SICPA

GOVERNMENT SECURITY SOLUTIONS

SECURE MARKING, AUTHENTICATION, TRACKING AND TRACING TO ASSIST CUSTOMS

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Enabling trust







1. SICPA OVERVIEW

SICPA - AT A GLANCE



Offices in 30 countries



Founded in CH in

1927



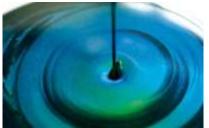


50+
engineering expertise



Sales to

160
countries



3000 employees

SICPA - GLOBAL ROLE

Securing almost all of the world's currencies, and value documents with high security inks





140 billion banknotes

Mark, authenticate, track and trace a growing range of products



77 billion products

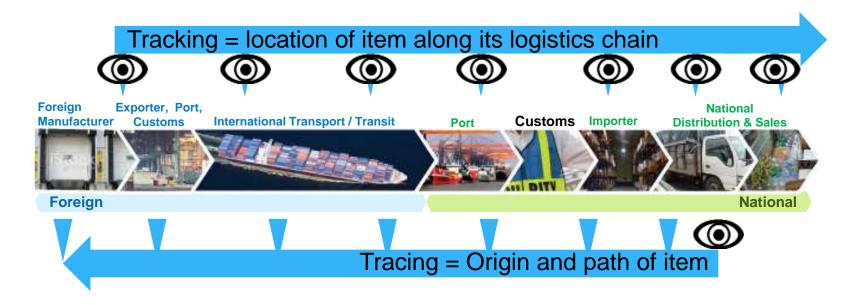






2. THE PRODUCT CONTROL CHALLENGES

TRACK AND TRACE: OUR DEFINITION



Tracking and tracing can be differentiated into forward and backward.

CROSS BORDER TRADE REQUIRES RELIABLE INFO

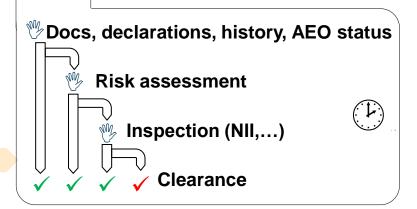
1'000'000 A for 100'000'000 in circulation



Self declarations, SAD, documents & data
3rd party laboratories / inspection / notified
bodies / logistics docs & data
Foreign Customs (G2G, AEO, IPM) docs & data...



Manifests & Packing docs
HS Classification
Valuation (ACV)
Product description /
content
Origin certificates
Conformity certificates
(A)EO details...



What if documents are fake, details are wrong, products are not those declared: how can Customs find the truth rapidly without impacting clearance process speed?

POST-CLEARANCE AUDITS MAY BE TOO LATE





Once products are released to the market:

- 100% certainty of goods' origin cannot be guaranteed
- Documentation may be modified
- Responsible actors along the distribution chain may be difficult to trace
- What consumers buy may be counterfeited without means to proove it or find counterfeiters
- Tax may not be paid (Carousel fraud)
- Legitimate economic operators suffer from smugglers
- Concern for high risk, high value, sensitive, prohibited or restricted goods

Smuggling / counterfeiting hinders local economy, tax collection and consumer health, and is expanding, requiring to seriously consider marking, authentication, track & trace





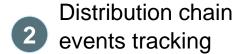


2. HOW CAN MARKING, AUTHENTICATION AND TRACKING AND TRACING ASSIST CUSTOMS

SYSTEMS AGAINST SMUGGLING AND COUNTERFEITING EXIST

4 key pillars are required

Secure marking and activation of legitimate goods by legitimate producers / importers





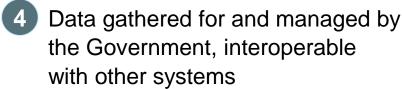
and traceability
inspections by law
enforcement agents and
economic operators









