HOW INTELLIGENT CARD MATERIALS WILL PUSH SECURITY TO A NEW LEVEL

Booth n° J19
In the world today there is an increased demand for new and innovative Secure documents.
General Government Documents

1. Extra hair
2. Glasses
3. Moustache

General Laser Personalisation

Counterfeiting is possible and not visible → Security risk
Interferometer results on Counterfeited general ID card

Original ID card

Original ID card + Counterfeiting
In the past there was a market for very high secure photo paper that was covered with an overlay to increase durability.

Today the market has moved to smartcards. The market share of laminated Security paper is decreasing and becoming smaller and smaller....
And now?

Imagine.....

....we could transfer the benefits from photographic paper to plastic sheets....
A new generation is born....

Negative film

Exposure by DLP (Digital Light Processing)
A new generation is born…

Exposure by DLP (Digital Light Processing)

Negative film

After exposure and developing
A new generation is born....

The negative is applied onto the pre-printed inner layer of the card.
A new generation is born….

The silver salts migrate into the DTR coating between the guilloches of the security printing.
A new generation is born….

The silver salts migrate into the DTR coating between the guilloches of the security printing.
A new generation is born….

The negative is peeled off

LTR COATING

Security printing

PAPER or POLYESTER SUBSTRATE
A new generation is born…

The negative is peeled off

Security printing

DTR COATING

PAPER or POLYESTER SUBSTRATE
A new generation is born....

Booth n° H09

AGFA
Imagine.....

....we could personalize and...

create cards in one step....
High Security a High Speed.....

The negative film is one time useable, (copy counterfeiting save ! )

Migration in DTR™ Layer between the guilloches

2–3 sec/card

Card core material with a DTR™ coating on Roll
High Secure Government Documents

1. Security printed core on roll
2. Transfer personalisation on the negative film
3. Transfer personalisation into the DTR-layer under the security print
4. Return empty unusable negative film
5. D2T2 personalisation possible on core or overlay
6. Stamps
7. Lamination Unit
8. Punching the Personalised cards
9. Chip milling and encoding
10. Card collector
11. Rest material
High Secure Government Documents

1. Security printed core on roll
2. Transfer personalisation on the negative film
3. Transfer personalisation into the DTR-layer under the security print
4. Return empty unusable negative film
5. D2T2 personalisation possible on core or overlay
6. Stamps
7. Lamination Unit
8. Punching the Personalised cards
9. Chip milling and encoding
10. Card collector
11. Rest material
High Secure Government Documents

1. Security printed core on roll
2. Transfer personalisation on the negative film
3. Transfer personalisation into the DTR-layer under the security print
4. Return empty unusable negative film
5. D2T2 personalisation possible on core or overlay
6. Stamps
7. Lamination Unit
8. Punching the Personalised cards
9. Chip milling and encoding
10. Card collector
11. Rest material
High Secure Government Documents

1. Security printed core on roll
2. Transfer personalisation on the negative film
3. Transfer personalisation into the DTR-layer under the security print
4. Return empty unusable negative film
5. D2T2 personalisation possible on core or overlay
6. Stamps
7. Lamination Unit
8. Punching the Personalised cards
9. Chip milling and encoding
10. Card collector
11. Rest material
High Secure Government Documents

Perso + Card production in 2-3 Seconds/Document
1. Unique secure & analogue personalization
2. No pixels → difficult for counterfeiting
3. Production from Roll to Cards in 1 step possible
4. Personalization won’t decrease the production speed
5. Long lifetime durable cards
6. No transport of pre-produced cards necessary
7. Local all in one card production
8. High Secure color imaging possible
9. Fast implementation
10. Easy to operate
11. Local card production and personalization in one step
12. All security print is possible
13. Personalization will not cover the security print
Questions......