

UN Advisory Group on

Advanced Technologies supporting Circular Economy and sustainability in achieving United Nations Sustainable Development Goals

Online Event 25 November 2020

Traceability of Value Chains

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Content:

- Data Reliability and Data Carrier
- Integrated Sensor Technology
- Sustainable Innovations

GS1 Standards in Apparel and GM



Identify: GS1 Identification Numbers

GLN Global Location Number GTIN* Global Trade Item Number* SSCC Serial Shipping Container Code EPC*/SGTIN Serialized Global Trade Item Number



Capture: GS1 Data Carriers

Barcodes

EAN*/UPC



GS1 DataBar*



GS1 DataMatrix



ITF-14



GS1-128 (SSCC)



EPC-enabled RFID

HF RFID



UHF RFID

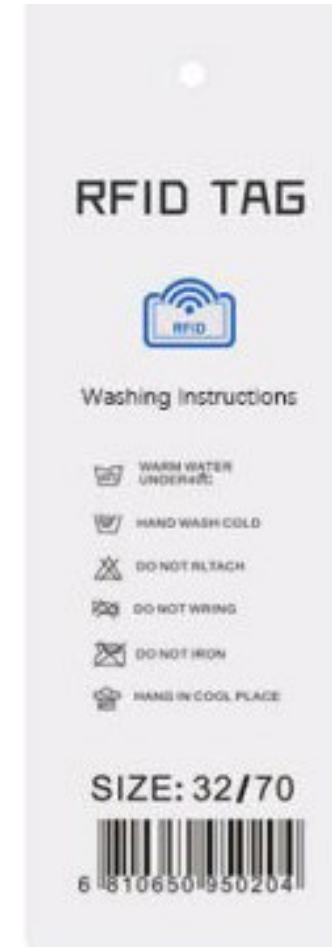


Share: GS1 Data Exchange

Master Data Global Data Synchronization Network™ (GDSN®) Transactional Data Electronic Data Interchange (EDI) Physical Event Data EPC Information Services (EPCIS)



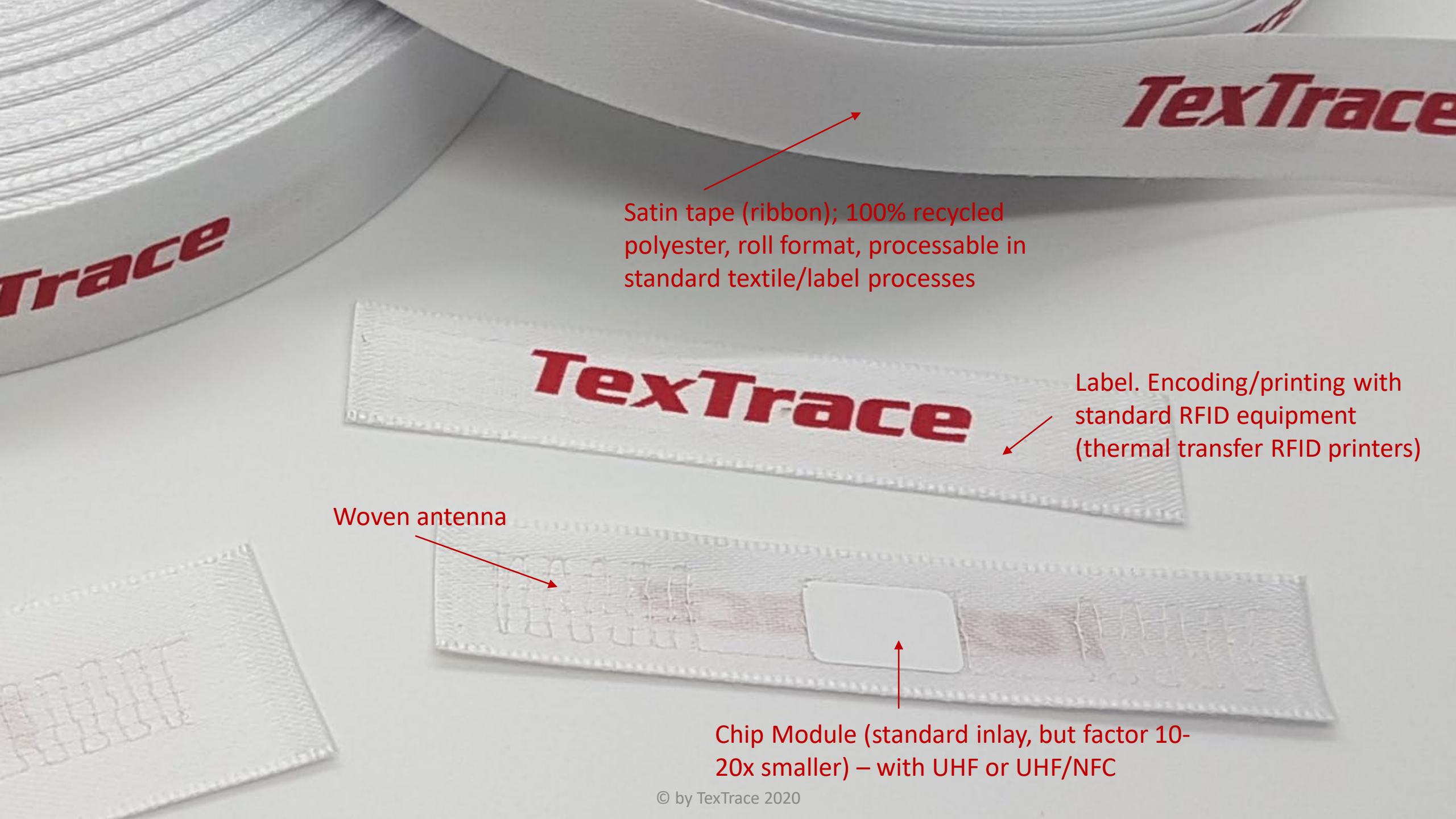
- Multiple points of data generation
- Data reliability is key!
- Standard setters like GS1 and others (<https://www.gs1.org>)
- New requirements with Cloud Computing, Blockchain, IoT applications, etc.
- Data carrier a crucial and critical element
- (RAIN) RFID becomes a key technology especially for retailers (<https://rainrfid.org/>)



