



DOMICRO BV



DOMICRO

AUTOMATED
MICROSYSTEM
TECHNOLOGIES

FLEXIBLE HYBRID ELECTRONICS

- 1 Reducing Time to Market
- 2 Lower total costs
- 3 Enabling Ramp Up to Volume Manufacturing
- 4 Protected IP

DOMICRO COMPANY PROFILE

DoMicro BV is a high tech company creating value by additive technologies in electronic manufacturing. As a startup DoMicro is focusing on flexible hybrid electronics market providing innovative and new technology, solutions and applications. Circuitry, transparent conductive films, OPV electrodes, transistors on flexible substrates, OLED, Lab-on-chip, wearables, IC and MEMS integrations. New products find their application into this rapid emerging industries.

More information: www.domicro.nl



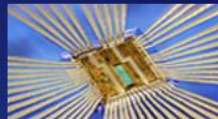
MEMS
Sensors



MedTech
Microfluidics



Wearables



Semicon
Micro Assembly



OLED
Printing



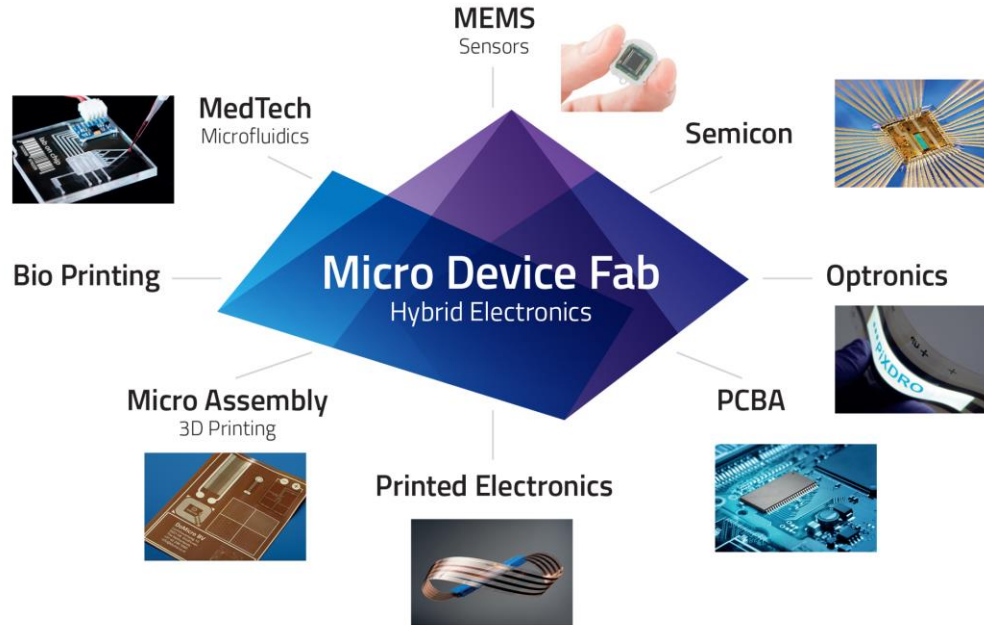
PCBA
Printing



Flexible Electronics
Printing



TRENDS IN ELECTRONICS



Integration in different field of application

Low volume, High mix

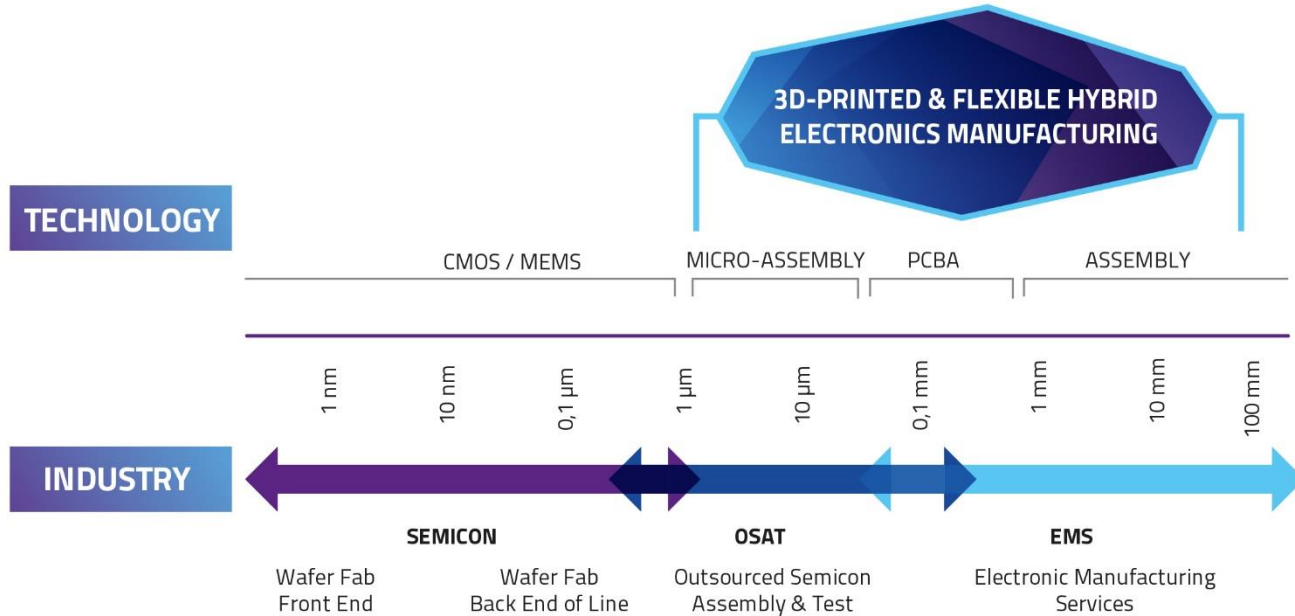
Local versus Global supply

Wireless IoT

Wearables

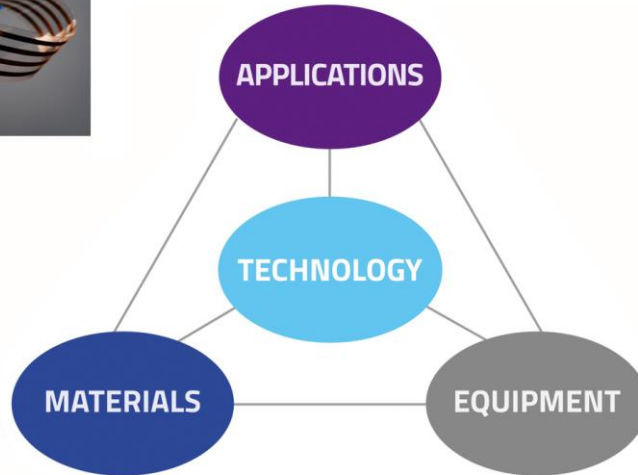
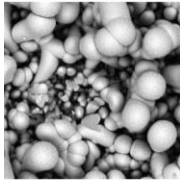
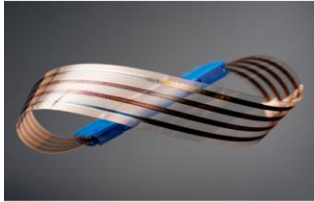


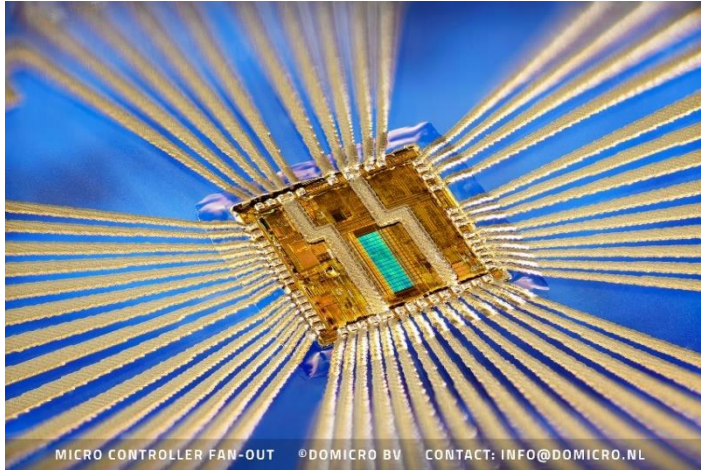
ELECTRONICS INDUSTRY





TECHNOLOGY INTEGRATION





Integration of electronics in products for IoT Internet of Things:

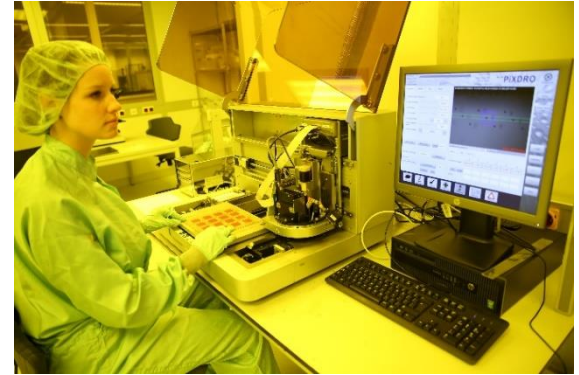
- make things smart
- make things connected

Development of base technology:

