

Innovation Doesn't Have To Be Disruptive To Make A Difference: 3 Small Steps Toward Improving Your Operation

Presented by:

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Senior Product
Line Manager



POWERED BY **POSSIBILITIES.**

SIEMENS



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That Was Then, This Is Now

Who could have predicted such a dismal end to the BlackBerry story, given that it was selling 50 million phones a year as recently as 2011.



THE BEST WAY
TO PREDICT
YOUR FUTURE
IS TO
CREATE IT.

...

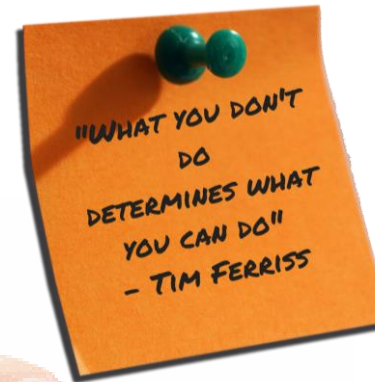
Abraham Lincoln



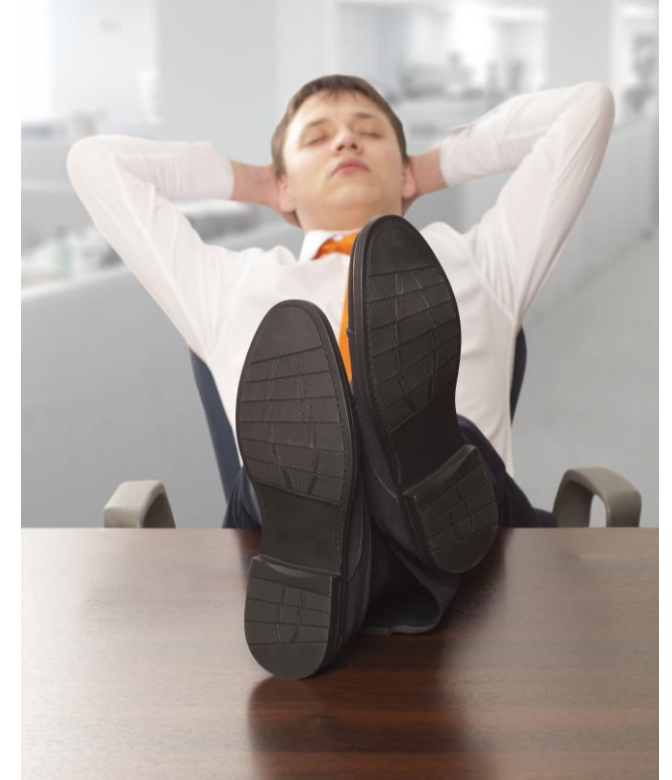
Examples Of What *Not* To Do



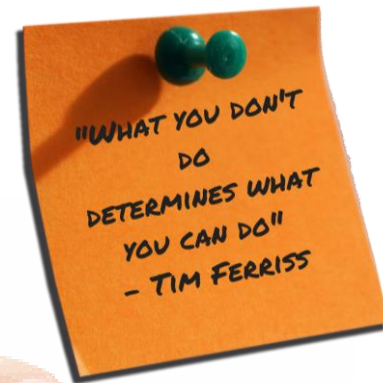
NOT TO DO LiST



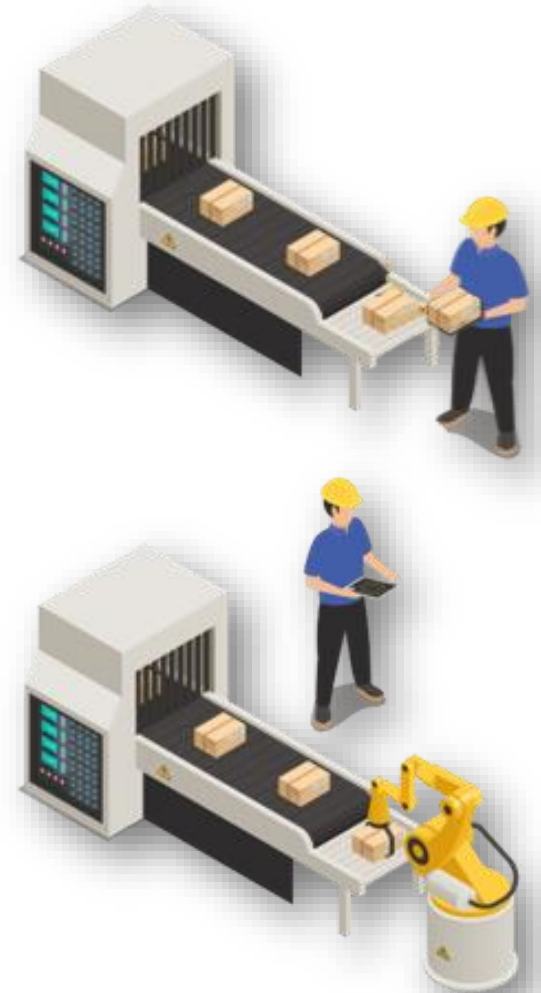
1. *Nothing*
- 2.
- 3.



