

Barcode Quality Assessment at POS (Point of Sale) and poor quality barcode impact on POS efficiency

Edgars Pentjušs, GS1 Latvija Gatis Pakalnieks, Supernetto





RIMI Latvia network



	Rimi Baltic	Latvia	Lithuania	Estonia
Total	243	101	65	77
Rimi supermarkets	67	30	27	10
Rimi hypermarkets	36	14	13	9
Hard discounters	139	57	25	57
Cash & Carry	1			1
DC	3	1	1	1





What happens if retailers accept poor quality bar codes



Stand in queue again! ⊗

Poor Customer Service at Checkouts
Frustration by Staff and Customers
Product Dislike and Avoidance
Extra costs to fix them.
Affects all systems (POS, replenishment)







Cashiers always try to solve the barcode quality problems by



- Manipulating the product, its packaging to get the correct scan
- Call colleague to check the correct barcode number at shelves
- Maintains the self made correct barcode catalogue for frequently damaged codes
- Learning top 5 non scanning barcode numbers by heart

Rimi Baltic/Supernetto barcode quality conformance program



Latvija	Kréjuma chojuj gňep 2.0 kg
Quick Check 890: Scan Grade Report Filename: 2372335022889_2.sgf Date: 23-Oct-2009 Scan: 10 of 10	A method in Company, benchman of the plane a server, dame tables as setting and the plane and the plane and the plane setting as the plane and the plane and the plane setting as the plane and the plane and the plane and the plane and the plane and the plane and the plane term is a setting as the plane and the plane and the plane term is a setting as the plane and the plane and the plane term is a setting as the plane and the plane and the plane term is a setting as the plane and the plane and the plane term is a setting as the plane and the plane and the plane term is a setting as the plane and the pl
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Failure Summaries: Scan data Reflectance Dimensional Format	Paskaidrojums: svlnkoda simbola pärbauda tika veikta ar ISO/IEC 15405 ethilatoia veifikatora un ievärojet ISO/IEC 15416 svlnkoda drukas kvalilätes pärbaudas noaciljamus, ku noteikas, ka minimäliajan svänkoda kvalilätes norörtäjämam janbila: C - 1.5 (JSO gravár) påe ISO/ANSI noväräjäma skulas* an oSI paranetteime* - OK (<i>Trasiliuosi gravir)</i> . *ISO/ANSI noväräjamu skalas (ISO gravde) tabula:
Miscellaneous Applications failure	ANSI ISO/CEN Komentäri: A 3,59 - 4,00 leskaitits B 2,59 - 3,50 leskaitits C* 1,5 - 2,50 leskaitits D 0,5 - 1,50 leskaitits F 0 - 0,5 lzekritis
Edgars Pentjušs projektu voditajs tale. 67830821	**GS 1 parametru novērtējums (Traditional grade): OK OK Ieskaitts F Failed Ederitis
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Since September 2009, in order to prevent loses from accepting poor quality barcodes, our suppliers are asked to verify their barcodes against minimum ISO print quality requirements and traditional GS1 standards.

More information about barcode verification on GS1 Latvia site:

http://www.gs1.lv/?mid=18

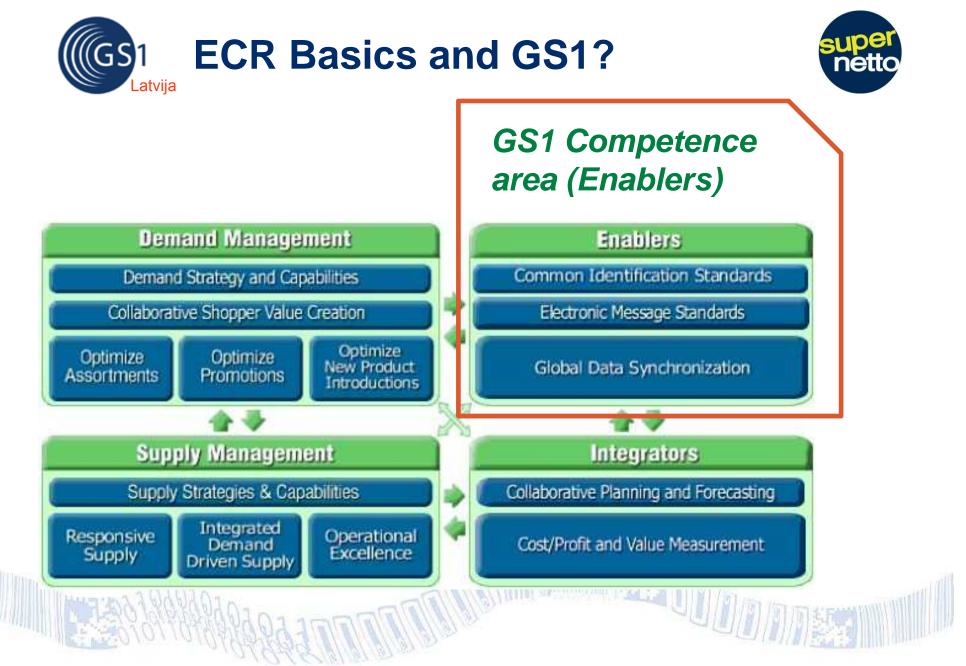
GS1 standards used by millions of GS Latvija companies



Countries with a **GS1** Member Organisation

Countries served on a direct basis from GS1 Global Office (Brussels)

108 Member Organisations. 150 countries served. 2,000 people helping us.







First introduced at POS 35 years ago and the first passed Marsh Supermarket (US) checkout on Wrigley chewing gum pack

Estimated annual cost savings of \$17 billion (USD 17'000'000'000) in the grocery sector alone, according to the GS1 US and PWC survey.
Europe/World







 Scans with the first time, every time
 The product number (GTIN) registered and maintained in Global GS1 system
 Has correct location on the product, easy to find and bring to the scanner
 Comply with minimum requirements of traditional GS1 (Dimensional) and ISO print quality requirements;
 Has correct orientation (Ladder or picket

fence), depends from product shape and

print technique.





Inspired by GS1 FRA / Carrefour / IRI survey whereas





31 billion annual POS item transactions in France

2% had reading errors

23 seconds on average to resolve each error

Poor quality barcodes cost time and money

20% of super/hypermarket shoppers had a poor experience due to non-conform barcodes.

The equivalent of 2700 cashiers per year spend time trying to solve these problems.





≻1300 control scans

≻45 products with potential reading problems

Suppliers advised to do the barcode ISO print quality and traditional GS1 verification;

>Suppliers encouraged to do the corrective measures

for the barcode labels and/or packaging

improvements.

Field survey on cashiers' time spent on solving

barcode errors





Always consult with designer and packaging company to avoid corner wraps and package flaps.
 Barcode orientation on cylinders = ladder







Print quality of barcodes must comply with ANSI grade A, B or C (equivalent ISO grade 1.5 and higher), provided that evaluation thereof is carried out following the methods set forth in the standard ISO/IEC 15416:2000

The most common mistakes: Insufficient height and quite zones





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Omni directional scanning environment at POS



Left and right quite zones







and the Award goes to ...





1129 pieces sold per Day with an average 20 sec for manual entry at POS is 188 working hours per month

1 extra full time cashier for retailer and an average 3-4 people standing in the queue for 40 hours per week on customers side

Barcode quality remains important also for tomorrow...







Increasing number of **Self** checkout services and the use of mobile phones for scanning barcodes by shoppers may require quality barcodes in the future to be read by all.



