

IWHR-9 (2004)



OCR of Japan Post

Presented by

内田 英夫
UCHIDA Hideo

Postal Business, Japan Post

- 1968 Five-digit Postcode
Red boxes
OCR Sorter for handwritten postcode
- 1969 OCR Sorter for printed postcode
- 1989 OCR Sorter for address (handwritten and printed)
- 1998 Seven-digit Postcode
Address conversion to barcode (Invisible)
Sequencing
- 2001 Secondary OCR

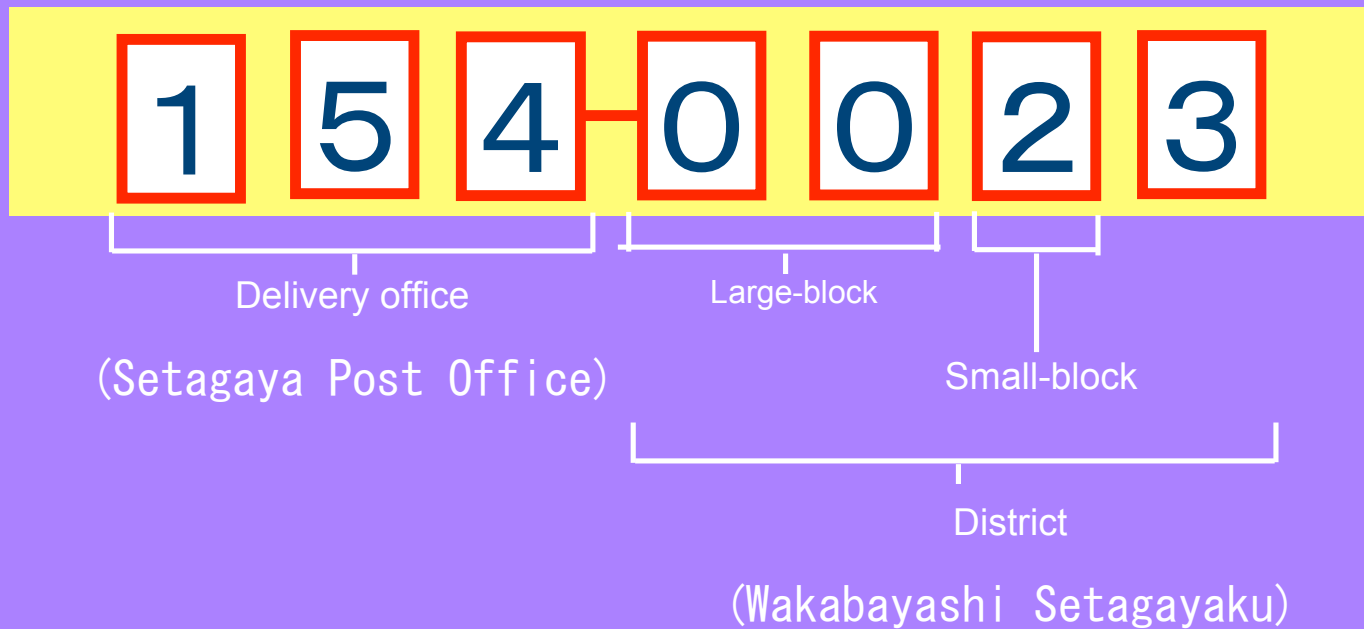
IWFHR-9 (2004)

Post Code



- 7 digit Post code

Example: Wakabayashi, Setagaya-ku, Tokyo



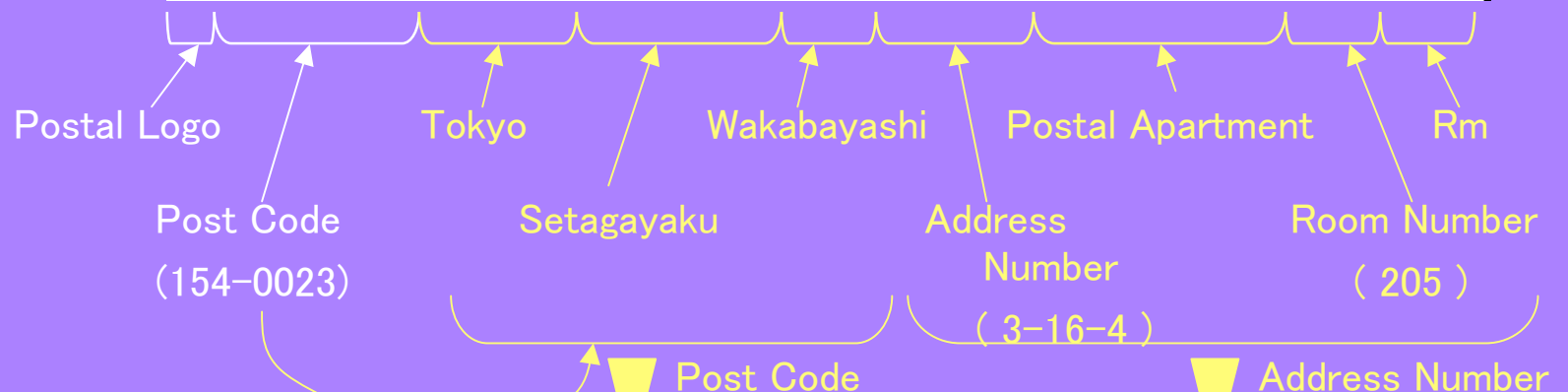
IWFHR-9 (2004)