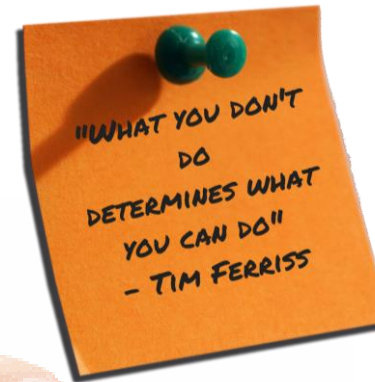
NOT TO DO LiST



1. *Nothing*
2. *Not Enough*
- 3.



NOT TO DO LiST



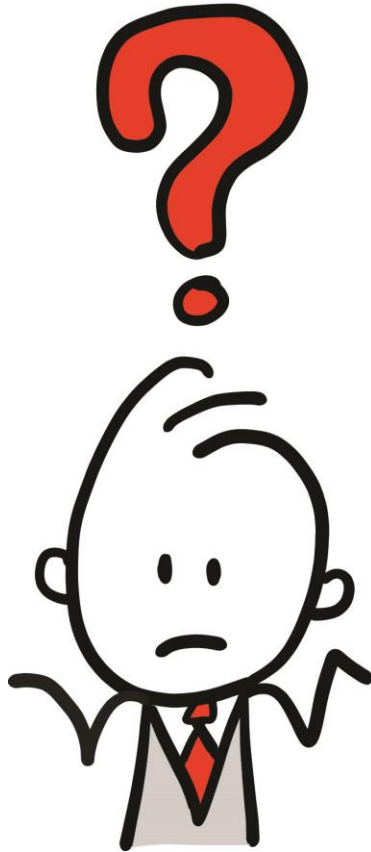
1. *Nothing*
2. *Not Enough*
3. *Too Much*

AGV
AI
IoT
Cloud
Machine Learning
Nanotechnology
Robotic
SaaS
Synergies
Paradigm Shift
Self Driving
Lights Out
Blockchain
5G
Drone

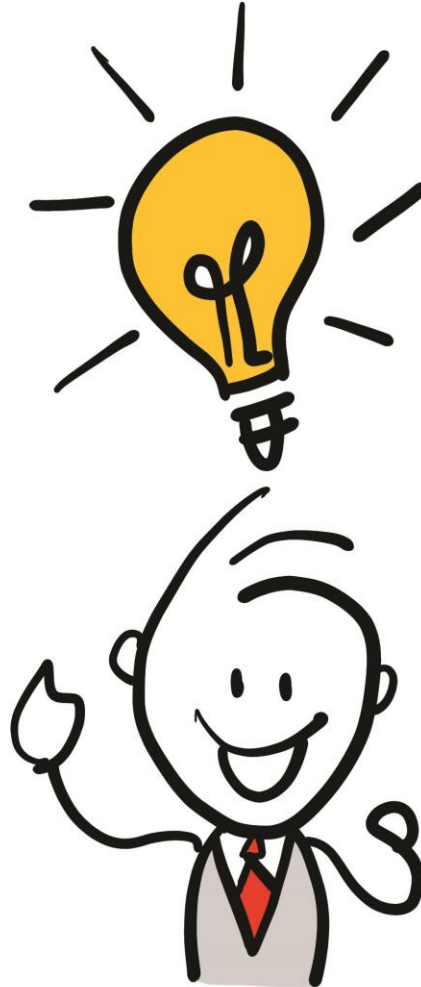
So What *Will* Work? Three Easy Steps...

