

Fresh Pick Solution



Requirement Analysis

Challenges for Retailers

- The fresh food supply chain is a fast moving and ever changing one which requires real-time quality checks.
- Inaccuracy within the supply chain leads to food being damaged or wasted in stores.
- Lack of video evidence to check supply chain quality.
- Low efficiency in checking video recordings for forensic review (normally the whole recording needs to be checked).
- Manual logging of food information leads to low efficiency, longer lead time and low accuracy.



Solution Goal

The aim of the solution is to measure pick accuracy in real time, allowing forensic analysis of collected data and video imagery to improve accuracy and provide actionable operational insight.



Needs to provide real-time integrity checks with video, and each video needs to be mapped to the specific picking activity.



Needs to generate forensic analysis for review to check stock levels and supply chain accuracy.



Needs easy application. The solution needed to be cost effective and integrate with the existing data tools.



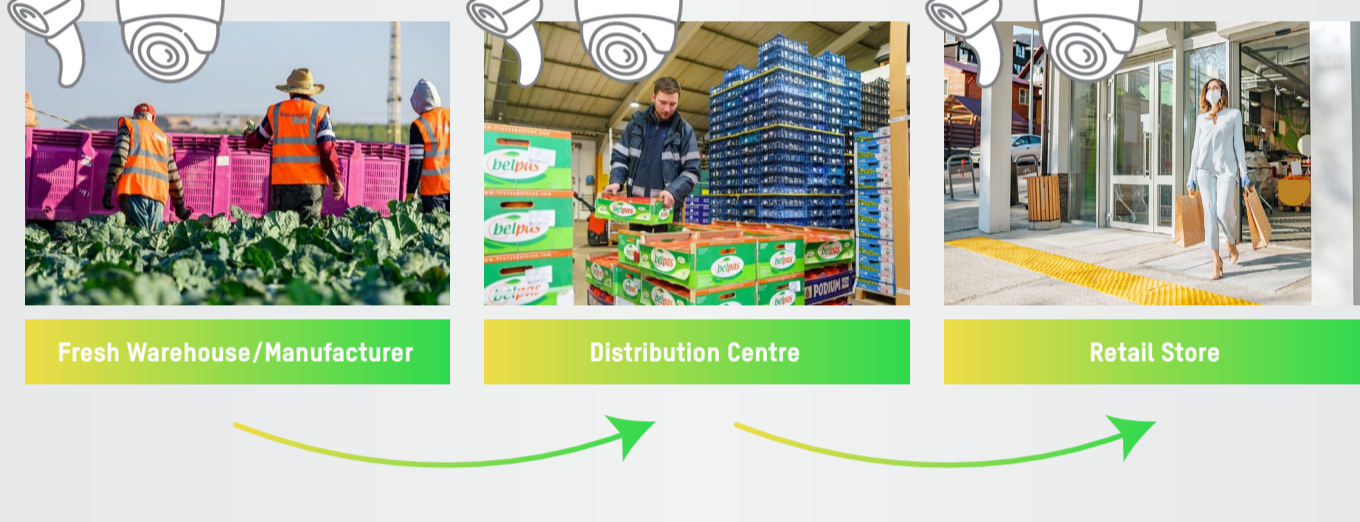
Needs to offer cross-functional benefits and ROI, including operational streamlining, improved on-shelf availability and shrinkage reduction.

