



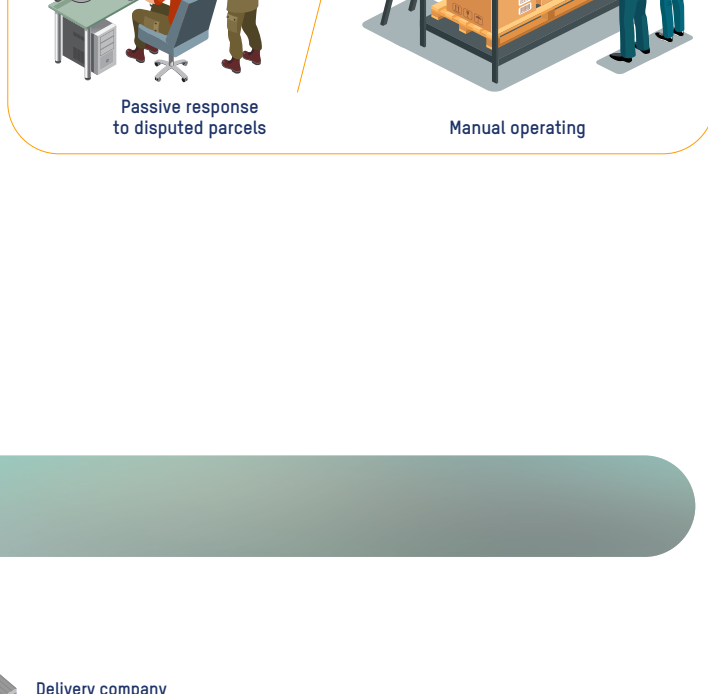
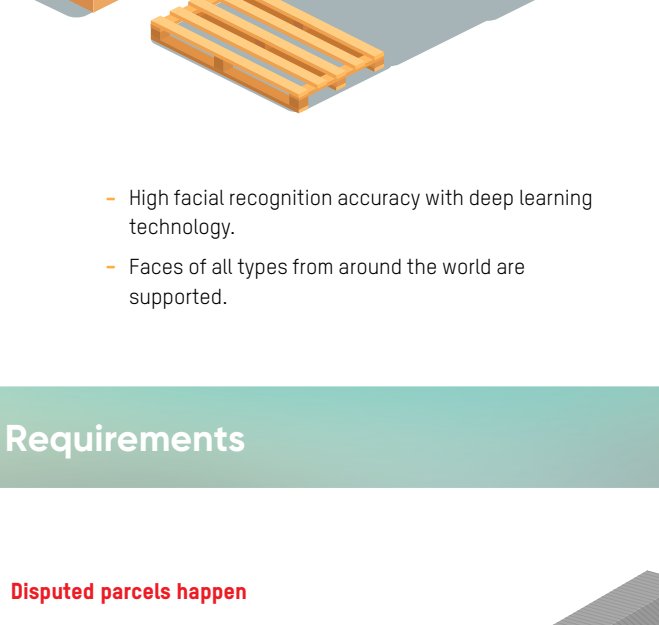
HIKVISION

Parcel Tracking Solution

Market Analysis

Challenges for delivery companies:

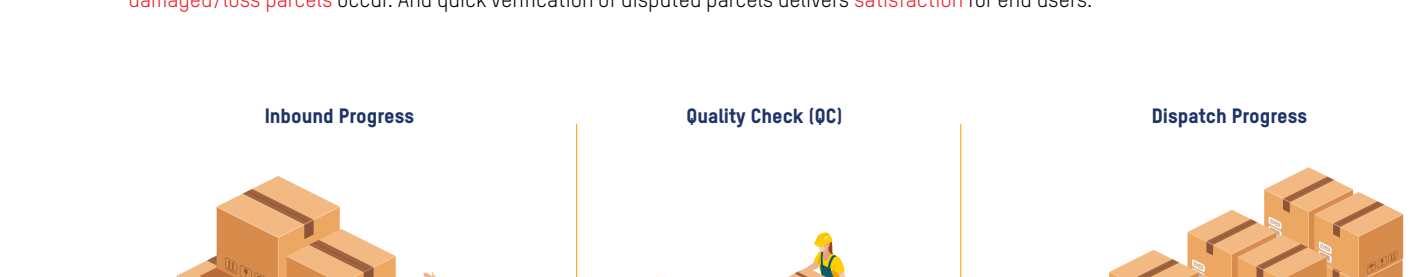
Delivery companies struggle to keep up with the rapid development of an express market.



