ANTARES VISION GROUP

E-SUSTAINABILITY

ANTARES VISION GROUP

A COLLABORATIVE APPROACH TO INNOVATE
SUSTAINABILITY AND TRACEABILITY

Zurich, 24th October 2023

TRACEABILITY: SUPPLY CHAIN AND PRODUCT DIGITAL IDENTITY

RAW MATERIAL
- ORIGIN
- QUALITY
- ENVIRONMENTAL & SOCIAL SUSTAINABILITY

PACKAGING
- QUALITY INSPECTION
- ENVIRONMENTAL SUSTAINABILITY
- REGULATORY COMPLIANCE

LOGISTICS
- TRACEABILITY OF SHIPMENT
- MONITORING OF GREY MARKETS
- ENVIRONMENTAL IMPACT

CONSUMER EXPERIENCE
- PRODUCT HISTORY
- PERSONALIZED EXPERIENCE
- MARKETING ENGAGEMENT

RAW MATERIALS → PRODUCTION → PACKAGING → WAREHOUSE → LOGISTICS → RETAIL → END USER → RECYCLING

PRODUCTION PROCESSES
- EFFICIENCY
- QUALITY INSPECTION
- CARBON FOOTPRINT
- WATER FOOTPRINT
- ….

WAREHOUSING
- INVENTORY MONITORING
- REORDER MANAGEMENT

POINT OF SALE
- PRODUCT AUTHENTICATION
- GEOLOCATION
- PERSONALIZED EXPERIENCE
- PRODUCT COMPLIANCE

RECYCLE, REUSE, RECUPERATE

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THE DIGITAL PRODUCT PASSPORT (DPP) – WHAT IS IT?

• The **European Commission** defines the **Digital Product Passport (DPP)** as a tool to provide information about a product's environmental sustainability. The DPP is essentially a digital record of a product's sustainability and circularity information throughout its lifecycle, from design to end-of-life.

• A **DPP serves as a powerful repository** of data that provides transparency, traceability and accountability of a product in its different lifecycle steps:

- **End-to-end traceability**
- **Verification and authenticity**
- **Secure information sharing**
- **Multi-stakeholder engagement**

PROJECT "STEPWISE"

A strategic collaboration between **SUPSI, Antares Vision Group, and GUESS** (with the support of LTCC) to harness Digital Product Passports for enhanced transparency and sustainability in fashion.

▶ The project's nucleus is an **advanced platform developed during the project by Antares Vision Group relying on our previous experience in traceability field, underpinned by blockchain technology**

▶ Tailored specifically for the fashion world, the **STEPWISE platform harmonizes traceability, Digital Product Passport (DPP), and sustainability**. Consumers will benefit by gaining insight into their garment's history, fostering trust and encouraging value-aligned purchases

▶ **Project Stepwise is a 24-month commitment from the 3 partners, in Switzerland**, for the launch of a traceability and Digital Product Passport (DPP) full-scale pilot

ANTARES VISION GROUP TODAY

ANTARES VISION GROUP

Antares Vision Group is driving **digitalisation of products and supply chains** by leading **traceability**, **inspection**, and **integrated data management**.

AV Group helps companies and institutions to achieve **safety, quality, efficiency, and sustainability**, enabling **Trustparency™**.

OUR VALUES

PRODUCT QUALITY

REGULATORY COMPLIANCE

EFFICIENCY

SUPPLY CHAIN TRANSPARENCY

END-USER CONNECTIVITY

SUSTAINABILITY

LEADER IN LIFE SCIENCE TRACK & TRACE	**€223M** 2022 REVENUE	**7%** R&D INVESTMENT	**85%** EXPORT % OF REVENUE	**62%** LIFE SCIENCE	**38%** FOOD & BEVERAGE

- **35 company sites**
- **1.300+ employees** worldwide
- **40+ partners**
- **60+ countries served**

ONE HUB OF TECHNOLOGIES

INSPECTION

Camera Based system
Visual Inspection for product and packaging
Smart Camera
Embedded Vision

Laser Spectroscopy
Absorption Spectroscopy
Pressure/Vacuum measurement
Head Space Gas Analysis]
Leak detection [CCIT]
Laboratory Instruments

High Voltage
Leak detection [CCIT]
Laboratory Instruments

Sensor Based
Vacuum/Pressure Decay
Leak Detection
X-Ray and HF
Check Weigher
Metal Detector
Event Based
Drying Systems
Conveying systems

Microwave

TRACEABILITY

Serialization
Aggregation
Mobile Traceability
Real-time IoT

AUTHENTICATION

Visible and Invisible Tag
Serial Number Management
Visual Inspection Systems

DATA MANAGEMENT

Business Intelligence
Data Analysis
Advanced Analytics
Artificial Intelligence
Blockchain
Big Data
Cloud Computing
Integrated Platforms

NATIV.AI

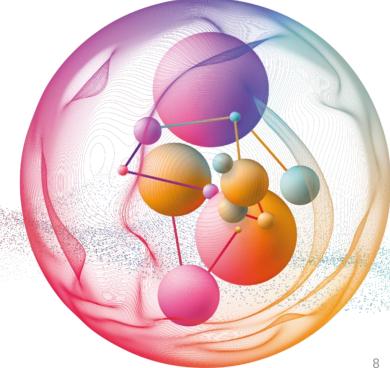Solutions designed with AI

PEOPLE

PROFIT

PRODUCT

PLANET

DIAMIND
POWERING PRODUCTS AND SUPPLY CHAINS

THE MOST INTELLIGENT INTEGRATED ECOSYSTEM OF SOLUTIONS CONNECTING PHYSICAL PRODUCTS WITH DIGITAL VALUE.

LINE
FACTORY
WAREHOUSE
ENTERPRISE
SUPPLYCHAIN

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DIGITAL IDENTITY: DATA AND INFORMATION PATRIMONY

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BLOCKCHAIN EMPOWERMENT

TRACEABILITY

REGULATION COMPLIANCE
Food Safety & Quality,
Product ID, Traceability

RECALL MANAGEMENT
Recall / Withdrawal

PRODUCT END-TO-END HISTORY
Provenance, Origin, Quality Certification
Transformation Process

END USER EXPERIENCE
Trust & Transparency, Product Verification,
Consumer Engagement

MANUFACTURING EFFICIENCY
Interoperability, preventive and predictive
Maintenance, quality data management

ANTICOUNTERFEITING AND GREY MARKETS
Product authentication, Geolocalization

TRADING PARTNER MANAGEMENT
Interoperability, Requirements, networking

SUPPLY CHAIN MANAGEMENT
End-to-end visibility, Real-Time Monitoring

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