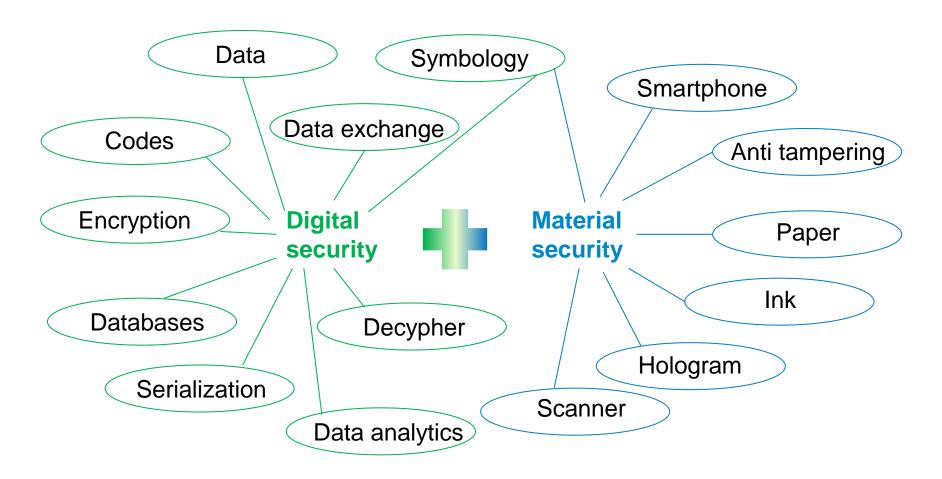








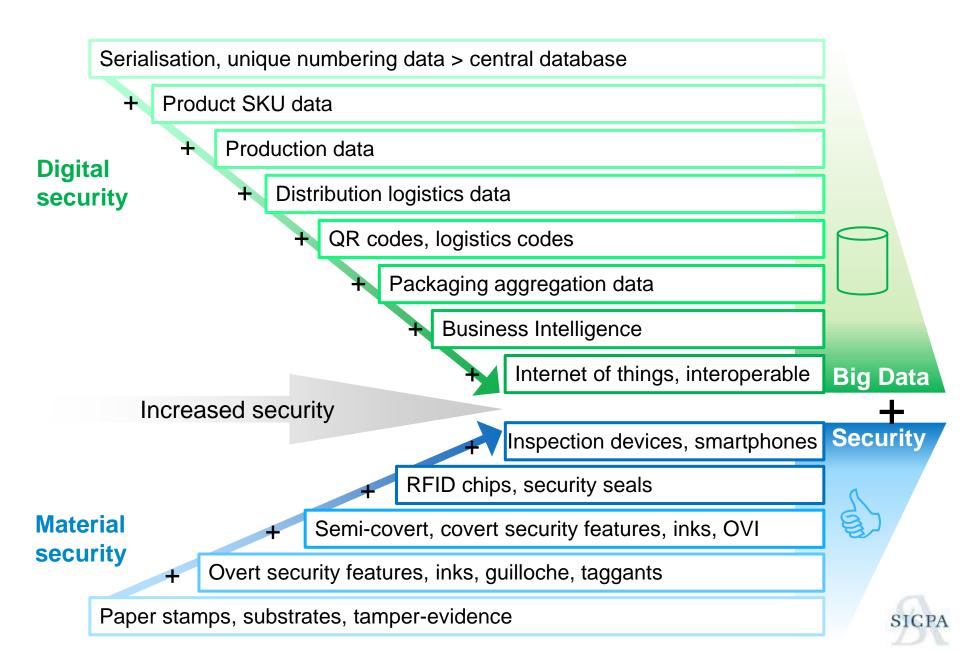
A. TECHNOLOGY - RELIABLE MARKING, AUTHENTICATION AND TRACK & TRACE SYSTEMS SHALL CONTAIN DIGITAL-BASED AND MATERIAL-BASED SECURITY



The full scope covers both authentication and track & trace



EVOLUTION OF TECHNOLOGIES



BOTH ARE INCREASINGLY CONSIDERED ESSENTIAL, TOGETHER

ISO Technical Committee 247 - Fraud countermeasures & controls

ISO 16678: Guidelines for interoperable object identification and related authentication systems to deter counterfeiting and illicit trade

For products subject to counterfeiting and/or illicit trade, as well as sensitive products (as identified by corresponding regulation), UID (unique identifier) codes should bear intrinsic physical security layers.

Intrinsic physical security layer options include but are not limited to:

- Securitý inks, taggants, optically variable devices and other authentication features
- Embedded secret keys
- Encrypted information related to secure element
- Physical unclonable functions or markings

ISO 12931: Performance criteria for authentication solutions used to combat counterfeiting of material goods

Authentication elements part of the material good itself and/or its packaging.

Defines severity, occurrence and detectability of associated risks.

Provides an authentication solutions evaluation grid.



