



OPTEL IdentifAI™ Solution for Brand Protection

Traceability and authentication solution
AgGateway Education and Action Week, June 2021



30+ YEARS

OF PROVEN EXPERTISE
IN DEVELOPING AND
DEPLOYING TRACEABILITY AND
VISION SYSTEMS

500+

EMPLOYEES WORLDWIDE

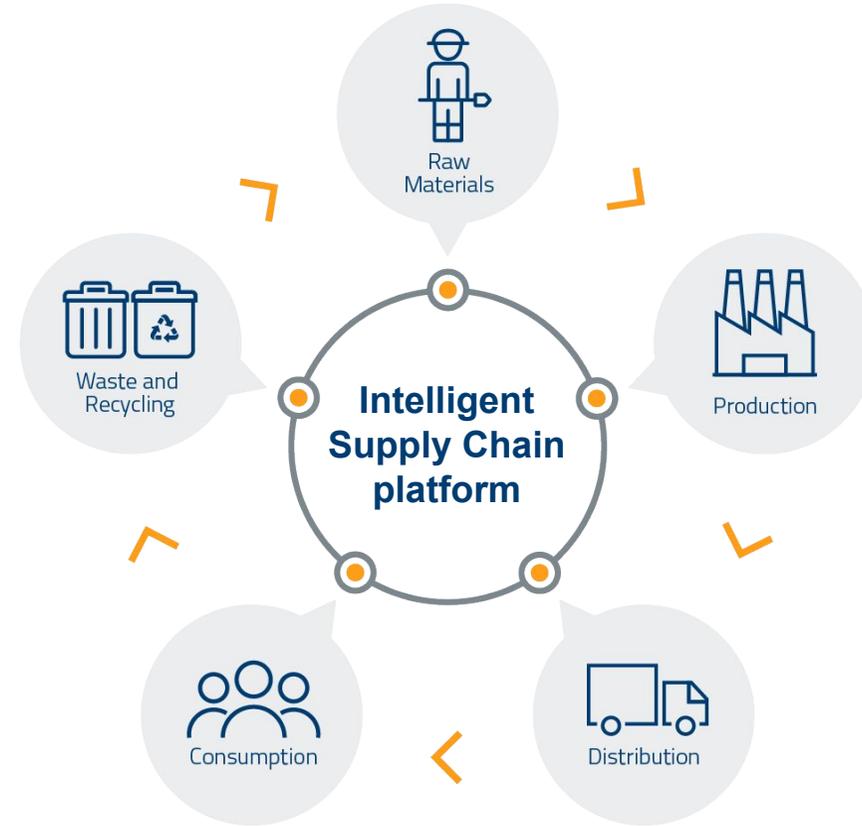
PRESENCE in **30+** COUNTRIES

4 MANUFACTURING SITES

(NA, EMEA, APAC, LATAM)

4 R&D CENTERS

(CANADA, INDIA, USA, BRAZIL)



Life Sciences



Food and Beverages



Agrochemicals



Environment



Natural Resources

MAIN PAIN POINTS

- Counterfeiting of pesticides: brand protection and sales losses (growth of illicit trading)
- Refilling is a huge issue
- Supply chain anomalies: active ingredient regulations vs. market diversion



WHAT IS THE OPTEL IdentifAI™ SOLUTION?

OPTEL IdentifAI™ is a brand protection solution that allows users to investigate or consumers to authenticate a product by scanning its unique identifier via a web app or chatbot.

COMBINATION OF

- Digital traceability technology
- Supply chain visibility and mapping tools
- Multiple levels of authentication options
- Signature matching technology – Surface Feature Authentication (SFA)
- Powered by artificial intelligence and machine-learning capabilities

OBJECTIVES

- Reduce and stop counterfeiting/refilling
- Demotivate counterfeiters/refillers
- Gain supply chain visibility and mitigate market diversion
- Help consumers authenticate products
- Identify products and follow their journey along the supply chain