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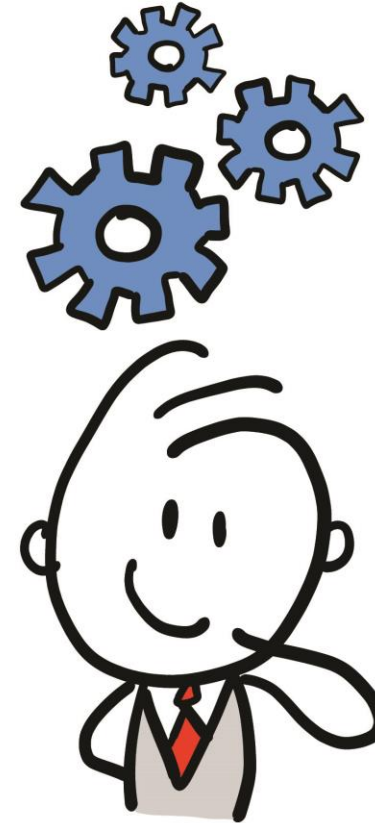
Identify



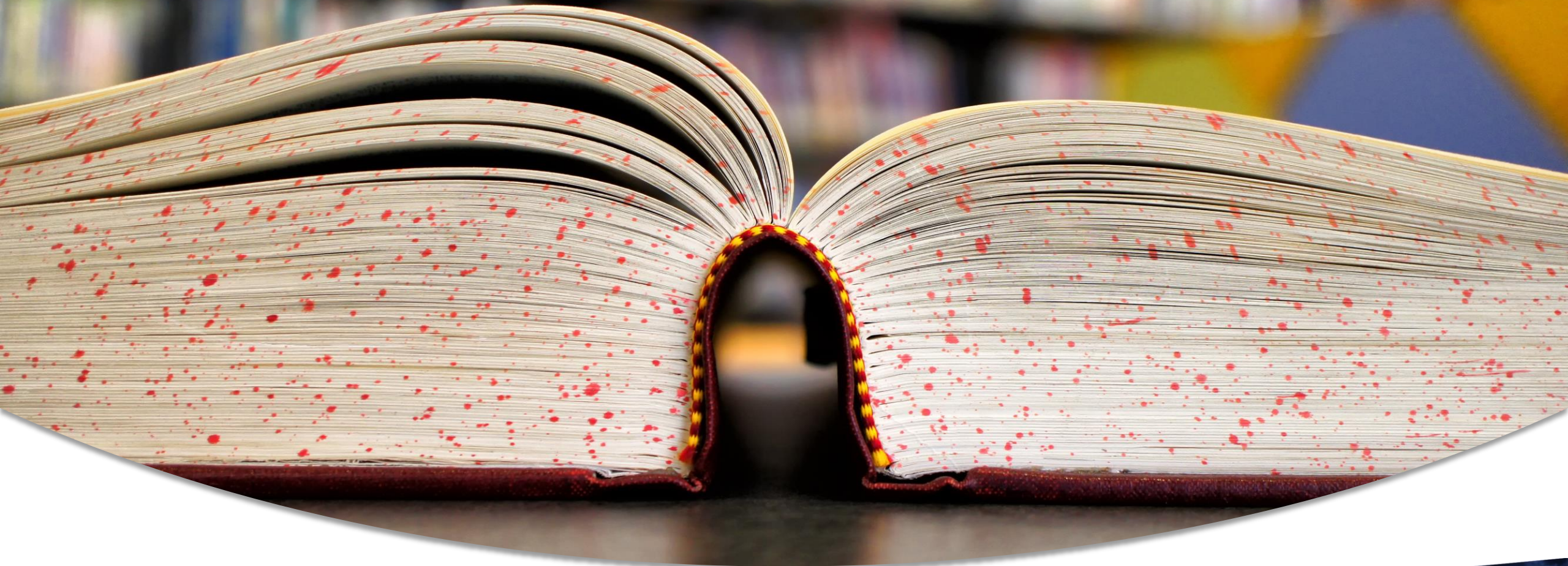