- High facial recognition accuracy with deep learning technology.
- Faces of all types from around the world are supported.

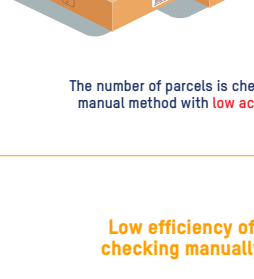
Requirements

Disputed parcels happen



- #### Pain points
- 1 Video saving isolated
The video clips are separately saved in local NVRs when parcels are delivered from each station.
 - 2 Low efficiency of video verification
The operator needs to check the whole video recording separately, which consumes too much time.

- The delivery companies need to check the video evidence quickly, when the disputed parcels or damaged/loss parcels occur. And quick verification of disputed parcels delivers satisfaction for end users.



Inbound Progress
The number of parcels is checked by manual method with low accuracy



Quality Check (QC)
The operator will open and check all the items in the parcels

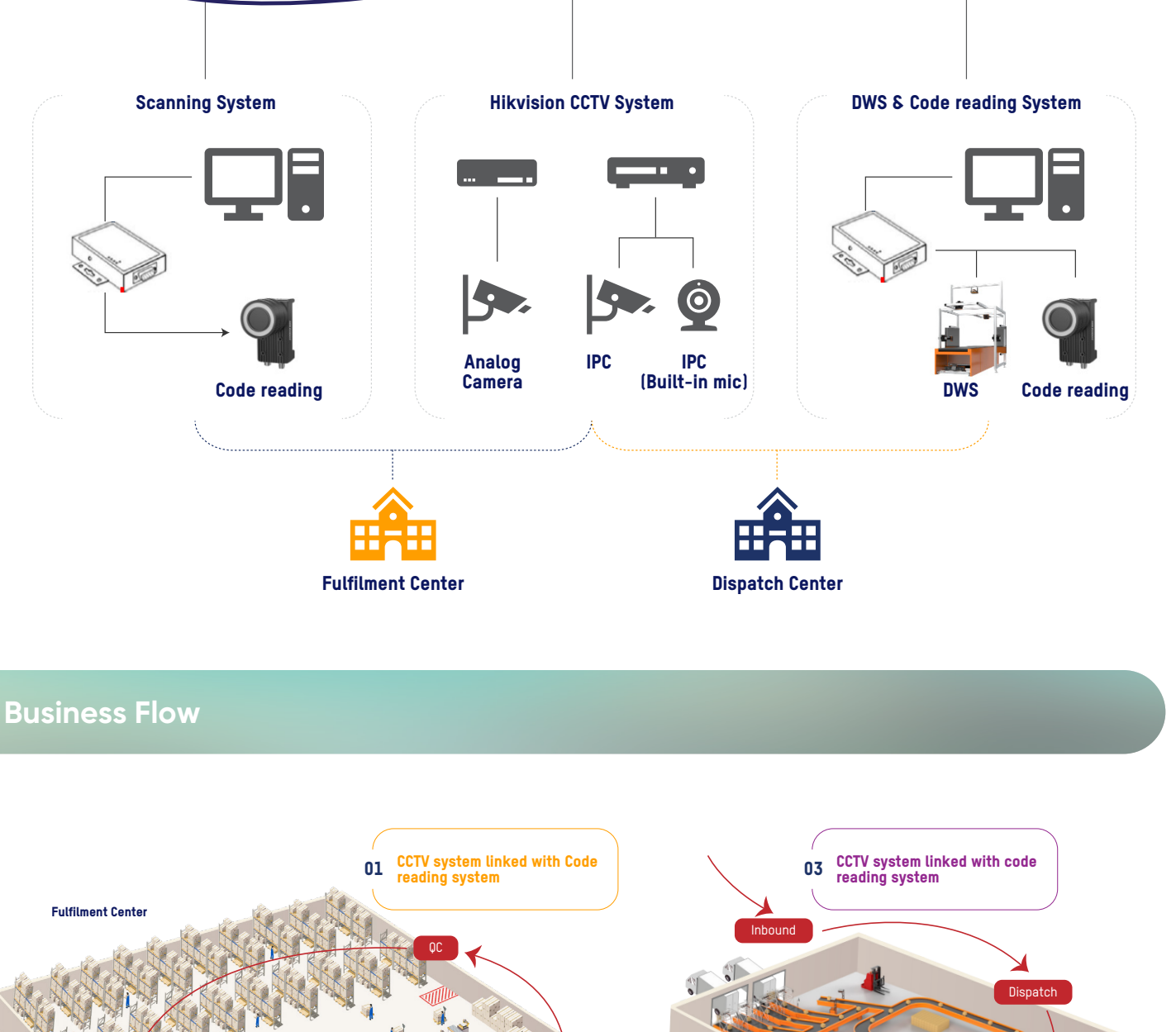


Dispatch Progress
The parcels are scanned by handheld scanner

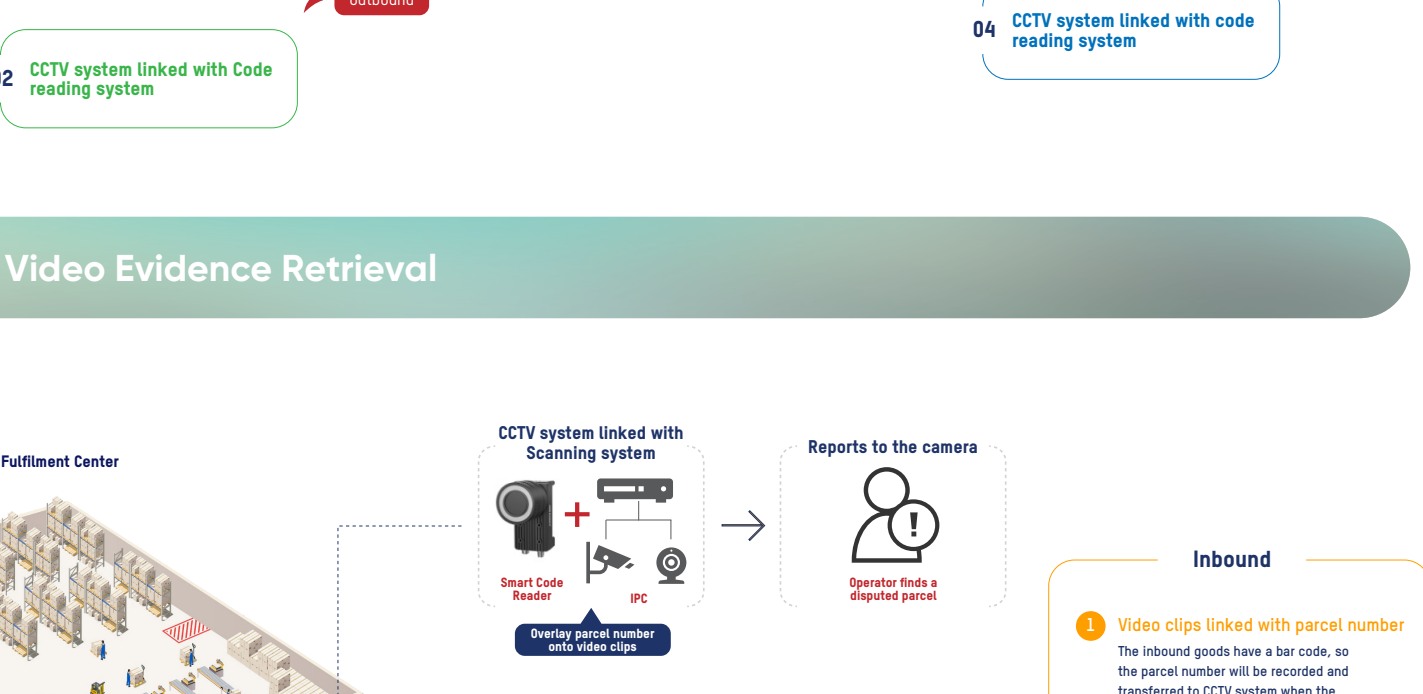
- #### Pain points
- Low efficiency of checking manually
 - Low efficiency of handling damage/loss parcels
 - Low efficiency of dispatch

- Complete shipment process for in-coming parcels, and sorting by destination is mostly handled by manpower. Additionally, dispatch centers with handheld scanners fail to sort parcels quickly. The operation efficiency needs to be improved as the express industry increases.

