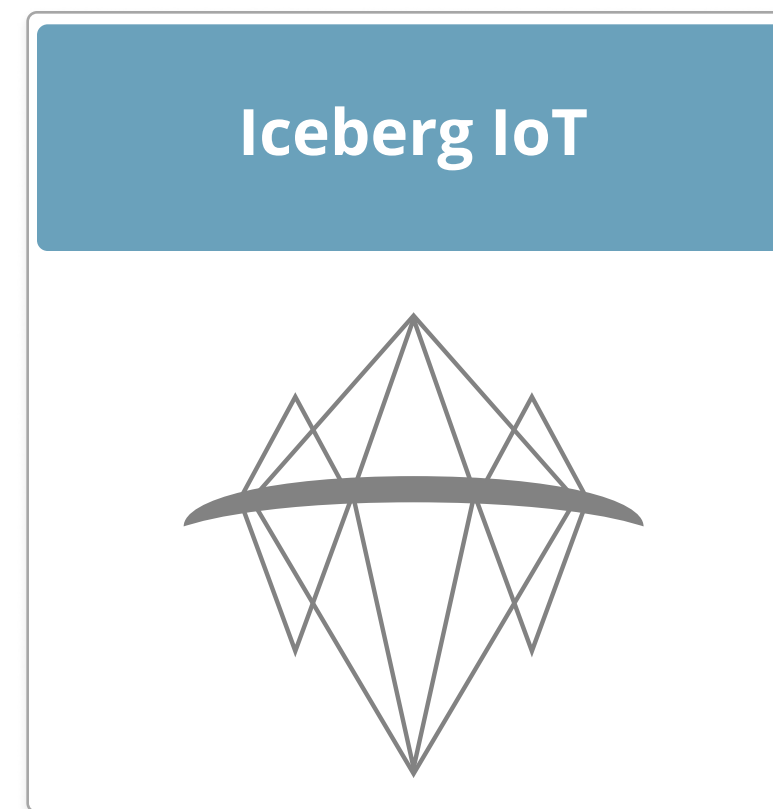


Collect and load  
telemetry data into  
the Iceberg system.

# What is Iceberg IoT?

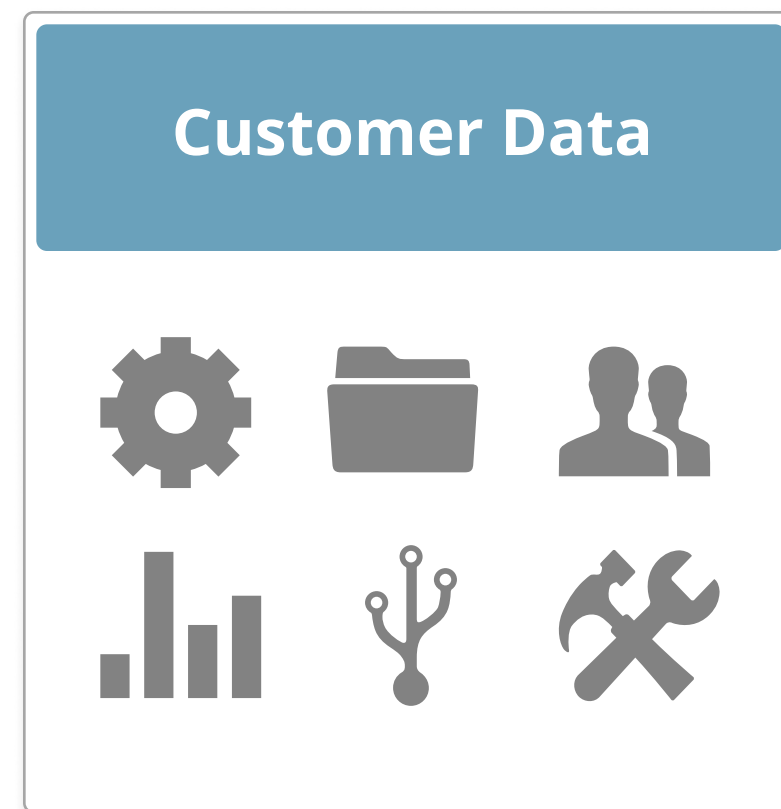


Collect and load telemetry data into the Iceberg system.

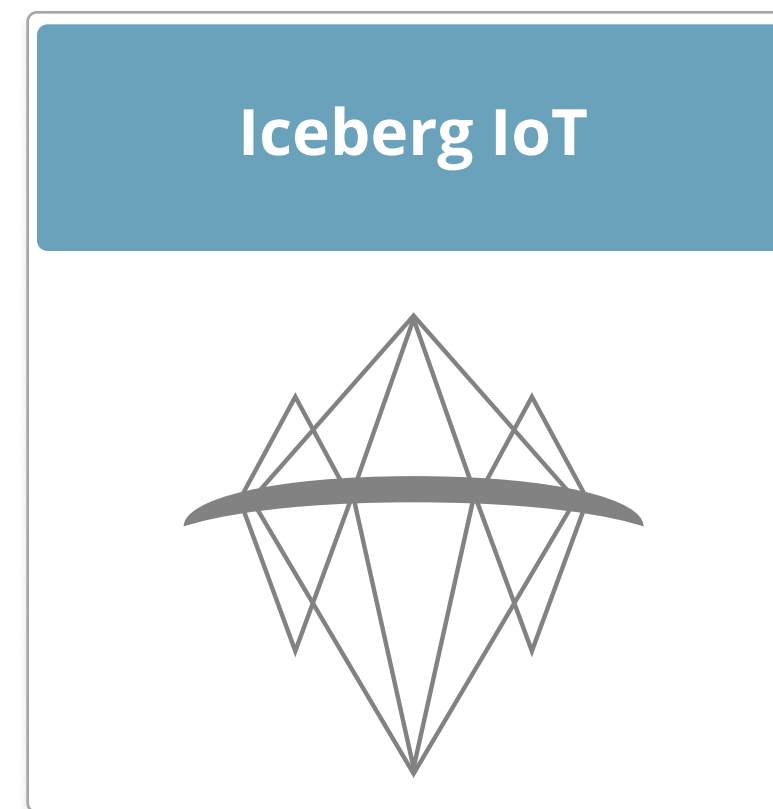


Run data through machine learning algorithms to drive business insights.

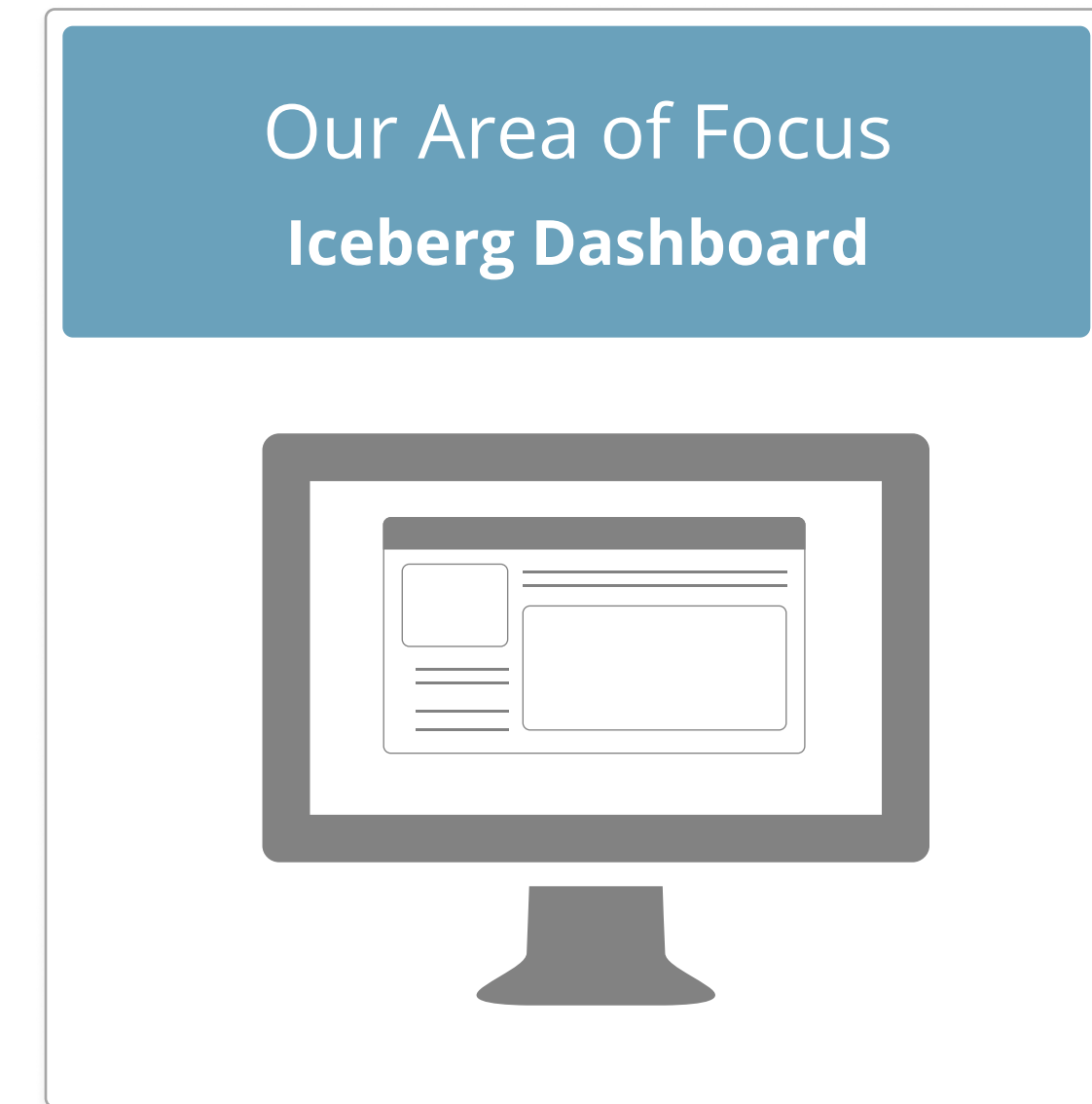
# What is Iceberg IoT?



