PRIME VISION Channel Management

Inwaso - spring 2024

WHO WE ARE

Prime Vision is designing and developing best-in-class solutions that help time-conscious companies **around the globe** with the **automation of sorting processes**.

We are pioneers, driven by the fast-changing digital world, bringing together **Computer Vision** and **Robotics** technologies that not only help facilitate postal and parcel services and ecommerce businesses but the digital world in general.

Innovation is a key component that is embedded in every department of our company; it is undeniably a part of our DNA. We are ambitious because the world, and therefore our clients, demands progressive solutions.





WORLD-WIDE REFERENCES





WHAT WE DO - EXPERTISE(S)



COMPUTER VISION AND AI SOLUTIONS

State of the art recognition, identification, interpretation and tracking.





DECISION SYSTEM SOLUTIONS

Connecting infrastructure and handling decisions to recognized, identified and tracked items.





ROBOTICS AND PROJECTION SORTING

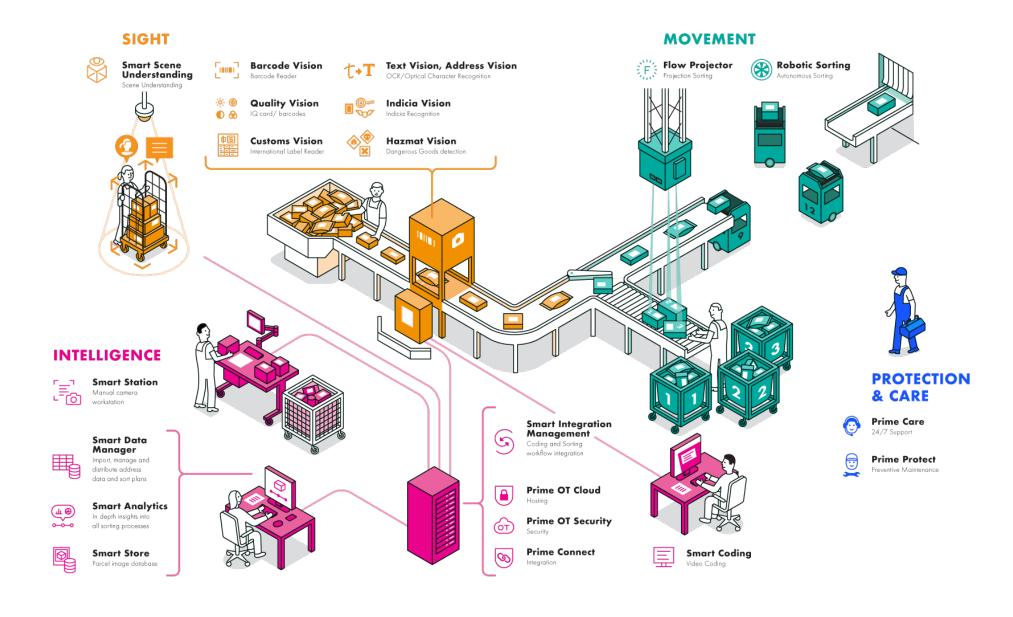
Sorting parcels using mobile robots and Flow Projectors for a flexible and future proof sorting centre.

PROTECTION & CARE



CONTINUITY OF BUSINESS-CRITICAL PROCESSES

A full suite of planned and response support options for every client and system around the globe. Ensuring maximum uptime and performance of your core operational processes.



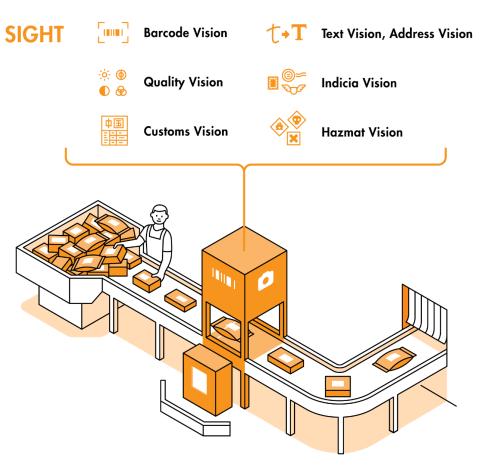


SIGHT PORTFOLIO



Computer Vision and AI Solutions

State of the art recognition, identification and interpretation.



