



# ABSOLUT-ID

ID Security Reinvented



# ABSOLUT-ID

## SIX INTEGRATED BENEFITS



### Flexible Cash Flow

Value creation happens just before the cards are issued which eliminates immobilised cash and high cost of secured card storage.

### Affordable Cards

The full card production process is web-based which allows for convenient single-step integrated production with great efficiencies and delivers cards at affordable cost.

### Free choice of card materials

All card materials with proven durability and resistance to sun, moisture, tearing and wearing can be combined in the card construction.

### Reliable ID Authentication

Cards can be authenticated by simple visual control: tamper-evidence is visible by any interruption of guilloche line art in the portrait and data areas

### Secured Production Flow

The integration of the card production flow in one single environment brings great security advantages since finished cards can be issued to citizens close to the place of production and reduces the risk of theft during storage and transport.

### Unparalleled Quality

Agfa's personalisation technology delivers image resolution at molecular level which increases the reliability level of visual identity checks to the benefit of overall security.



# DTR – The corner stone for tamper-proof

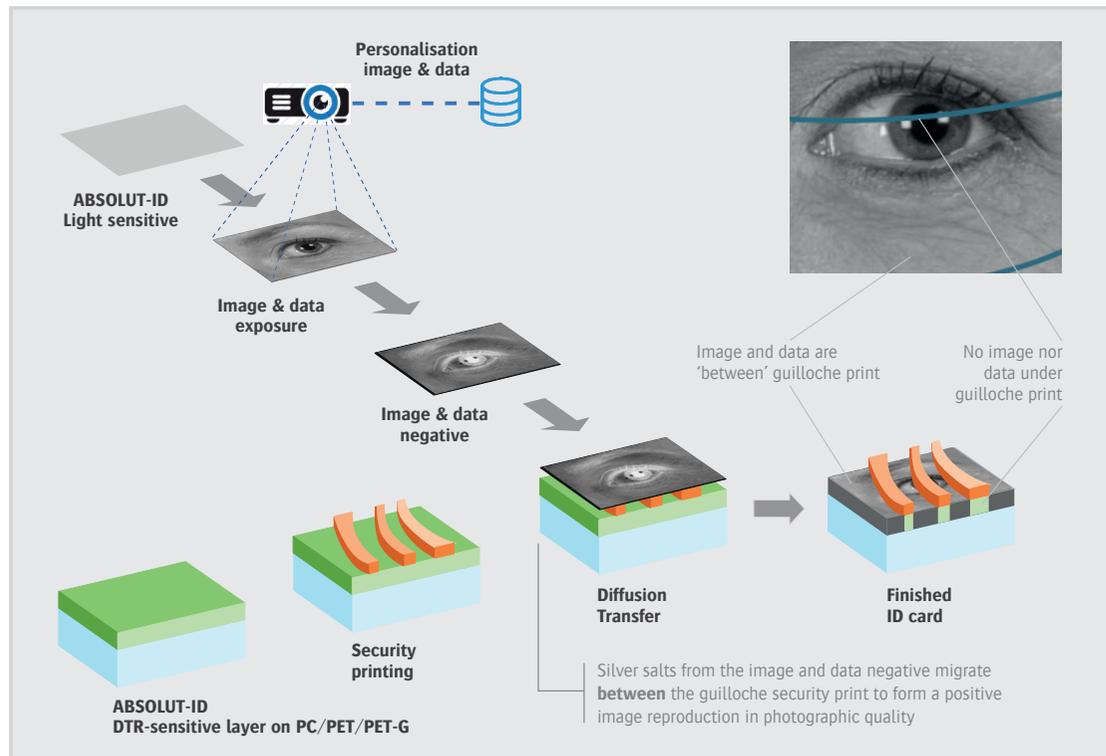
## Image resolution at molecular level

Building on Agfa's experience of 100+ years in analogue and digital imaging, the Diffusion Transfer Reversal (DTR) technology included in ABSOLUT-ID represents a market matured technology for image and data reproduction of unparalleled quality. The sophisticated continuous tone process generates image reproduction at molecular scale delivering image resolution similar to the highest possible photographic quality standard.