Collect and load telemetry data into the Iceberg system.



Run data through machine learning algorithms to drive business insights.

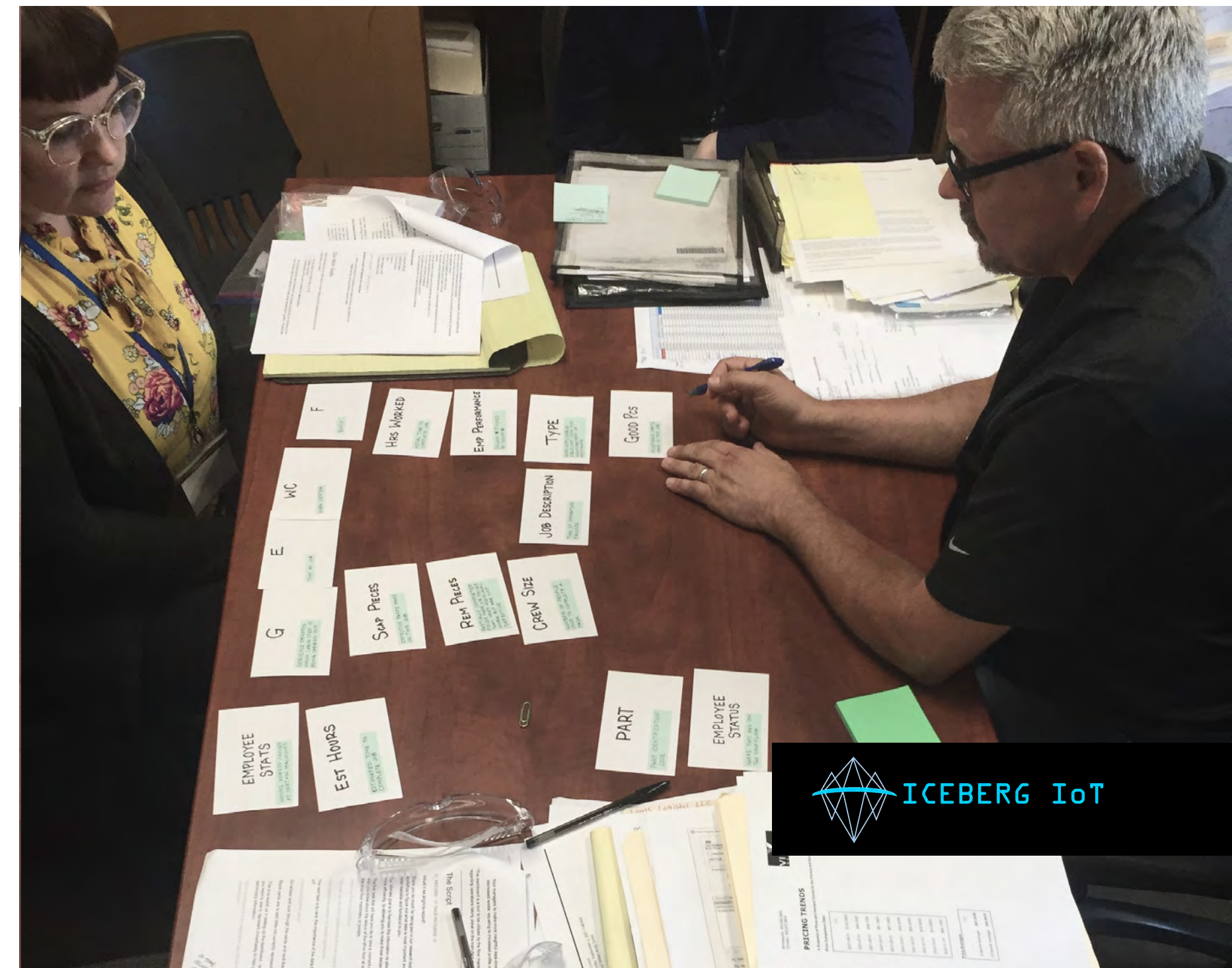
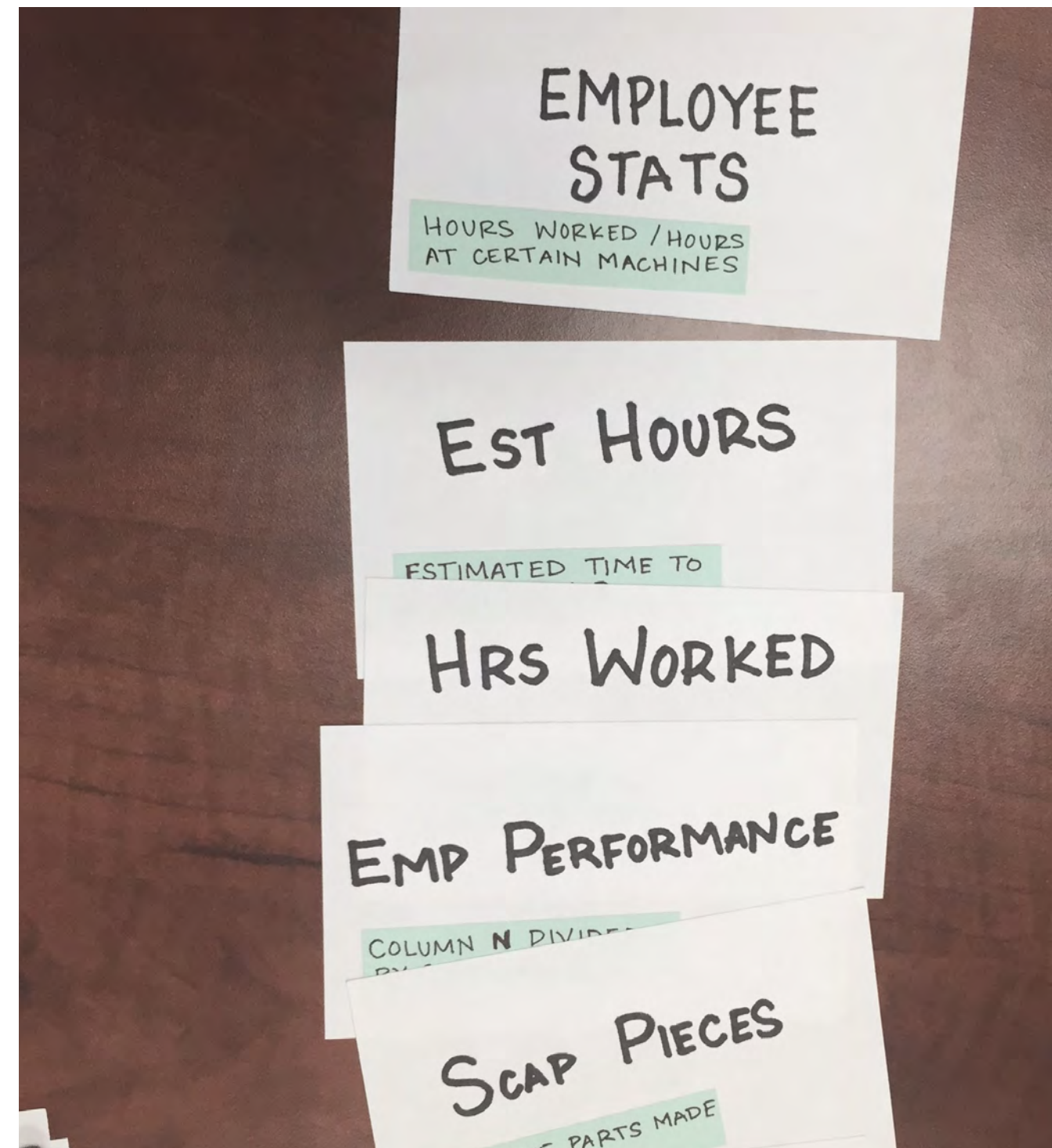


Data visualization displayed on an interactive dashboard for customer use.

