COMPONENTS AND SOLUTIONS FOR THE DIGITAL TRANSFORMATION

QUANTAVIS

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DELL'UNIVERSITÀ DI PISA

QUANTAVIS

COMPONENTS AND SOLUTIONS FOR THE DIGITAL TRANSFORMATION

For businesses that need **customized hardware/software solutions** for Industry 4.0

Industrial IoT

Businesses that need to make operations visible in real time (systems of sensors for harsh environment, digital retrofit of existing plants, wearable devices)

Cybersecurity

Businesses that need to protect their brands, their data, and people's data (anticounterfeiting, cybersecurity monitoring).

Semiconductors

Businesses that need advanced tools and application-specific functional blocks for semiconductor technology (IP/software licensing)

Industrial IoT: Sensors for harsh environments

- **Development of sensor solutions capable to operate in harsh environments** in terms of form factor, power supply, communication, temperature, pressure, humidity

- Based on company know-how on extreme-low-power integrated circuits built during several research and development projects.
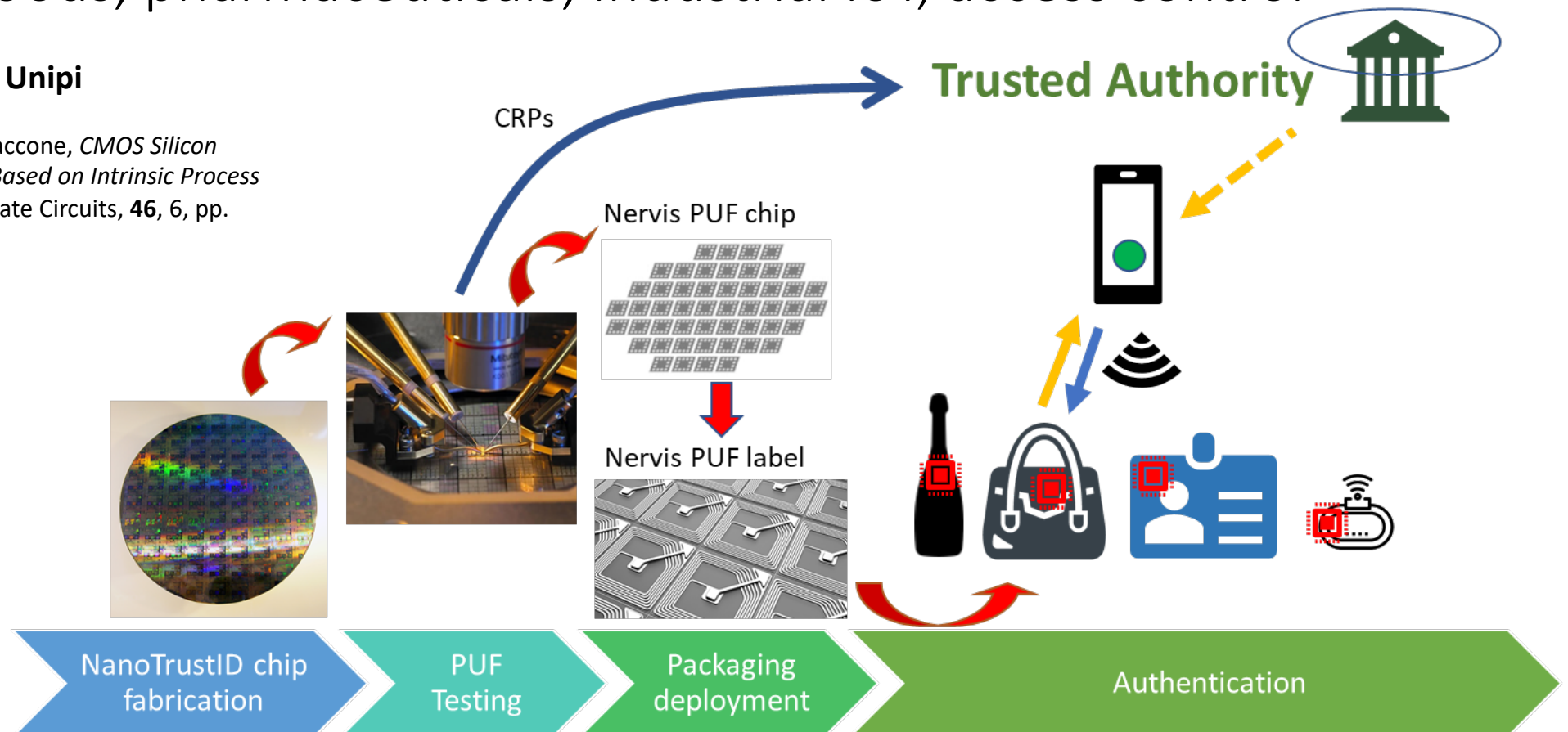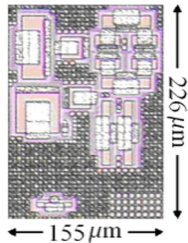
Cybersecurity: Autentication solution based on silicon Physical Unclonable Functions
for luxury goods, pharmaceuticals, Industrial IoT, access control
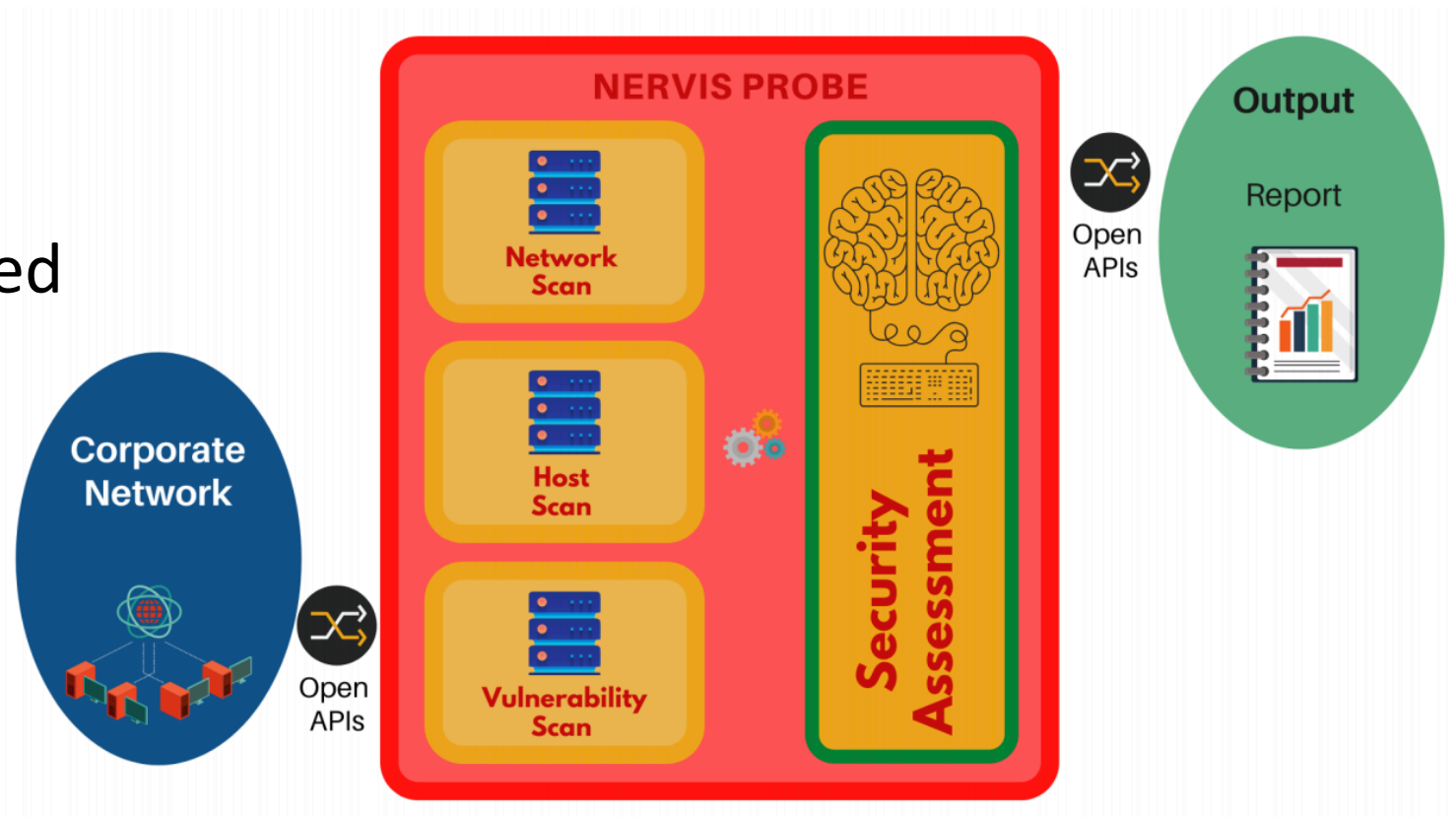
Pioneering Research at Unipi

S. Stanzione, D. Puntin, G. Iannaccone, *CMOS Silicon Physical Unclonable Functions Based on Intrinsic Process Variability*, IEEE Journal Solid-State Circuits, **46**, 6, pp. 1456 – 1463, (2011).