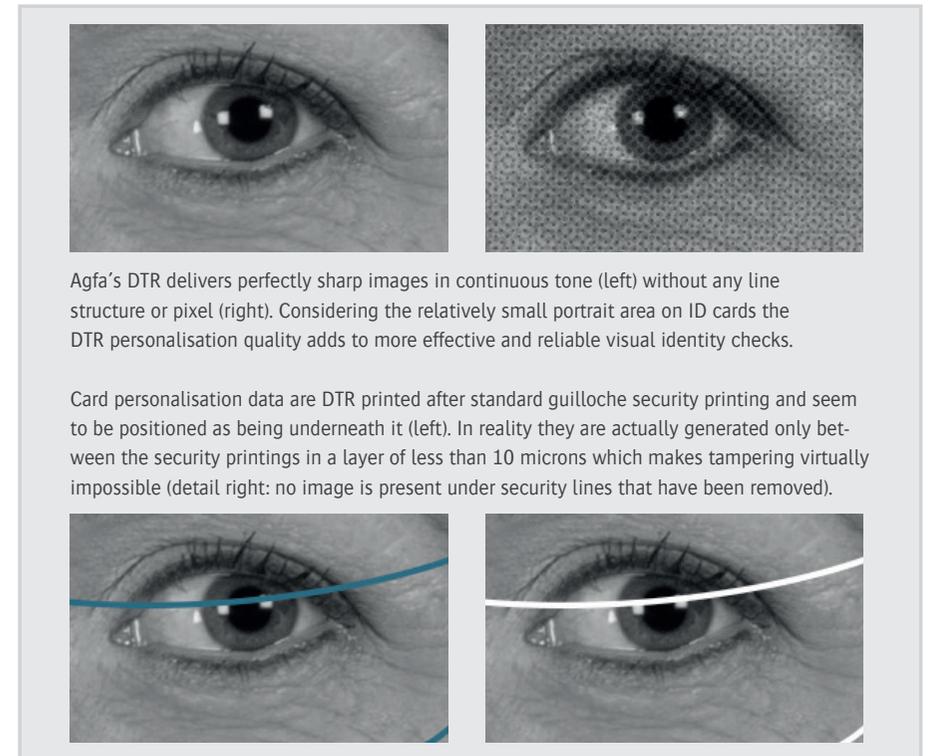
## Instant visual detection of tampering

ABSOLUT-ID cards attribute an unexpected prime role to the traditional guilloche security printing for the visual detection of tampering. DTR transfers by contact an image negative from the DTR substrate as an image positive onto the ID card. All areas covered with the ink of standard security pre-printing obstruct the transfer contact so that the image is in fact created between the guilloche lines. On a finished card it will look as if the image is positioned underneath the security print. This makes images and data on ABSOLUT-ID cards virtually impossible to counterfeit or even to manipulate. The smallest flaw or interruption of a single guilloche line will instantly reveal fraud.