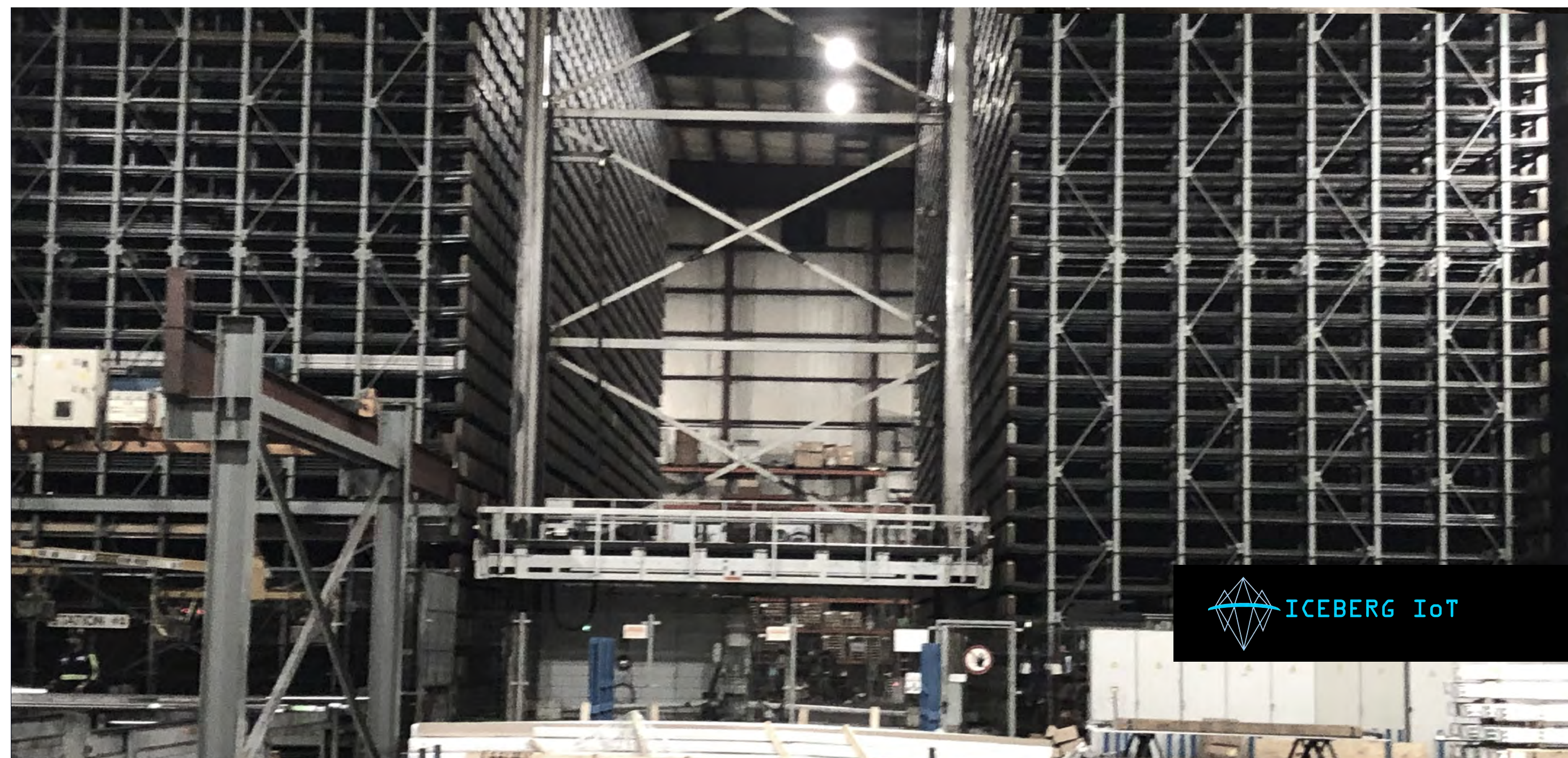
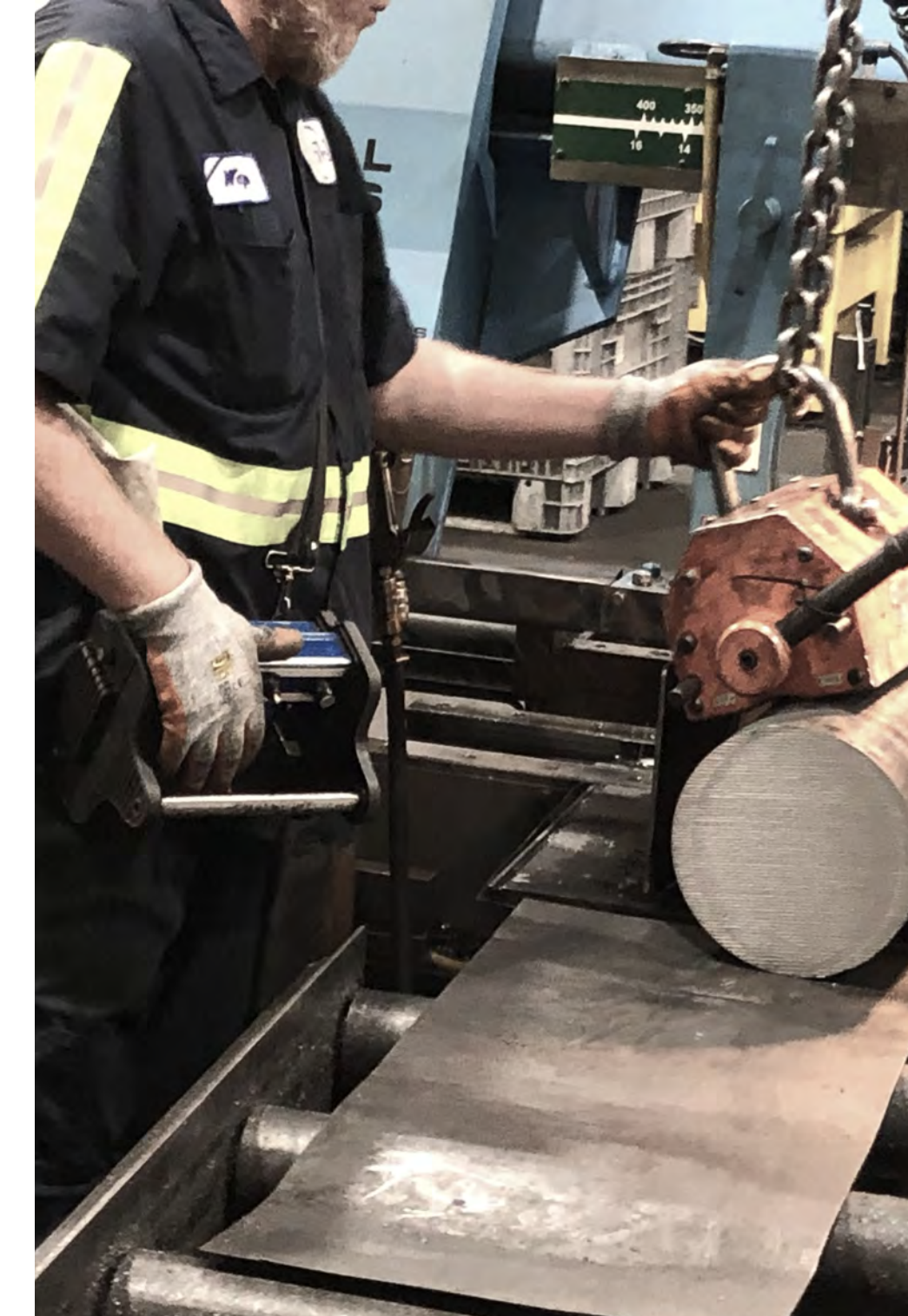