COMPUTER VISION SOLUTIONS



Sample Use Case: Increase the Number of Barcode Reads - Reduce Manual Handling

OCR

Minimize handling costs and improve customer experience by improving the read rate of addresses, labels and (bar)codes

For barcodes:

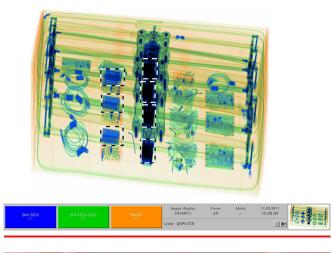
- Overall, the Prime Vision solution can read up to 70% of the previously Barcode No-Reads, taking the average automation rate from of 95% to 98.5%
- The more barcodes read, the higher number of parcels remain in the pipeline to be sorted automatically resulting in less manual intervention and faster processing; which ultimately decreases costs
- The higher rate of successful reads considerably reduces the pressure on potential bottlenecks







MORE THAN OCR AND ADDRESS READING SYSTEMS





Object Recognition & Fingerprinting







Robotic Sorting

HOW?

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Automatic Moving Robots move efficiently within a sorting area, using the latest technologies in computer vision and robot fleet management

WHAT?

Robotic sorting makes automatic processing of goods easier and leads to dynamic and flexible production capacity.

WHY?

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It makes automatic sorting efficient, more dynamic and future proof. The sorting solution van be deployed in any sortation location within a few days.

ROBOTIC SORTING



Benefits:

- Increased productivity and throughput of parcels
- Flexible and easily scalable solution
- Short implementation time
- Staff shortages are no longer a problem
- Handle higher volumes with less people
- Low investment compared to traditional fixed sorting centers

Robotic Sorting gives you the ability to change any sorting center into a smart and flexible sorting center. Instead of fixed chutes, future sorting centers makes use of intelligent robots autonomously making sorting decisions for parcels.

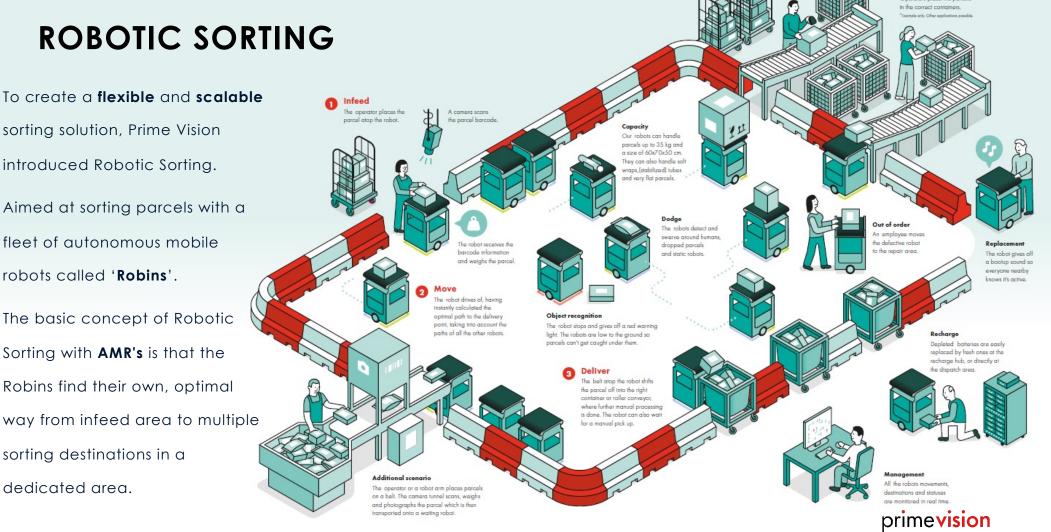
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ROBOTIC SORTING

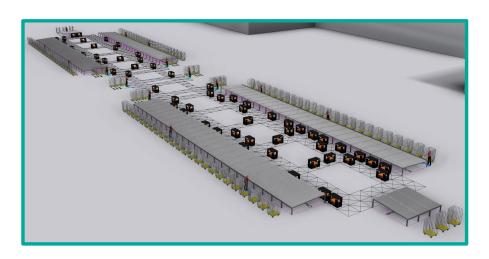
sorting solution, Prime Vision introduced Robotic Sorting.