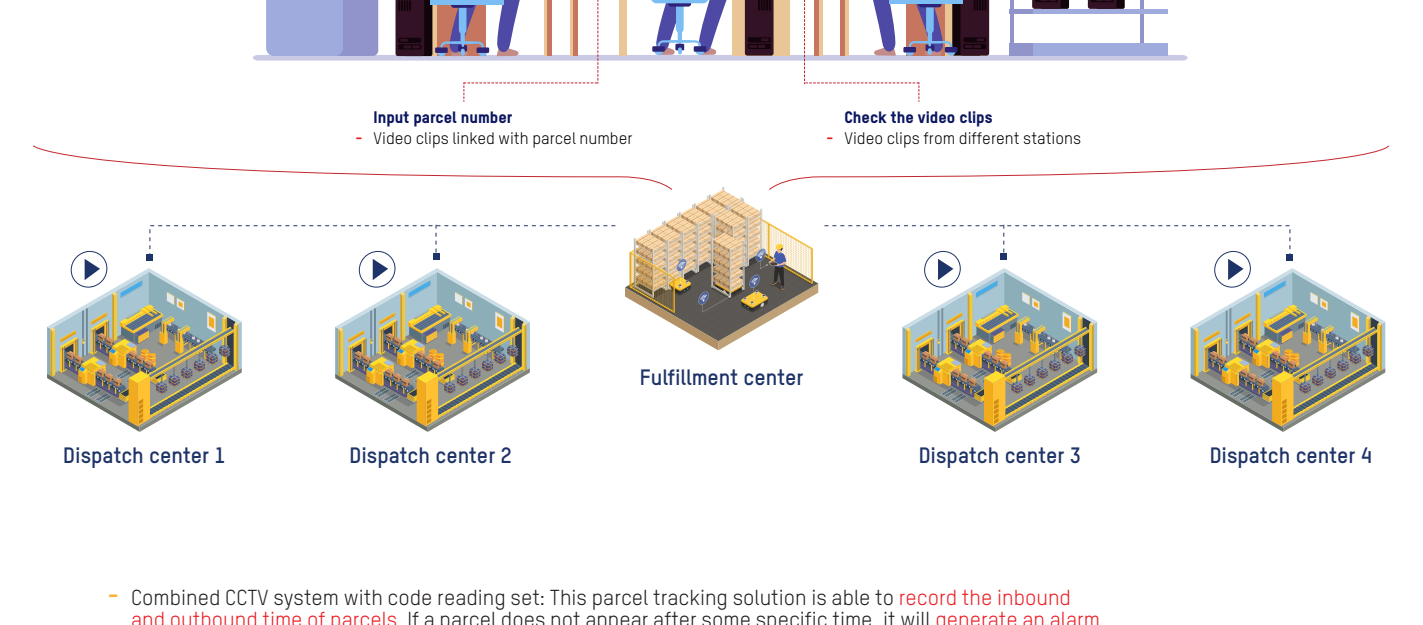