SECURING MATERIAL + DIGITAL MARKING / IDENTIFICATION: KEY LINK BETWEEN THE PRODUCT, ITS ORIGIN AND DISTRIBUTION PROCESS

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CUSTOMS

Secure codes / marks identifier linking product and production for authentication, track and trace evidence

DISTRIBUTOR

Tracking events capture
Web / smartphone / device for ___
authentication and traceability of
machine & human readable codes

POINT OF SALE

Web / smartphone / device for authentication and traceability of machine & human readable codes

BRAND OWNER

Labeling obligation:
Product Name,
Ingredients,
Expiration Date
SKU / Serialization
Production date /
location

CONSUMER

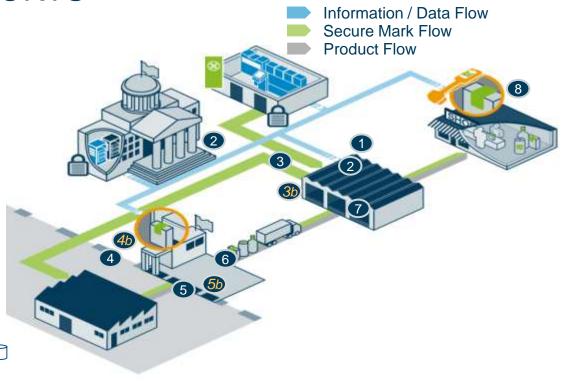
Web / smartphone / device for product authentication with machine & human readable codes



B. PROCESS FOR IMPORTS

- 1. Importer orders stamps
- 2. Upon Gvt approval, importer receives coded stamps
- 3. Stamps shipped to☐ foreign manufacturer
- 4. Stamps applied on products by foreign
- manufacturer and activated
- 5. Stamped products shipped by foreign manufacturer

- 3ь. Stamps kept by importer
- 4b. Stamp applied before clearance
- 5_b. Stamps activated
- 6. Customs clearance
- Importer declares reception of stamped products
- 8. Inspections along distribution chain and at point of sale

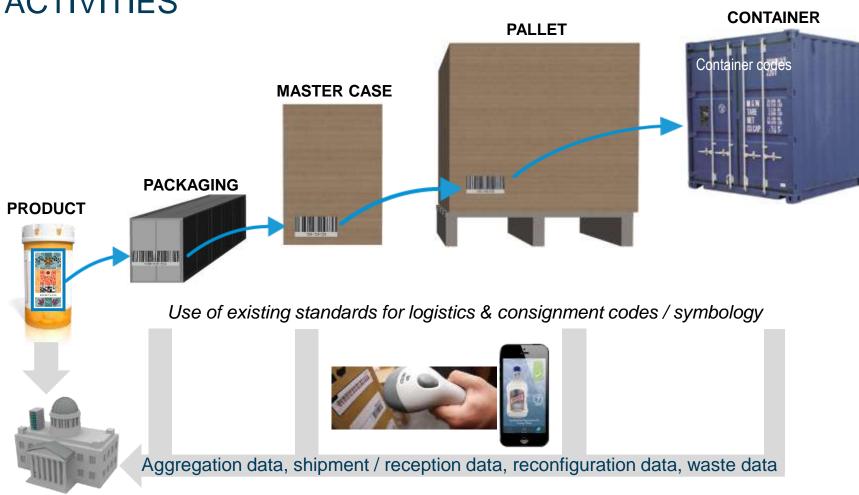


Administration has access to data:

- Products planned to be imported
- Products imported from a reliable source



AGGREGATION TO FACILITATE CUSTOMS ACTIVITIES



Government Data Management System: contains all data to facilitate law enforcement activities. Data may be exchanged with other Agencies (Tax, Health...), or regional control systems (EMCS...)



CROWD SOURCING TO GENERATE DATA AND INTELLIGENCE AGAINST FRAUD (TAX, COUNTERFEITING, SMUGGLING)



Millions



Trust: is the product authentic?

Public / consumers









3. CONCLUSION

KEY SUCCESS FACTORS

- Government willingness to implement a track and trace programme for selected products (e.g. excise) with supporting legislation.
- System in the hands of and controlled by the Government, and adapted to cope with local constraints.
- Selection of a system provider independent from the industry to ensure data integrity, while working closely with the industry for mutual benefits.
- Start with targeted products (high value, high tax), then expand.
- Full implementation by product to combat fraud (fight loopholes).
- Multi-layered security (material-based and digital-based).
- Interoperable with other systems.
- Open to existing coding / symbology standards.
- Effectiveness of law enforcement activities using adequate authentication and track & trace tools.
- Effectiveness of sanctions leading to transparency and protection of legitimate economic operators.



