

PRINTED SMART DEVICES

MISSION



Enabling digital business with
secure and sustainable
paper electronics.

Technology Summary



Utilizing print technologies to create connected electronic features without NFC cost and complexity

Today we see a variety of ways how to connect documents with digital applications. So far, the available technologies are not able to combine the need for economically viable mass production with security and end-user friendliness. Barcodes and QR Codes can be easily copied. RFID and NFC tags come with recyclability issues and high cost for production and integration.

To close this gap between security, interactivity and cost, Prisma has developed an entirely new approach. With standard printing equipment, available at security printers worldwide, we enable our partners to create electronic features during the regular print production. Those features can be printed invisibly underneath the color print or even embedded into ID cards.

The result of this process is a regular security print product with minimal added complexity, even though it now serves as a digital key that connects with an end-user's smartphone. Simply by placing the document on your smartphone screen, the printed, electronic key inside, is able to unlock any type of digital content.

With this approach, it is finally feasible to replace today's optical holograms with a new feature where brands and security providers do not need to rely on the consumer's knowledge of the hologram anymore. Instead we allow the end-user's smartphone to check products and documents for authenticity and added information.

*Print to digital
– available
technologies*



THE BEST OF BOTH WORLDS:

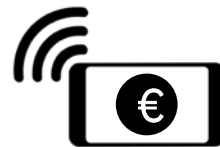
- + secure interaction
- + scalability & low cost
- + eco-friendly

Security and interactivity

OPTICAL



RFID / NFC / BLE



Cost of manufacturing and system

*Printed
electronics taken
literally...*

Using **standard industrial printing equipment** to print electronic features directly into products.



printed smart identification



With the *printed smart identification* tag, the internet of things arrives in security documents. The *prisma ID* tag enables any print product to seamlessly communicate with websites or apps through your smartphone.

USER FRIENDLY:

Touch, swipe, interact.
Activate the *prisma ID* tag intuitively.

EVERYWHERE:

Low cost print manufacturing on paper or foil products, from cards and labels to packaging.

IN YOUR POCKET:

Works on smartphones and tablets within apps or websites.

INVISIBLE:

Does not interfere with product design.
Easy to embed in any layout.

SECURE:

prisma ID is not copyable and inseparably bound to the product.