Managers Have Questions

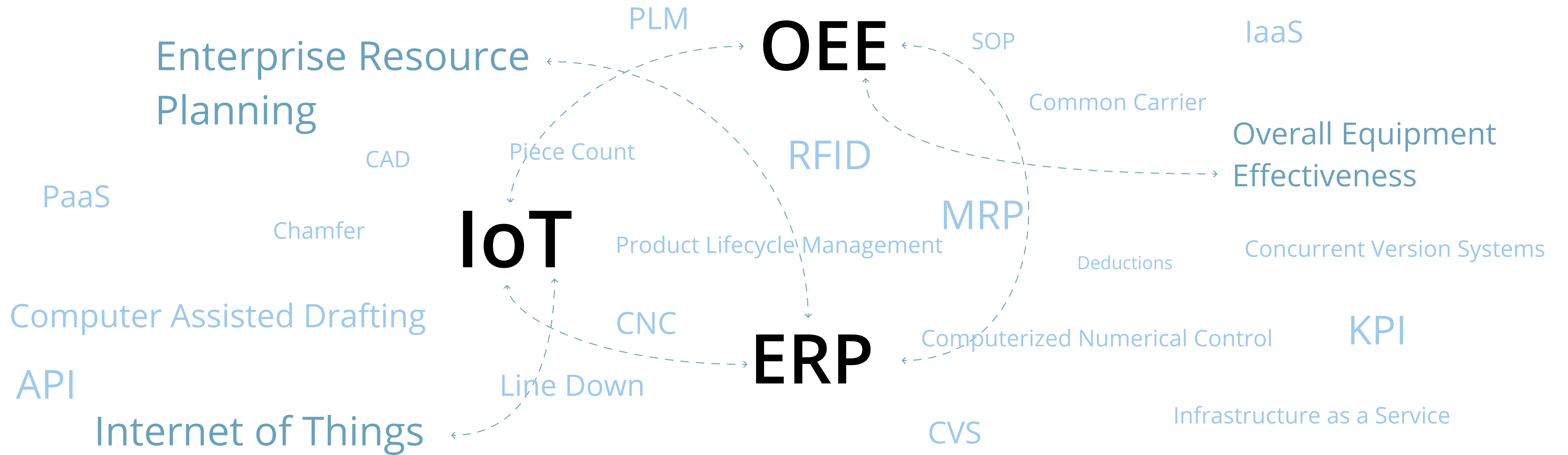
# Project Overview



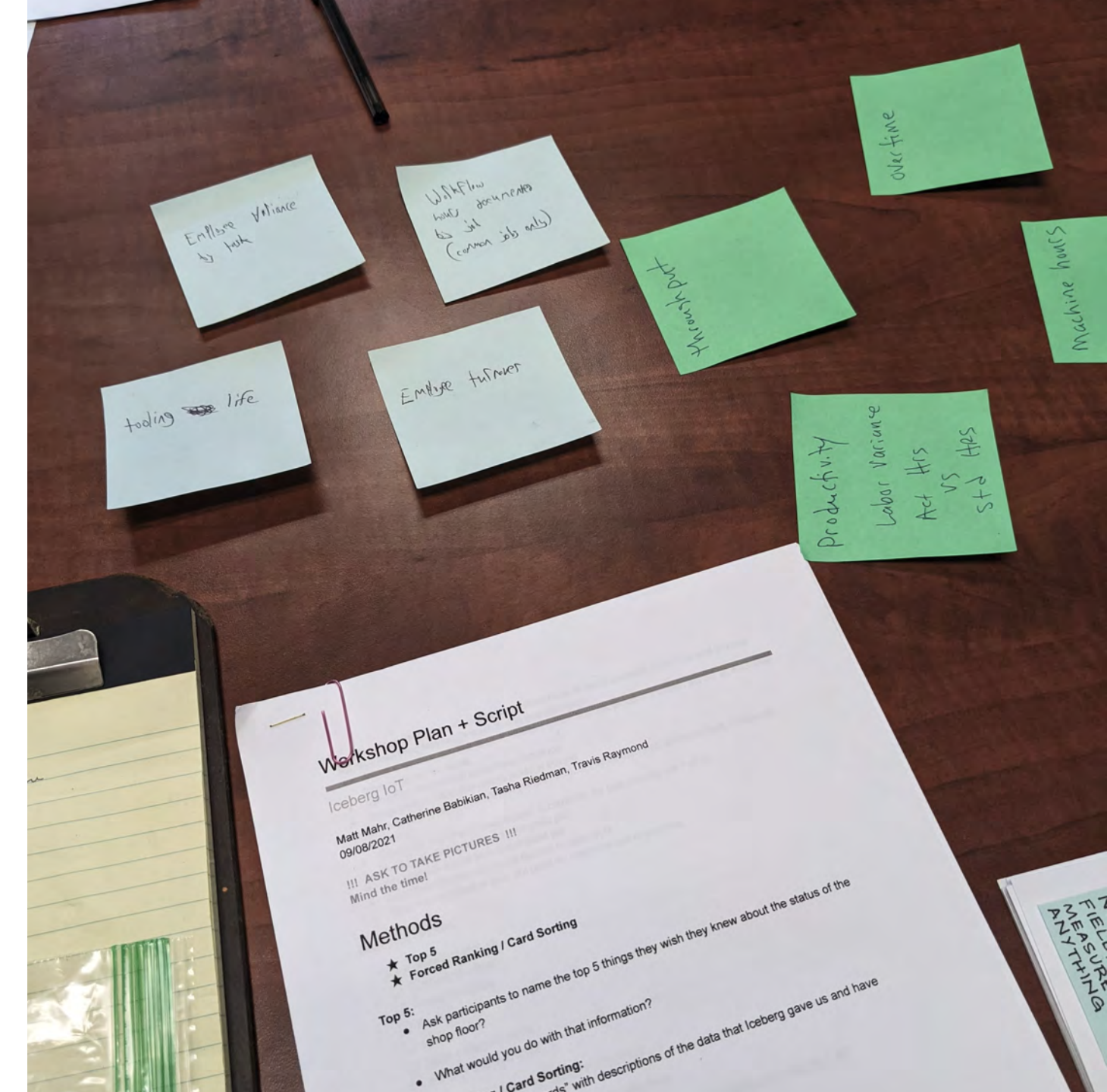
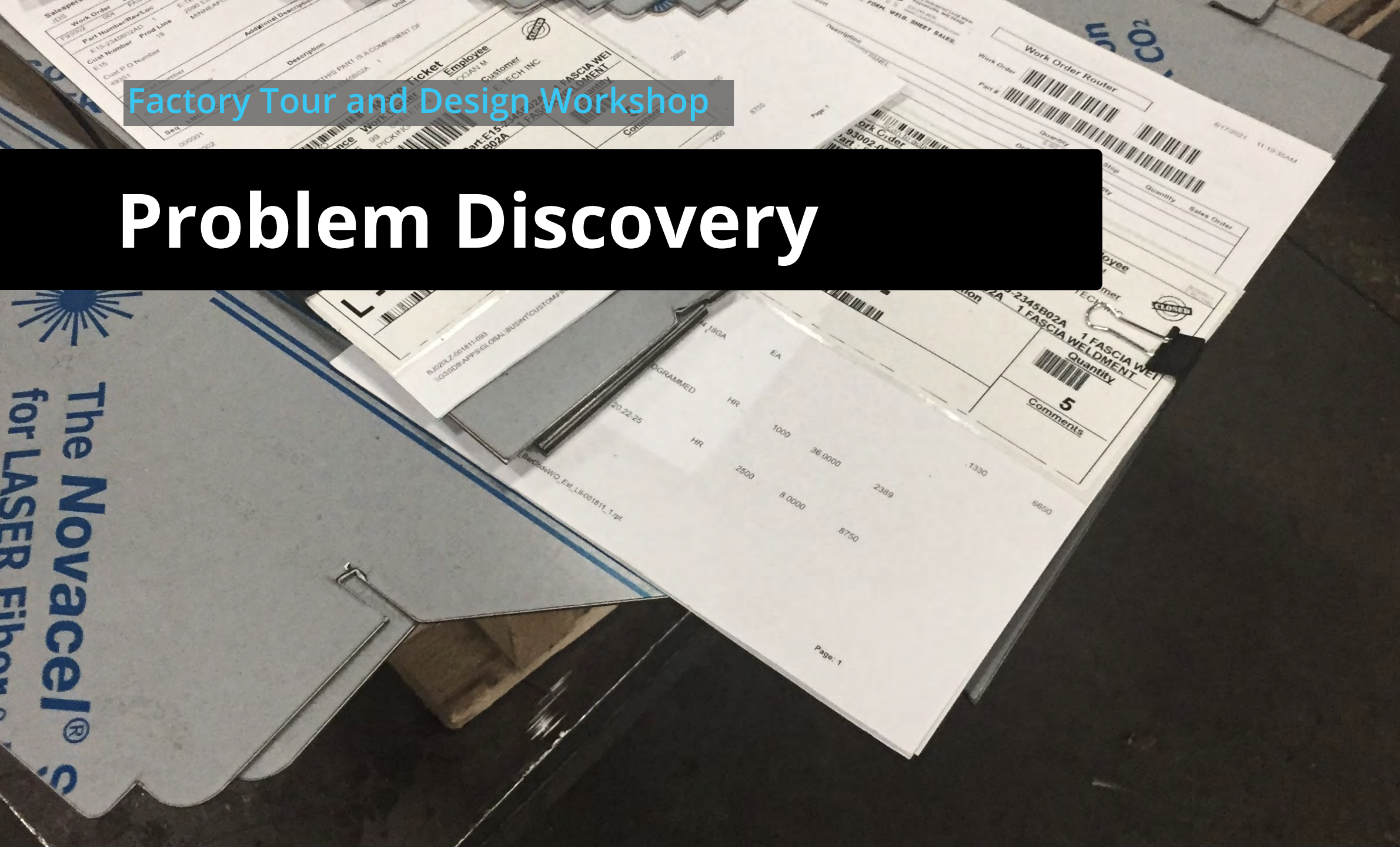
# Current Environment