## Diffusion Transfer Reversal - how it works

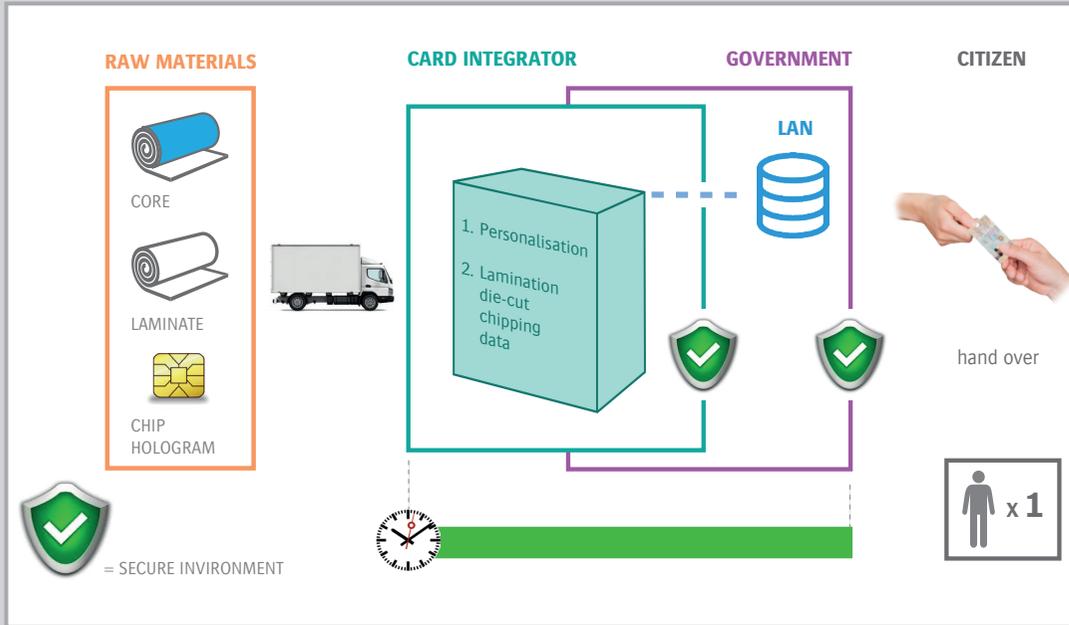


## How DTR adds to security



# INTEGRATED PRODUCTION FLOW

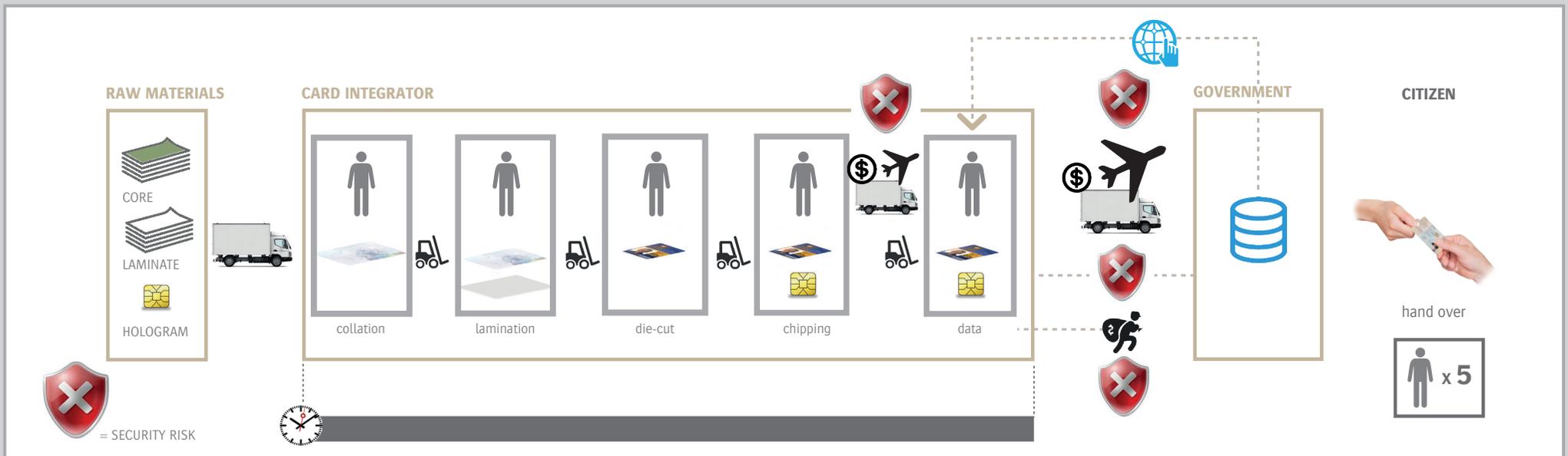
Highly flexible and secured work flow at lower cost



Thanks to Agfa's Diffusion Transfer Reversal (DTR) technology, the virtually tamper immunity of ABSOLUT-ID cards brings value to society as well as to individual citizens in terms of security and reliability. Additionally, using Agfa's technology allows to substantially reducing both the security risk along the card production flow and the overall process cost, which eventually results in a lower cost per finished card.