Innovate



Implement



Case Study



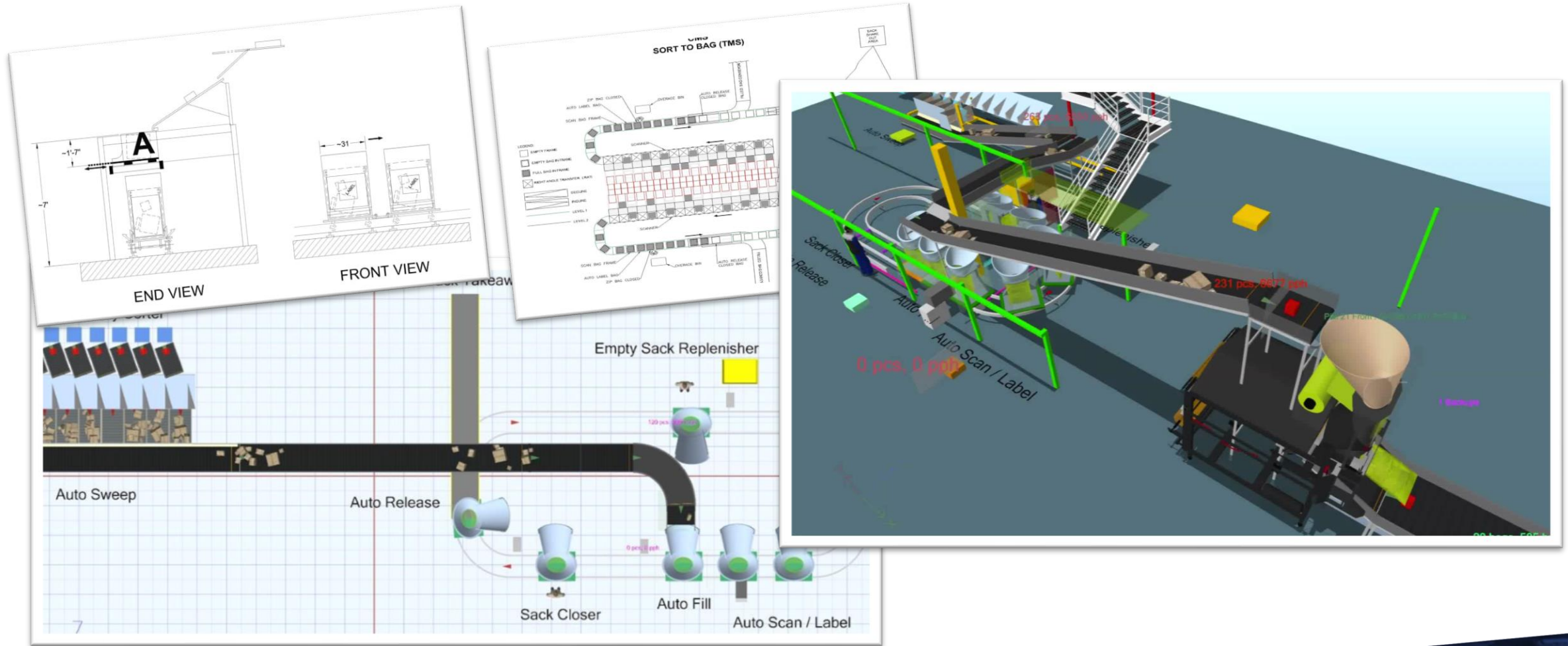
POWERED BY POSSIBILITIES.