- Interconnect bare dies in foils by inkjet printing

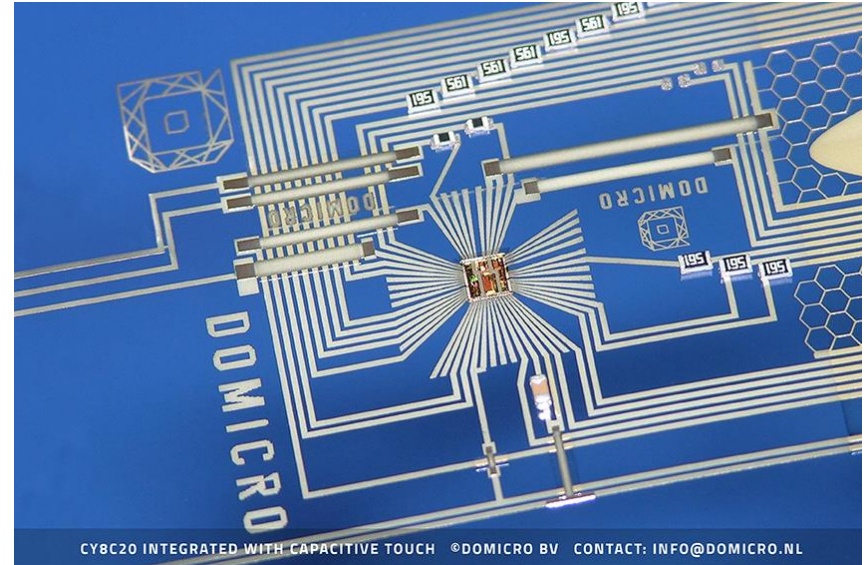
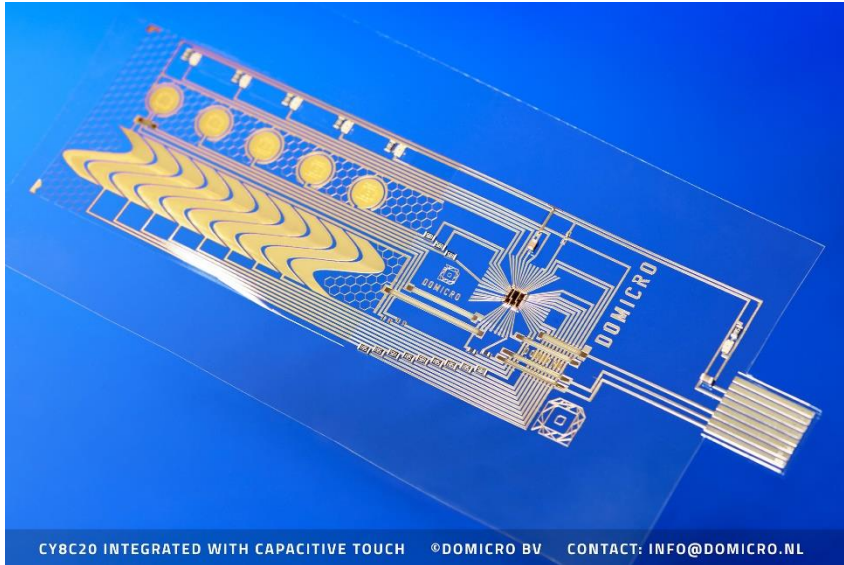


PRINT LAB ISO7 CLEAN ROOM



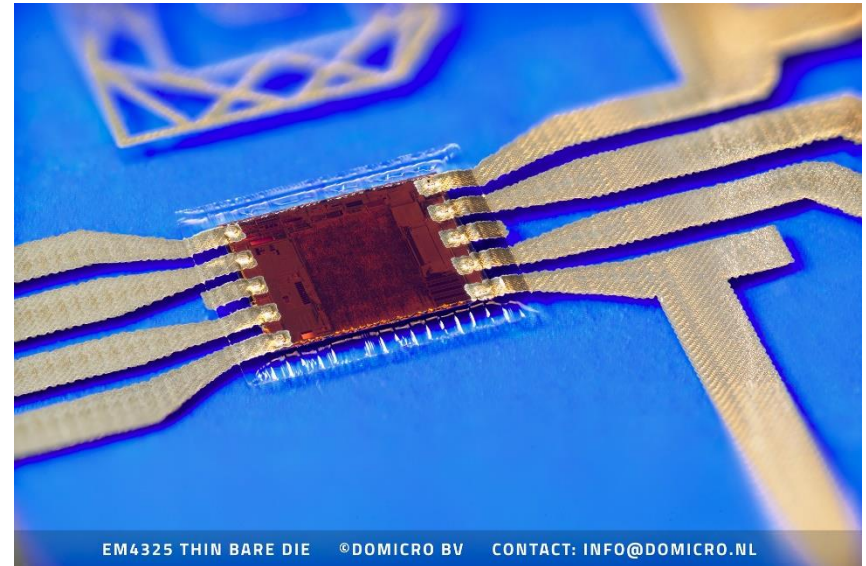
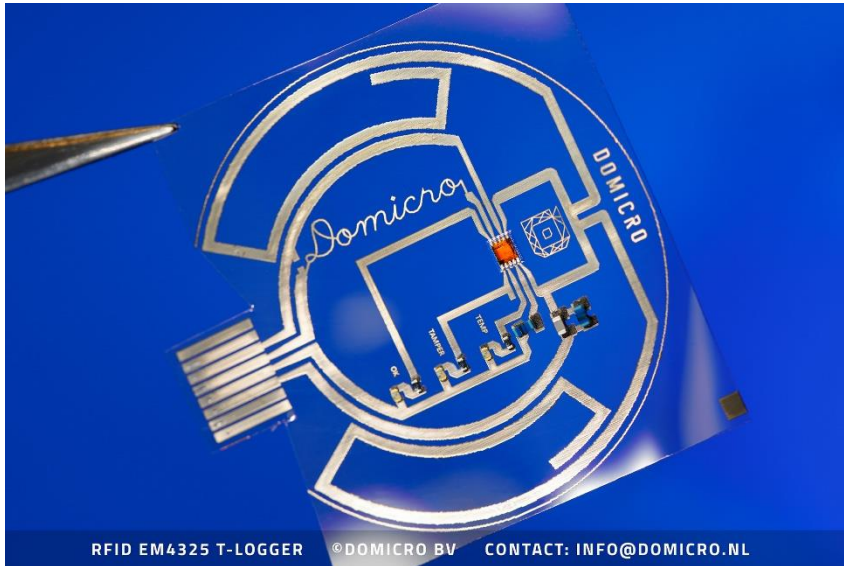


