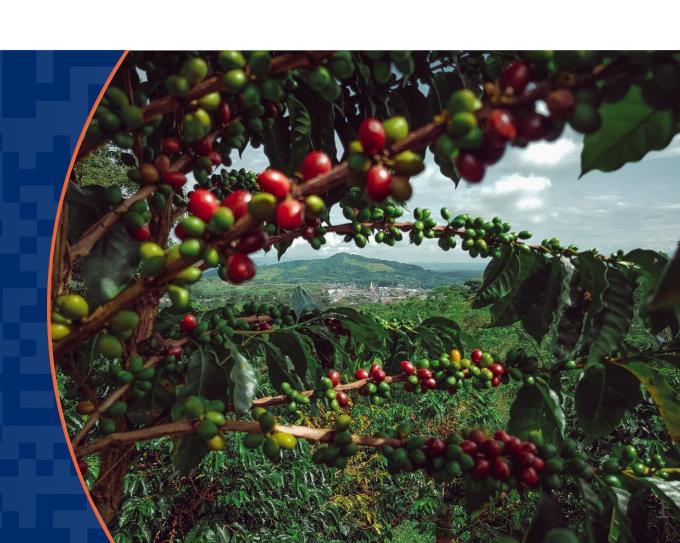


GS1 Sustainability

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Vision 2030: Ambition for Industry

Sustainability is at the core as we address industry needs



Market access and product listing



Operational efficiency across supply chain



Consumer experience and Patient safety



Sustainability and circular economy

Companies of all sizes can seamlessly reach markets and list products globally, relying on trusted GS1 identification, registries and product data standards.

Businesses enhance supply chain visibility, efficiency and resilience in global trade, leveraging GS1 standards and services to gain instant access to trusted product data. Billions of consumers have instant access to the story behind each product, whether shopping online or scanning a 2D barcode powered by GS1.

Patients benefit from improved safety and better outcomes as healthcare products carry a 2D barcode, scanned and used at point of care and across the supply chain.

Companies can comply with sustainability and regulatory needs while supporting the circular economy across global value chains, using GS1 standards and services for efficient product traceability.



Sustainability & circular economy: Importance of product identification and verifiable data



Increasingly regulatory initiatives have **product identification rules** (DPP, DRS) and/or **verifiable claims/data** (EUDR, CSRD, Scope 3)



Consumers demand real transparency on product footprint, traceability and recycling. This is both a **value driver** and a reputational **risk**!



Standards are key to ensure products, people, places and more are identified in an interoperable way, reducing implementation costs and missing data risks



Sustainability regulation demands global compliance: it impacts companies globally exporting/manufacturing products, components and packaging



