

Rethinking the mailbox: ***Postal e-commerce opportunities by adding intelligent delivery to direct and data driven marketing***

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October 16th, 2019

Posts Enable And Enrich Communications & Commerce

Postal Customers (Mailers)

Consumers



Communications

Transactions: Bills, Statements
Promotions: Coupons, Inserts

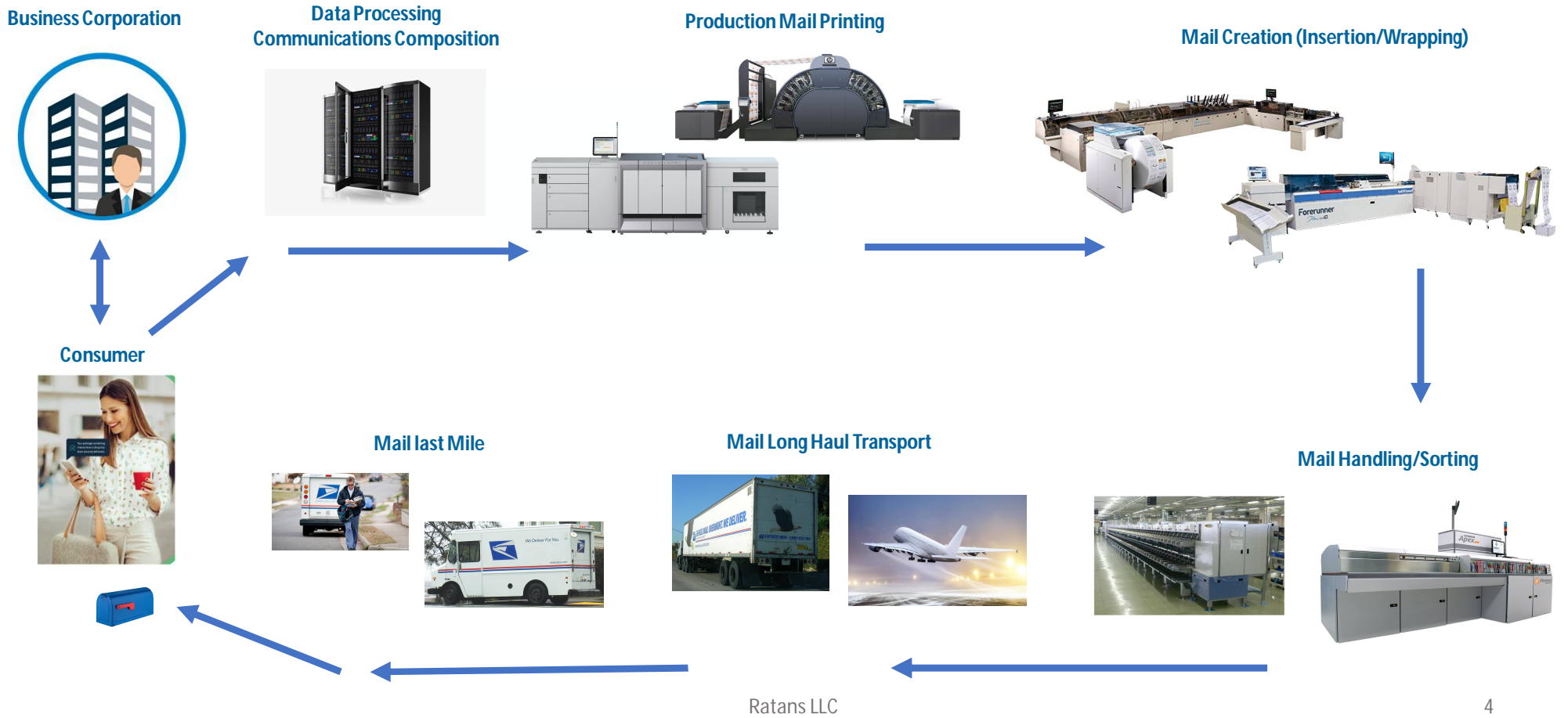
Physical – Digital

Commerce

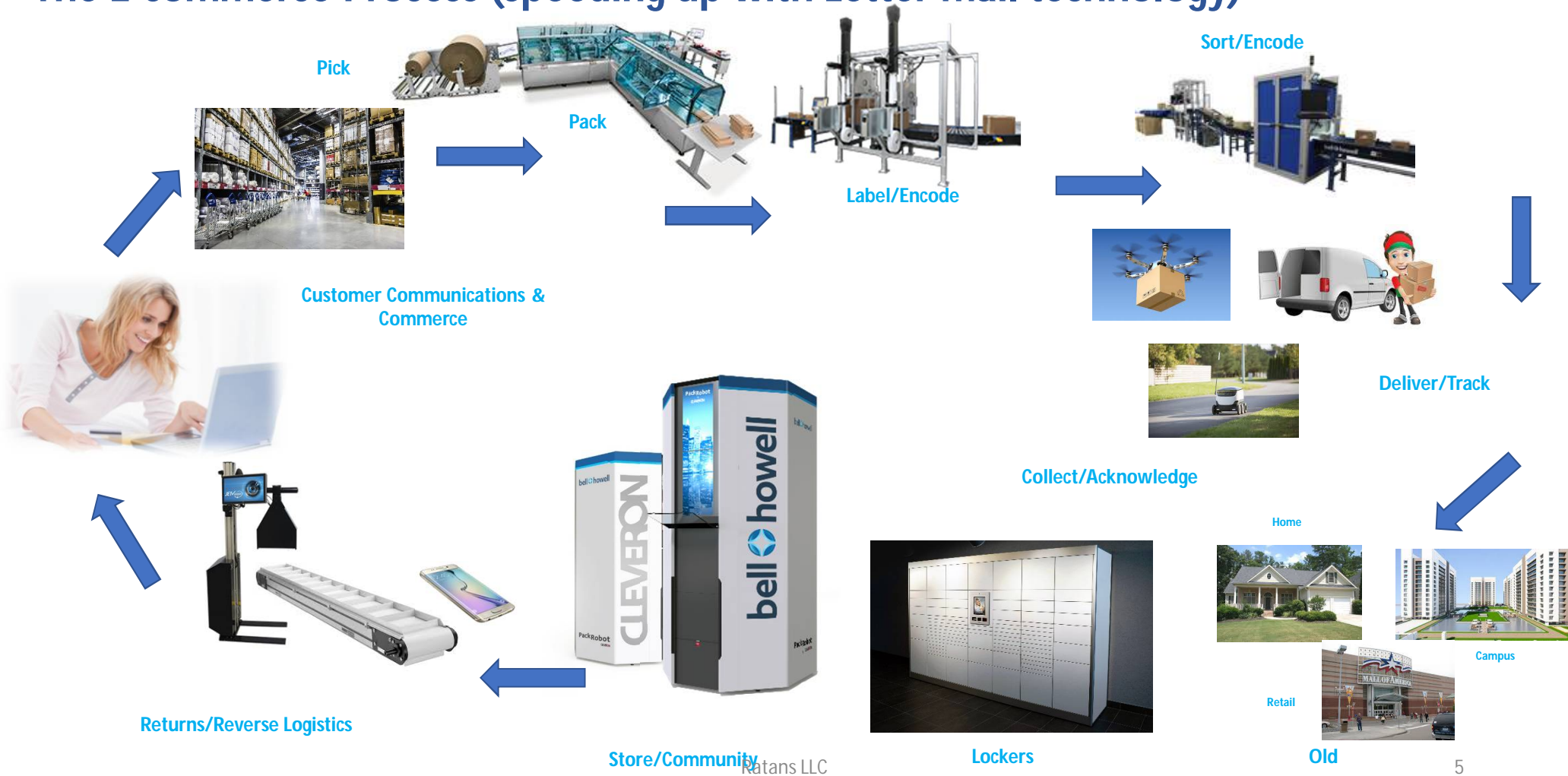
Payments, Remittances,
Package, Labeling, Sorting,
Tracking, Delivery