- Form factors of data carriers today
- Mainly paper-based as documents, hangtags, stickers, etc.
- Printable
- On products, packages, pallets, ...

RELIABLE INTEGRATED SENSOR TECHNOLOGY FOR THE WHOLE RETAIL ECO-SYSTEM





TexTrace

Trace

Satin tape (ribbon); 100% recycled polyester, roll format, processable in standard textile/label processes

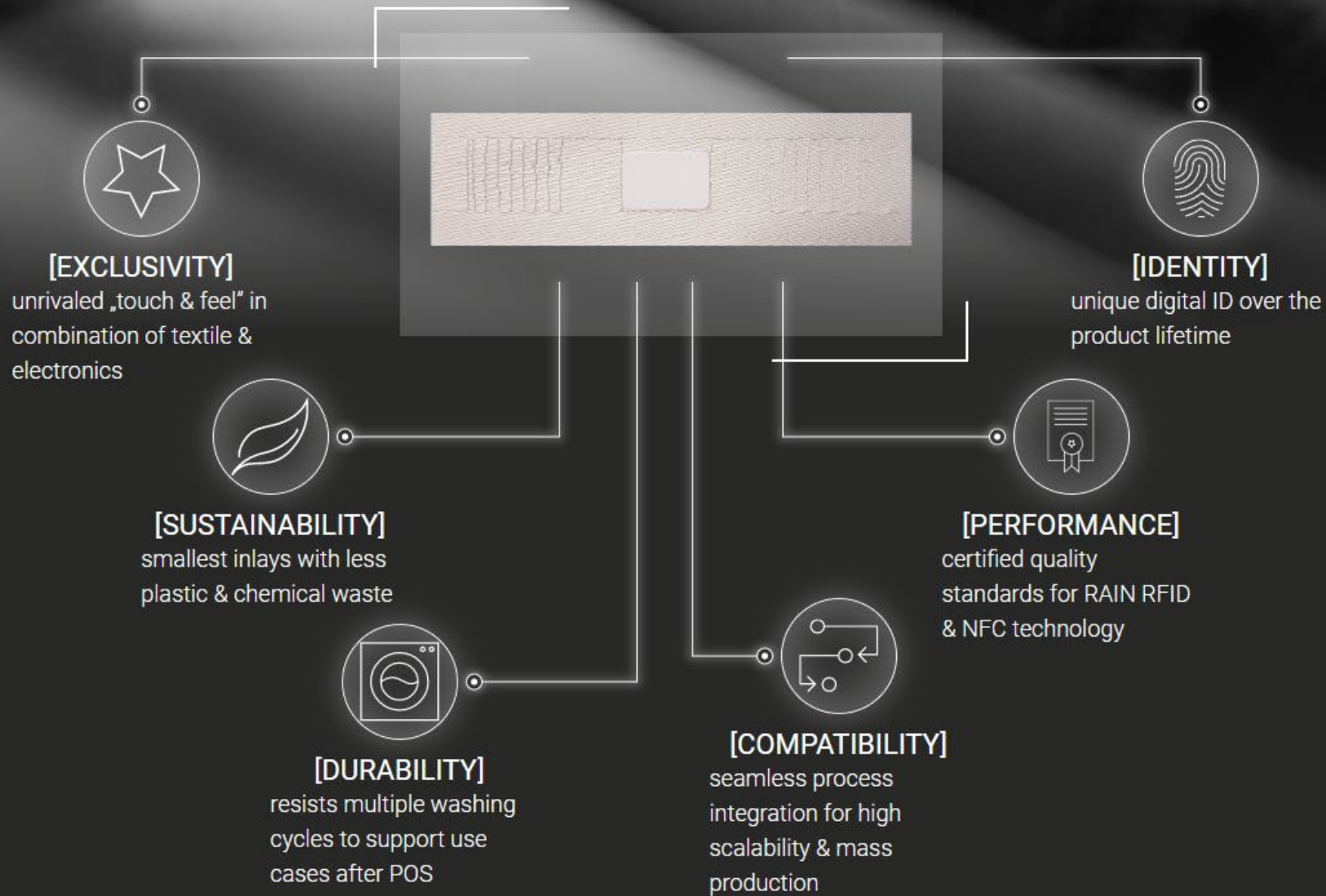
TexTrace

Label. Encoding/printing with standard RFID equipment (thermal transfer RFID printers)

Woven antenna

Chip Module (standard inlay, but factor 10-20x smaller) – with UHF or UHF/NFC

We give textile a digital identity.



SUSTAINABLE INNOVATIONS FOR CIRCULAR BUSINESS MODELS

**Multiple use cases can be realized
with integrated label solution
powered by TexTrace technology!**





TexTrace

Connected Textiles

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