MCU INTEGRATION



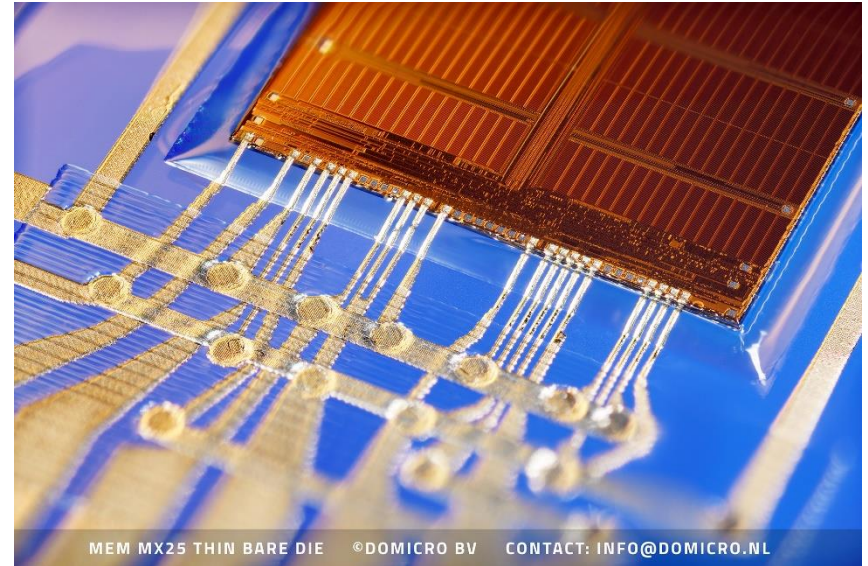
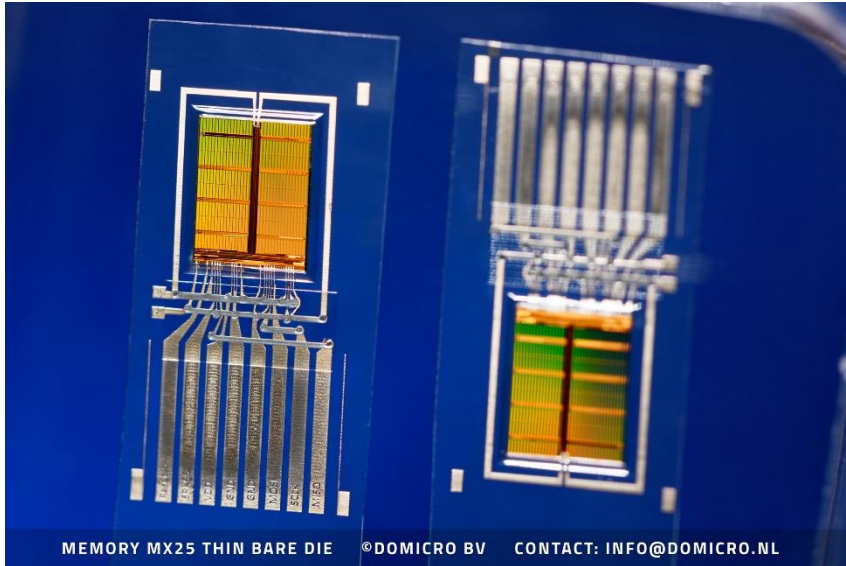