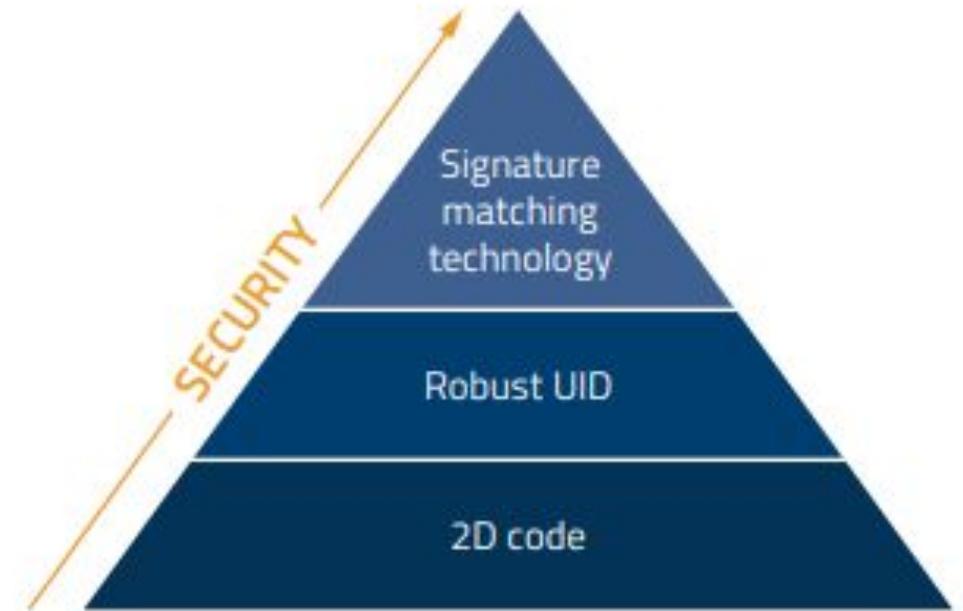
WHAT IS THE OPTEL IdentifAI™ SOLUTION?

Proven traceability technologies combined with powerful AI

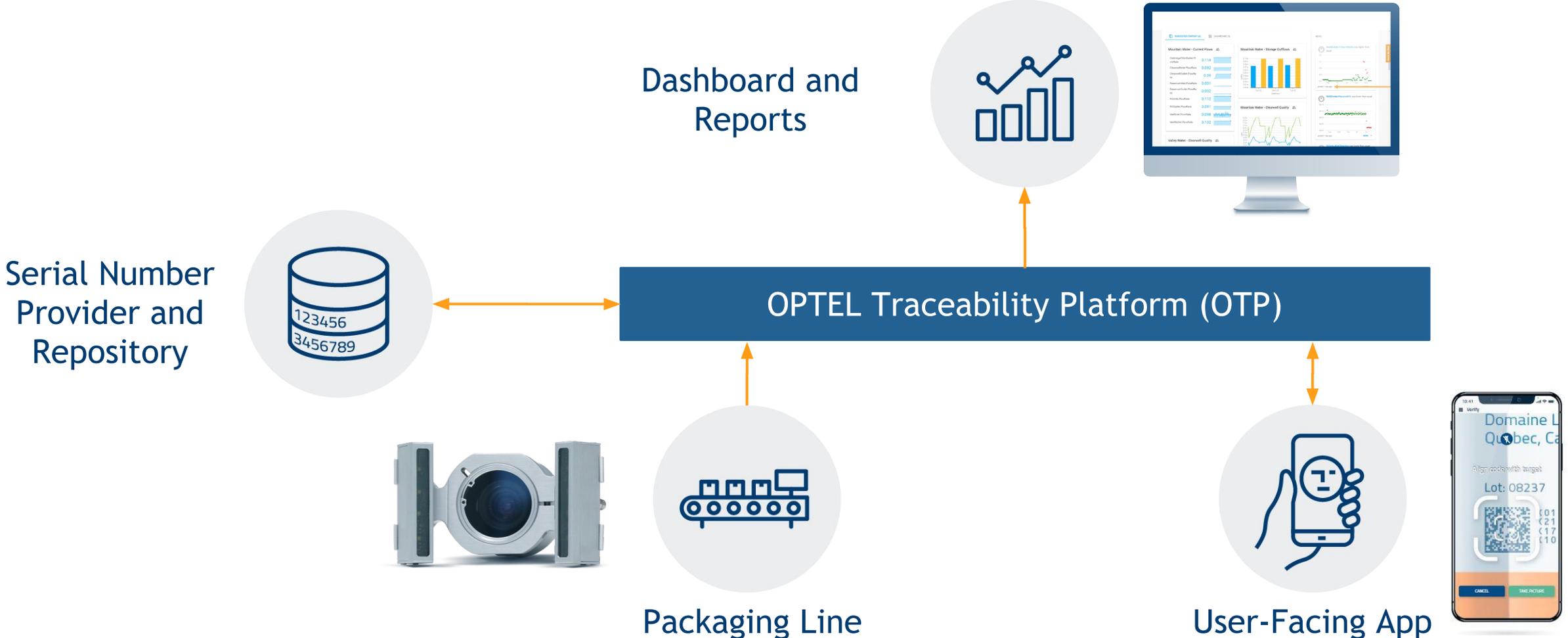
OPTEL offers a choice of three security layers based on your needs and challenges.

