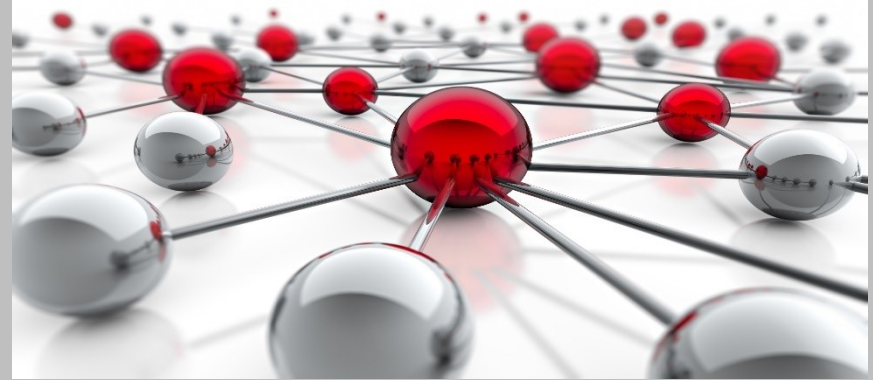# arE con

PRESENTATION

PRESENTER / DATE:

arE con

- **THE COMPANY**

- **COMPETENCES & EXPERIENCE**

- **OFFERED PRODUCTS & SERVICES**

THE COMPANY

ARE CON

is a **sales, service and consulting** organization within the smart card industry, targeting to connect business partners for mutual success.

THE COMPANY

ARE CON IN A NUTSHELL ...   >50 / 25% / 2008

YEARS OF SMARDCARD INDUSTRY KNOWLEDGE

ANNUAL GROWTH RATE

YEAR OF FOUNDATION

- THE COMPANY

- **COMPETENCES & EXPERIENCE**

- OFFERED PRODUCTS & SERVICES

COMPETENCES & EXPERIENCE

OUR STRENGTHS

- Long practical experience and know-how in different areas of the Smart Card Industry (card manufacturing / pre-press / personalization / security printing / technical consultancy etc.)
- Large international network
- Customer-oriented mentality
- Highest standards of quality
- Innovative and flexible thinking

YOUR ADVANTAGES

- Fast lead times
- Optimized and tailormade solutions
- Benefit from our experience and be one step ahead!

COMPETENCES & EXPERIENCE

Bernhard F. Wernberger

Managing Director

Experience:

- **Managing Director at Novacard GmbH**
- **Manager BS IT/Access at Winter AG**
- **Management Consultant**
- **Director Sales EMEA at Power Integrations GmbH**
- **Account Manager Identification at NXP (Philips Semi.)**
- **Global Purchasing Coordinator at NXP (Philips Semi.)**

Degree in Engineering & Business

COMPETENCES & EXPERIENCE

Anja Knitter

Head of Finance / Authorized Representative

Experience:

- **Authorized Representative at Novacard GmbH**

- **Commercial Clerk at Novacard GmbH**

- **Order Preparation Card Manufacturing at Rothahn Essich GmbH**

- THE COMPANY

- COMPETENCES & EXPERIENCE
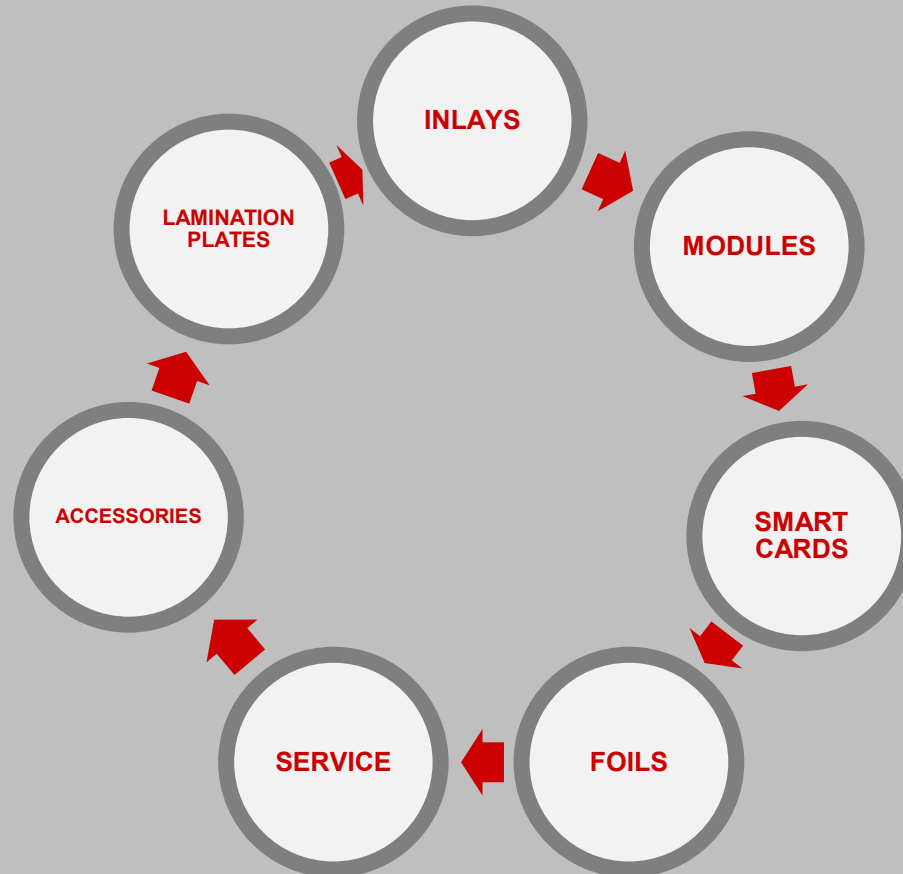
- **OFFERED PRODUCTS & SERVICES**