Identify



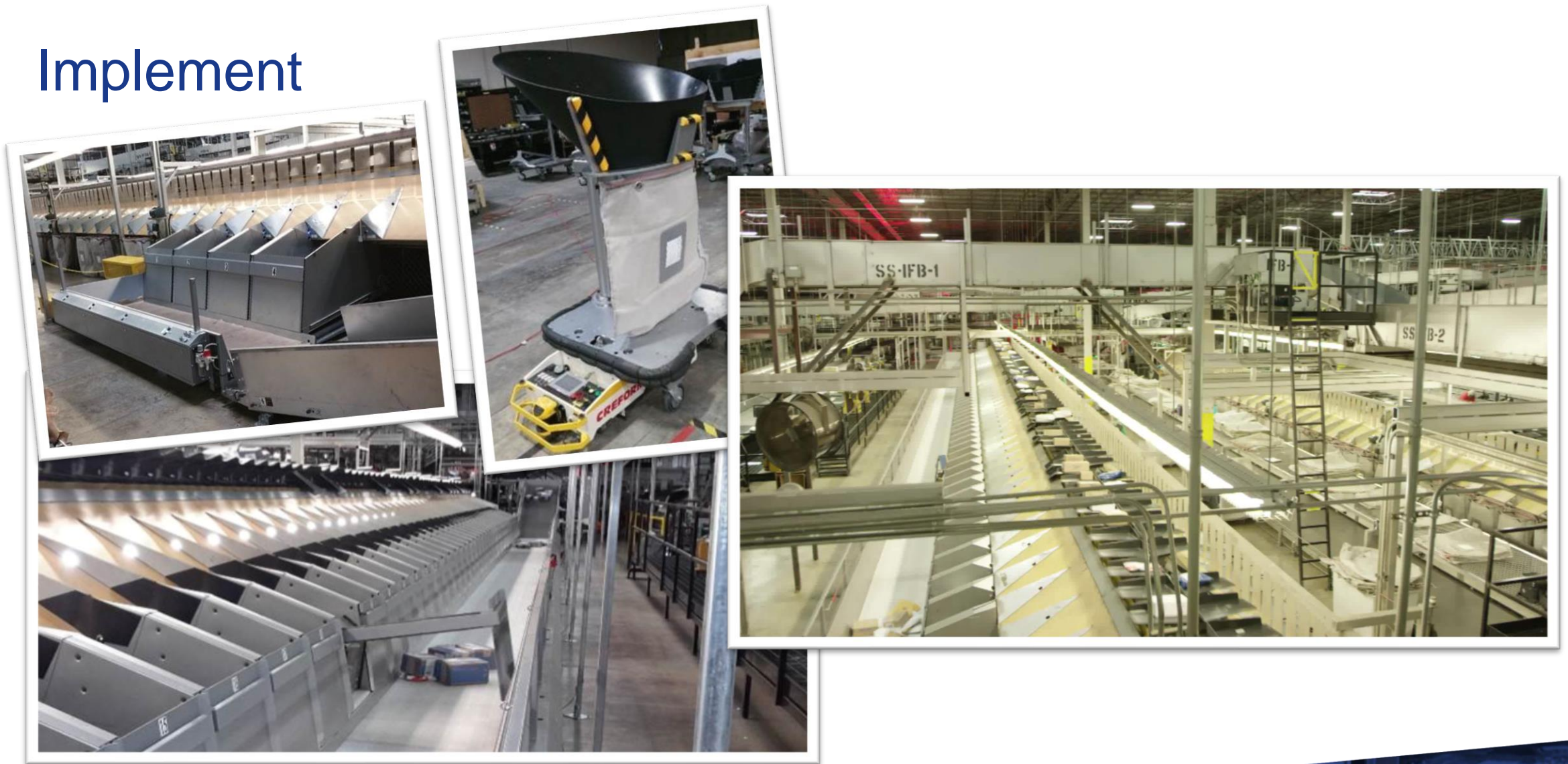
Sack Rates - Linear Sorter	Units	Value
Sorter processing throughput	pcs/hr	11,500
Average sack content	parcels/bag	10
Number of sack-line sides per sorter	sides/sorter	2
Sorter travel speed	ft/min	320
Pitch of sorter parcel compartments	in/parcel	28
Pitch of discharge outlet sack stations	in/outlet	30
Number of sort destinations per sorter	outlets/sorter	300
Number of sort destinations per side	outlets/side	150
Time between parcels on the sorter	sec/parcel	0.3
Throughput per outlet	pcs/hr/outlet	38
Sorter speed, inches per second	in/sec	64
Avg. number of full sacks produced per sorter each hour	sacks/hr/sorter	1,150
Avg. number of full sacks produced per side each hour	sacks/hr/side	575
Avg. number of full sacks produced per outlet each hour	sack/hr/outlet	4
Minimum time between successive parcels at a given outlet	sec/parcel	0.4
Avg. time between parcels at any given outlet	sec/parcel/outl	94
Avg. time for filling a sack at any given outlet	sec/sack	939
Avg. time between full sacks, per sorter	sec/sack/sorter	3.1
Avg. time between full sacks, per side	sec/sack/side	6.3
Minimum time between full sacks at any given outlet	sec/sack/outlet	4
Length of sorter outlet sack line, per side	inches/side	4,500
Travel time of sorter, from beginning to end	sec/sorter	70
Number of sacks filled per side while the sorter travels its full length	sacks/side	11

Innovate



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Implement



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