TITLE: THE GS1 TRACEABILITY STANDARD

SESSION3: Overview of Available Tools and Technologies (Food Processor / Retailer)
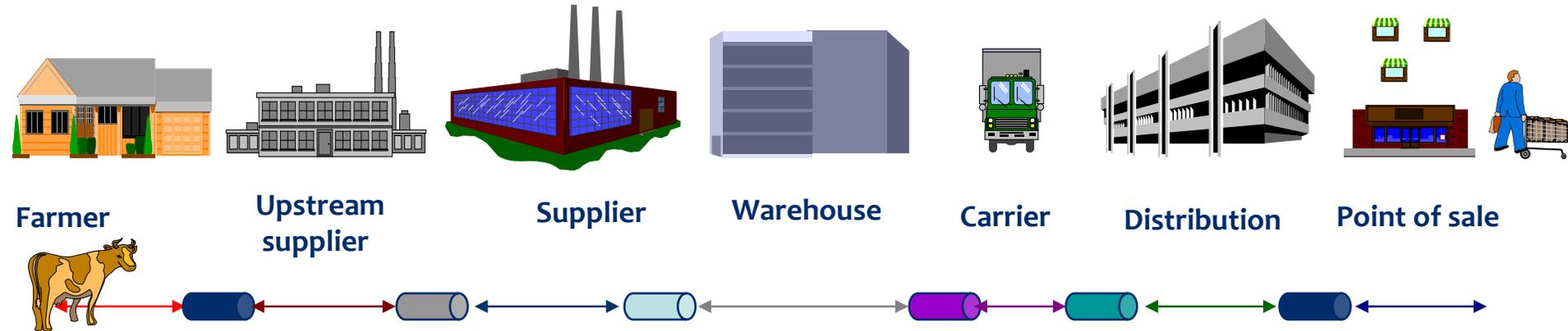
OIE International Conference on Animal Identification and Traceability

Roberto Matsubayashi
March 2009

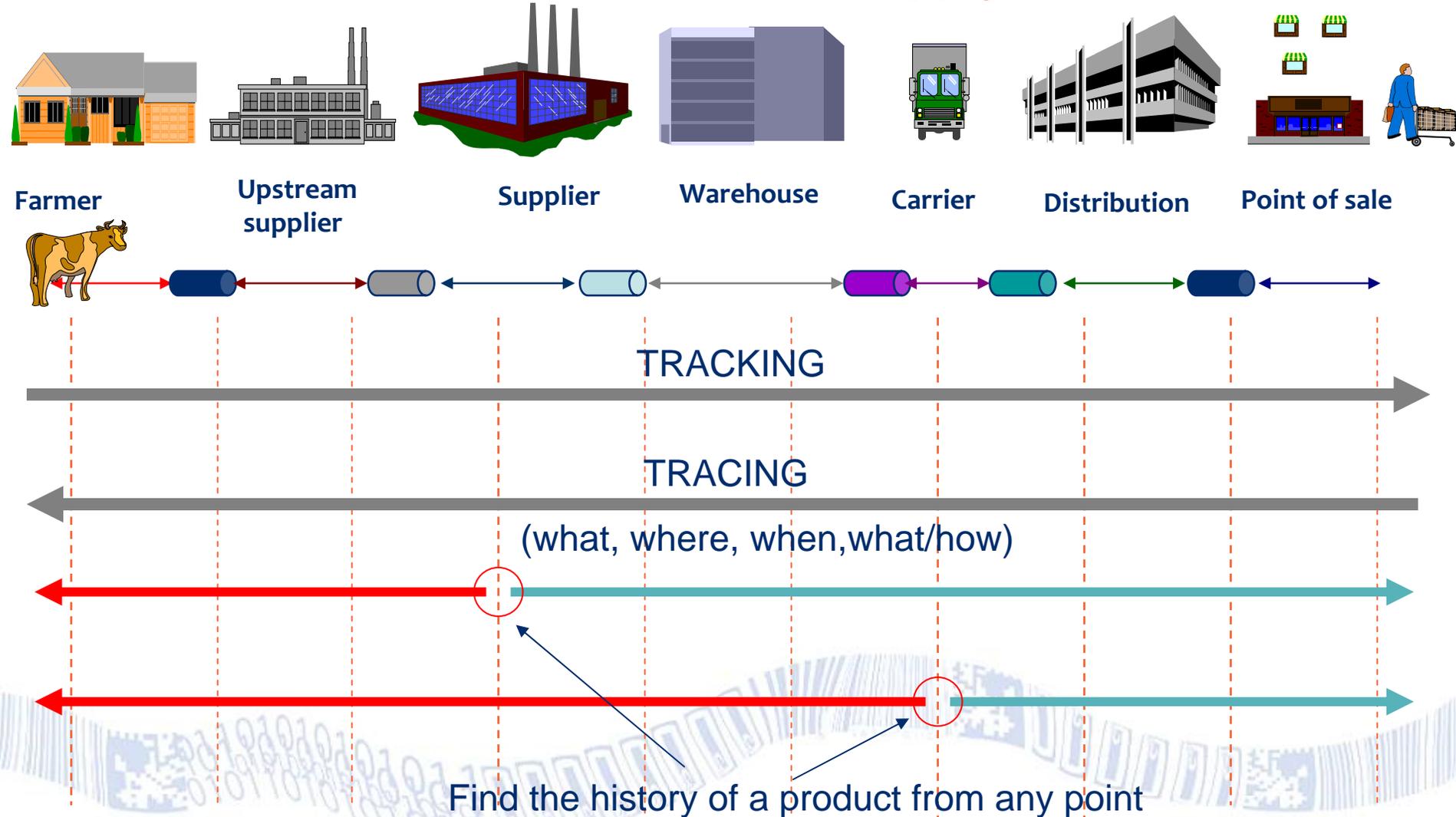# TRACEABILITY: matching information flow with physical flow