RF INTEGRATION



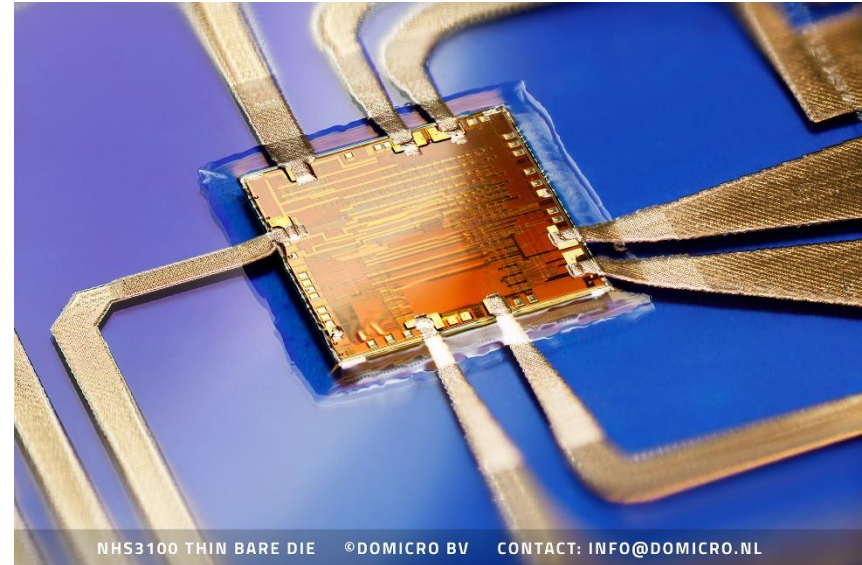
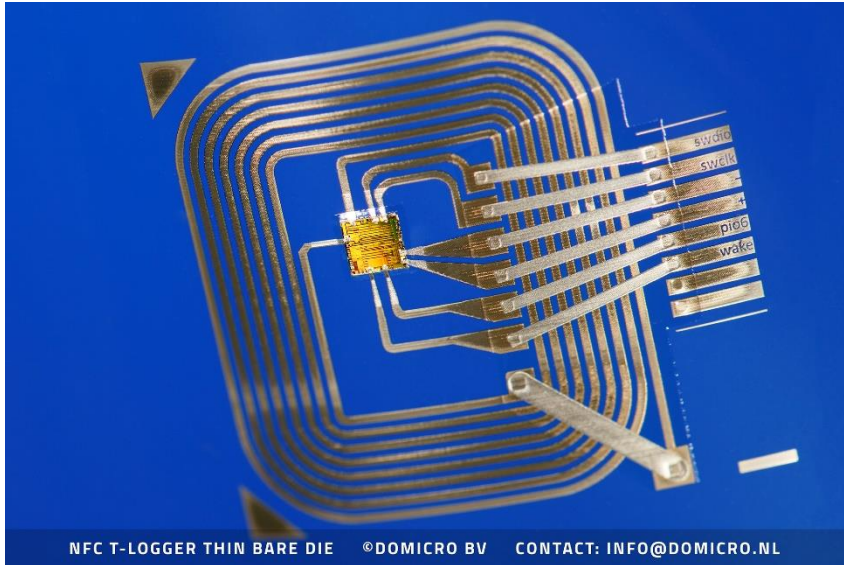