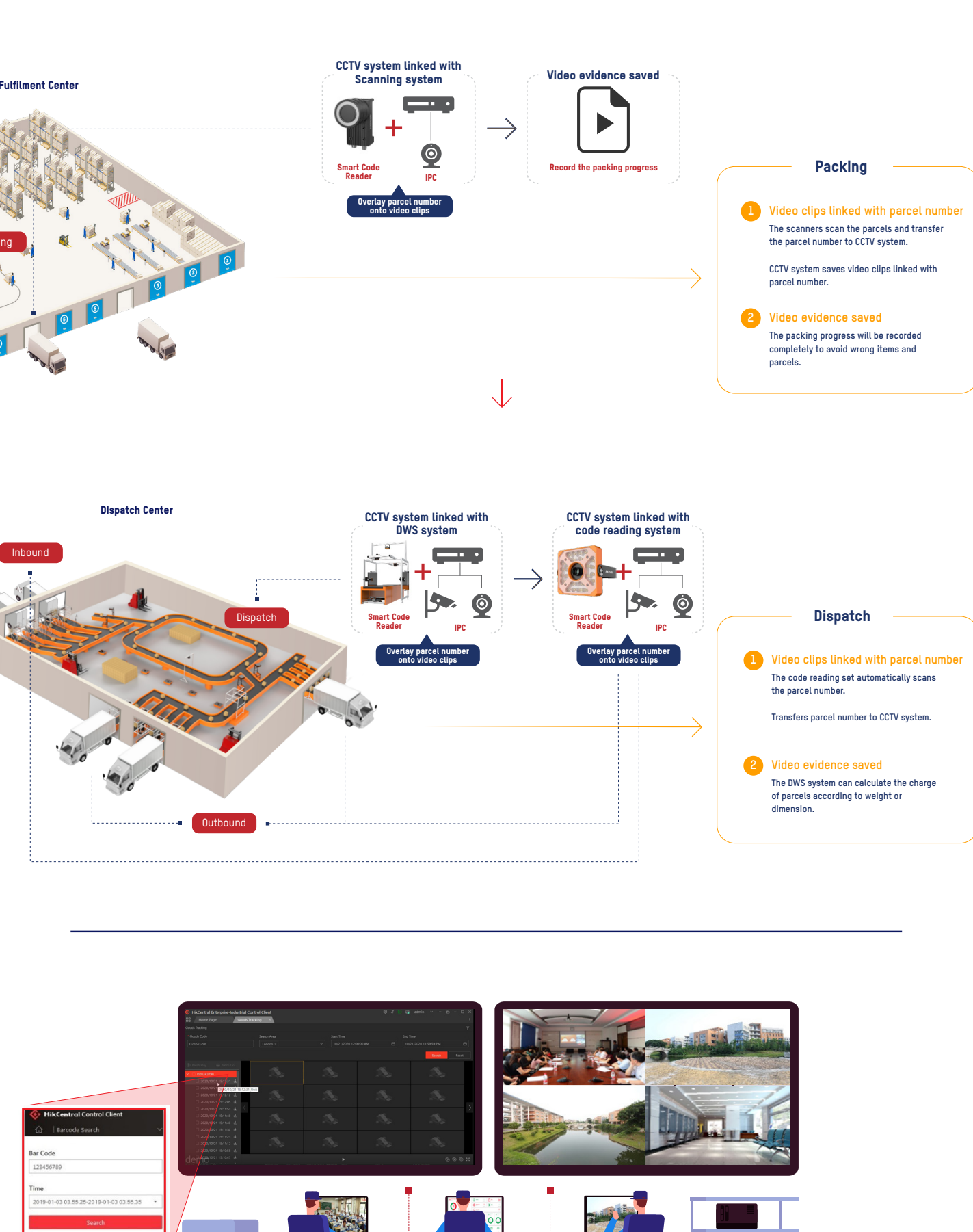
Solution Architecture