DISTRIBUTION

We offer components and semi-finished products around the smart card to

- Card manufacturers
- State printers
- Governmental organizations
- System integrators
- etc.

DISTRIBUTION

- INLAYS
- MODULES
- SMART CARDS
- FOILS
- SERVICE
- ACCESSORIES
- LAMINATION PLATES

We **are con**necting business partners
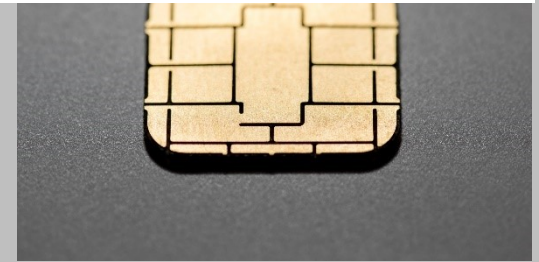
DISTRIBUTION

PRODUCT PORTFOLIO

- **CUSTOMIZED FORMATS** *(3x6/3x7/3x8/2x5 etc.)*

- **DIFFERENT MATERIALS** *(PVC / PC / PET etc.)*

- **DIFFERENT THICKNESSES AND ANTENNA PROCESSINGS** *(embedded wire, etched antenna, direct bonding etc.)*

- **LF MODULES** *(Hitag 1 / Hitag 2 / EM 4200 / ATA 5577 etc.)*

- **HF MODULES** *(Mifare Classic / Mifare DESFire / Legic / I-Code etc.)*

- **UHF MODULES** *(Monza 4QT, U-Code, Alien-Higgs 3 etc.)*

- **HYBRID TECHNOLOGIES** *(combination of LF, HF, UHF, contact chips, magstripes, barcodes)*

DISTRIBUTION

PRODUCT PORTFOLIO

- Secure memory chips

- Crypto memory chips

- Microprocessor chips

- 6 or 8 contacts

- Selection of numerous packages, various adhesives
  for different card materials etc.

- Manufacturer: Microchip / Infineon, ATMEL, NXP etc.

DISTRIBUTION

CONTACTLESS CARDS

- **HF – HIGH FREQUENCY MODULES**
  NXP MIFARE Ultralight, NXP MIFARE Classic,
  NXP Mifare DESFire, NXP I-Code, LEGIC Prime, LEGIC Advant, LEGIC CTC etc.

- **LF – LOW FREQUENCY MODULES**
  NXP Hitag 1, NXP Hitag 2, EM 4102, EM 4450, Atmel ATA5577 etc.

- **UHF – ULTRA HIGH FREQUENCY MODULES**
  Impinj Monza 4QT, Alien-Higgs 3, NXP UCODE etc.

- **NFC – NEAR FIELD COMMUNICATION**
  NXP NTAG203 etc.

DISTRIBUTION

CONTACT CARDS

- **MEMORY CARDS**

  Secure Memories
  - Atmel AT24C02- AT24C1024
  - Microchip 24LC01-24LC512
  - Infineon SLE 5532 / 5542 / 5552 / 5518 / 5528 / 5538

  Crypto Memories
  - Atmel AT88SC0104-AT88SC25616
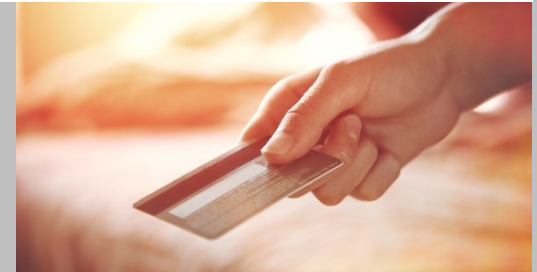
- **MICROPROCESSOR CARDS**

