INA Initiative für nachhaltige Agrarlieferketten

DIASCA

# DIASCA
## Traceability

September 2022

INA Initiative für nachhaltige Agrarlieferketten

# Pillars of Traceability

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**Identify**
Globally-recognised unique identification of products, assets, locations and more

**Capture**
Real-time accurate and automatic capture of data

**Share**
Efficient sharing of information from trusted and authentic sources

# Interoperability like a common language

Identify: Standards for Identification

## Vocabulary

Capture: Standards for Barcodes & EPC/RFID

## Font

Share: Standards for Data Exchange

## Grammar

# INA Initiative für nachhaltige Agrarlieferketten Requirements of a common language

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**Identify:** Standards for Identification

**Vocabulary** - worldwide unique

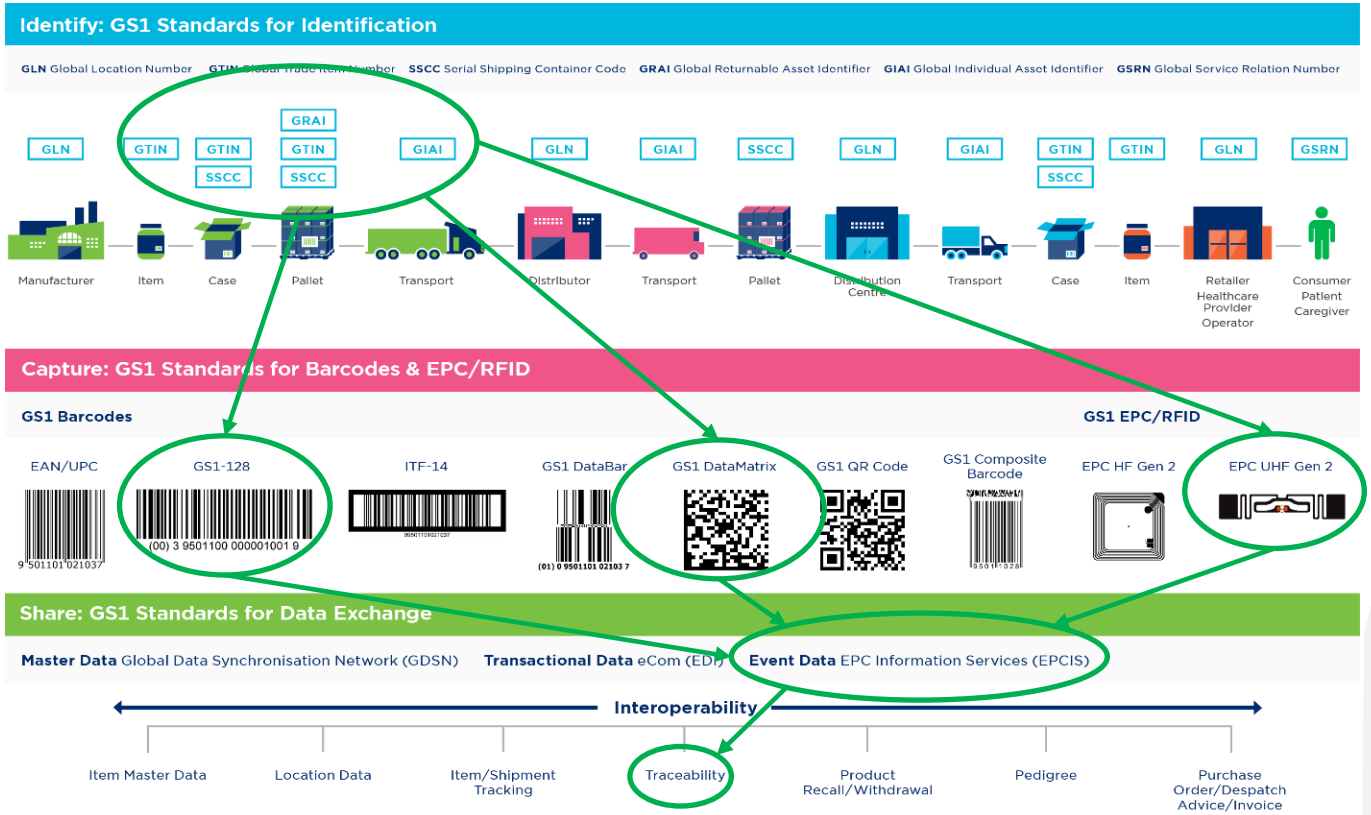
**Capture:** Standards for Barcodes & EPC/RFID

**Font** - commonly known and agreed

**Share:** Standards for Data Exchange

**Grammar** - valid across systems

# Example for Traceability System in use




Share

**GS1 Standards for Data Exchange**

**Master Data**
- Global Data Synchronisation Network (GDSN)

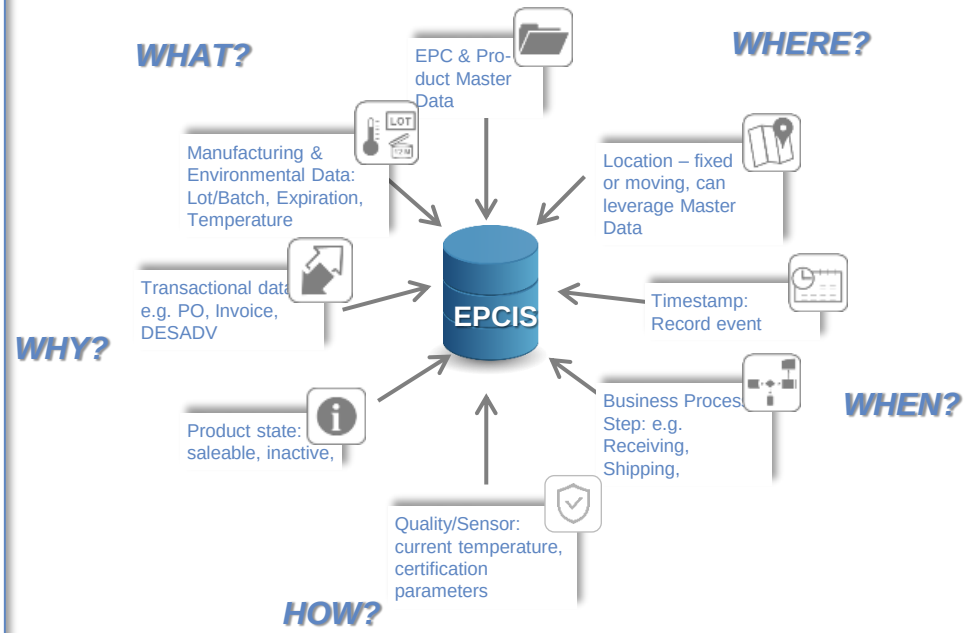
**Transactional Data**
- Electronic Data Interchange (EDI): EANCOM, GS1 XML

**Event Data**
- EPC Information Services (EPCIS)

# EPCIS and CBV The GS1 visibility standards

## Tracking lots and a high amount of individuals with EPCIS-based solutions

- **GS1 & ISO Standard to collect, store and provide value chain events on business level**
  - Framework to track events by **unique identified objects** in real time
  - Defines **interfaces** to capture and share/query data in
    - SOAP/XML and
    - REST/JSON(-LD)
  - **Version 2.0** ratified in July 2022
- **Usable for industry and existing applications**
  - Cross-industry Framework
  - Cross-industry and industry-specific **Core Business Vocabulary** available
  - Extendable by the user
- **EPCIS is an extension, not an replacement for existing Enterprise Information Systems**




find more information and the standards here: https://www.gs1.org/standards/epcis

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