GS1 Global Sustainability Programme

Global research identified four interrelated areas – central to the GS1 sectors

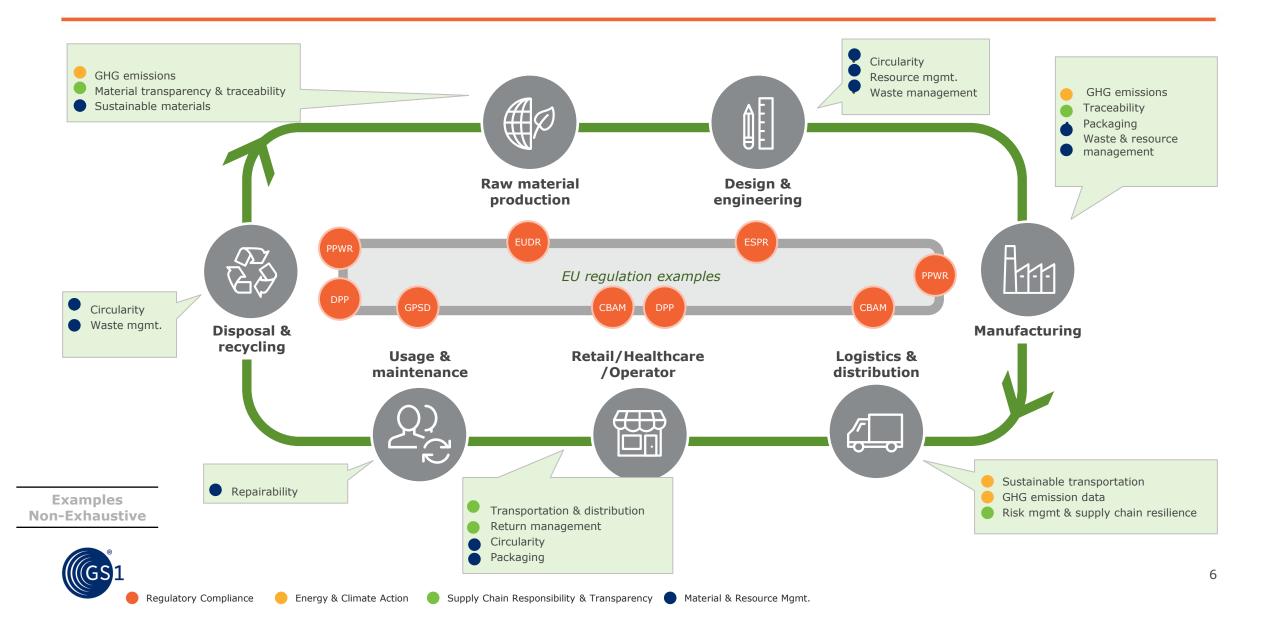
Regulatory

Supply Chain Responsibility & Transparency Material & Resource Management

Energy & Climate Action



Value chain perspective



Industry needs being addressed

Regulatory

Supply Chain Responsibility & Transparency

- Certifications & claims
- Due diligence & deforestation

Energy & Climate Action

Sustainability Data, Packaging Data & ESG Reporting

Material & Resource Management

- Deposit Return Scheme (DRS)
- Reusable packaging



Supply Chain Responsibility & Transparency

Certifications & Claims

 Due diligence & Deforestation





EU Deforestation Regulation

GS1 EUDR Standard

GS1 is proactively engaging with stakeholders and responding to emerging industry needs, ensuring that standards remain aligned with evolving regulatory expectations

- The GS1 community has developed a global standards approach to address requirements
- In the first phase the GS1 Implementation Standard has been developed for the use of GS1 data sharing standards for the required Reference and Verification numbers across the value chain.
- In the second phase the standards work will approaching the required data sharing from upstream data sources





Energy & Climate Action

Sustainability Data,
 Packaging Data & ESG
 Reporting





Exploratory work ongoing supporting industy's need for efficient and reliable exchange of sustainability data

GS1 to leverage global scale, neutral position & network

Key data points for data exchange at product level

Data point no.	ESRS	Data point name	Data point short name
1	ESRS E1: Climate change	GHG emissions – by country, operating segments, economic activity, subsidiary, GHG category or source	Product carbon footprint
2	ESRS Ez. Pollution	plastics Lor used	Microplastics
3	ESRS E2: Pollution	Amount of generated or used substances of concern during production or that are procured	Substances of concern

Role for GS1:

Identify industry sustainability data needs, including those driven by regulation e.g. CSRD and ISSB

Align on and develop the required attributes / data model, and ensure timely development through global standards development process as needed

Coordinate and collaborate working towards timely development through global standards development process



Material & Resource Management

Deposit Return Schemes

Reuse / Reusable Packaging





GS1 standards in packaging



GOAL

To enable more efficient recycling, reusing, sorting and traceability to support the circular economy

WHY GS1?

- Neutral and not-for-profit
- User-driven and governed
- Global and local
- Inclusive and collaborative
- Supporting the transition toward next-generation barcodes







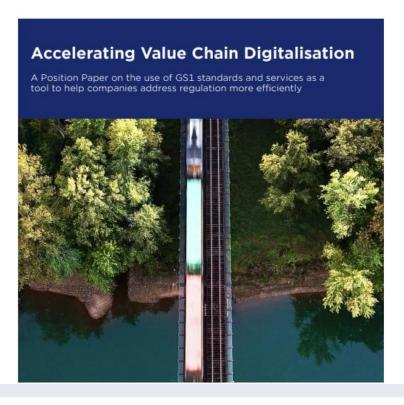
Additional Programme Resources



White Paper



The Global Language of Business



Accelerating Value Chain Digitalisation

A GS1 White Paper addressing the emergence of data requirements that companies increasingly face, and how traceability and transparency are emerging as strategic imperatives to address these requirements on a global scale



Case Study

TCO Certified IT Products

Building a Sustainable Foundation that Link IT Products and Certifications using GS1 Standards





The Global Language of Business

GS1 Sweden

Building a Sustainable Foundation that Link Products and Certifications



A challenging environment

As digital markets expand, the demand for product transparency has grown significantly, particularly in areas such as sustainability and ESC-related certifications and claims. Consumers and purchasing organisations are increasingly shifting their spending toward products that align with their values, while new regulations are mandating clower labelling and traceability.

While this presents opportunities for businesses to meet these expectations, it also introduces complex challenges related to:

- Outdated systems: Many certification bodies operate on legacy systems that lack scalability and digital readiness. Certificates are often shared in non-digital formats like PDFs, which are prone to fraud and difficult to verify.
- Unstructured data: The data format used to prove compliance according to a certification scheme is often unharmonised, requiring labour-intensive, manual, nonscalable validation processes.
- Lack of standardisation: Less than 10% of certification schemes use unique identifiers like the GSI Global Trade then Number (GINP) or Global Location Number (GLN), making it hard to consistently link certifications to products and creating significant inefficiencies for marketplaces and retailers.

These issues have created a fragmented system that undermines trust, increases operational burdens across the ecosystem, and makes it more difficult to reliably identify more sustainable products in the marketplace. Addressing these gaps is crucial for building a semiless, reliable framework for managing and sharing certification data.

Taking the lead

GSI Sweden collaborated with TCO Development, the nor-for-profit organisation behind TCO Certified, to integrate the GSI GTIN into their certification process, establishing a critical link between GSI product identifiers and certificates. TCO Certified as global leader as the world's only sustainability certification for IT products. This foundational step has pawed the way for further collaboration in which GSI Registries could provide trusted certification data through Verified by GSI.

In today's certification process, certificates are many times issued before the product has started to be manufactured with testing done on engineering samples, documentation and supply chain audit reports. This means that at the time a certificate is issued, usually no GTN has been assigned to the product, which makes it difficult to use as identification for certified products. However, if certification agencies require GTNs at the time of certification, then this will no longer be an issue.



Thank you.



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