

ON QUANTIFICATION OF TRACEABILITY

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WE SEE IT!



THE IMPORTANCE OF TRACEABILITY







PREVENTS COUNTERFEITS

Drug Counterfeiting Industry: > \$5 billion

- ~18.7% of drugs in Africa are substandard or falsified
- ~13.7% of drugs in Asia are substandard or falsified

KEEPS STAKEHOLDERS ACCOUNTABLE

Encourages good practices throughout the manufacturing and distribution process, holding every stakeholder accountable for any lapses in quality control.

ENSURES TRANSPARENCY

Visibility, Assurance to the consumer and regulators about the entire supply chain and quality control measures taken for the production and distribution of life saving products.



INCREASES SUSTAINABILITY

Reduces the need for sampling and testing for counterfeits throughout the supply chain. Reduction in counterfeits also results in lower destruction/waste of materials used for their production.





THE EVOLUTION OF SERIALISATION

CODING





(01)09099999543217
(17)100521
(10)ABC123
(21)ABCDEFG123456789























QUALITATIVE vs QUANTITATIVE INSPECTION

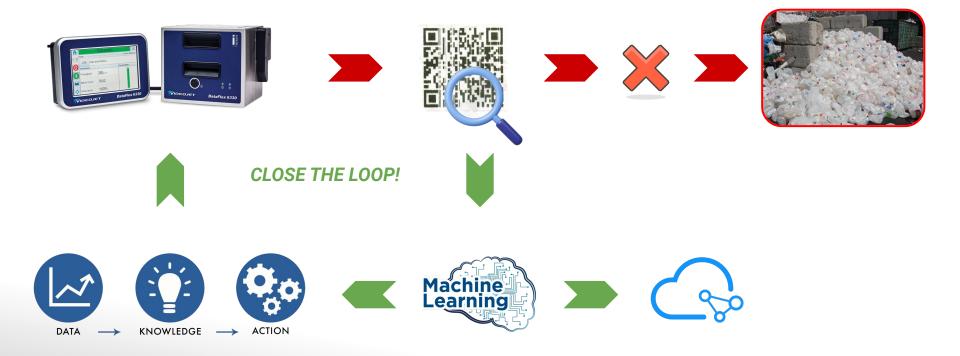






QUALITATIVE vs QUANTITATIVE INSPECTION







QUANTITATIVE INSPECTION & TRACEABILITY





BOTTLE INSPECTEDShape Variability 0.8%, allowed tolerance limit 2.0%
Colour Variability 0.2%, allowed tolerance limit 2.0%TABLETS INSPECTEDAverage Size Variability 0.5%, allowed variability 1.0%
Average Colour Variability 1.0%, allowed variability 2.0%
Average Surface Consistency 2.0%, allowed variability 2.5%INDUCTION SEAL INSPECTEDSealing Temperature 84°C, allowed temperature range 80°C - 87°C
Sealing Variability 3.0%, allowed variability 5.0%LABEL INSPECTEDPosition variability 2.0%, allowed variability 5.0%
Printing variability 3.0%, allowed variability 5.0%
Barcode scanned and verified
Serialisation scanned and verified



TODAY'S CHALLENGES IN TRACEABILITY





STAKEHOLDER AGREEMENT









INTEROPERABILITY



REGULATION



IMPLEMENTATION COST



KEY TAKEAWAY:

QUANTIFICATION REDUCES WASTE AND PROVIDES ASSURANCE THROUGH DATA

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