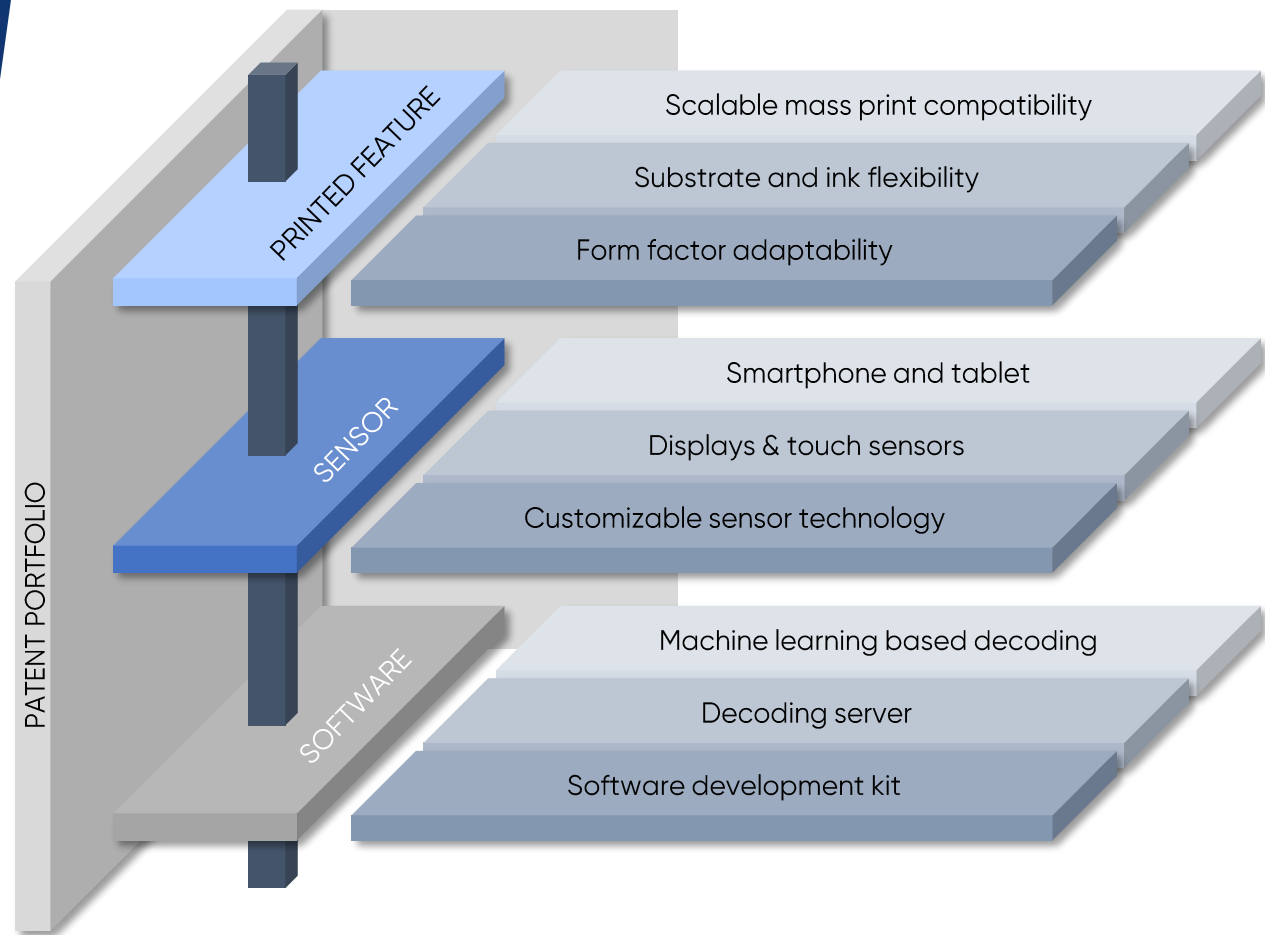


**PRINTED SMART ID - eGovernment
by touch. On any smartphone!**

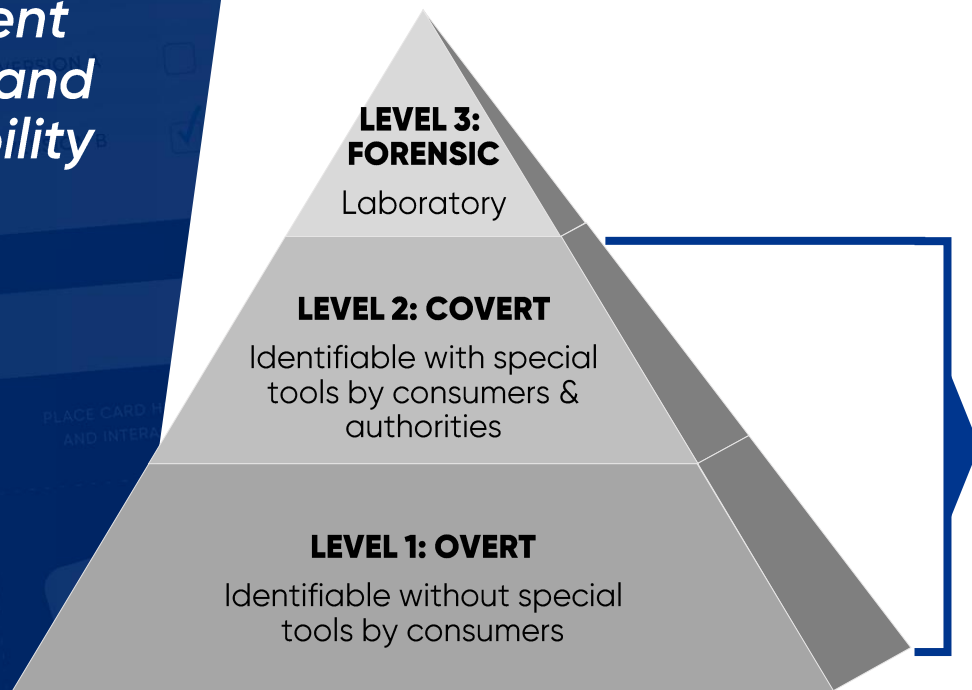


<https://youtu.be/GceRFs7IYv8>

A new technology core as a highly flexible product toolkit



Document security and accessibility



Enabling end-users to verify covert security features with available devices.

prisma ID in secure documents

prisma ID integrated into secure documents
during regular print production.



No barriers: Accessible with smartphones
to authenticate and unlock sensitive data!
Direct communication with citizens.

Closed environments for authorities:
Customized reading devices offering
additional data and security.

Prismade is licensing its unique technologies and is interested in partnering with businesses in product development, manufacturing & sales!

Thank you for your attention!



MANAGING DIRECTOR & FOUNDER

Dr.-Ing. Karin Weigelt
karin@prismade.com

MANAGING DIRECTOR & FOUNDER

Jan Thiele
jan@prismade.com