Address conversion to Barcode



Address: in English: Rm205 Postal Apartment, 3-16-4 Wakabayashi, Setagayaku, Tokyo 154-0023

Address: in Japanese: 〒154-0023 東京都世田谷区若林3-16-4 郵政アパート 205号室

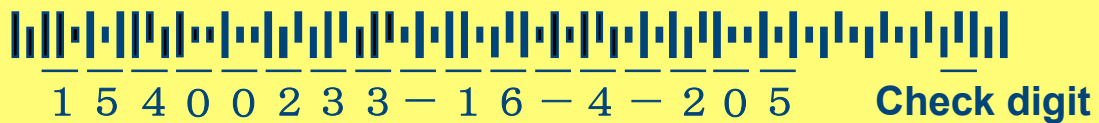


1540023

3-16-4-205

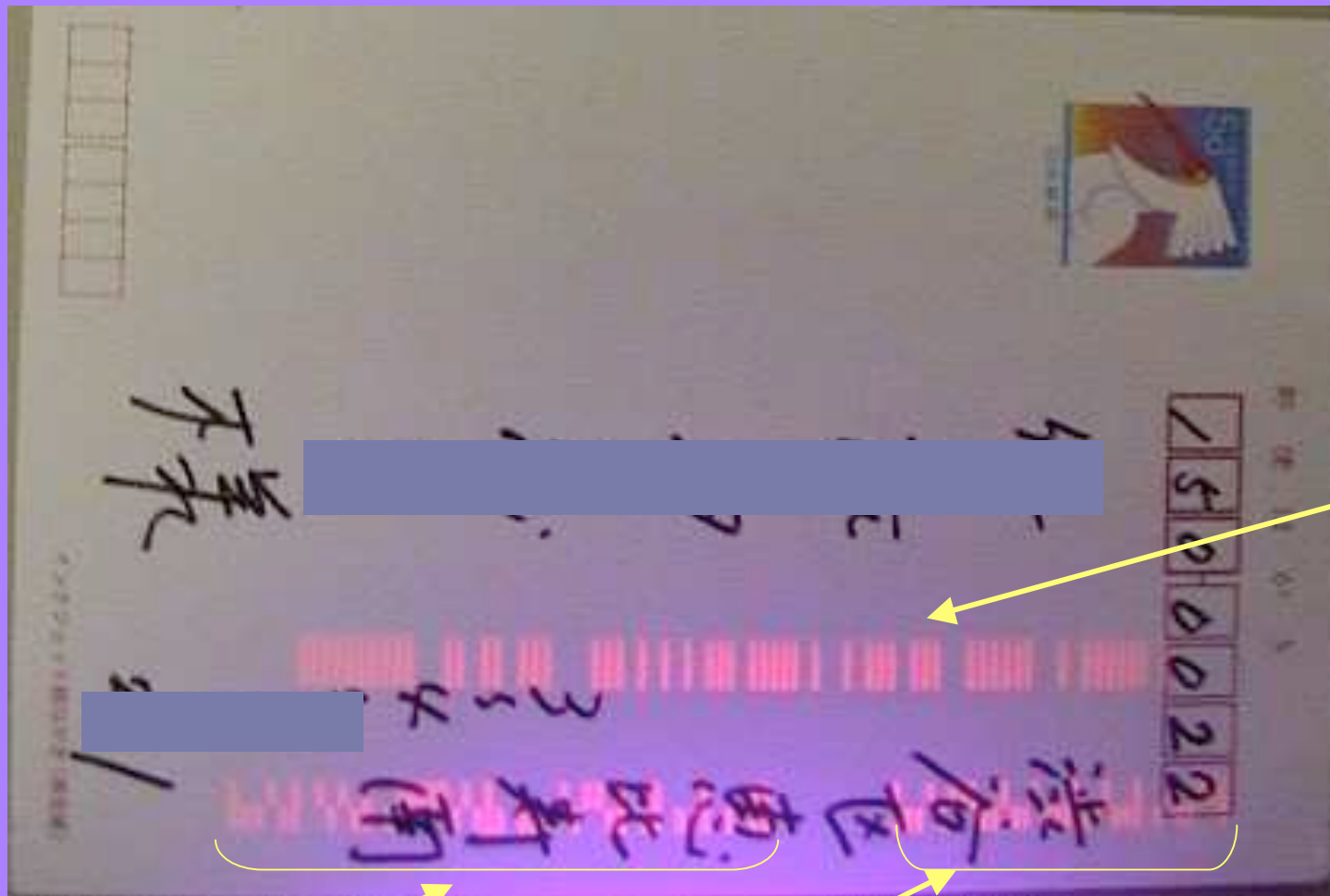
Bar code Data: 1540023 3-16-4-205

Bar code :



IWFHR-9 (2004)

Excited Invisible Barcode



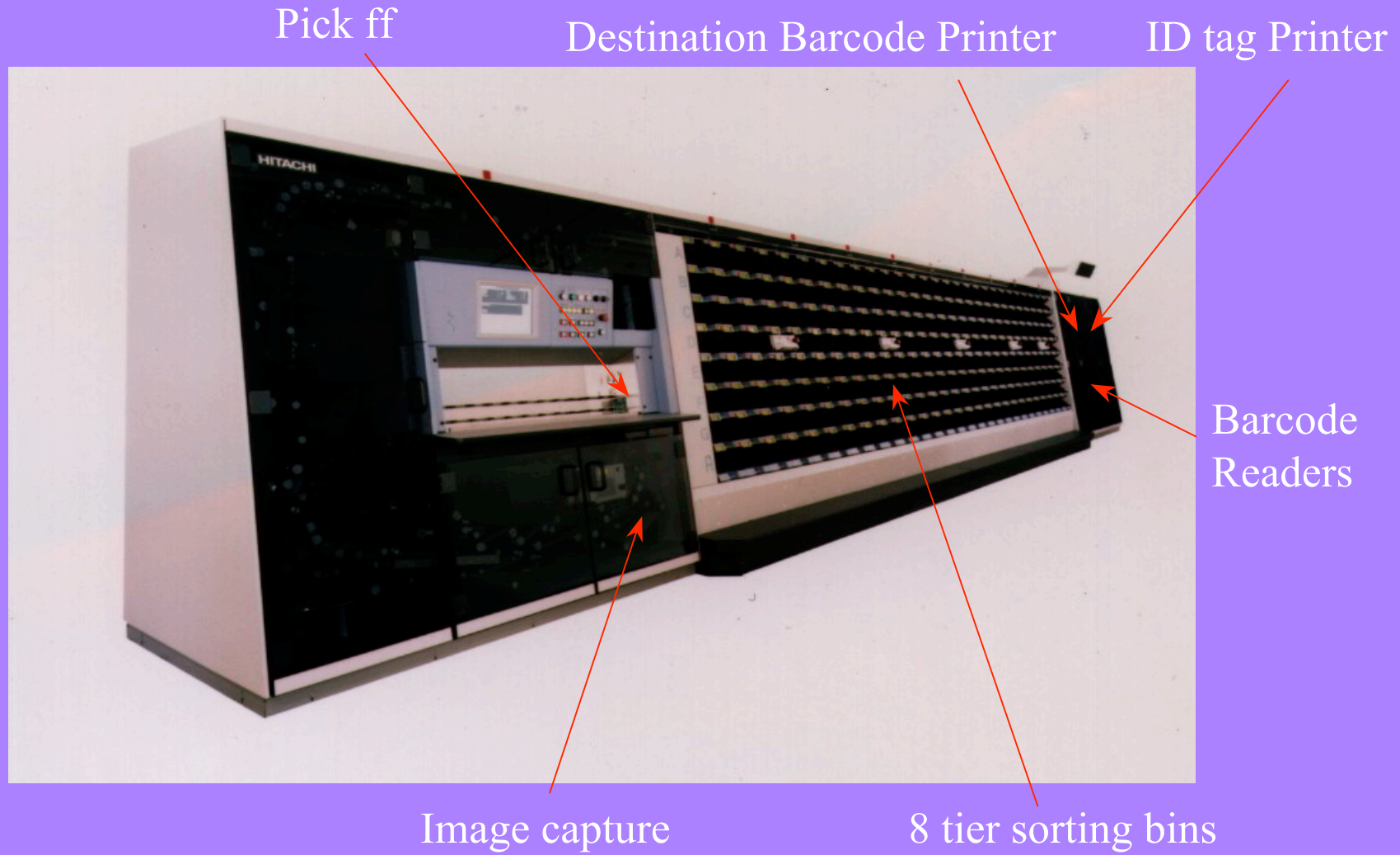
ID tag

13 digit Destination Barcode
(Address Number)

