

SICPA



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BullionProtect®

An innovative solution to
safeguard bullion market
integrity

Dr. Vincent Mathier

IPMI European Chapter Seminar
"Precious Metals Products &
Technologies"
18-19.11.2019



Enabling trust



WHO IS SICPA

- Leading provider of **secured product authentication, identification, traceability and supply chain solutions**
- **A long-trusted advisor** to governments, central banks, high security printers and industry
- More than 3000 patent applications worldwide



Offices and factories on 5 continents



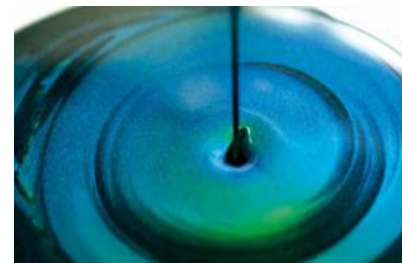
About 3000 employees worldwide



Technology & services provided in over 180 countries



Over 50 nationalities represented



Founded in 1927 in Lausanne

THE USE CASE (THE FRAUD) WELL SUMMARIZED IN RECENT PRESS



Business

Gold bars fraudulently stamped with the logos of major refineries are being inserted into the global market to launder smuggled or illegal gold, refining and banking executives tell Reuters.

Source: *Exclusive: Fake-branded bars slip dirty gold into world markets*, August 28, 2019, Peter Hobson, <https://www.reuters.com/article/us-gold-swiss-fakes-exclusive-idUSKCN1VI0DD>

JAPAN AUGUST 28, 2019 / 7:09 AM / 2 MONTHS AGO

Exclusive: Fake-branded bars slip dirty gold into world markets

Peter Hobson

LONDON (Reuters) - A forgery crisis is d

The counterfeits in these cases are subtler: The gold is real, and very high purity, with only the markings faked. Fake-branded bars are a relatively new way to flout global measures to block conflict minerals and prevent money-laundering. Such forgeries pose a problem for international refiners, financiers and regulators as they attempt to purge the world of illicit trade in bullion.

Source: *Exclusive: Fake-branded bars slip dirty gold into world markets*, August 28, 2019, Peter Hobson, <https://www.reuters.com/article/us-gold-swiss-fakes-exclusive-idUSKCN1VI0DD>

PRODUCT FRAUDS ALONG THE VALUE CHAIN CAN BE ADDRESSED BY AUTHENTICATING PRODUCTS

Complex supply chains



Supply chain and globalized manufacturing resulting in manufacturing knowhow transfer and more complex, less visible supply chain

