

OPTEL's Intelligent Supply Chain FOR NATURAL RESSOURCES INDUSTRY

Intelligent Supply Chain (ISC) – Complete end-to-end traceability platform capable of collecting and linking data throughout the entire product life cycle, from raw materials to the consumer. The ISC empowers businesses to optimize efficiency, performance and supply chain visibility.



OPTEL'S INTELLIGENT SUPPLY CHAIN



30+ YEARS
OF PROVEN EXPERTISE
IN DEVELOPING AND
DEPLOYING TRACEABILITY
AND VISION INSPECTION

4,000+
SYSTEMS INSTALLED
WORLDWIDE

PARTNER OF THE
WORLD'S TOP BRANDS

600+
EMPLOYEES WORLDWIDE

5 MANUFACTURING PLANTS
(NA, EMEA, APAC, LATAM)

24/7
INTERNATIONAL
TECHNICAL SUPPORT

**CERTIFIED B
CORPORATION**

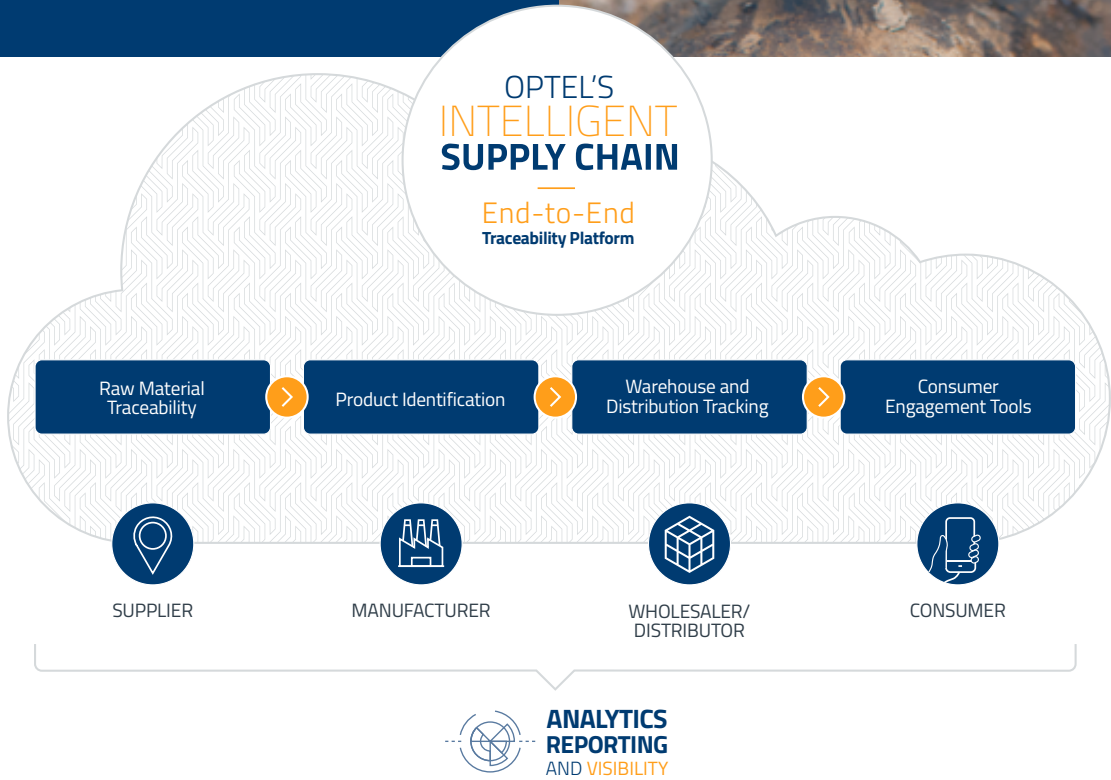
**ARTIFICIAL
INTELLIGENCE
CAPABILITIES**

GS1 STANDARDS

OPTEL is the leading global provider of traceability systems, and its goal is to use its innovative traceability and transparency solutions to create a better world through the Intelligent Supply Chain, leveraging state-of-the-art technologies such as artificial intelligence, blockchain, chatbots, cloud computing and the Internet of Things.

OPTEL's technologies provide actionable, granular, real-time data to verify product provenance and quality, optimize production efficiencies, fight counterfeiting and reduce waste. Our solutions create added value while contributing to sustainability and the circular economy, and benefiting businesses, brands, communities, people and the environment.

OPTEL is the only company with the ability to provide complete end-to-end traceability via modular solutions for raw material traceability, individual SKU identification, box/case/pallet/batch aggregation, warehouse and distribution channel performance and consumer engagement.