7 digit Destination Barcode
(Postcode)

IWFHR-9 (2004)

Advanced OCR Sorter



IWFHR-9 (2004)



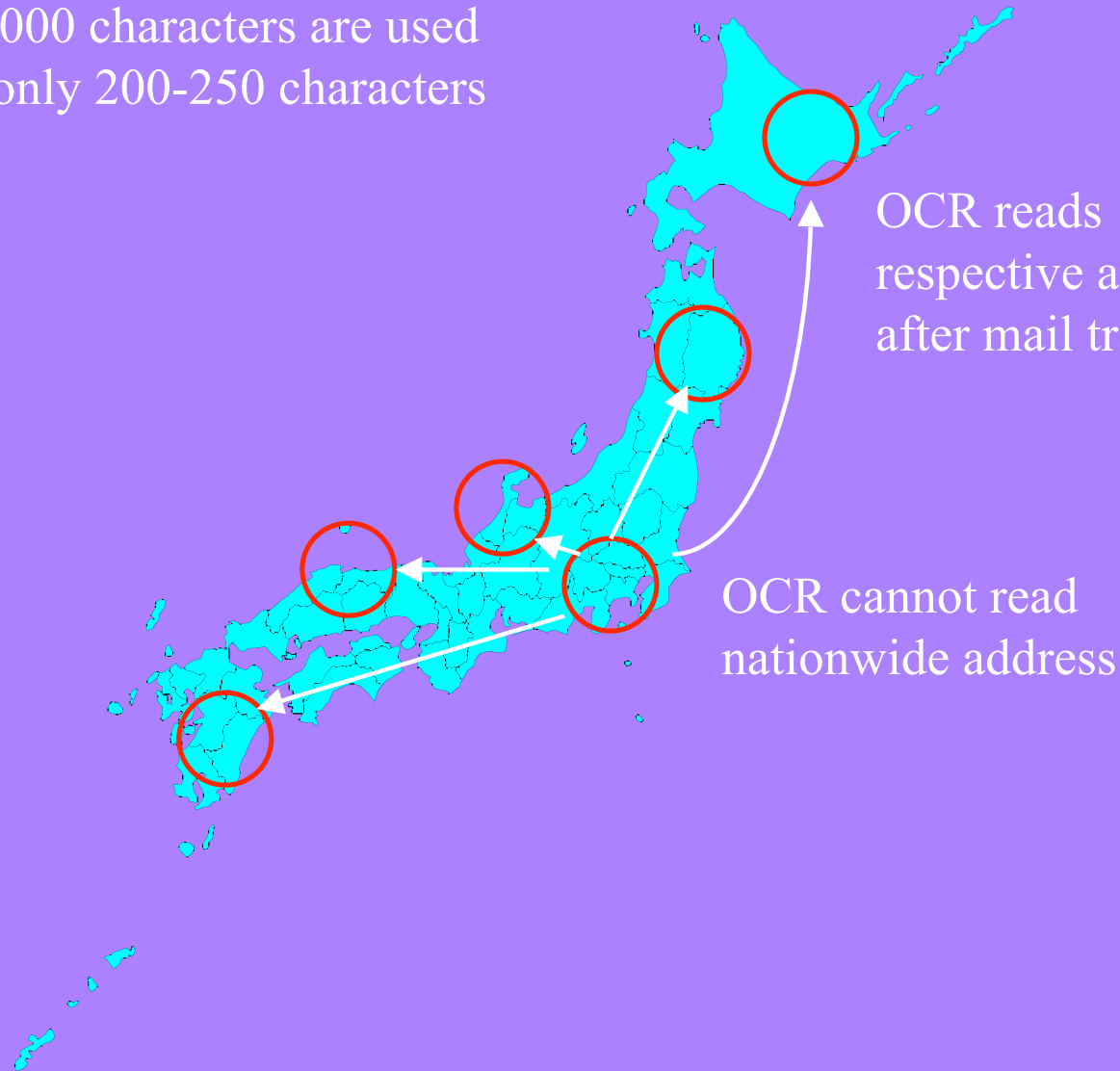
OCR reading

Number of OCR Sorting Machines	1,127 machines
Read rate of Sorting Machine OCR	76%
Read rate of Secondary OCR	46% $(100\% - 76\%) \times 46\% = 11\%$
Video coding rate (Manual keying)	13%