Crime



Organized crime sees this as high profitability, low pain opportunity

Globalisation



Digital technology (E-commerce) and Globalization are exacerbating these issues

SECURE LABEL TECHNOLOGIES TO PROTECT PRODUCTS AND BRANDS



Front view



Tilted view

QUAZAR®



Label specimen

SICPA OASIS®




Dynamic QR code

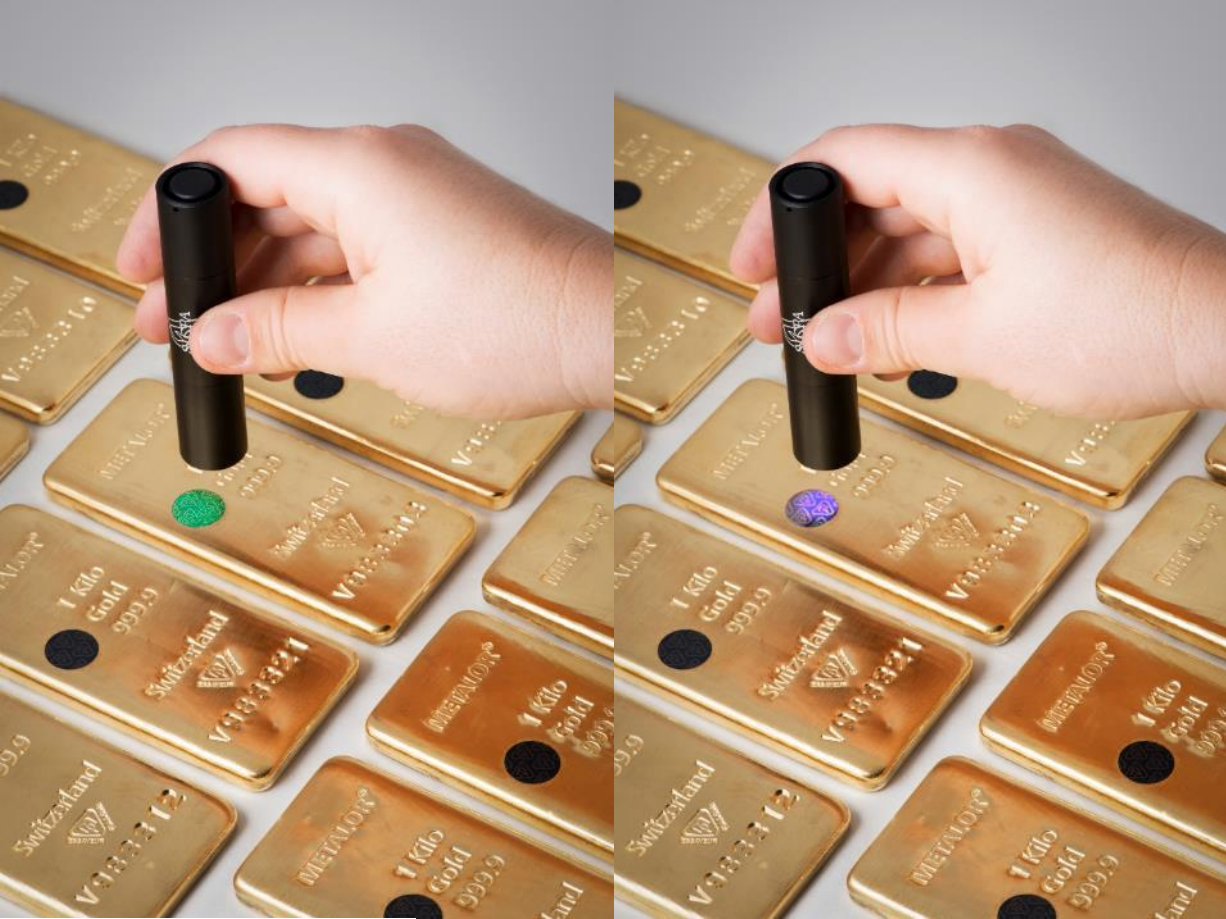
UV fluorescence with SICPAGUARD®



A MULTI-LEVEL APPROACH TO PRODUCT AND BRAND PROTECTION

The protection should consist of a combination of security features to allow a clear unambiguous differentiation from counterfeiters at all levels

| | Authentication description | Target users | Main challenges |
|---|--|---------------------------------------|--|
|  Overt features | By human sense without equipment (sight) | Consumers, Inspectors | Counterfeiting Tampering |
|  Covert features | By handheld devices | Government agencies, and brand owners | Counterfeiting Uncontrolled production or diversion |
|  Forensic features | By forensic experts using lab equipment | Government agencies, and brand owners | Legal responsibilities |



BullionProtect® IS AN ALL-INCLUSIVE SECURITY SOLUTION THAT HELPS PROTECT THE BRAND OF THE REFINERS



Security built on proven technology with **high counterfeit robustness**;

Simple and immediate verification of security seals even under suboptimal conditions, such as limited space, poor lighting and no internet connection;

Compatible with existing and potential security measures without impairing gold purity at any stage of production, delivery, transaction and recycling;

Versatile solution that can be customized and scalable to different market needs and evolving demands;

Cost-effective and time-effective - no impact on production procedures, only small cost adjustments, requiring minimal investment.



Thank you
for your attention