The Direct Mail Communications Process



The E-commerce Process (speeding up with Letter mail technology)



Retail Click-and-Collect Bell & Howell Success Story

Walmart

5 PackRobots in 2016

Customer Experience – +500 bps in NPS

Associate Experience - ++

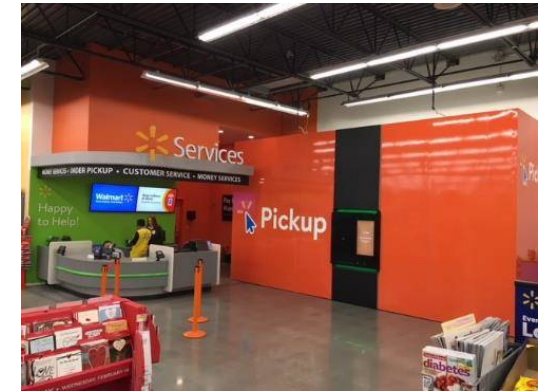
107 PackRobots/Combos in 2017

500+ PackRobots/Combos in 2018

1000+ PackRobots/Combos in 2019



PackRobot Combo



CleverFlex

Groceries Pickup



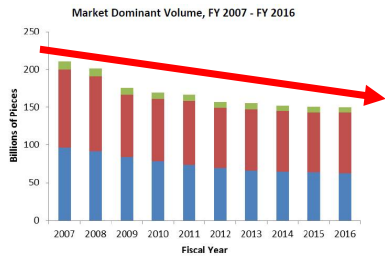
Groceries Ratans LLC



*Artist Rendering

New Opportunities for Posts

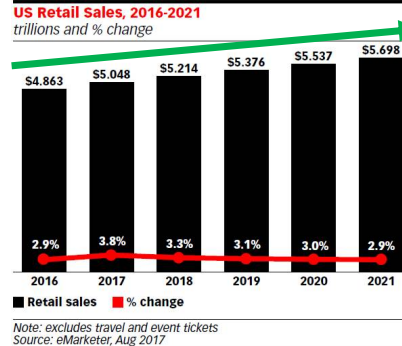
The Opportunity is shifting



Source: Library Reference PRC-LR-ACR2016/1; Docket No. ACR2015, Library Reference PRC-LR-ACR2015/1; FY 2007-FY2014 ACD; Library Reference PRC-LR-1.

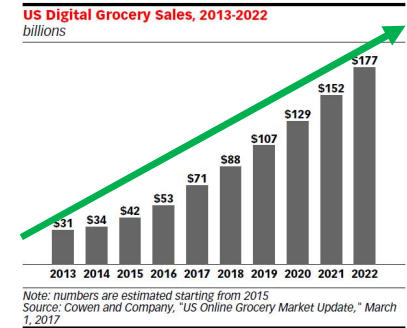
From Mail

Driven by Retail



Note: excludes travel and event tickets
Source: eMarketer, Aug 2017

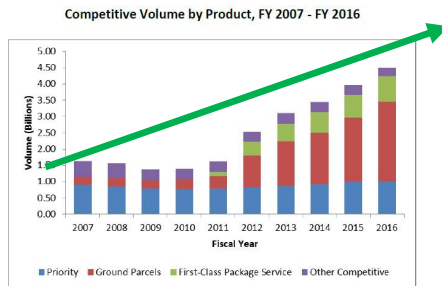
With some non-traditional categories still emerging



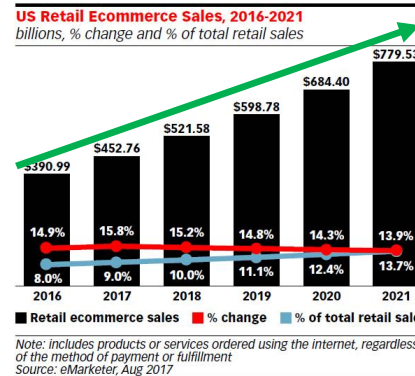
Note: numbers are estimated starting from 2015
Source: Cowen and Company, "US Online Grocery Market Update," March 1, 2017

To Parcels & Packages

Especially On-Line



Source: Library Reference PRC-LR-ACR2016/1; Docket No. ACR2015, Library Reference PRC-LR-ACR2015/1; Docket No. ACR2014, Library Reference PRC-LR-ACR2014/1; FY 2007- FY 2013 ACD; Library Reference PRC-LR-1.