226 μm

155 μm

CRPs

Trusted Authority

Nervis PUF chip

Nervis PUF label

NanoTrustID chip fabrication → PUF Testing → Packaging deployment → Authentication

Cybersecurity: Nervis probe

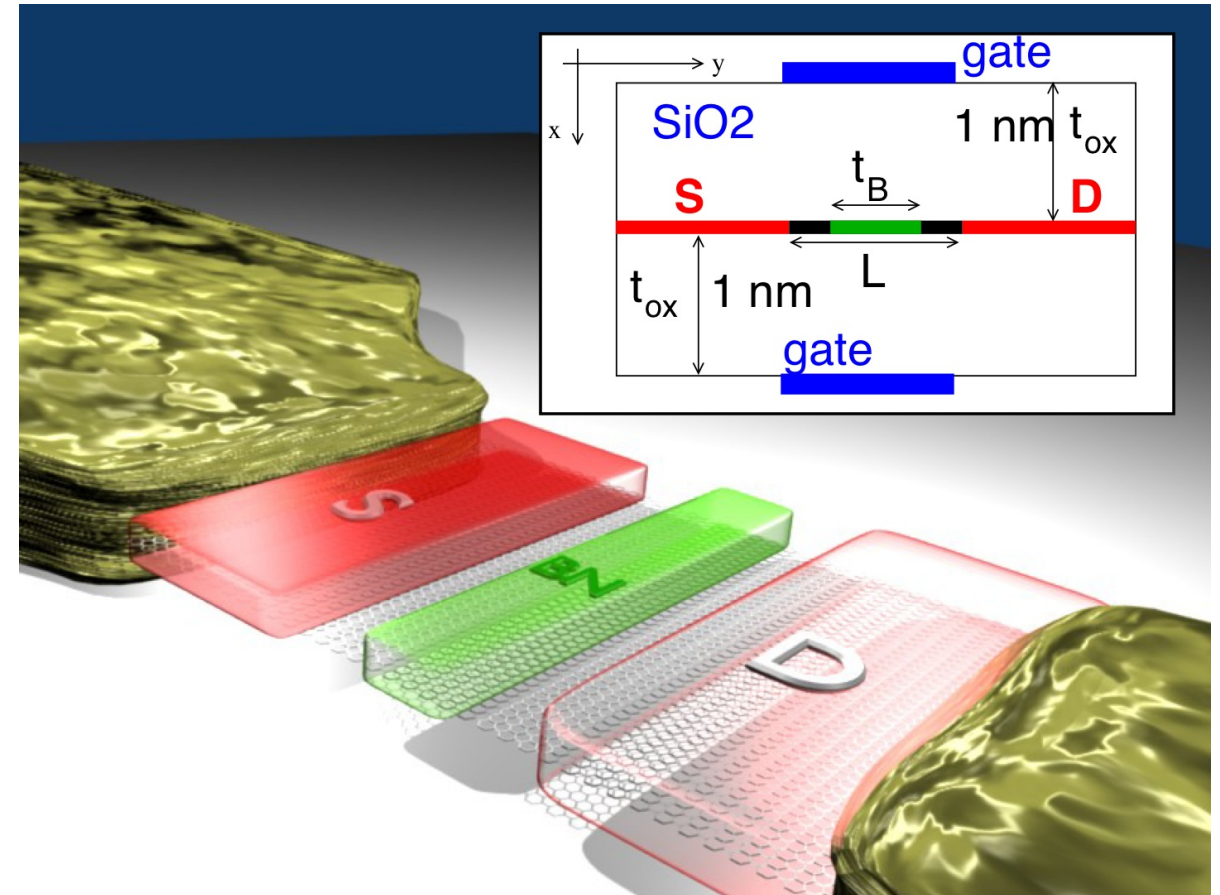Active assessment of company network security

- Active security

- Fully self-configured proprietary hardware installed in the company network.

- Transparent integration

- Periodic reports

- Smart Working

Semiconductor solutions:
NANOTCAD ViDES: Nanoscale device simulator

- Quantavis provides support and consulting services based on NanoTCAD ViDES

- Development of customized software modules tailored for particular applications, materials, devices.

- Simulation and design services for the exploration of technology options.

- Training courses on NanoTCAD ViDES.

- Dedicated support on tools and simulation methodology.

Contatti

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