Farmer   **Upstream supplier**   **Supplier**   **Warehouse**   **Carrier**   **Distribution**   **Point of sale**

Information Flow

Product Flow

17891234500011

TRACEABILITY: matching information flow with physical flow
In the whole supply chain

Farmer	Upstream supplier	Supplier	Warehouse	Carrier	Distribution	Point of sale

TRACKING

TRACING

(what, where, when,what/how)

Find the history of a product from any point
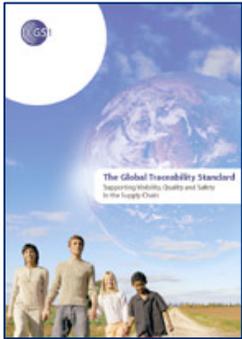
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GS1 Traceability

Complete Standard based Traceability Solutions

GTS - GS1 Global Traceability Standard

The GS1 Global Traceability Standard (GTS) provides a powerful tool for implementing traceability in the supply chain based on the GS1 System of standards and best practices.

GS1 Implementation Guidelines & Support

Wide variety of publication to help the community to understand and implement traceability.
Industry specific Implementation Guideline, Cases Studies, and other educational publications.

GTC - GS1 Global Traceability Conformance

Methodology, technical criteria and technical documents to assess Traceability Systems based on GTS. Complies with ISO 22005:2007 and ISO 19011:2002

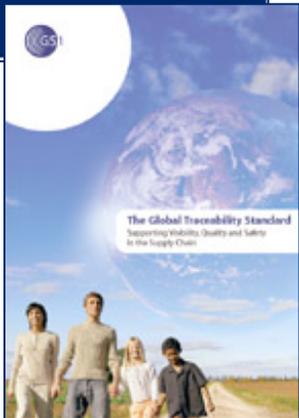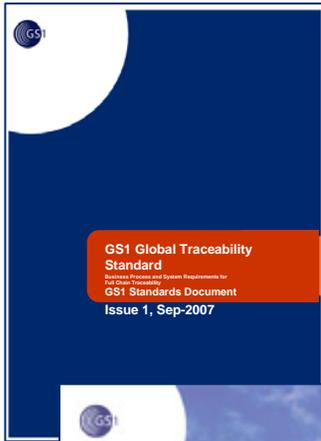# GS1 Global Traceability Standard - GTS