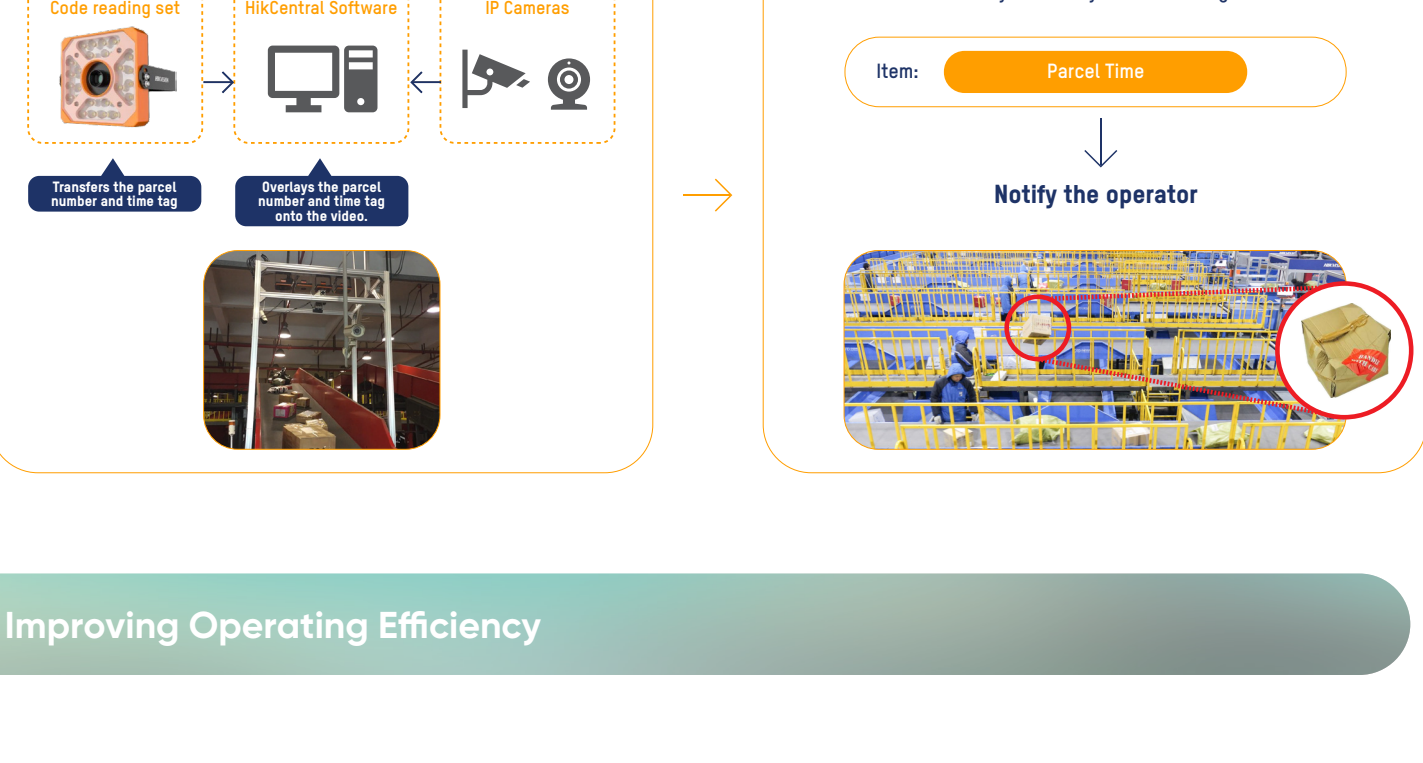
Business Flow



Video Evidence Retrieval



- Combined CCTV system with code reading set: This parcel tracking solution is able to record the inbound and outbound time of parcels. If a parcel does not appear after some specific time, it will generate an alarm to notify the operator.



Improving Operating Efficiency

Improves dispatch efficiency

Code Reading Set

- 1 Operation rate
The code reading set can handle 80 parcels per minute twice the speed of using traditional handheld barcode scanners or PDAs.
- 2 One hand operation
It is possible to use static code reading sets to scan a barcode with just one hand.

Scanner

Improves efficiency of charging

Static Barcode Scanning System

Dynamic Barcode Scanning System

Multi-Surface DWS System

- 1 Modularized system
Combination of a code reading set, an electronic scale and a binocular 3D camera which meets actual customer needs.
- 2 Automatically charge
Calculates the charge based on the volume or the weight.

- Compared with a handheld scanner, the Parcel Tracking Solution with code reading set greatly improves the efficiency of dispatching. Additionally, the multi-type DWS system is able to calculate the weight and subsequent charge for parcels automatically.

3rd Party Connections



Product Showcase

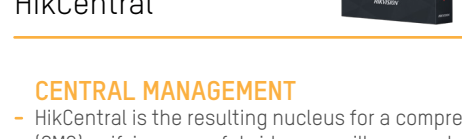
Smart Code Reader



External LED Lights



VMS



CENTRAL MANAGEMENT
- HikCentral is the resulting nucleus for a comprehensive management system. HikCentral unifying powerful video surveillance and access control systems of any size. The modern and powerful web, mobile and desktop clients can access the centralized system from anywhere they are needed.