  - NXP with JCOP OS / J1A020-J3D145
  - Infineon with CardOS 4.4 / 5.0 - SLE 66CX680PE – 78CLX800P

HYBRID CARDS

COMBINATION OF VARIOUS TECHNOLOGIES ON ONE CARD

- HF / LF / UHF / contact chips / magstripes / barcodes

SMART CARDS

DISTRIBUTION

COLLECTION OF FURTHER CARD FEATURES

- Special form factors
- Holograms
- Signature panel
- Scratch off panel
- Thermo-rewritable foil
- Punch holes
- Security printing
- Relief structures
- Etc.

DISTRIBUTION

CORE MATERIAL + OVERLAYS

- PVC / PET-G / PET-F / PVC-ABS / PC

OPTIONS

- Overlays with special coatings and surface qualities
- High VICAT values
- Selection of thicknesses from 45 µm up to 820 µm
- Quality varieties for different applications (credit cards, contactless cards, dual interface cards, standard and low cost cards)

SERVICE

DISTRIBUTION

PRINTING
- Thermal transfer printing
- Dye sublimation printing
- Embossing
- Re-transfer printing
- Inkjet Printing
- Laser Personalization

ENCODING
- Encoding of magstripes and barcodes
- Encoding of contact and contactless cards (LF/HF/Multi technologies)

FURTHER SERVICES
- Chip initialization / pre-personalization / programming
- Applet loading
- Layout & Pre-press service
- Mailing

ACCESSORIES

DISTRIBUTION

FURTHER RFID MEDIA
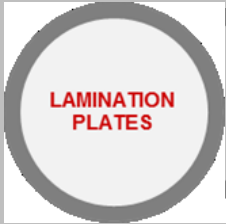- Key fobs
- RFID / UHF / NFC labels
- RFID wristband
- Wearables

- **CARD ACCESSORIES**
- Lanyards
- Yo-Yos
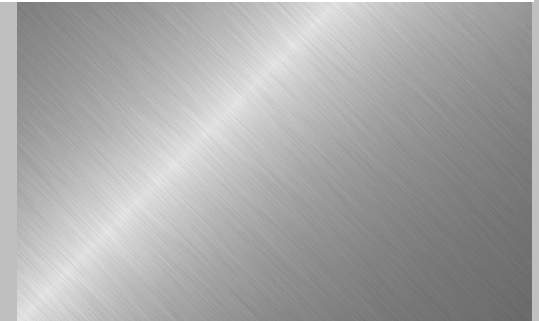- Clips
- Badge holder

CARD PRINTER

SEMI-FINISHED PRODUCTS

LAMINATION PLATES

DISTRIBUTION

High quality lamination plates and pads for standard and security card manufacturing

LAMINATION PLATES

- Different surfaces: glossy / light matt / silk matt
- Tactile surface structures
- Special features: Braille lettering, microtext

LAMINATION PADS

- Press pads for standard (155 °C) and high temperature lamination (215 °C)

REPRESENTATION

ARE CON represents **SMART PACKAGING SOLUTIONS (SPS),**

Main provider of secure and high added value components for card and document manufacturers and World Leader in Dual Interface Banking and eID documents.

REPRESENTATION

PRODUCT LINE	eBoost PAY® For Banking & Transportation	eBoost ID® For eID cards	eBoost PASS® For ePassport
PRODUCTS	DUAL 6 DUAL 8	DUAL HYBRID CONTACT CONTACTLESS	INLAY eCOVER
	Inlay Prelam	Inlay Prelam	Inlay for Datapage Polycarbonate*
OPTIONS	SILVER GOLD	SILVER GOLD	Teslin Pflex
	CMI	CMI CAI	CMI CAI
		VMI*	VMI*
	Pre-personalization OS loading service	Pre-personalization OS loading service	Pre-personalization OS loading service

Note
CMI : customized module image
CAI : customized antenna image
VMI : variable module image
* : under development

CONSULTING

We offer **consultancy and business development services** for the government and smart card industry in purchasing, processing and sales of complex ID-related products.

CONSULTING

- **PROCESS & COST ANALYSIS**

- **ENGINEERING & SALES CONSULTANCY**

- **TENDER PREPARATION**

For further information please contact:

Bernhard F. Wernberger

Stau 144 "Wasserturm"

D-26122 Oldenburg

Tel: +49-441-8000 675

Fax: +49-441-8000 674

Mobile: +49-160-907 13 587

e-Mail: wernberger@are-con.com

QUESTIONS ?