GS1 Global Traceability Standard

- It is a **framework** that defines minimum traceability system requirements for companies of all sizes across industry sectors

- Details the corresponding GS1 standards used within information management tools

- Meets the core legislative and business need to cost-efficiently trace back (one step down) and track forward (one step up) at any point along the entire length of the supply chain

- Describes the creation of accurate records of transactions

- Provides for fast data communication about the traceable item between trading partners

GS1 Global Traceability Standard

- Existing business practices,

- Common language,

- Broad-based

- Global approach,

- Flexible,

- Thorough,

- Establishing an open, global relationship between independent partners.

- It is not a standard for internal traceability

- It is not a law or regulation,

- It is not a replacement for a service provider,

- It is not a replacement for safety or quality programmes.

GS1 Global Traceability Standard
Business Process and System Requirements for
Full Chain Traceability
GS1 Standards Document
Issue 1, Sep-2007

The Global Traceability Standard
Supporting Visibility, Quality and Safety
in the Supply Chain

GS1 Global Traceability Conformance - GTC

GS1 GLOBAL TRACEABILITY CONFORMANCE

GS1 Global Traceability Conformance

What is the GTC?

It is a Programme developed to review Traceability Systems through:

- Methodology, technical criteria and technical documents
- Based on the GS1 Traceability Standard (GTS)
- Compliant with ISO 22005:2007 and ISO 19011:2002
- Optional : additional requirements (BRC, SQF, IFS, HACCP…)

Used for :

- Self-assessment
- Audit by GS1 MOs
- Audit by third parties with agreement with MOs
- Possibility of GS1 Seal

GS1 Global Traceability Conformance

What's in it for a company?

- Facilitate GTS adoption

- Assure to the market that has the right implementation of traceability system that:
  - ✓ has a Minimum Traceability level for every actor of the chain;
  - ✓ can be recognized by an international independent party;
  - ✓ address the main international traceability regulations, standards bodies and commercial requirements: WCO, IFS, ISO, Food laws ….
  - ✓ Benchmark the traceability between trade partners

GS1 Implementation Guidelines & Support

GS1: A **global** system of standards

GS1 designs and implements a global system of supply chain standards

GS1 standards provide a framework that allows products, services, and information about them to move efficiently and securely for the benefit of businesses and the improvement of people's lives, everyday, everywhere

GS1 System is global, user driven, open, multi-sectorial and for voluntary use.

Global reach, local presence

Countries with a GS1 Member Organisation

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

108 Member Organizations.

150 countries served.

2,000 people helping us.

GS1: Bringing companies together

GS1 brings together companies representing all parts of the supply chain

Manufacturers, distributors, retailers, hospitals, transporters, customs organisations, software developers, local and international regulatory authorities, and more work together under our leadership to create standards
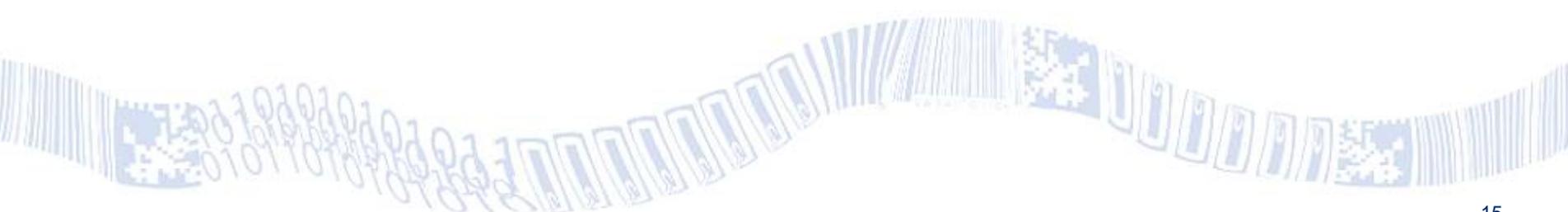
Our four key STANDARDS areas

GS1 BarCodes

Global standards for automatic identification
Rapid and accurate item, asset or location identification