WHAT ISSUES CAN OPTEL IdentifAI™ SOLVE?

- Product counterfeiting
- Product refilling issues
- Market diversion
- Identification of damaged/fraudulent labels



HOW DOES IT WORK?



TECHNOLOGY STACK

FOR MANUFACTURERS (PACKAGING)

Cameras are installed on manufacturing lines to digitize item/lot numbers with a unique identifier; data is stored in a private cloud platform and empowered by our software.



FOR MANUFACTURERS (WEB INFRASTRUCTURE)

Share production data per region and persona for the end user to consult.

SIGNATURE MATCHING TECHNOLOGY (SURFACE FEATURE AUTHENTICATION)

Through a simple scan, the signature matching technology digitizes the unique product/labeling pattern.

This information is then stored in OPTEL's cloud-based software and database, to be recognized later by an authorized user's mobile application.



FOR THE END USER

The end user scans the 2D code, using the camera on a smartphone or computer, to access the information. The interaction can be launched directly from the camera, via a chatbot or a dedicated app.



SOLUTION OPTIONS

SECURITY LAYER	BENEFITS AND ADDED VALUE	ISSUES SOLVED
<p>2D CODE Identifies all products with a Data Matrix or digital-link QR Code. The product UID (preprinted or printed on-line) is linked to the cloud database for instant validation.</p>	<ul style="list-style-type: none"> Native application provides stronger identification Ideal for low-margin products Scannable with standard mobile device Market insights from the consumer 	Counterfeiting + Product identification
<p>ROBUST UID Identifies the product using holograms, tamper evidence and/or double labeling.</p>	<ul style="list-style-type: none"> Includes Level 1 benefits Stronger authentication marker/Harder to falsify Scannable with standard mobile device 	Counterfeiting + Product identification
<p>SIGNATURE MATCHING Digitizes the unique product signature as an identifier. AI algorithms match the signature to a profile in the database.</p> <p>Associates the tamper-evidence feature with the labels on the same product.</p>	<ul style="list-style-type: none"> Strongest anti-counterfeiting, impossible-to-copy authentication solution on the market Scannable with standard mobile device Ideal for strategic/premium products Can be used for product identification related to labeling issues Signature matching on both the label and a tamper-evidence feature to counter refilling issues Analytics and market insights 	Counterfeiting + Refilling + Product Authentication + Product identification

STRONGEST ----- STRONGER ----- STRONG

KEY DIFFERENTIATORS

WHY CHOOSE OPTEL IdentifAI™?

- Various levels of authentication available
- **Powerful AI algorithms and machine-learning capabilities**
- Successful scanning capabilities in all environments (dirt on the product, different angles, variable lighting)
- Low cost of implementation
- Real-time alerts
- Highest data security standards
- Customizable supply chain anomaly-detection features
- Mobile-readable
- Offline capabilities
- Flexible interface and customizable app for investigators
- Engagement program options
- Optional aggregation
- Easily scalable to OPTEL'S other Intelligent Supply Chain modules

SOLUTION BENEFITS

MAIN BENEFITS FOR MANUFACTURERS

- Detection of illegal production, diversion, refilling issues and counterfeiting
- Brand protection and consumer trust
- Real-time data for instant authentication and visibility
- Strong market analytics and consumer insights
- Minimum disruption of manufacturing lines during solution installation
- Customizable to your needs
- Mobile-friendly (mobile-readable)
- No need for additional codes on product packaging*
- Meets regulatory requirements

