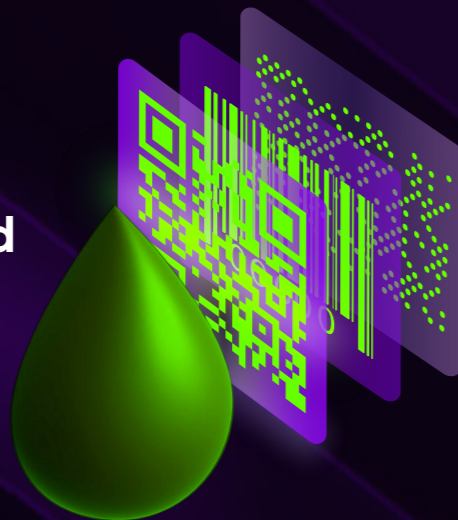# keeper

Keeper aims to bring a new anti-counterfeiting technology to the market, with an unprecedented level of security, traceability and cost-effectiveness.

Keeper features the first system ever to combine a unique product identification with the possibility to connect only the right user to the related digital information.

Keeper in a nutshell

TRACEABILITY
Keeper uniquely identifies individual entities, through a unique encrypted code, printed in security ink.

SECURITY
Keeper offers a unique multi-level security method, with at its heart an ink and reading method that is unique at the atomic level and irreproducible.

INTEGRABILITY
Keeper can be applied to almost any type of material, occupies a few mm^2 and is totally invisible.

MULTILEVEL ACCESS
Keeper enables an access hierarchy, to share the right information only to selected entities. It can also be integrated into classic QRcodes to allow the sharing of public information with unauthenticated users.

Keeper makes traceability ensured by the security of authenticity

keeper

Key Code based on Nanomaterials to protect personal and product identity

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www.keeper-project.eu

Partners

POLITECNICO MILANO 1863   CNRS   enigma   VC VARIUSCARD   day one

The PoliMi team focuses on the formulation, production and characterization of security inks based on novel nanomaterials.
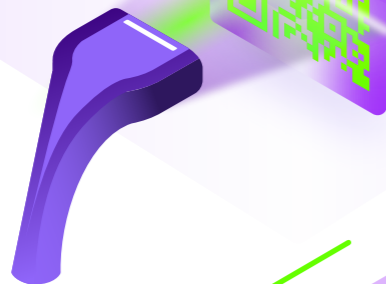
The chemical-physical characteristics are tailored to achieve a slightly different and unique opto-electronic response at the atomic level for each ink, and the material is optimised for easy and low-cost printing.

Nanomaterial based security ink

The software control

Within Keeper, Enigma is responsible for creating a software platform capable of linking spectrometric measurements to a unique and certain key associated with the product's digital counterpart, or the user's personal data, and creating a simple interface in line with the needs of different customers.

From tech to market

The role of Day One is to improve the exploitation results through user-centered design approach to Keeper products development, study of the best business model strategy and opening up new potential market segments.

AIRPORT CHECK-IN

SUPERMARKET

Ultra-fast spectrometric reader

The aim of the Complex Media Optics Lab @ LKB in CNRS is to develop an innovative, super-fast and accurate reading system that takes full advantage of the characteristics of the inks developed at PoliMi while keeping costs and dimensions down.

The industrial Pilot

The role of VariusCard is to dictate the guidelines for large-scale industrialisation of products based on Keeper technology for document and ID card applications.

During the project, pilots on active industrial lines will be activated leading to the production of hundreds of cards protected by the technology under development.

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Applications

Keeper is applicable to several sectors where counterfeiting and lack of traceability make the value chain insecure and consumers at risk of fraud.

Documents and Stamps

Food and Beverage

Pharma Packaging

Art and Design

Electronic Components