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EMPOWERING THE BUSINESS OF EACH STATE OF THE BUSINESS OF A STATE OF THE BUSINESS OF THE BUSINE

AgroFresh is everywhere you need us to be.

With a presence in over 50+ countries our sales, R&D, regulatory and technical service experts share know-how and data across regions to solve customer challenges.





AgroFresh Today:

Productivity Solutions from the Field to the Packinghouse



Pre-harvest



Post-harvest Storage/Packing/Distribution



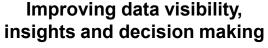
Digital Architecture



Improving yield, quality and storability

Improving long-term storability and packouts

Improving quality, presentation and shelf-life

















Control-Tec







100 SC

Pre-harvest management, tech-enabled inspection













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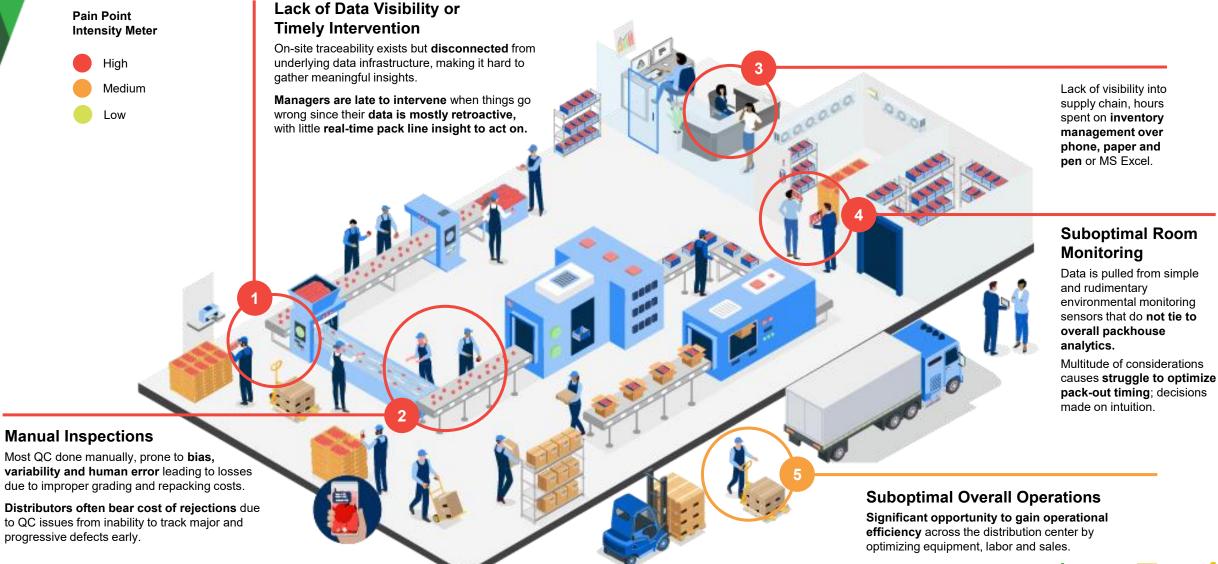
Data as Medicine: Addressing Pain Points in Apple Supply Chains

US Apple Outlook

August 14, 2025



Pain Points in Packhouse Operations



1 Four pain point themes emerged from customer research

Pain points



Manual record keeping – primarily use pen and paper to record, but food safety regulation and retail demand is growing over the years and a lot of labor resource needs to be directed

- Quality record is required to make sure the products achieve Retailer's spec
- Need for temperature monitoring manual and cumbersome to do in field
- Retailers have strong negotiation power for quality consolidated retailer landscape vs. more fragmented growers (e.g., if recall happens, he always needs to accept to maintain the relationship)
- Inventory management is difficult crop has short storage life
- G Harvest timing is key but hard to plan limited shelf life of produce vs. mercurial retailer demand
- Market matching is an art key driver of value but difficult to do well
- Training large number of (foreign) seasonal workers handling techniques is key and trends update; training is a continuous effort

Distributors

- Increasing demand for traceability food safety regulatory requirements and retailer demands continue to increase
- B Manual inspection causes mishandling risk limited options for automation
- Precise temperature monitoring needed "Temperature" is everything"; looking for solution that is real time with alerts
- Inventory management is difficult requires specialists to monitor & make just-in-time decisions
- Want to know the retailer's demand beforehand
 scared of a shortage of the inventory as it is opportunity loss but sometimes that causes excess
- Retailers have strong negotiation power resemble pain points of Growers
- Fragmented tech stack using multiple point solutions (ERP, inventory management tools, QC tools) that do not talk to each other
- Training across multiple processes poor handling leads to waste & recalls; repacking process is done by (untrained) contractors