GS1 eCom

Global standards for electronic business messaging
Rapid, efficient & accurate business data exchange

GS1 GDSN

The network for global data synchronisation
Standardised, reliable data for effective business transactions

GS1 EPCglobal

Global standards for RFID-based identification
More accurate, immediate and cost effective visibility of information
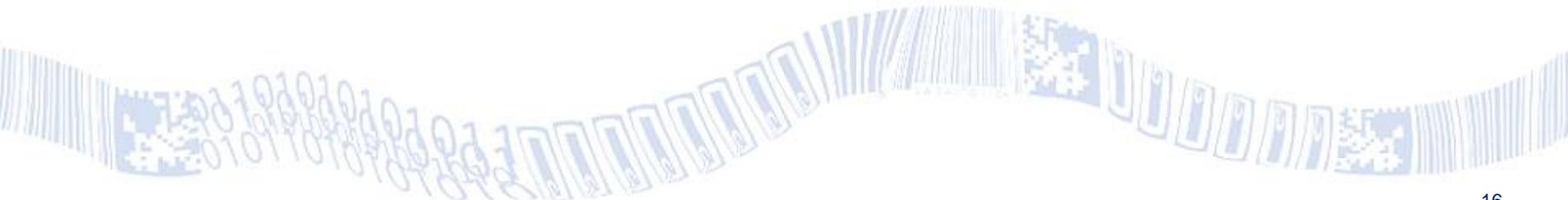
Meeting needs in many sectors

