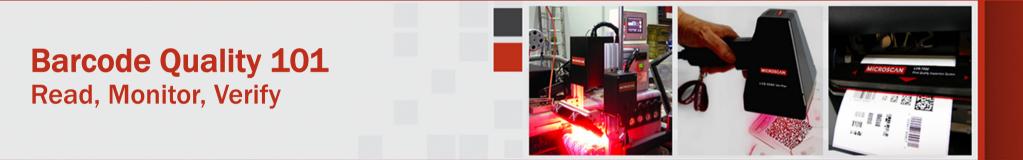
MICROSCAN.



In-Position Technologies

Barcode Quality 101

WHAT IS A BARCODE?

Barcodes can be 1D (linear) with bars and spaces, such as EAN and UPC codes, or 2D (two-dimensional), such as Data Matrix or QR Codes A barcode is an optical, machine-readable, representation of data; the data usually describes something about the object that carries the barcode.....



WHY USE BARCODES?

Ensuring traceability in the supply chain

- Increase efficiency
- Improve quality & throughput
- Reduce costs

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ARE THEY EXPENSIVE OR DIFFICULT TO IMPLEMENT?

- You can print a barcode at the cost of the label, so there no additional costs, as human readable text and/or logo is usually already printed on the product or label.
- A barcode can be read by a wide variety of barcode readers, either manually or as part of an automated process
- There are industry standards that you might need to comply to, such as GS1 or ISO



Why do good codes go bad?

•••••• TWO PRINCIPAL CAUSES ••••••



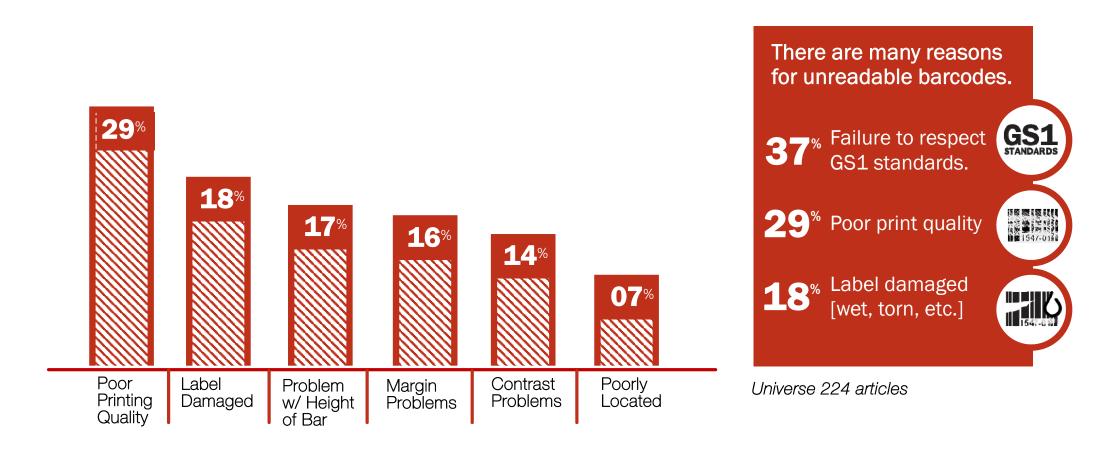
Barcode illegibility, which may be a result of poor printing quality, failure to observe height and margin requirements, contrast problems, damaged labels etc.



Incorrect data, due to an incorrect - or non-existent – entry indicating for example the characteristics of the article in a store's information system.

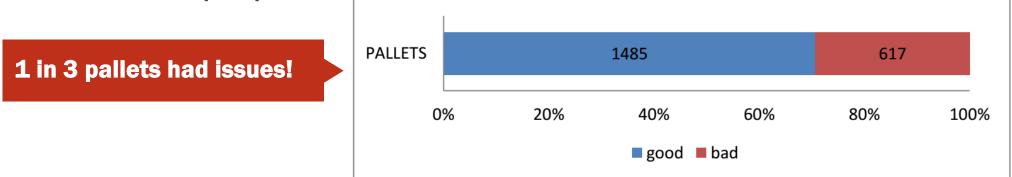
How common are barcode and label problems? **Some Statistics:** GS1 publications, retail survey

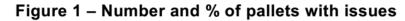
Breakdown of label-related problems by type



Some statistics, GS1 publications, logistics survey

The 14 MOs^{*} participating in the process together visited 18 Distribution Center & reviewed a total of 2101 pallets. Of these, 617 were described with problems or issues (29%).









good bad *MO=GS1 Member Organization

How can you conquer these issues?

- Do a read test by scanning the code with a barcode scanner
- Monitor the mark quality with a machine vision solution using smart cameras and software
- Verify the code, by making an absolute measurement to industry standards – using a specialized barcode verification solution



AutoVISION w/MicroHAWK ID-40



LVS Verification