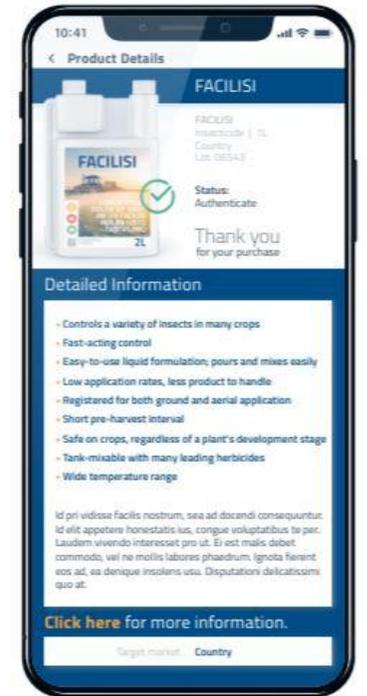
**depending on customization level chosen*

MAIN BENEFITS FOR CONSUMERS

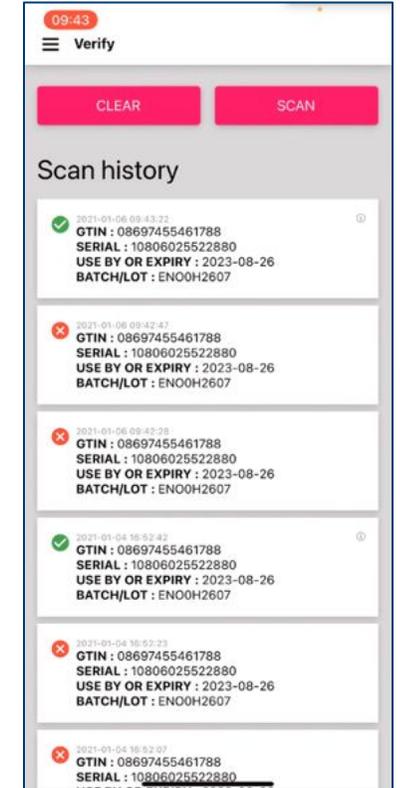
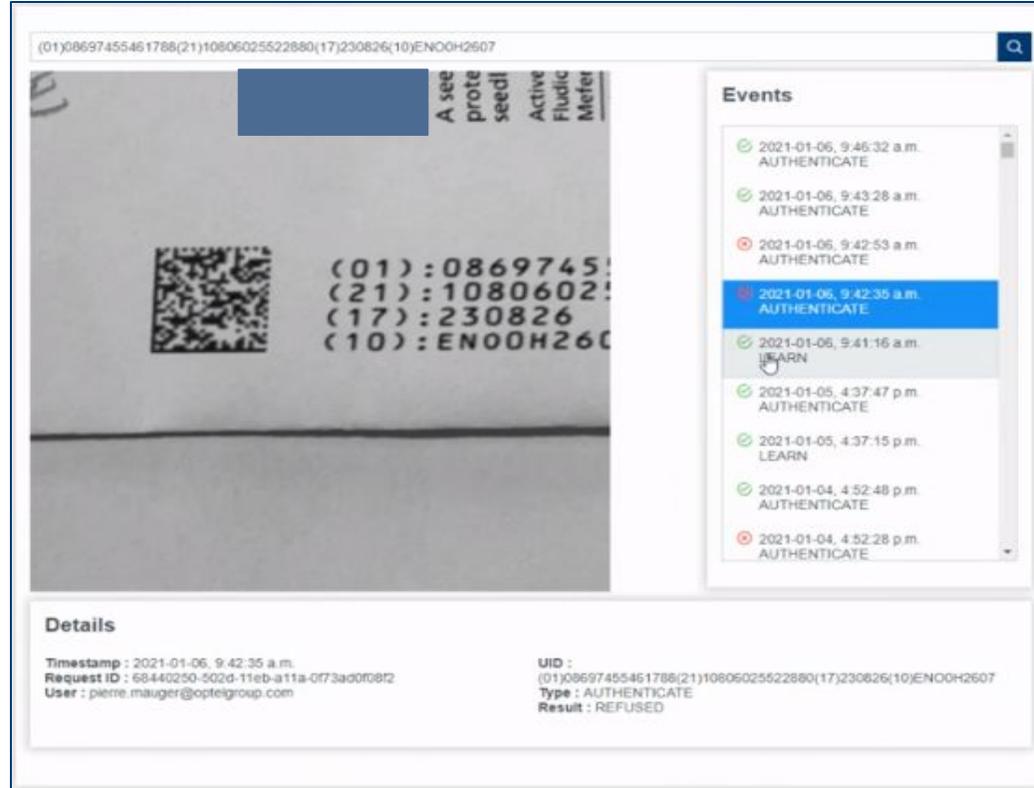
- Product authentication
- Brand trust
- Product integrity, transparency, safety and pedigree
- Mobile-friendly (mobile-readable)
- Valuable insights for marketing programs