# Research



# Problem Discovery



- cameras
- Save View
- by Name
- Hole Puch
- Aluminum Plate Saws
- Saw Cell 1
- Station 6
- Station 3
- FB
- asto-OGC
- asto-ogc
- Middle Bay South
- Middle Bay East
- w cell1-180
- er-180
- eco Technologies O2B2
- ont Parking South
- ont Parking North
- arking Drive 4 North
- ation 2
- orth gate
- orth parking
- reakroom 360
- M-Middle
- M-Outfeed
- M-Infeed
- CON V1020-WIR-180-1 ch
- CON V1020-WIR-180-1 ch
- CON V1020-WIR-180-1 ch
- CON V1020-WIR-180-1 ch
- ne Clock

“Usually I’m just putting out brush fires.”

-Manager



Current User Experience

# Improving the Experience

Order info F3 Cancel+Restore F7 Registration F10 Pre-Registration F8

Station 3 Shipping

Order# S822073 Line# 0001

Order# 1 525379 304/304L CF ANN BAR ASTM A479 1 Bar 289.00  
3 RD X 12' R/L 289.00 12.01

DSHIP OT PNK STP BRN TMCO INC  
HEAT: 701 S 6TH STREET  
MAX BNDL: 2,000 LINCOLN NE 68508

BUNDLE ALL SIZES SEPARATELY.

BCKT	DFU	LOCATION	HEAT	LBS	FT	PCS	REM	SIZE
REM	U	K-0793	K08N	154.3	6.4	1	6'	5"

[0] Record loaded

Compartment empty  Cassette

More Material

Package Type

[0] No valid data

(IA64) WIN System

WIN 00456 MASTER SALES ORDER MANAGER

Cust # 320914 Class 0 Cur USD Inv# Ord  
Name APLEQUIST MFG INC P.O. # P1403

Ln#	Item #	CommCd	Qty	Desc	#Cut	UOM	Qt
1	101376	ANX-UM	422	FT		FT	

Unit Price Per / Qty Ext Price  
8.2700 FT 3,491.10

Stg: PIKRFTRK Ordered Billed Unsched Sched Fut Dedt/  
Des: 1026 DOM SRA A513/S  
Siz: 1.250 OD X .812 ID (.219 W) X 20/24 R/L

[[Command], Help, End, [=]]

Reflection Warehouse - Win10

Ord/Ln#:

<dn> select order

U: 216Warehouses PW: 456Metals

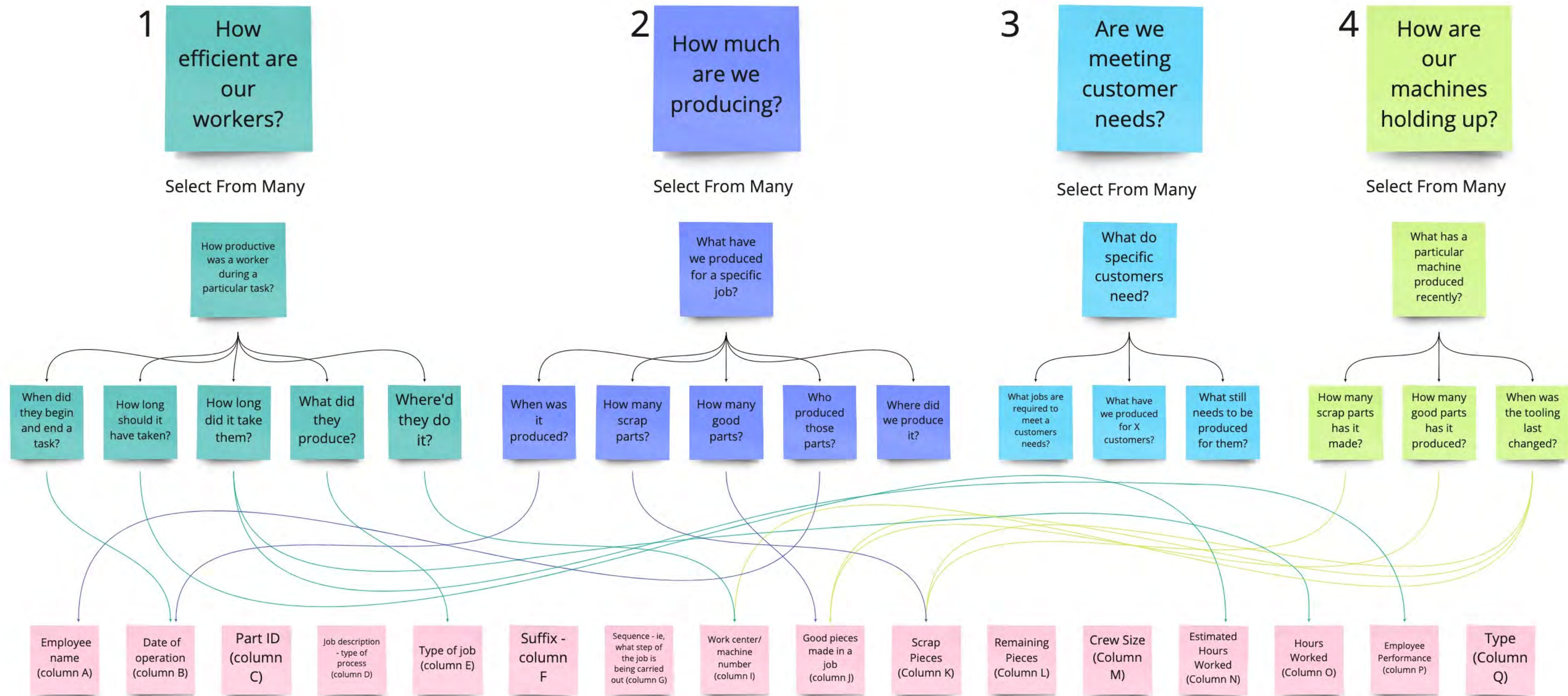
OMS Version 21.1.4

Freeds Route View 2.0mv

Order	Line	Item	Qty	Unit	Desc	Ship	Stage	Date	City
320914	1	101376	422	FT	ANX-UM	FT	Ordered	07-Sep-2021	CHARLOTTE
320914	1	101376	422	FT	ANX-UM	FT	Billed	07-Sep-2021	KANGAS CITY
320914	1	101376	422	FT	ANX-UM	FT	Unsched	07-Sep-2021	KANGAS CITY
320914	1	101376	422	FT	ANX-UM	FT	Sched	07-Sep-2021	KANGAS CITY