The integrated production of ABSOLUT-ID cards is a web-based process that starts with the DTR printing of the personalisation image and data. The cards are produced in a continuous one-step mode through all the stages of lamination, die cutting and chipping which offers tremendous time and cost efficiency benefits compared to the more conventional approach via a series of sequential and often geographically distributed steps. The ABSOLUT-ID concept eliminates the need for laborious card preparation before a single card can be personalised as well as the related cost of materials and labour. ABSOLUT-ID avoids that warehouses are stacked with semi-finished cards that have high value only in terms of immobilised cash and represent a high risk of security breach in case of theft; a risk that can only be countered by increasing the cost even higher with security infrastructure investments or surveillance.

## The conventional card production flow



# THE AGFA GROUP

## At a glance

To satisfy the increasingly stringent requirements with respect to the integration of personal data, sophisticated electronics and security features in one ID document, the need for cost efficient, secured and robust solutions is evident; both on the level of the documents delivered and the production process. The ABSOLUT-ID turnkey solution delivers just that (and more).

### ID Security Reinvented

By combining proven technologies ABSOLUT-ID presents a new paradigm in ID card production in terms of cost, quality and security. Starting from Agfa's proprietary technology and materials for Diffusion Transfer Reversal for card personalisation with image and data, ABSOLUT-ID cards are produced in one single web-based process environment that integrates all production steps to deliver cards with all required security features. Contrary to the conventional process order, the production of ABSOLUT-ID cards starts with printing the personalisation image and data on the security pre-printed web substrate which not only avoids the traditional long and costly preparation time, but substantially contributes to increased security levels.

### 100+ Years of Imaging Expertise

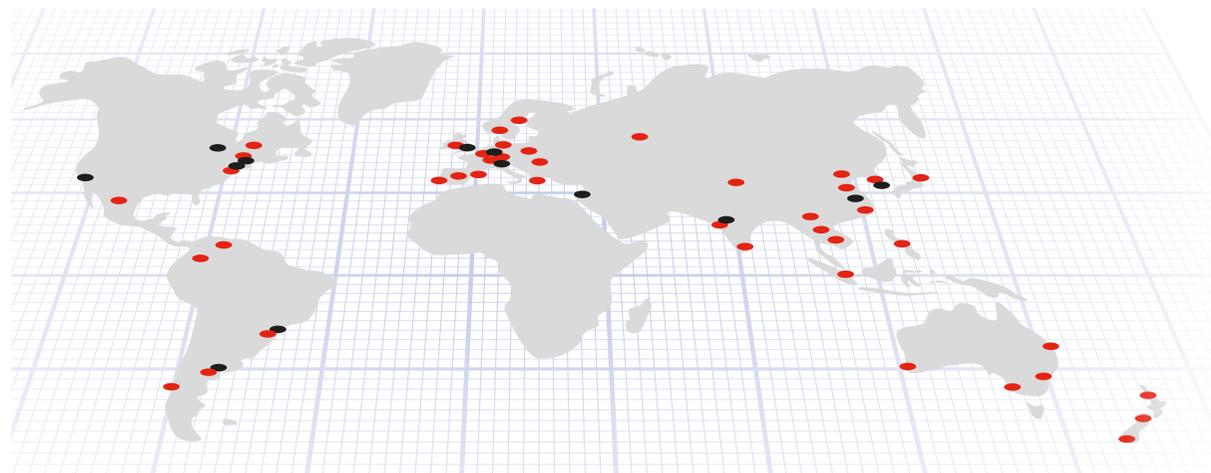
The Agfa-Gevaert Group originated in 1964 of the merger of the two leading photographic technology companies in Europe, Agfa, founded 1867 in Germany, and Gevaert, founded 1890 in Belgium. While the original portfolio concentrated on light sensitive imaging products and solutions, digital imaging technologies have been included since the 1980's via own developments and acquisitions. Today the Group develops, manufactures and markets an extensive range of analogue and digital solutions for the printing industry and the healthcare sector. Additionally, the Group serves a variety of specific industries with innovative technologies and products, like for instance Printed Circuit Boards (PCB), Synthetic Paper, Photovoltaic backsheet solutions, and of course the Security industry.