EXAMPLE — AUTHENTICATION



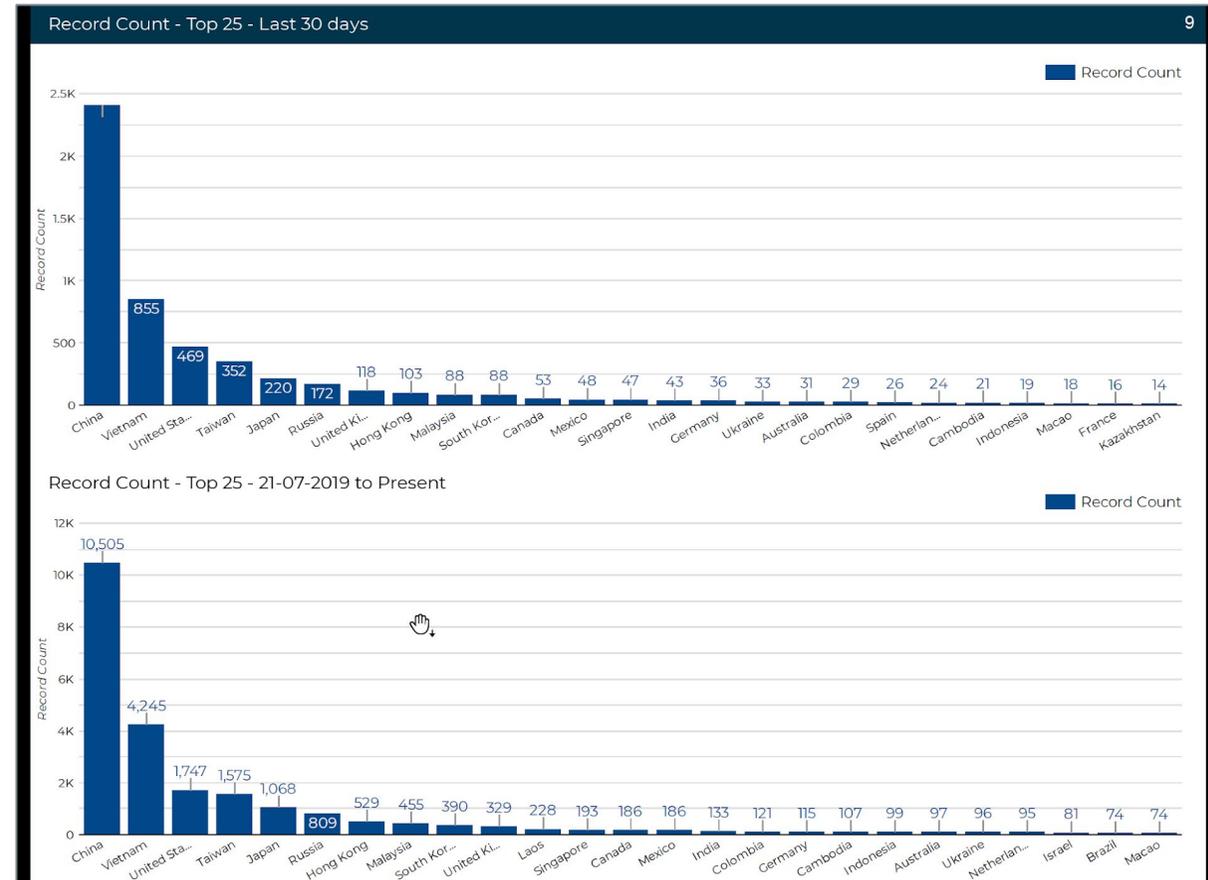
EXAMPLE — INVESTIGATION



ADVANCED SOLUTION OPTIONS

MARKETING PROGRAMS AND ENGAGEMENT

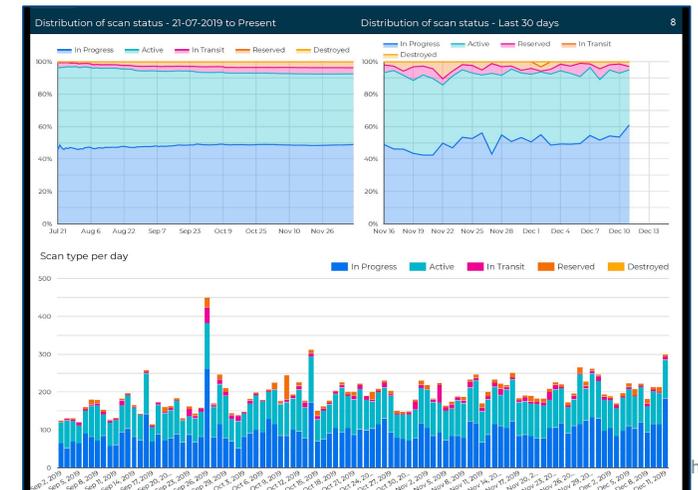
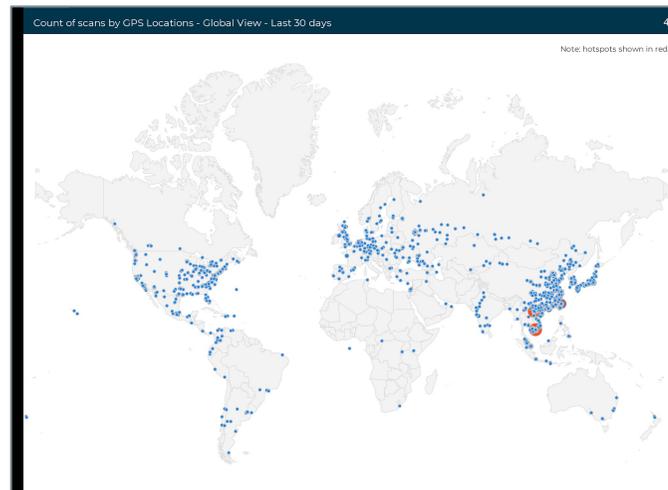
- The product marker can be scanned with a regular mobile phone.
- Link to the database will be made instantly.
- The brand owner can use the database for marketing programs and engagement.
- Brands can create a direct communication channel with the consumer.
- The solution provides valuable market insights.



ADVANCED SOLUTION OPTIONS

MARKET DIVERSION AND SUPPLY CHAIN ANOMALIES

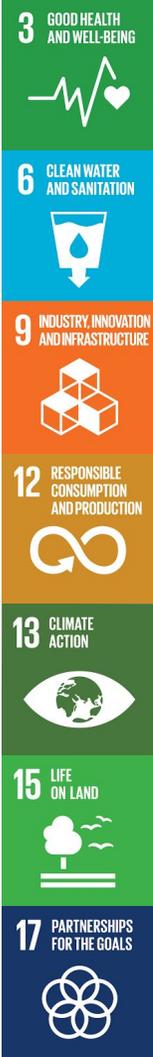
- Aggregation is optional, depending on your needs.
- Protection against market diversion requires aggregation from the unit up to the pallet.
- Anti-counterfeiting requires serialization at all levels.
- Complete channel visibility enables precise recalls and real-time inventory management:
 - Aggregation is not required at all levels, but serialization at all levels facilitates the association of the item/case to the lot number.
 - In most cases, detection of stolen shipments requires aggregation down to the unit level.



OPTEL's Intelligent Supply Chain platform



- **Product Authentication: OPTEL IdentifAI™**





THANK YOU FOR YOUR INTEREST!



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