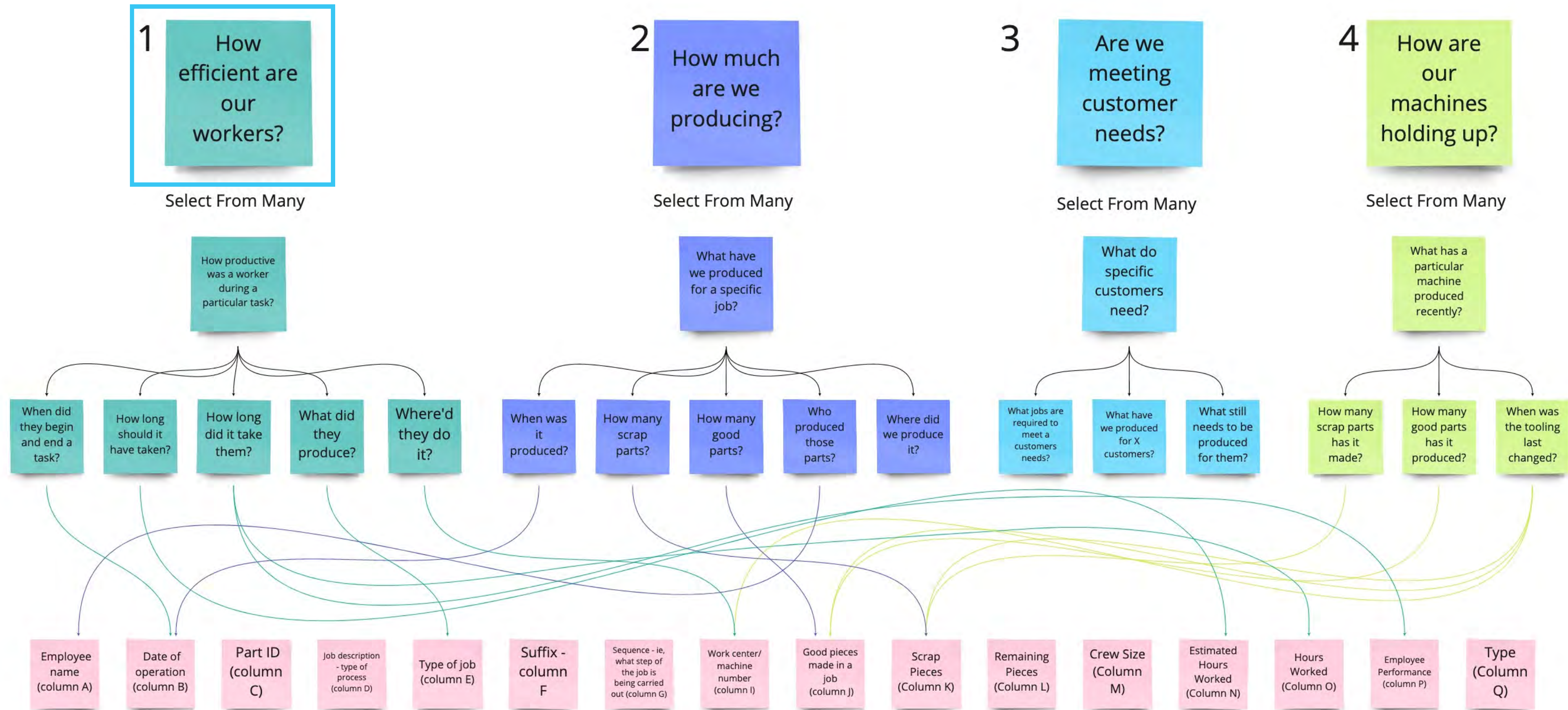
# Core Dashboard Questions

*"Things I wish I knew about my shop floor..."*



# Core Dashboard Questions

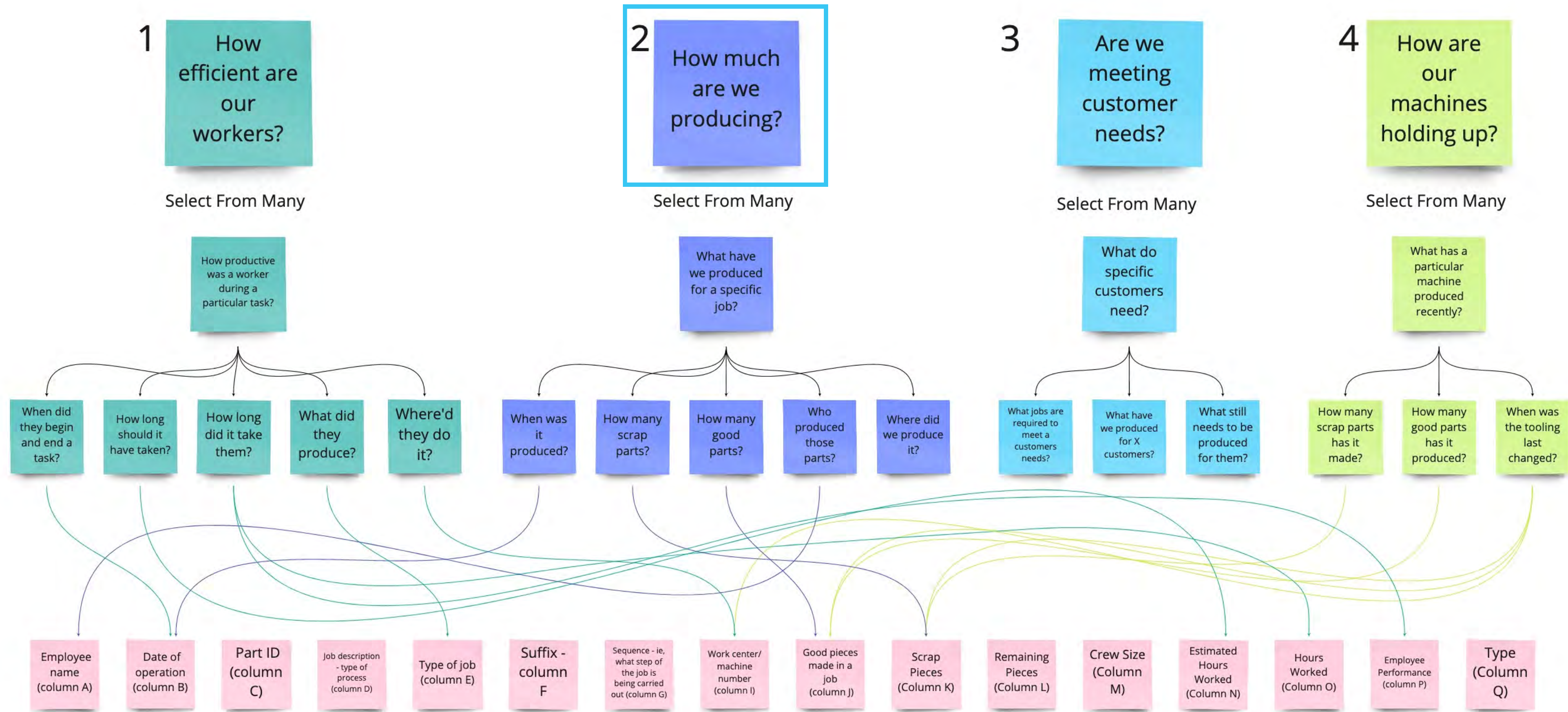
*"Things I wish I knew about my shop floor..."*