The growth of the company is driven by Agfa's quality product portfolio and proven approach to drive business on the basis of long term partnerships with customers. In order to maintain the highest possible quality of products and service, Agfa has achieved ISO 14001 and ISO 9001 certification without interruption since many years.

More details and Financial Reporting are available at [agfa.com](http://agfa.com).

### Agfa for Security

Building on certified quality of products and processes, Agfa's products, technologies and solutions are used successfully each day in a multitude of applications dedicated to the Security market. As a result, today over 100 million ID-documents are in circulation around the globe using Agfa products. As a matter of example, Agfa contributes to reliable security of national ID cards and driving licenses of several nations worldwide.



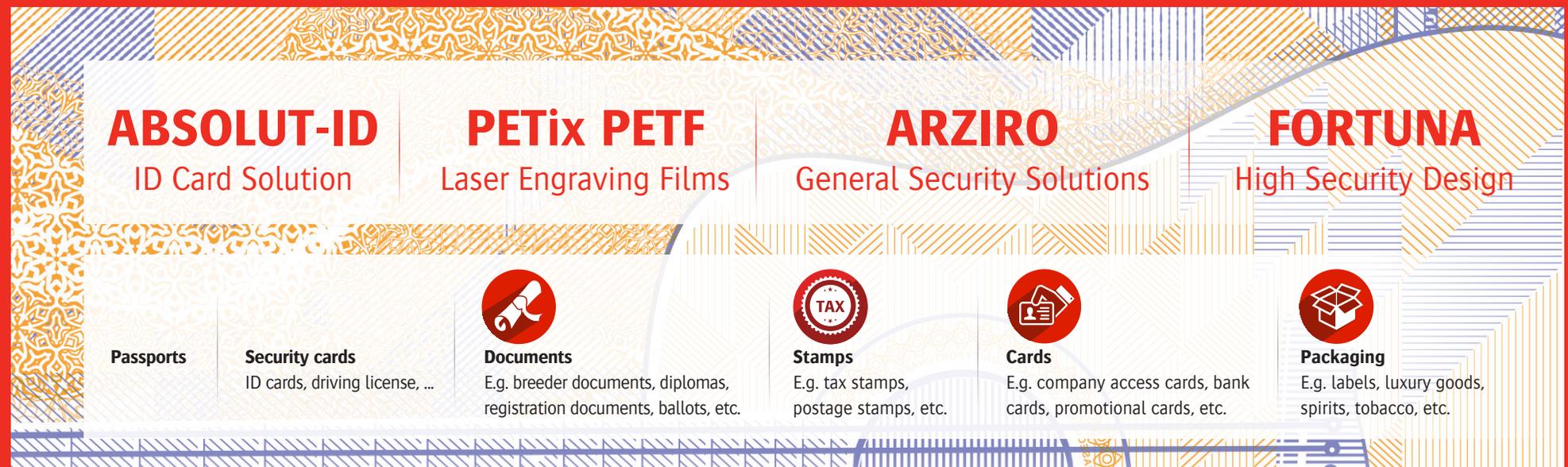
Agfa is close to its customers thanks to a well established global presence.



# AGFA FOR SECURITY

## More than meets the eye

To complement its offering of ABSOLUT-ID cards solution and PETiX and PETF laser engraving overlay films, the Agfa Group also offers a range of high-end software solutions to meet the needs of a wide variety of applications in the security printing market.



LCsys and Agfa are partners in the development of ABSOLUT-ID and offer it to the market as an integrated solution for the cost efficient production of highly secured ID cards.