DOES IT WORK? CLIENT TESTIMONIALS EXTRACTS

ALBANIA

"384 economic operators registered, out which 168 have been registered with the tax authorities before the implementation of the new law.

50 cases of violation have been evidenced. The unpaid excise tax is about USD 660,000, while the imposed fines are USD 1,692,000"

Arlinda Mulgeci, Deputy General Director of the Albanian Customs Administration at the World Customs Organization (WCO) Conference in Dubai, May 2013

BRAZIL

"Tax collection in the beverage industry increased considerably with this more advanced approach to monitoring production, known as SICOBE. In the tax arena, certain tax avoidance tactics exist that efficient measures, like this system, eliminate.

SICOBE makes it possible to more reliably and accurately monitor [the production of each beverage] in real time."

Otacílio Cartaxo, Secretary of the Brazilian federal tax authority, quoted in Folha de Sao Paulo, 6 Apr'10

CALIFORNIA

"California is pleased with the encrypted cigarette tax stamp and we recommend the technology for use in other states. The use of our encrypted stamp has significantly increased effectiveness and efficiencies in the duties performed by the enforcement officers. The system attributes provide California with the technology needed to stay a step ahead of the counterfeiters and cigarette tax evaders."

Lynn Bartolo, State of California Chief Special Taxes and Fees Division, in a letter dated 24 Feb'11



CLIENT TESTIMONIALS EXTRACTS - 2

MOROCCO

"The aim of marking is to create traceability, to know in real time the production of the ones and others. The experience in a certain number of countries, in particular Brazil and Turkey, shows that this system offers a strong prospect. The increase in declarations reached 20% after the marking installation. We therefore suspect that the amounts of the statements were previously somewhat undervalued. Apart from that, we made a certain number of controls which also resulted in several recoveries..."

Zouhair Chorfi, Director General of Morocco's administration of customs and indirect taxes, interviewed by L'Economiste, 12 Oct'12

GEORGIA

"SICPATRACE® implementation has started in Georgia in February 2012 and is fully operational on tobacco, alcohol and beer products. I would like to express my gratitude towards the company and highlight its excellent performance for reaching the objectives and requirements set by the contract between SICPA and GRS."

George Bubuteishvili, Head of Service Department, LEPL Revenue Service (GRS) in reference letter to SICPA, 2013

CANADA

"At this point in time, ... I am very satisfied with how the program has been put in place and firmly believe that its success is directly related to the expertise and professionalism demonstrated by both the Canadian Bank Note Company and SICPA Product Security SA."

Pierre Bertrand, Director General, Excise and GST/HST Rulings Directorate, Canada Revenue Agency, in a letter to SICPA in Aug'11



CLIENT TESTIMONIALS EXTRACTS - 3

BRAZIL - Soft drinks and beer industry publicly recognises the benefits of the system to control and monitor their production.



"NATIONAL BEER PRODUCTION

With the installation of SICOBE (Beverage Production Control System), it was possible to control and monitor the beverage production, especially with soft drinks and beer."





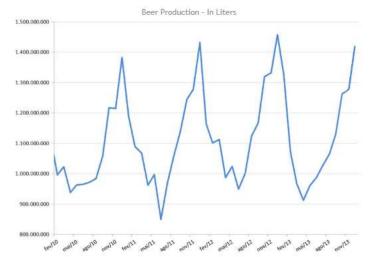
SECTOR	TAXATION	SOFT DRINKS	BEER	COMPETITIO	ON DEFENSE
roductio	on				

With the installation of SICOBE (Beverage Production Control System), it was possible to control and monitor the beverage production, especially with soft drinks and beer.

The chart below shows data from beer production, from January 2010 to December 2013, according to SICOBE.

Until November 2013, SICOBE controlled the production of 11.3 billion liters of beer, volume 2.2% smaller than the same period of 2012, in which the system monitored the production of 10.9 billion liters.

In 2013, we estimated a production of 13.4 billion liters of beer. According to SICOBE, that was exactly the amount produced.



all sally	2010	2011	2012	2013

http://afrebras.org.br/en/setor/cerveja/producao/

SICPA