HOW WE CAN HELP YOUR BUSINESS

OPTEL's modular traceability solutions can improve your operational efficiency and help you achieve supply chain transparency. Here are just a few examples of what our technologies can do for you:

REDUCE COSTS

- Minimize reusable packaging losses and purchases
- Minimize recall costs
- Reduce sustainability certification costs
- Reduce labor costs

INCREASE VISIBILITY

- Identify products with damaged or tampered labeling
- Provide proof of origin and history of your product
- Identify supply chain anomalies

IMPROVE EFFICIENCY

- Optimize the life cycle of reusable packaging
- Digitize product flow, supply chain operations and documentation
- Improve reverse-logistics management with real-time tracking of assets
- Get alerts and advanced analytics/reporting
- Improve product quality
- Measure the complexity of your supply chain
- Track inventory
- Optimize dwell times
- Improve forecasting

PROTECT YOUR BRAND

- Mitigate counterfeiting, fraud, gray-market diversion and unauthorized production
- Authenticate products
- Minimize the impact of recalls
- Prevent mislabeling

IMPROVE SUSTAINABILITY

- Ensure responsible sourcing
- Reduce waste, losses and carbon footprint
- Optimize resources
- Substantiate sustainability claims

ENSURE REGULATORY COMPLIANCE

- Digitize certifications and documents



ON THE FOLLOWING PAGES YOU WILL FIND AN OVERVIEW OF OUR MOST POPULAR AND PROFITABLE SOLUTIONS FOR NATURAL RESSOURCES INDUSTRIES.

REUSABLE PACKAGING MANAGEMENT SOLUTION

TRACE, MONITOR AND OPTIMIZE REUSABLE PACKAGING

OPTEL's Reusable Packaging Management solution provides precise and complete traceability at every stage of the product life cycle process.

Gain visibility with our reverse supply chain mapping tools.

Many parameters can be controlled, according to your needs, with scalable options: real time location, cold chain, distribution inventory, last known location, product journey, return product journey, return rate, incentive programs, and many more.

ADDED VALUE FOR YOUR BUSINESS

- Increase reverse-logistics efficiency
- Reduce asset losses and purchasing costs
- Improve overall supply chain operations and manage recalls
- Combat fraud and counterfeiting
- Engage directly with your customers
- Obtain strong market analytics
- Many more

LEVERAGING END-TO-END TRACEABILITY TO AUTHENTICATE THE ORIGIN OF PRIMARY MATERIALS AND FINISHED PRODUCTS

- GPS location is recorded according to client requirements (number of checkpoints).
- All unit events are recorded and uploaded to the cloud platform.
- Reports and dashboards map the aluminum's journey, proof of origin, circulation time, location, inventory and history (last location).

DIGITAL TRACEABILITY FOR INCREASED TRANSPARENCY

Our approach focuses on methods of collecting information on the operations and results from stakeholders engaged in the initial stages of the supply chain. This information can then be passed on along the supply chain, providing full visibility and enabling downstream actors and customers to have confidence in quality and sustainability of the raw materials that go into their products. The use of digital tools such as mobile and desktop applications, a cloud-based platform, and a data visualization control tower enables quality assessment of raw materials and finished products. The use of digital tools provides complete end-to-end product traceability.

SIGNATURE MATCHING TECHNOLOGY

By capturing a high-resolution image of an object's surface, we extract every unique pattern to create a non-reproducible digital fingerprint.

- Secure individual part recognition
- One-to-one image descriptors comparison
- Also works on industrial cameras and smartphones
- Syncs with OPTEL's cloud-based traceability platform
- Non-invasive (high retrofit capabilities)
- Recover damaged or hard-to-read markings

TRACK-AND-TRACE SOLUTION FOR REGULATORY COMPLIANCE

CREATE VALUE THROUGH TRACEABILITY

Optimize the performance and transparency of your value chain. Our proven software and hardware solutions are agnostic and can connect to any system, enabling collaboration with any provider.

OPTEL is a leading provider of vision inspection, serialization and track-and-trace technologies, providing top-quality line equipment for regulation compliance and traceability. Our team of experts in manufacturing lines will help your business optimize your compliance process efficiently.

ASSET AUTHENTICATION AND PROOF OF ORIGINS

OPTEL's product authentication is a brand protection solution that helps metal and mineral producers to certify the authenticity and the provenance of the metal from smelters throughout the value chain.

This solution can also facilitate meeting the rules of origin (ROO) documentation requirements and provides the required documentation on the metal market movements.

TAKING YOU BEYOND
REGULATORY
COMPLIANCE,
SERIALIZATION IS A
RISK-MANAGEMENT
TOOL THAT GIVES YOU
THE VISIBILITY AND
DATA EMPOWERMENT
YOU NEED TO SECURE
YOUR SUPPLY CHAIN.



BEYOND COMPLIANCE

THE ADDED VALUE OF OPTEL'S SOLUTIONS

- Illicit-trade detection
- Product authentication
- Interoperable traceability
- Vendor-agnostic flexibility
- Improved operational efficiency
- More targeted recalls
- Consumer-engagement options
- Scalable solutions
- BI reports and alerts





WHY OPTEL?

