

Integrated use of global standards to establish an effective traceability system for food products

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GS1: A global system of standards

GS1 designs and implements a global system of supply 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





GS1: Bringing companies together

to create standards

GS1 brings together companies representing all parts of the Manufacturers, distributors, retailers, hospitals, transporters, customs organisations, software developers, local and international regulatory authorities, and more work together under our leadership





Our vision & mission



A world where things and information about them move efficiently and securely for the benefit of businesses and the improvement of peoples' lives, everyday, everywhere

lop and implement-global -

dards providing the tools,

and confidence needed to

To be the neutral leader

achieve our vision







Helping businesses work more efficiently



GS1 BarCodes: The most well-known and universally recognizable GS1 standard.

Businesses and organisations around the world use them to **automatically**









Global standards for electronic business messaging

Rapid efficient & accurate business data exchange



GS1 GDSN[®] Enabling new ways of working together



To work together, companies need to share accurate, properly classified data.

The GS1 Global Data Synchronisation Network (GDSN) enables companies who do business with each other to always have the same information in their





Better visibility throughout the supply chain



GS1 EPCglobal® standards put RFID technology to work for businesses and for people.

With GS1 standards encoded on RFID tags, business people can know **what** an item is, **where** it has been and **when** it was there. It's also possible to deduce **why** it was there and in combination with

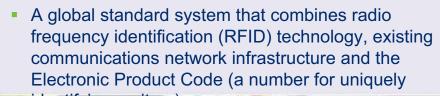
wing this enables much more effective streamlined processos across retail supply chains in many moustries.



GS1 EPCglobal

Global standards for RFID-based identification

More accurate, immediate & cost-effective visibility of information







GS1 Sectors

GS1 standards meet the needs of companies from many different sectors, not just CPG

UMMA





GS1 Solutions Using GS1 standards to solve business problems



GS1 Global Traceability Standard









Food safety is one of the policy areas of the European Union

Agriculture	Energy	Information society	
Audiovisual and media	Enlargement	Institutional affairs	
Budget	Enterprise	Internal market	
Competition	Environment	Justice, freedom and security	
Consumers	External relations	Maritime affairs and fisheries	
Culture	External trade	Public health	
Customs	Fight against fraud	Regional policy	
Development and Cooperation	Food safety	Research and innovation	
Economic and monetary	Foreign and security policy	Taxation	
Education, training, youth	Humanitar an aid	- Tangan -	-
Employment and social affairs	tumen rights		
Property Aller			
	Audiovisual and media Budget Competition Consumers Culture Customs Development and Cooperation Economic and monetary affairs	Audiovisual and media Enlargement Budget Enterprise Competition Environment Consumers External relations Culture External trade Customs Fight against fraud Development and Cooperation Food safety Economic and monetary affairs Foreign and security policy Education training, youth Humanitarian aid	Audiovisual and mediaEnlargementInstitutional affairsBudgetEnterpriseInternal marketCompetitionEnvironmentJustice, freedom and securityConsumersExternal relationsMaritime affairs and fisheriesCultureExternal tradePublic healthCustomsFight against fraudRegional policyDevelopment and CooperationFood safetyResearch and innovationEconomic and monetary affairsForeign and security policyTatagetEducation, training, youthHumanitarian aidTataget

Source: portal of the EU http://europa.eu/pol/index hu.htm



European Union's food safety strategy

The base of the European Union's food safety strategy is the principle of **From the Farm to the Fork**, which includes the entire supply chain

Thus, a comprehensive food safety strategy has been developed, which include:







European Union's food safety strategy

The **traceability of food** is one of the main elements of the food safety strategy