Note: includes products or services ordered using the internet, regardless of the method of payment or fulfillment
Source: eMarketer, Aug 2017

Groceries!!
Prepared Meals?
Prescriptions?
Alcohol?
Other?

Posts – Innovation in the last mile

- Differentiate Mail and Packages business strategies for Last Mile
 - Mail – Protect the Monopoly and enrich where possible
 - Packages – Leverage exponential growth and Emerging IoT technologies
 - key subsegments growing faster (groceries, perishables)
 - Postal Operator has the best economics for last mile delivery in either case
- Posts can be The Key Platform in the physical delivery Ecosystem
 - Leveraging IoT technology to unbundle feature functionality in last mile delivery systems and infrastructure
- Posts can leverage the convergence of IoT based automation, AI and Data Analytics, to set the pace for the next generation National Communications and Commerce infrastructure

Home Delivery Issues

Home delivery of packages is a significant problem for all parts of the ecosystem.



Consumers

- 30% just don't buy certain products online
- 71% are concerned about package theft and damage
- 73% would prefer HomeValet to the status quo



Retailers

- Retailers lose billions replacing stolen or "lost" packages
- They also lose billions because consumers don't buy as much online
- Customer experience is impacted, so retailers also spend extensively on customer service



Carriers

- Carriers spend billions on inefficient delivery schedules
- Multiple delivery attempts and "signature required" adds significantly to cost
- Customer service problem-solving is costly and time-consuming

Home Delivery Issues



Goods delivered to most homes are left outside, unattended.



11MM U.S. households had a package stolen in the past year.



Over 50% of Americans know someone who had a package stolen.



Delivery issues impact consumer satisfaction & online shopping use.

Current “Solutions”

Current solutions only fit a small portion of the market.



Courier Home Entry

Amazon and Walmart have partnerships with smart lock companies that allow couriers to unlock the home doors and deliver packages inside.

Very few consumers have adopted this solution. People don't want to sacrifice the security of their home for their packages. This method is also limited to consumers who don't have pets or an active alarm system.



Video Doorbells & Security Cameras

Ring, Nest, and other companies have had commercial success at marketing video doorbells and security cameras.

Although these are often marketed as a solution to package theft, they haven't had any effect on the rates of package theft. Generally, package theft is not investigated, even when reported, because the value of the package is rarely very large.



Delivery to Car

Amazon is testing delivery to cars, but has had little success.

It's currently limited to certain automotive brands built after 2015-1028, depending on the make/model.



Lockers

Centralized locker-based systems are being tested by larger, existing companies. These lockers address a portion of the market willing to drive to a locker to pick up a package or for those who live in a multi-tenant building. These approaches leave the single-family home unserved.



SmartLocks

SmartLocks for outside receptacles are trying to position themselves as solutions, but this solution is limited. Most do not have integration with couriers, so consumers must provide instructions to the courier for every delivery.



Saturday Delivery

Amazon will now allow consumers to schedule Saturday deliveries. While this solves a small problem for some consumers, if it's used heavily, couriers are burdened with inefficient stacking of their deliveries on Saturday.

This also requires that consumers sacrifice the convenience of Amazon Prime's fast delivery. Saturday delivery is a trade-off, not a solution.

Current “Solutions” and Market Validation

Single-family home owners don't have a solution that doesn't require a sacrifice of privacy/security or cause schedule compression for couriers. While these don't exactly solve the problem, they do serve as market validation of the need for a solution. They also validate a consumers willingness to pay for a solution to the problem.

Single-Family Home



Courier Home Entry
No way. Don't come into my home.



Video Doorbells & Security Cameras
Great, you caught a thief on camera. Now what?