Fast moving consumer goods

Fresh foods

Healthcare

Customs, transport & logistics

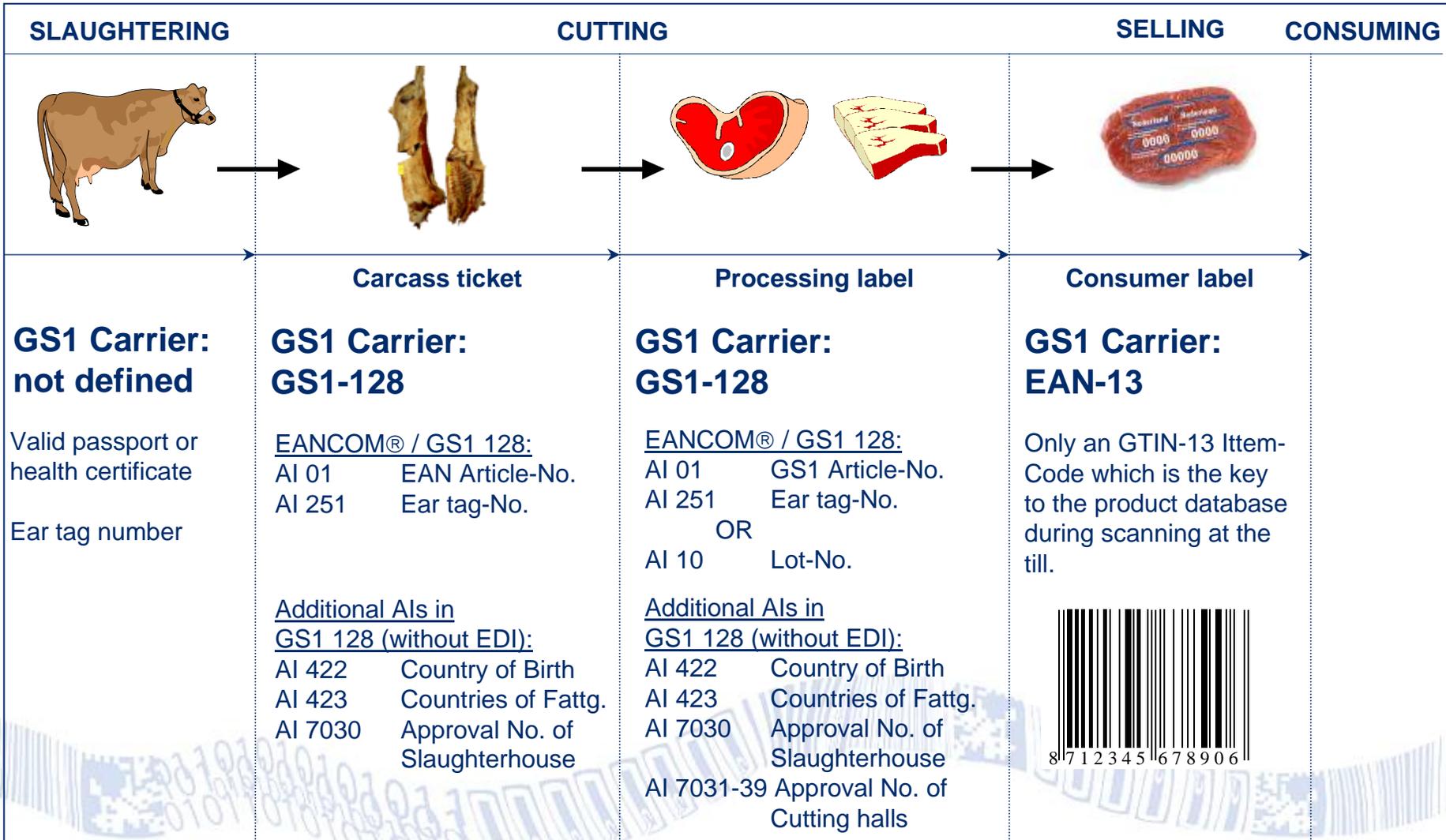# GS1 Implementation Guidelines

For instance for Beef Traceability with respect to EU Reg. 1760/2000

SLAUGHTERING	CUTTING		SELLING	CONSUMING

|	**Carcass ticket**	**Processing label**	**Consumer label**
GS1 Carrier: not defined	**GS1 Carrier: GS1-128**	**GS1 Carrier: GS1-128**	**GS1 Carrier: EAN-13**
Valid passport or health certificate	EANCOM® / GS1 128: AI 01 EAN Article-No. AI 251 Ear tag-No.	EANCOM® / GS1 128: AI 01 GS1 Article-No. AI 251 Ear tag-No. OR AI 10 Lot-No.	Only an GTIN-13 Ittem-Code which is the key to the product database during scanning at the till.
Ear tag number	Additional AIs in GS1 128 (without EDI): AI 422 Country of Birth AI 423 Countries of Fattg. AI 7030 Approval No. of Slaughterhouse	Additional AIs in GS1 128 (without EDI): AI 422 Country of Birth AI 423 Countries of Fattg. AI 7030 Approval No. of Slaughterhouse AI 7031-39 Approval No. of Cutting halls	

8 712345 678906

Answers needed to new questions

Where does the food your family eats come from? How did it get to your supermarket? What route did it take to get there?

The answers lie in **traceability applications and systems**, which need to know everything that happens, at every step of the way, from the farm to your kitchen table. **GS1 standards can make these systems possible.**
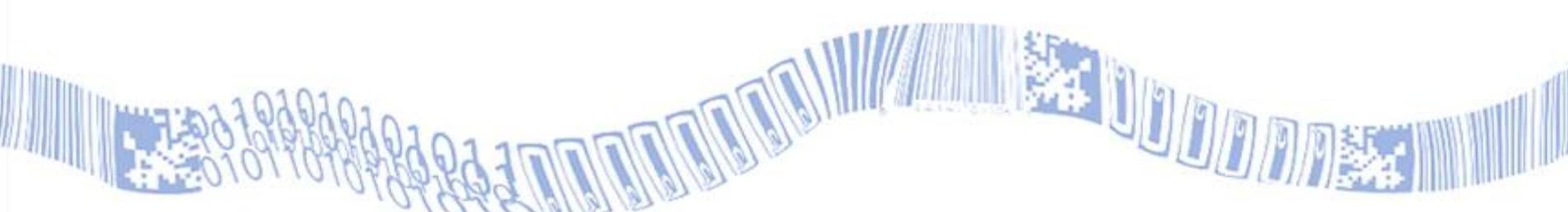
For more information:
www.gs1.org
www.gs1brasil.org.br

Thank You!

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