Solution Introduction

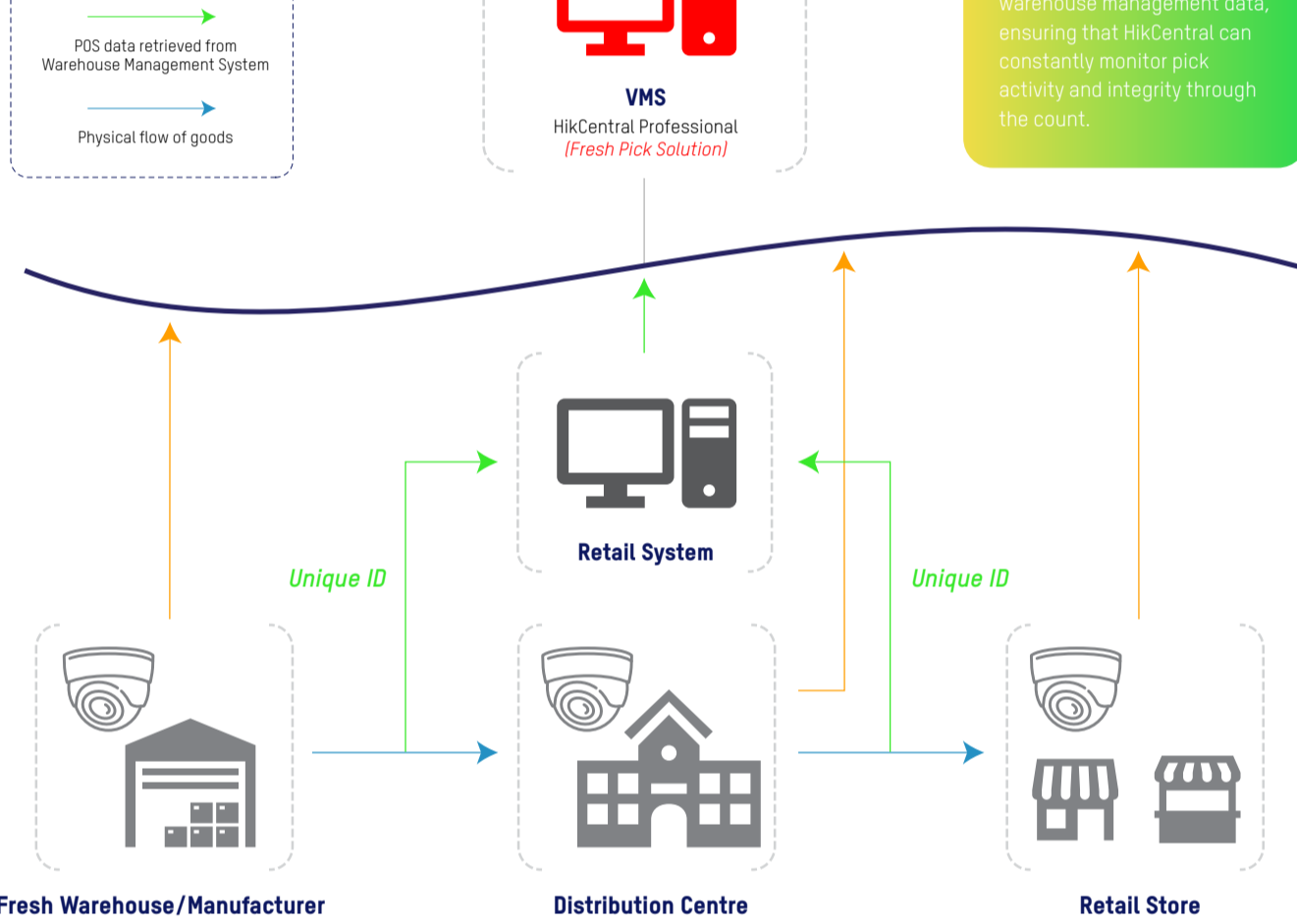
Business Flow

In the fresh picking area, as each item is picked it generates a **unique transaction ID** through the use of the scanning terminals. The picker confirms each pick transaction, and this is mapped by both location and UTC time-stamp.

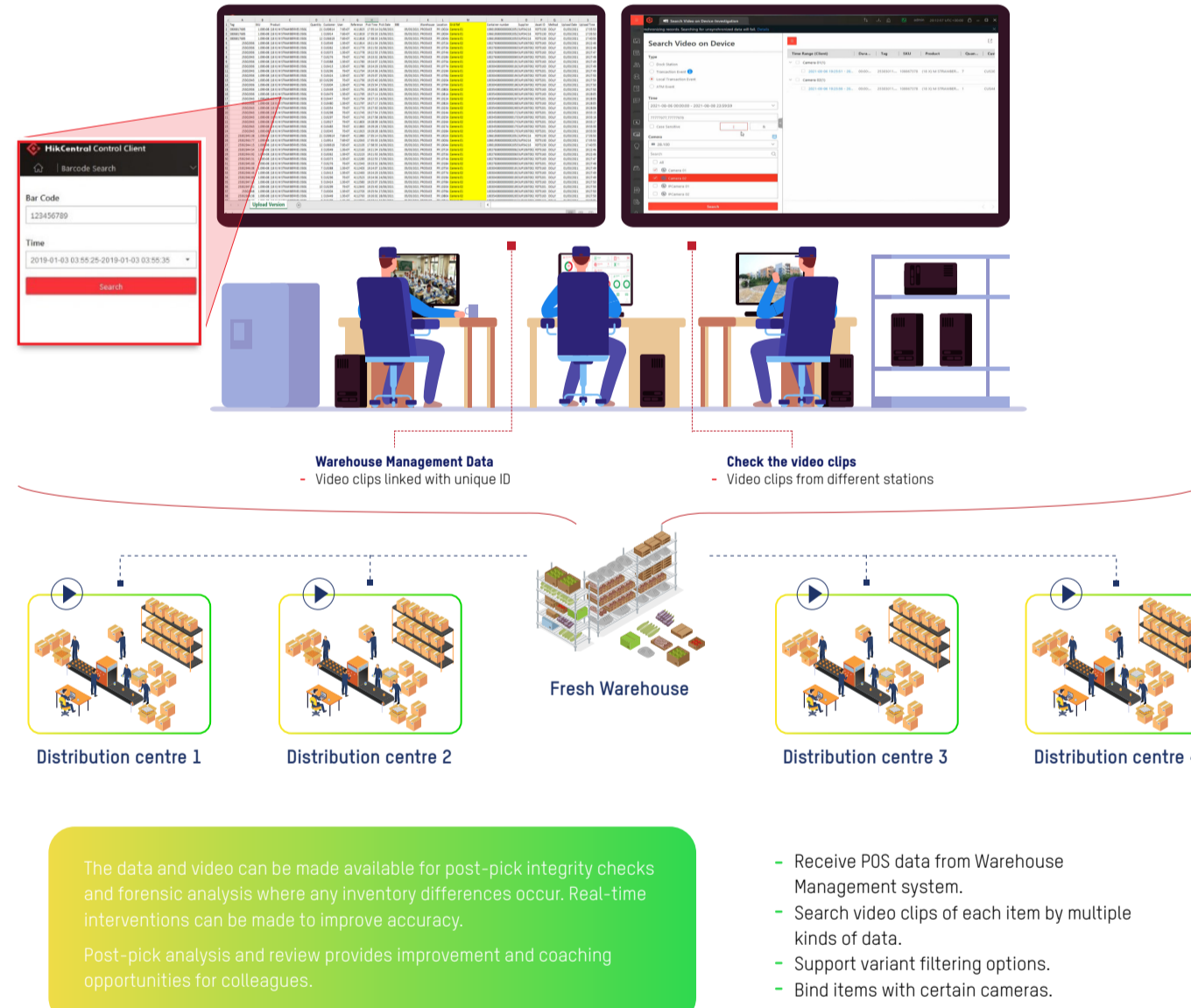
CCTV cameras are installed around the area, monitoring the real-time pallet status. They are mapped to specific pick zones and synchronised with a **Universal Time Code (UTC)**, to the management software.