Saturday Delivery
Couriers hate this model which stacks their schedule one day of the week.

Multi-Tenant and Pick-Up



Lockers
Principally for apartment buildings. In the suburbs, they really just serve to cut delivery cost for retailer and not provide convenience for the consumer.

Other

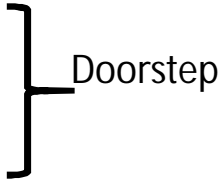


Delivery to Car
This will never be an actual solution to e-comm delivery.

The Physical Delivery Last Mile Ecosystem

Mail

USPS – Mailbox Protected Monopoly
 UPS
 FedEx
 DHL



General Merchandise

Groceries

Meals

Other (Pharma, Alcohol, etc.)

Packages

USPS
 UPS
 FedEx
 DHL
 Amazon



Jet/Walmart
 Amazon Fresh
 Google Express
 UberEATS
 GrubHub
 DoorDash
 Postmates
 Instacart



Blue Apron
 Home Chef
 Hello Fresh
 Freshly
 Plated



Ratans LLC

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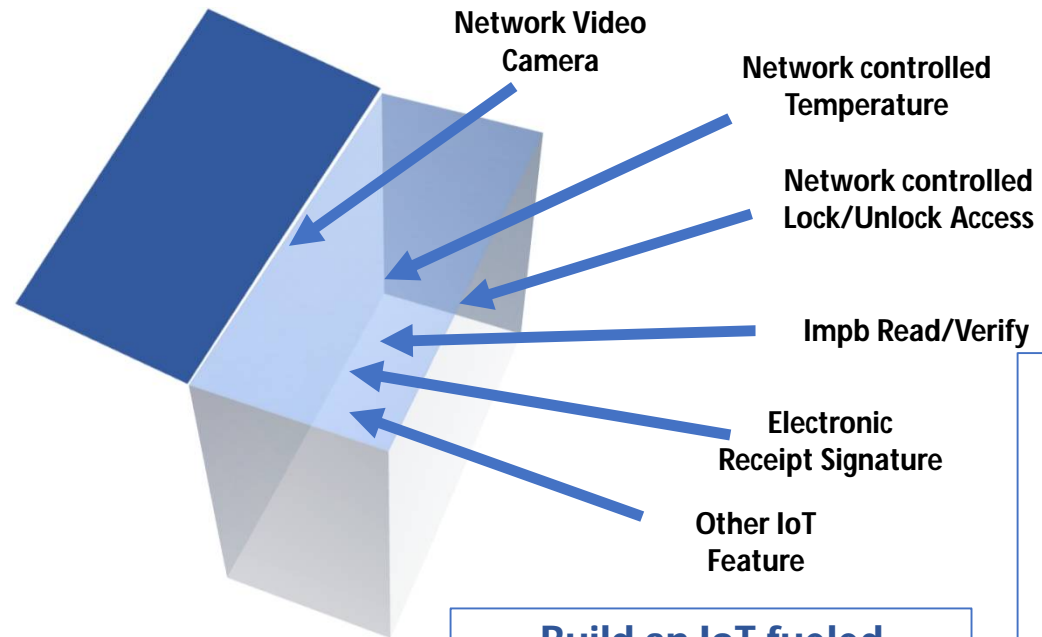
Differentiated Strategies for Mail and Packages (Protect Monopoly v/s Become The Industry Platform)