Retailers

- Increasing demand for traceability food safety regulatory requirements continue to increase; higher fidelity tracing allows for less loss during recalls
- Lack of trust in upstream data distributors, distributors, growers & others point fingers at each other in case of an incident
- B Manual inspection causes mishandling risk—limited options for automation
- Quality and freshness of the product on their shelf – "consumer's impression" - is their no.1 priority in their business to attract customers
- Complex distribution center operations resemble pain points of pack houses in many ways (incl. need for precise temperature monitoring, complex inventory management, manual processes)
- Need for scalable tech scalability & reliability is table stakes for IT
- Z High training load 1000s of workers across many product categories

What we heard



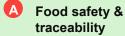
"If I can better know the demand of consumers & retailers, I can plan my harvesting leaner. But it is expensive to do that"

"I need to keep track of a lot of information for potential audits"

"A lot of software do not talk to each other. For an operation of my size, I can't afford too much IT overhead" "Consumers are unforgiving about produce freshness so that's a top priority [for our entire operations]"

"Any software needs to scale across the thousands of stores and distribution centers we have"

Common Opportunity Areas



Growers

Documentation / inspection / maintaining people's quality

B Quality inspections & monitoring

Monitoring the quality and environment throughout

C Inventory optimization

Timing and quantity to moptimization redu

Produce market matching

Matching supply and demand to maximize sales and reduce waste









Takeaways on these pain points emerged from our research

Opportunity areas	What we heard from potential customers			
	Growers	Distributors	Retailers & food service providers	Key takeaways
Food safety & traceability	Inspections and record keeping are very manual processes "Inspection is done manually, and we use pen and paper to record keep" (Grower, Medium)	Food safety compliance and retailers' demands continue to increase – more specs need to be tracked "Food safety regulation and retailer's demand is just increasing" (Distributor, large)	We have a lack of trust in upstream data – growers/distributors/logistics providers point fingers at each other "Traceability at the clamshell level has been a north star for us" (Retailer, large)	 Growers and distributors have disparate, fragmented data sources & software tools that don't integrate, resulting in a lack of data visibility Currently spend up to 2-3 hours per day filing compliance paperwork manually or through Excel / other rudimentary tools
Quality inspections & monitoring	Retailers have the strongest negotiation power so poor quality becomes a lost revenue and cost concern	Precise environmental monitoring throughout treatment & packing is a challenge but a key enabler of shelf life	Quality and freshness of produce on the shelf are retailers' top priority to attract customers	 Quality and freshness are the Retailers' top priority that forces the whole value chain to follow Growers, and sometimes distributors, bear the cost of rejections, which is often due to
	"If a recall happens, we need to cover all the costs" (Grower, large)	"Temperature is everything - we track real-time" (Distributor, large)	"Consumers are unforgiving about produce freshness so that's a top priority" (Retailer, large)	 poor handling Temperature monitoring is the key for all users/process to ensure their product quality
Inventory optimization	Timing is important to maximize produce shelf life but can be more of an art than science	Inventory management requires monitoring & just-in-time decisions from specialists	Inventory management is the key to reducing the food waste but complex	 Distributors and retail distribution centers struggle to optimize timing of inventory decisions due to multitude of factors involved
	"Crops have short time for storage, so we need to do inventory management properly" (Grower, large)	"" "Good inventory management is difficult and requires experience" (Distributor and Food Processor, large)	"" "We use software for inventory management, but it is still not good enough for quick decision making" (Retailer, large)	 Growers experience spoilage/loss in the field or storage if planting/harvesting is not calibrated to demand
Produce market matching	Growers need balance maintaining a sufficient harvest quantity while avoiding excess production	Matching demand with supply is a cumbersome process as each buyer has idiosyncratic requirements	Finding sufficient quantity of produce is difficult when consumer demand rises unexpectedly	Growers and distributors struggle to identify buyers that are looking for the specifications of produce that they have currently on-hand

"We do everything over the phone

currently. Salespeople will look for

inventory in Excel" (Distributor, large)

"We sometimes struggle to find

are looking for" (Retailer, large)

enough supply for the quantity we

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Retailers struggle to predict demand for