MEMORY INTEGRATION





NFC INTEGRATION



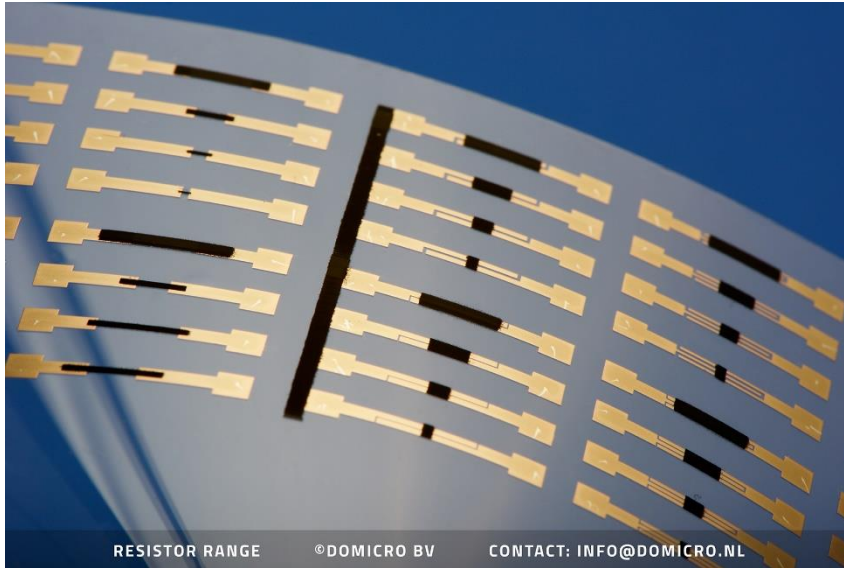


FAN IN FAN OUT





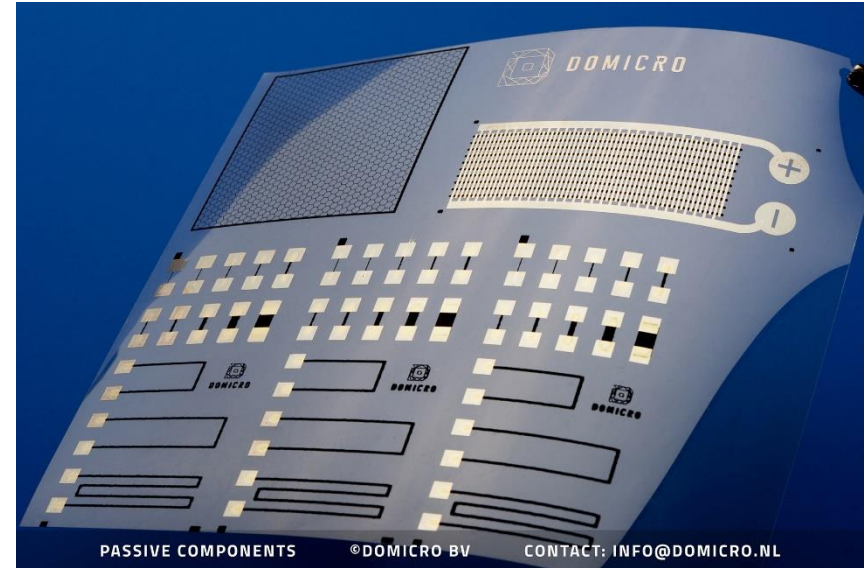
INKJET PRINTED PASSIVES



RESISTOR RANGE

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