Aimed at sorting parcels with a fleet of autonomous mobile robots called 'Robins'.

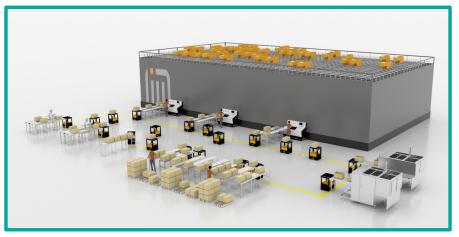
The basic concept of Robotic Sorting with AMR's is that the Robins find their own, optimal way from infeed area to multiple sorting destinations in a dedicated area.

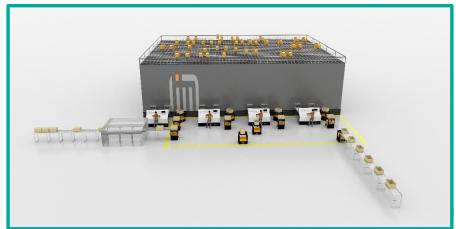


USE CASES









FLOW PROJECTOR



Flow Projector benefits

- More sorting directions
- No training
- Error-free sorting with both hands and without the use of hand scan devices
- Flexible last-mile planning
- Fast implementation and easy installation
- Manual sorting efficiency increases by up to 40%

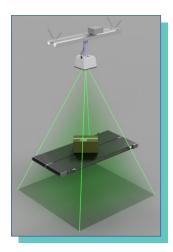
How the Flow Projector works

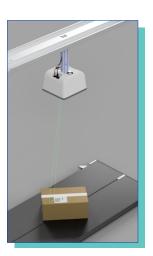
- 1 The Flow Projector reads a parcels barcode
- 2 The Flow Projector projects the destination number on the parcel
- 3 The Flow Projector keeps tracking the parcel to display the number.
- The operator takes the parcel and knows directly where to place it
- 5 The operator now makes less sorting errors while sorting faster



Key features

- Various types of barcode reading (1D, 2D)
- Smooth projection of processing instructions on multiple (moving) parcels
- Projected data consists of any combination of characters to allow complex applications (e.g. sequencing)
- Data is projected by using a (human-eye-friendly) green laser beam





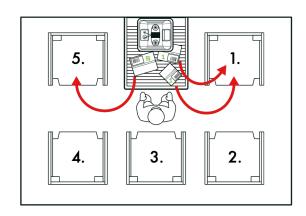
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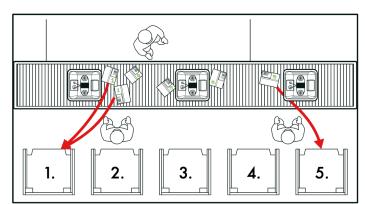
CONFIGURATIONS

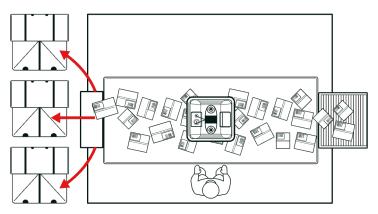
End-of-Chute

Moving Belt

Ranking Configuration









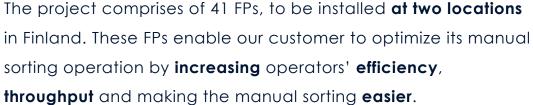




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REFERENCE CASE: FLOW PROJECTOR

The Finnish postal operator is one of our largest customers for the Flow Projector (FP). This operator started with a successful POC in the beginning of 2022 resulting in an investment in this **unique** Prime Vision **technology**.



At these locations, the FPs are at the end-of-chute to sort a diverse number of parcels into max. **25 roll container** (destinations). Full and seamless integration with costumer back office and WMS systems has been accomplished.