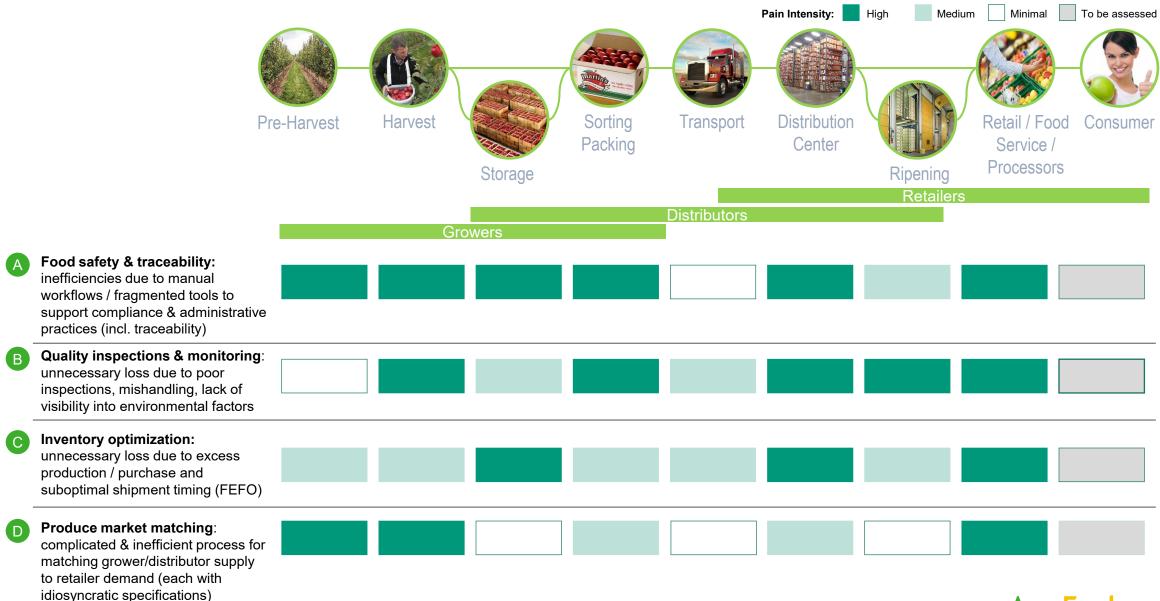
specific produce since many variables

impact consumer behavior

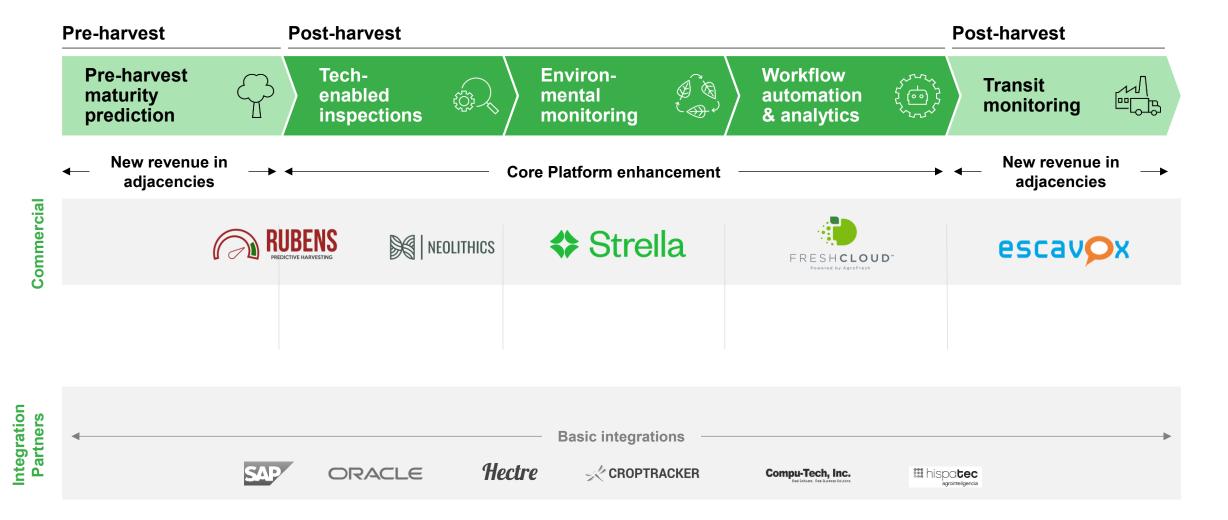
"Matching yield and demand could

reduce food waste" (Grower, large)

1 The intensity of pain points vary by role along the value chain



Digital Ecosystem Building an end-to-end platform via partnerships





Pre-Harvest Testing Use Case

Accurate

Accurate measurements of Sugars (Brix), Firmness, Maturity (starch index).

Standardized measurement

For measuring fruit quality in the field, and packhouse. Global calibration database.

Low Maintenance

Simple, easy-to-use device, minimal calibration requirements.

Real-time

Rapid, non-invasive scanning. Results in seconds. Test more fruit faster (increase sample size).





Waste reduction

Optimize harvest timing, reduce fruit waste and consumables through non-destructive testing.

Quality Assurance

Test a larger sample size more accurately and ensure the best products on the shelf.

Cost Reduction

An affordable platform that will reduce costs associated with testing and grading shipments.

Digital Platform

Data recorded and backed up digitally for use with machine learning and artificial intelligence algorithms for predictability. **Integrated with FreshCloud.**

Room Monitoring Use Case

- Strella's proprietary sensors monitor crucial environmental factors such as temperature, humidity, oxygen (O₂), carbon dioxide (CO₂) and ethylene in your facility.
- With wireless, battery-powered functionality, these sensors can be seamlessly mounted on any warehouse surface, providing unparalleled resolution tailored to your specific needs.
- Dynamic data points with state-of-the-art diagnostics and analytical equipment help you understand and protect your produce in real time.
- Dashboard lets warehouse operations teams conveniently view data online at any time, with a custom floor plan.