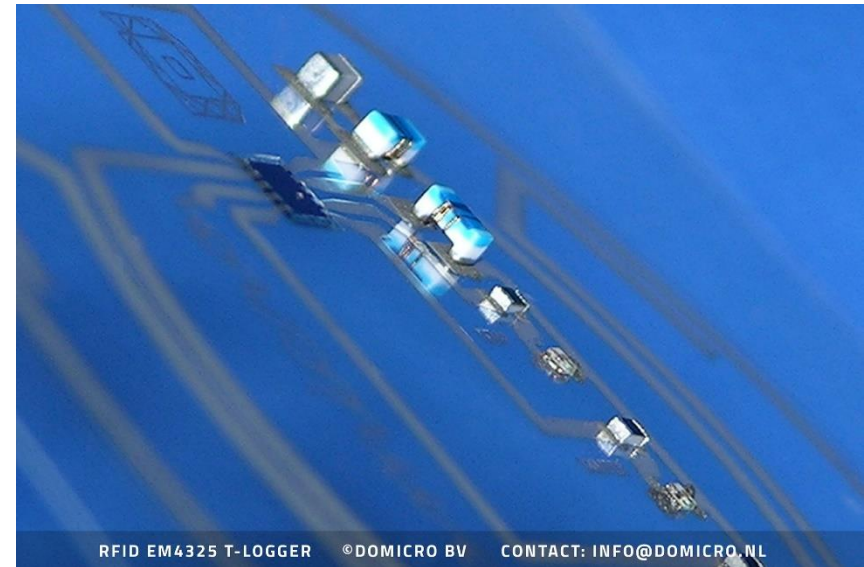
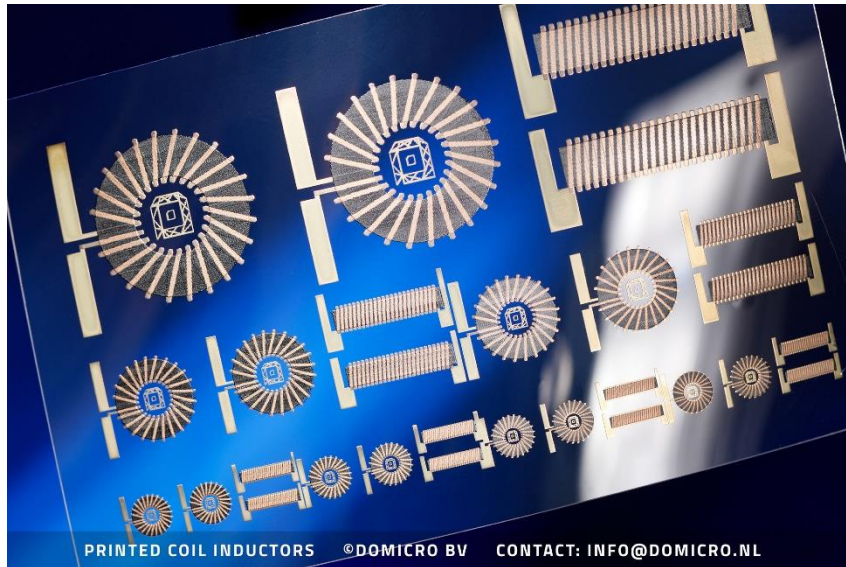
PASSIVE COMPONENTS

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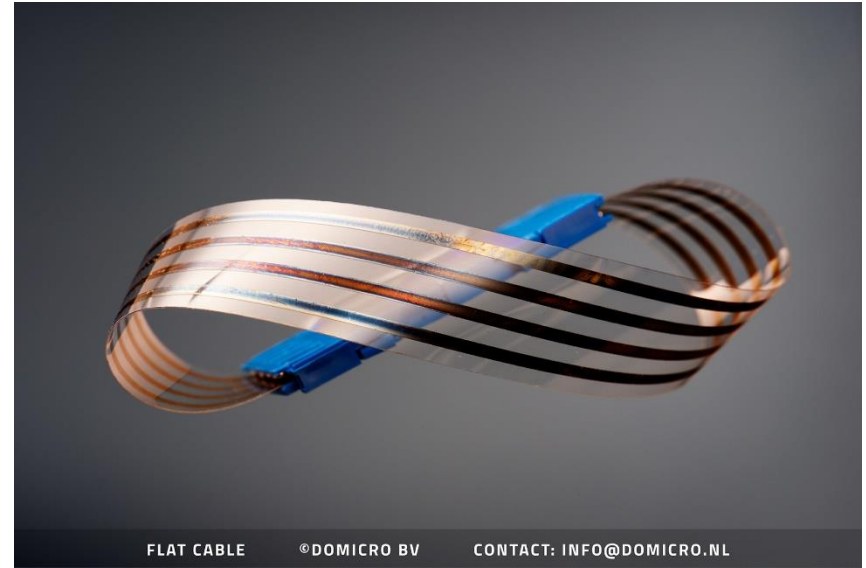
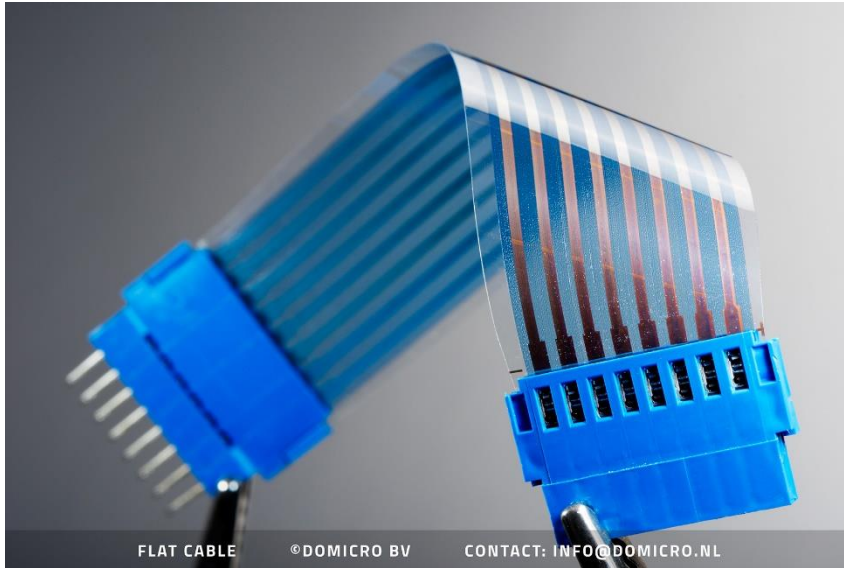