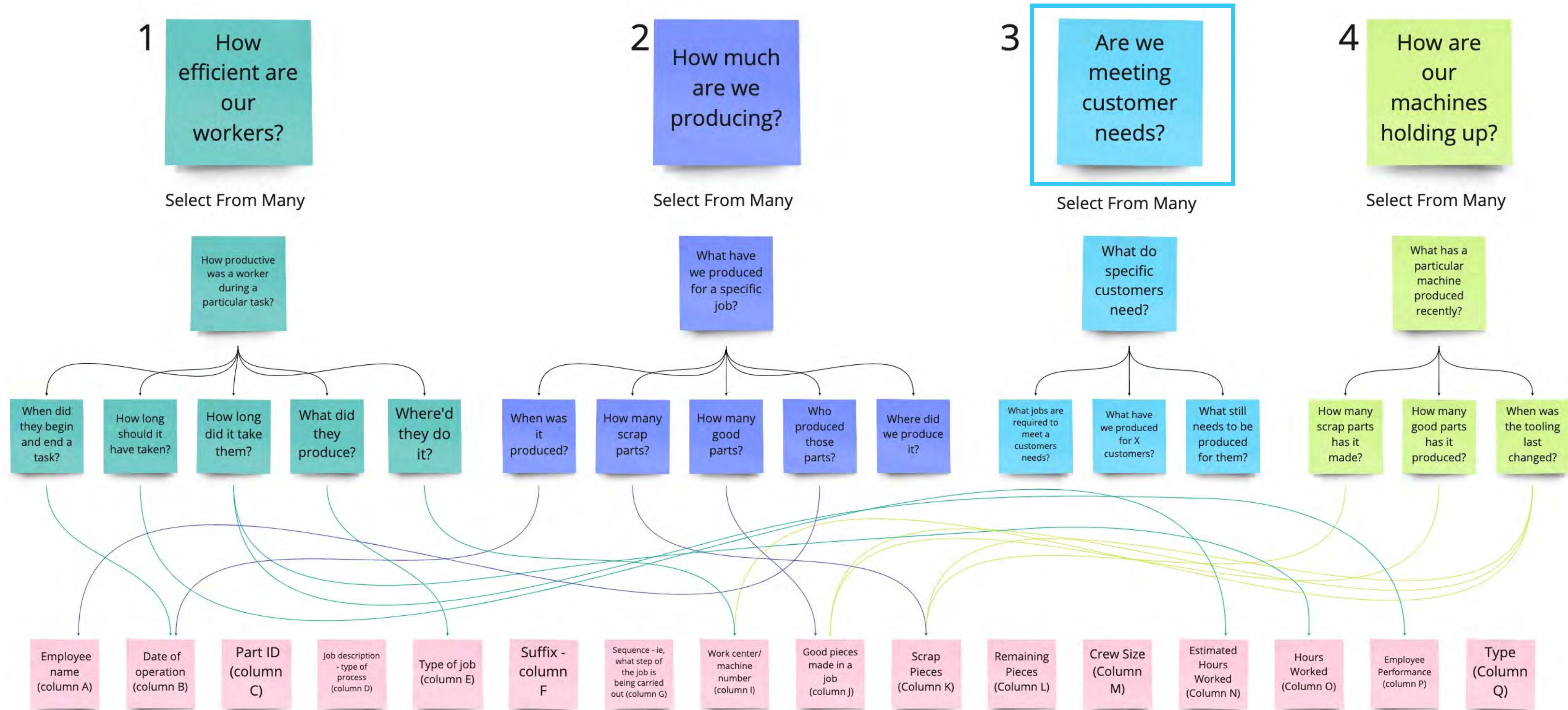
# Core Dashboard Questions

*"Things I wish I knew about my shop floor..."*



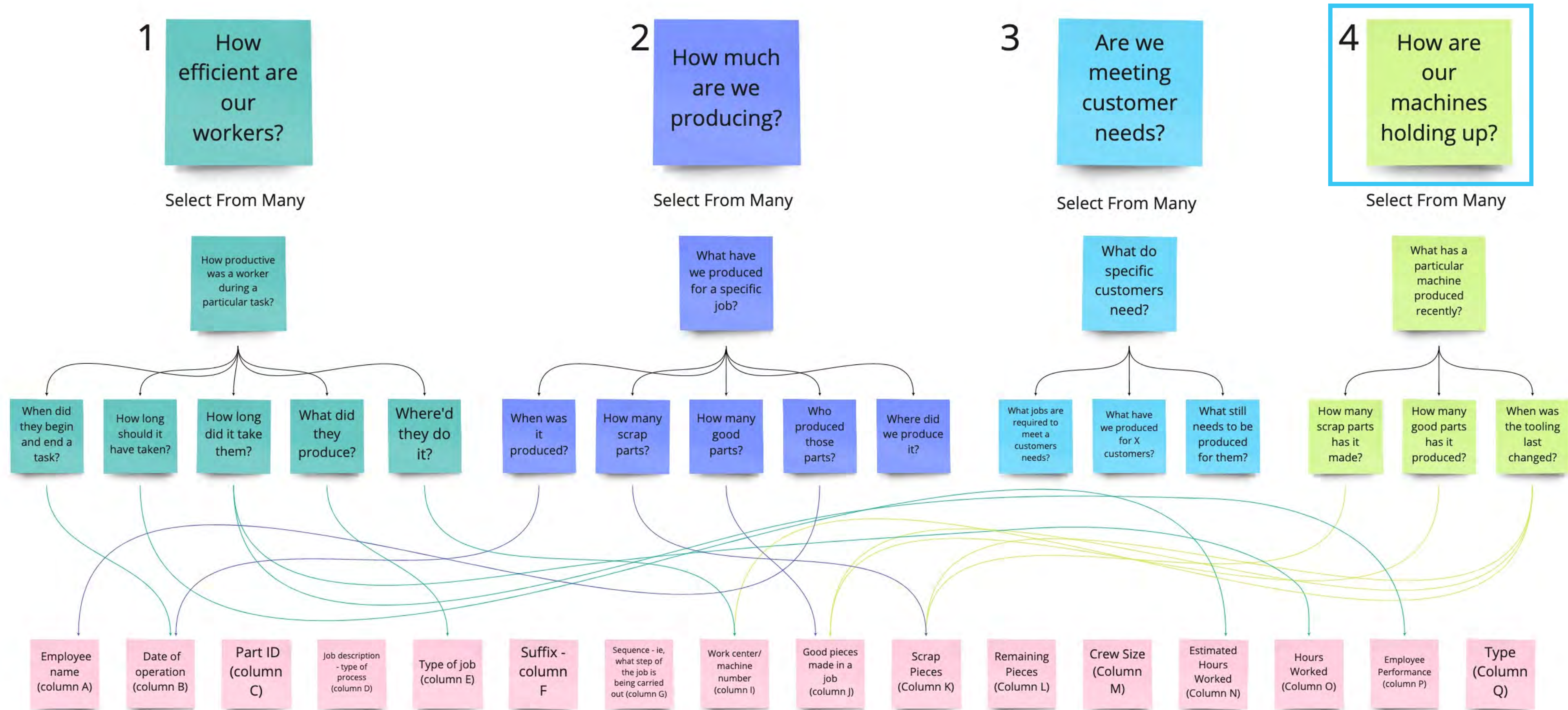
# Core Dashboard Questions

*"Things I wish I knew about my shop floor..."*



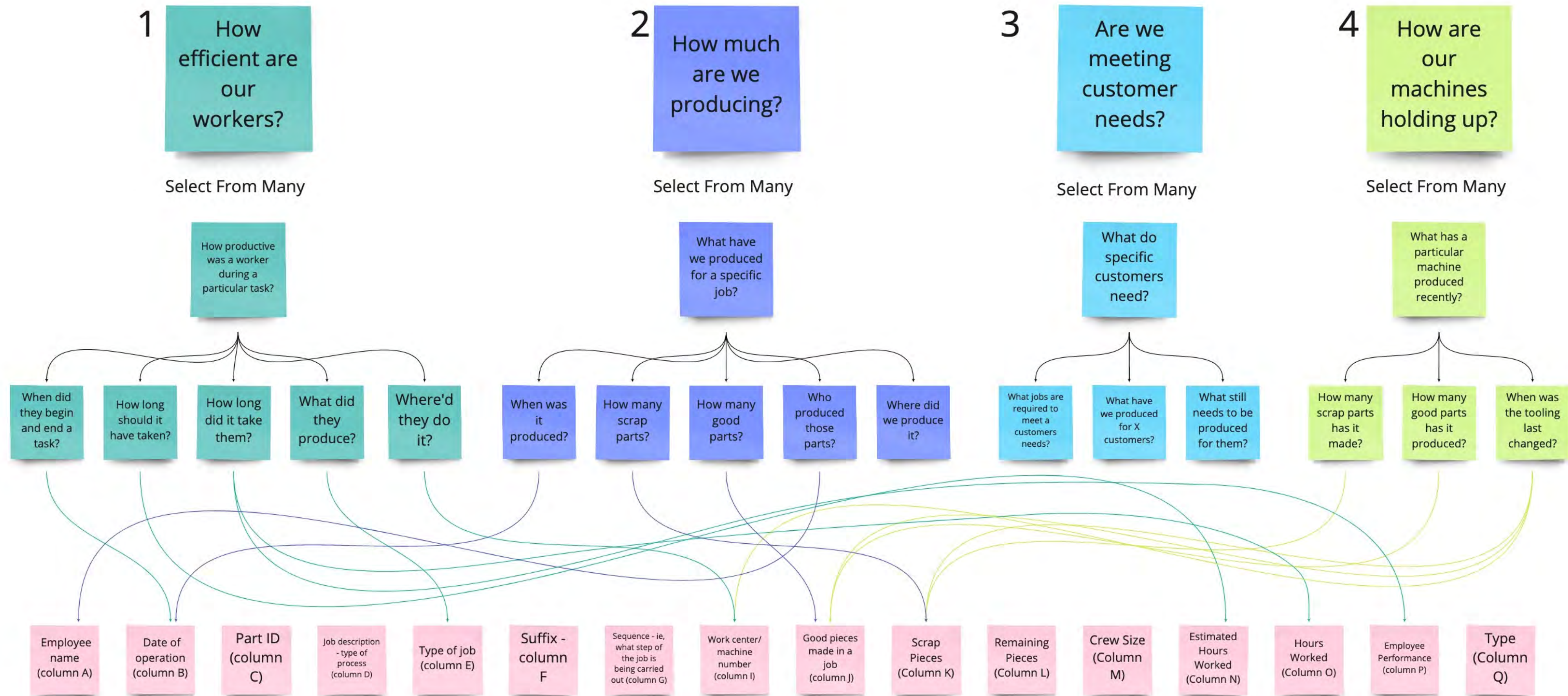
# Core Dashboard Questions

*"Things I wish I knew about my shop floor..."*



# Core Dashboard Questions

*"Things I wish I knew about my shop floor..."*



# Solution Space



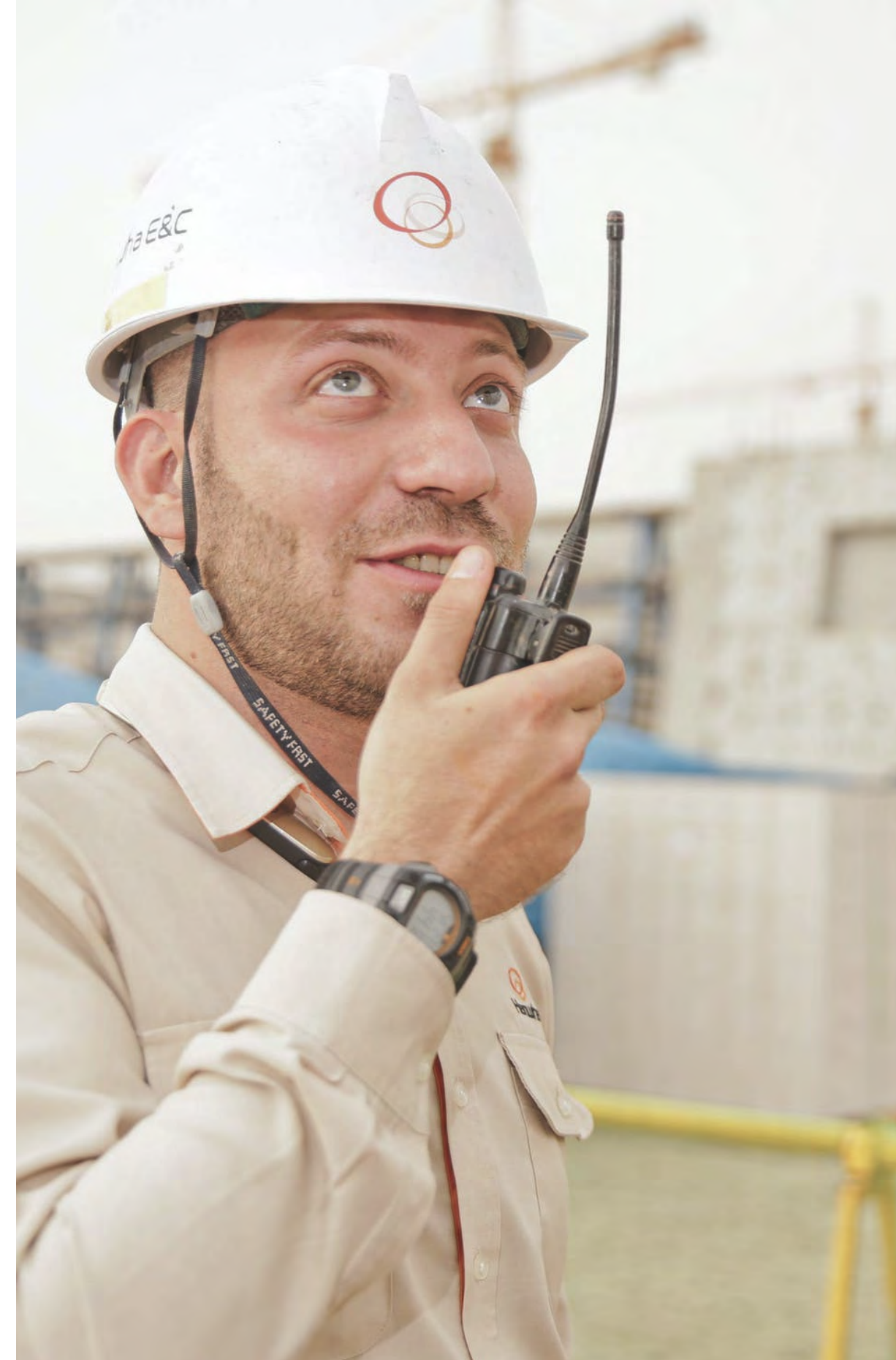
## James

Operations Manager