Solution Architecture



Video Evidence Retrieval



Solution Advantages

Reliable Solution Vendor for your Business Development.

Improve TRACKING

- Each item with a unique ID.
- Every process bound with a video clip.

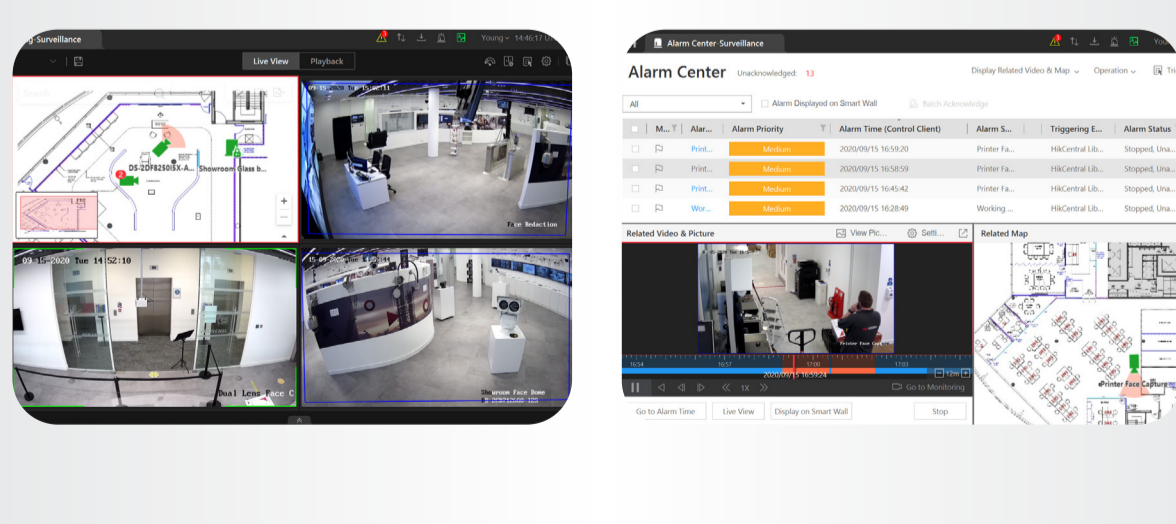
Reduce WASTE

- Monitor food waste level and stock turns.
- Accurate data linked to orders.

Boost EFFICIENCY

- POS logged in with video.
- 24/7 clear video for post-pick forensic review.

Product Showcase



- VMS HikCentral Professional (Fresh Pick Solution)**
- Flexible, scalable, reliable and powerful central surveillance system.
 - Supports live view, playback, access control, video intercom, visitor management, vehicle entrance and exit management, alarm management, personnel identification, BI dashboard, people counting report.
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- IP Camera DS-2CD3347G2-LSU (C)**

 - 24/7 colourful imaging.
 - High quality imaging with 4MP resolution.
 - Efficient H.265+ compression technology.
 - Clear imaging against strong back light due to 130 dB WDR technology.
 - Support 12 VDC power output for pickup.
 - Audio and alarm interfaces available.
 - Built-in microphone for real-time audio security.
 - Water and dust resistant (IP67).

NVR DS-9632NI-18

 - Up to 32 channel IP cameras can be connected.
 - Up to 12 MP high-definition live view, storage and playback.
 - Up to 320 Mbps (or 200 Mbps when RAID is enabled) high incoming bandwidth ensures IP cameras can be connected.
 - 2 HDMI (different source) and 2 VGA (different source) interfaces.
 - 8 HDD can be used for continuous video recording.
 - Supports some specialist cameras, including people counting camera/ANPR (automatic number plate recognition) camera/fisheye camera.
 - Advanced streaming technology enables smooth live view in poor network conditions.
 - Supports RAID 0, 1, 5, 6, 10 and N+1 hot spare for even more reliable data storage, effectively avoids data loss risks.