Mail



Protect and Enrich the Monopoly

Packages

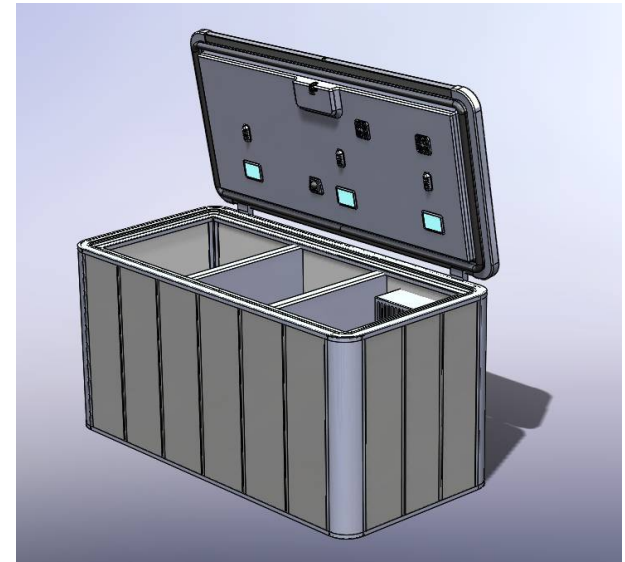
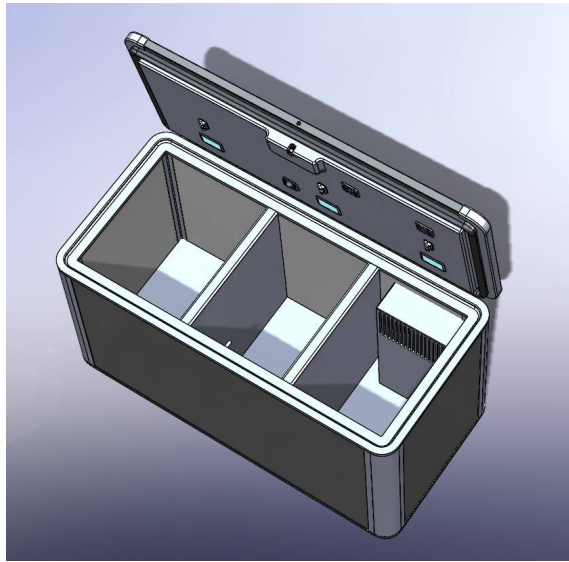
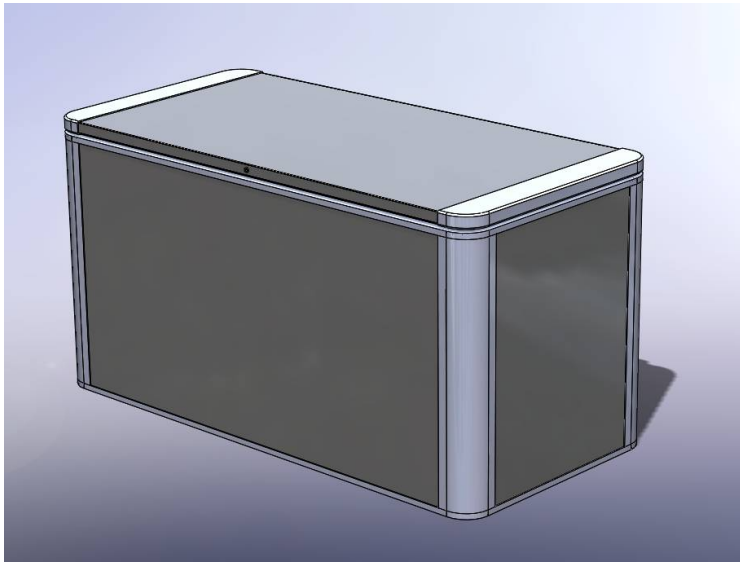


Build an IoT fueled Feature Rich Platform

Become iPhone-ITunes like platform to enable "Parcels Apps" industry

HomeValet Hardware

- Locking mechanism
- Climate Control (Micro-Compressor or Peltier)
- Thermistors
- Fan Modules
- LED Lighting
- Child Safety Release
- Camera
- Insulated panels
- Movable and Removable Partitions
- Interchangeable Exterior Trim Panels



Differentiated Strategies for Mail and Packages (driven by IoT, ML, AI – modular system architecture)

Mail

Homes



Community/Neighborhood



Packages



Temperature controlled, secure package delivery to homes

Ratans LLC



Next Gen Post Office

Automated, Volume Optimizing, Self-service Pick-up and drop-off Towers and Linear Systems

Vision for Posts

- Become The Platform for Next Generation Communications and Commerce
- Ultimate “Direct” connection for communications and commerce fulfillment to end-consumers