INKJET PRINTED PASSIVES



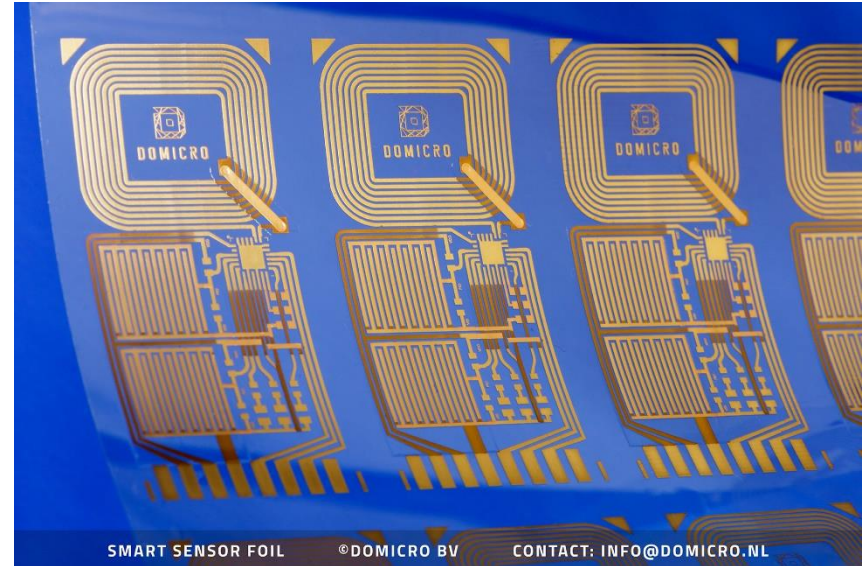
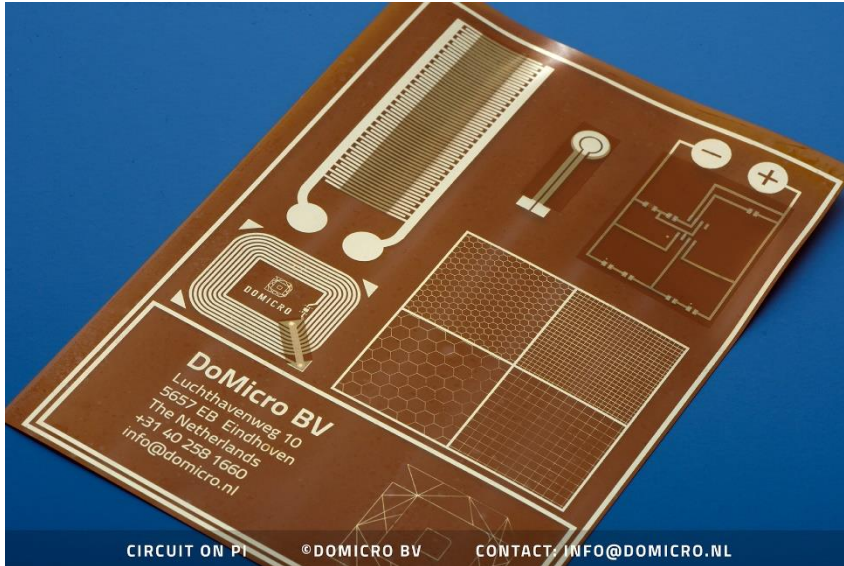