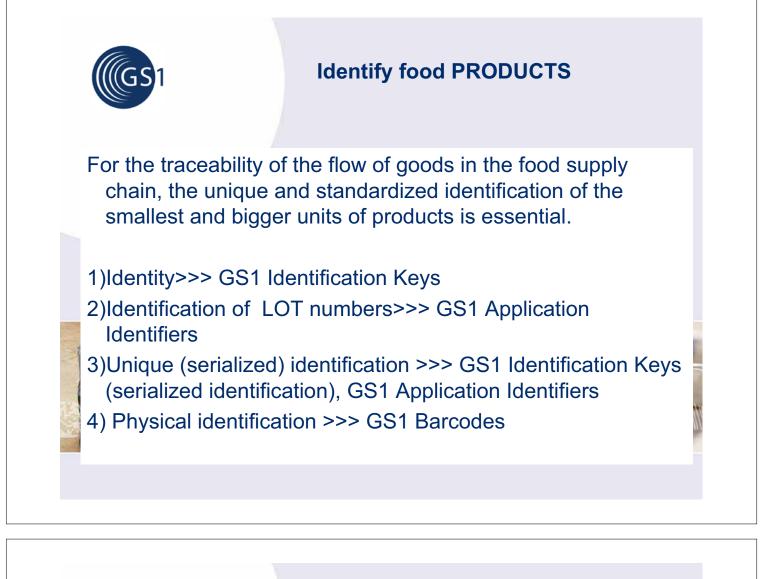
This allows the identification of food and enables the verification if the regulations are met in every phase of the production, processing and distribution.





Integration of standards

How can global standards serve foord traceability?





Identify ORGANISATIONS in food supply chain

Unique identification of organizations in the food supply chain

- External identification of organizations (partners: suppliers, customers)
- Internal identification of organizations (organizational units)

GS1 Identification Keys: *Global Location Number (GLN) for organizations*

GLN is associate with a standard hierarchy which enables all the GS1 Identifiers be available



Identify LOACTIONS in food supply chain

Traceability of actual location and route of products in the food chain is only possible with appropriate location identification

Globally unique identification physical and geographical locations in connection with GPS based positioning

GS1 Identification Keys: Global Location Number (GLN), Serialized Global Location Number (sGLN)



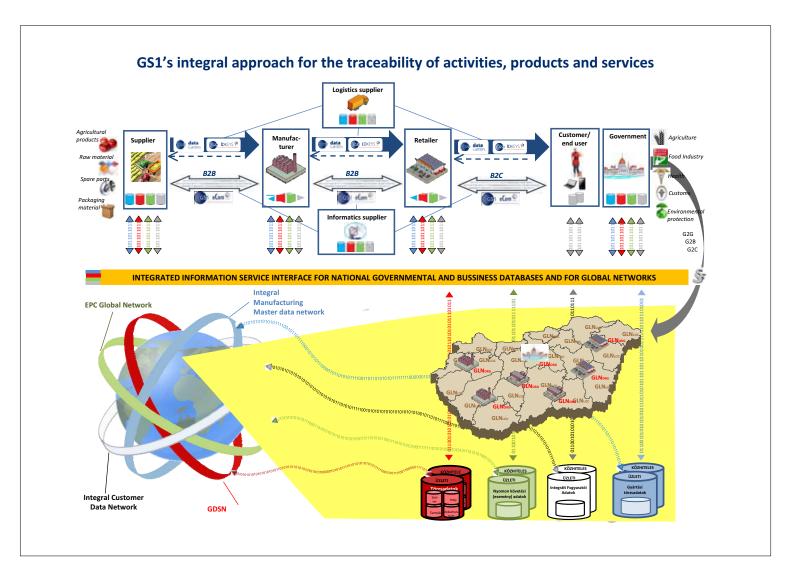
Identify DOCUMENTS in food supply chain

B2G communication: documents affected by obligations on registries, reports and providing certain data >>> addressed to the authorities in charge

B2B communication: documents of receive and sending processes >>> to business partners (parties)



GS1 Identification Keys: Global Document Type Identifier (GDTI), GS1 Electronic Business Message Standards (EANCOM, GS1 XML), GS1 based Data Synchronization (GDSN)





Summary

mentioned system cleme

supply chain, from th

 GS1 through its global standards together with the implementation of modern infocommunication solutions can support more efficiently the electronic traceability process of food products locally and globally.

GS1 actively supports the implementation of the before

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he whole food



For more information: www.gs1hu.org





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