VALUE CREATION

DIGITAL TRACEABILITY PROVIDES UPSTREAM VISIBILITY IN YOUR SUPPLY CHAIN

- Increase supply chain and operational efficiencies for better productivity
- Reduce recalls/labor/packaging/supplies and inventory/certification and quality costs
- Increase forecasting accuracy and secure supplies
- Provide transparency to your consumers, building trust and brand equity
- Ensure product provenance and authenticity, mitigate fraud and protect your brand
- Link your products to your customers with consumer-engagement tools

OPTEL'S ADDED VALUE

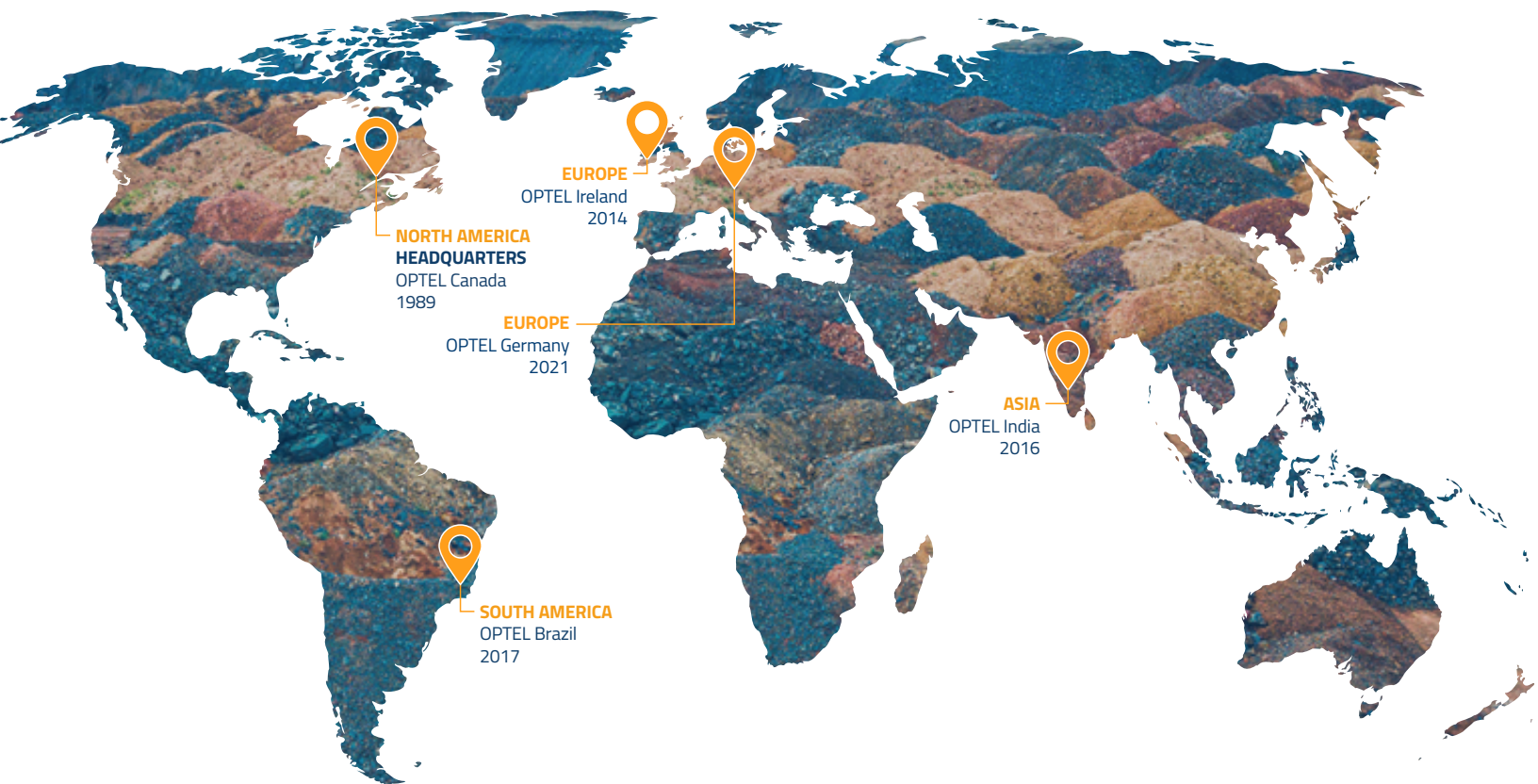
- Scalable and modular approach
- Turnkey solution: start-to-finish project assistance
- Next-generation data collection hardware (IoT)
- Data intelligence with customized BI reports
- Vendor-agnostic interoperability
- Customizable solution
- Professional services and 24/7 worldwide support
- Physical traceability
- Only company with the ability to offer complete end-to-end traceability

WHY TRACEABILITY?

 VISIBILITY	>	 AWARENESS
 TRACEABILITY	>	 ASSURANCE
 TRANSPARENCY	>	 DISCLOSURE

TO LEARN MORE ABOUT OPTEL > > SCAN ME





WITH THE OPTEL EXPERIENCE, YOU CAN ALSO BECOME A **TRACEABILITY EXPERT** OR **TRAIN YOUR TEAM**:

- ✓ VISIT OUR DEMO CENTER
- ✓ ATTEND 30-MINUTE PRESENTATIONS ABOUT
TRACEABILITY AND SUPPLY CHAIN TOPICS

CONTACT US

For more information on OPTEL's traceability solutions
for the natural resources industry, visit: optelgroup.com



HAVE QUESTIONS?

Chat with us: optelgroup.com

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