IWFHR-9 (2004)



In address 3000 characters are used
OCR reads only 200-250 characters

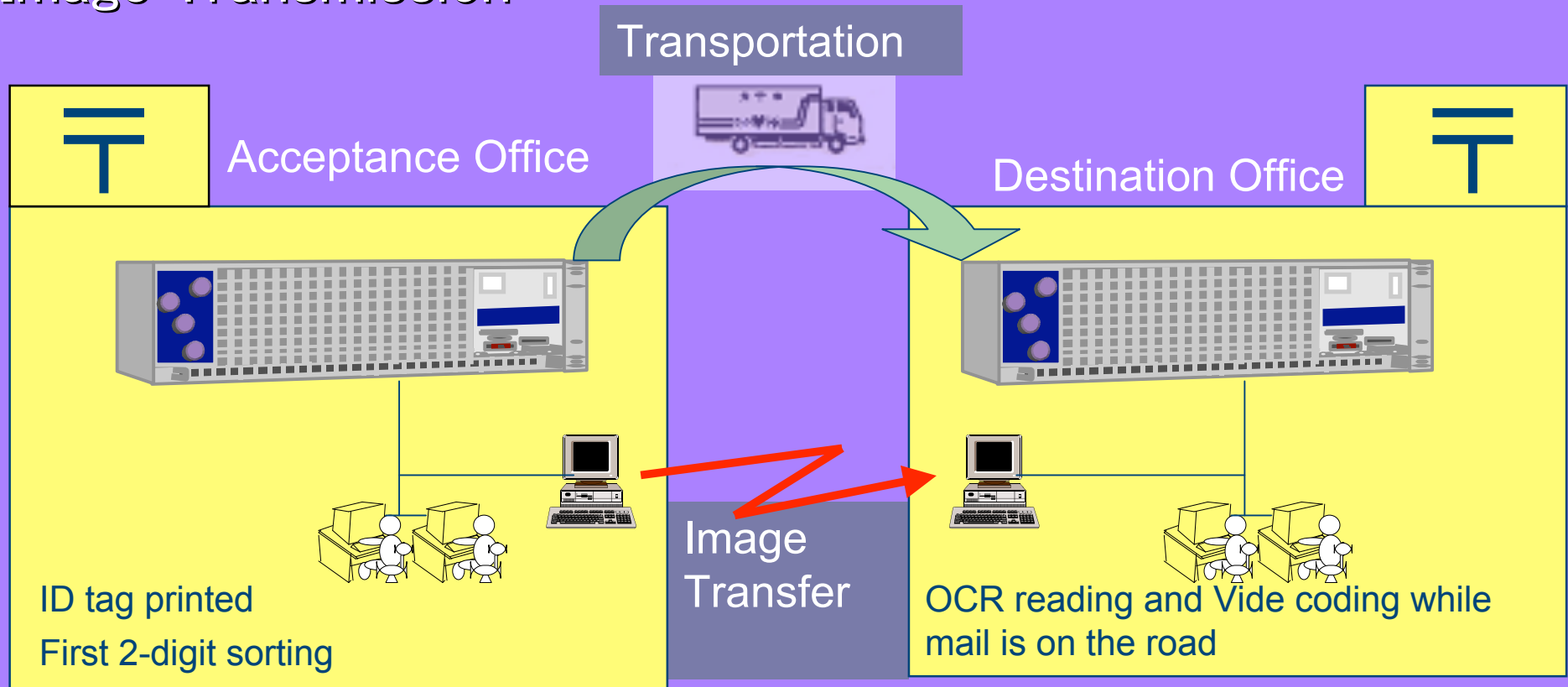


OCR reads
respective area address
after mail transportation

OCR cannot read
nationwide address

IWFHR-9 (2004)

Image Transmission



Images and ID tag information are sent to the destination offices where OCRs with detailed address information are installed and the Video Coding operators have profound knowledge of the local address.

IWFHR-9 (2004)

Expectation



Read rate improvement : operational efficiency

Read error reduction : reduction of sortation error

Exact address block location: file size to transmit