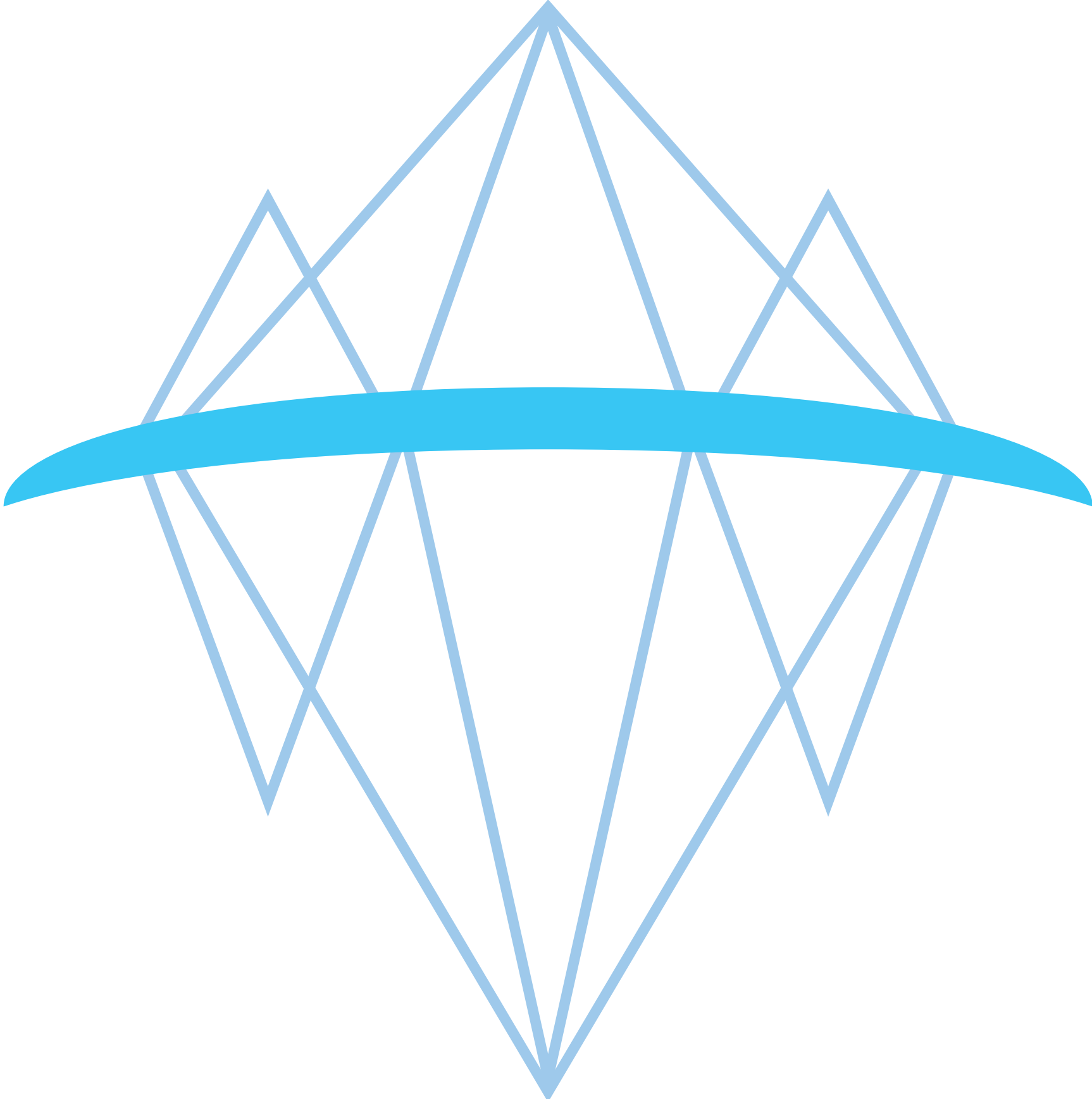


## Samantha

Assistant Operations Manager



# Demo



# Summary of Solution



Thank You

Iceberg IoT, thank you!



# Future Considerations



# Design Team



**Matt Mahr**

[www.matthewmahr.com](http://www.matthewmahr.com)



**Catherine Babikian**

[www.catherinebabikian.net](http://www.catherinebabikian.net)



**Tasha Riedman**

[www.tashariedman.com](http://www.tashariedman.com)



**Travis Raymond**

[www.travisraymond.com](http://www.travisraymond.com)

**Thank You**