INKJET ON PEN



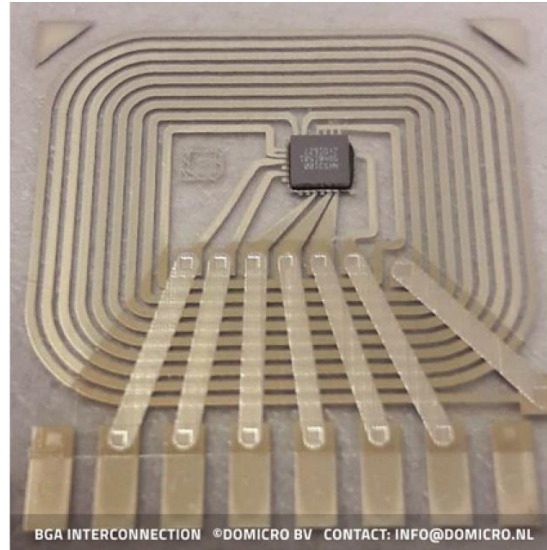
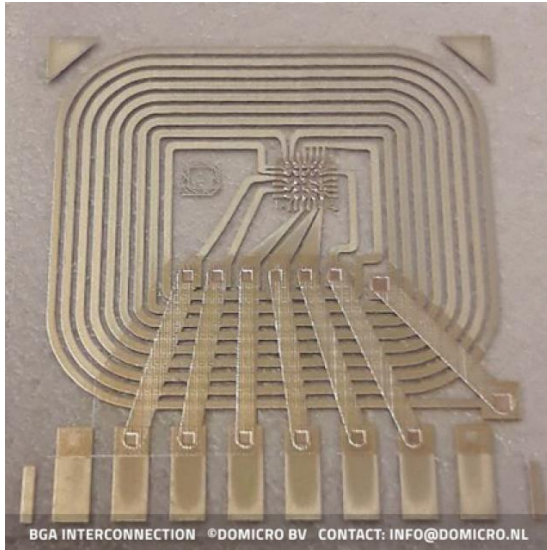


MULTILAYER CIRCUITS



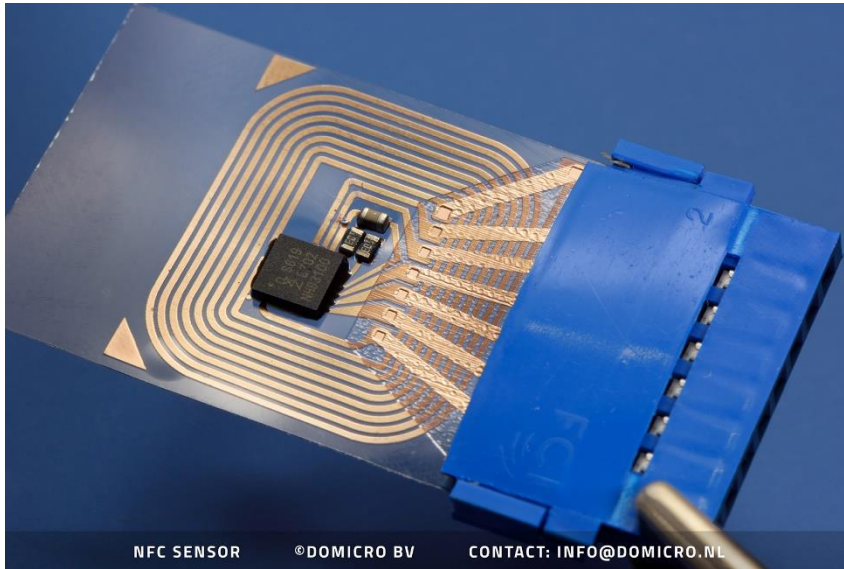


BGA INTERCONNECTION





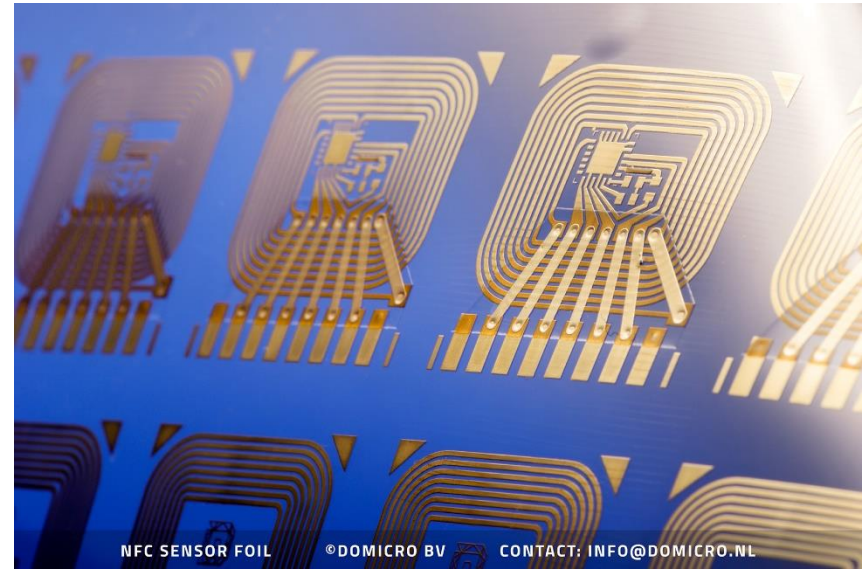
HYBRIDS FOR WIRELESS APPLICATIONS



NFC SENSOR

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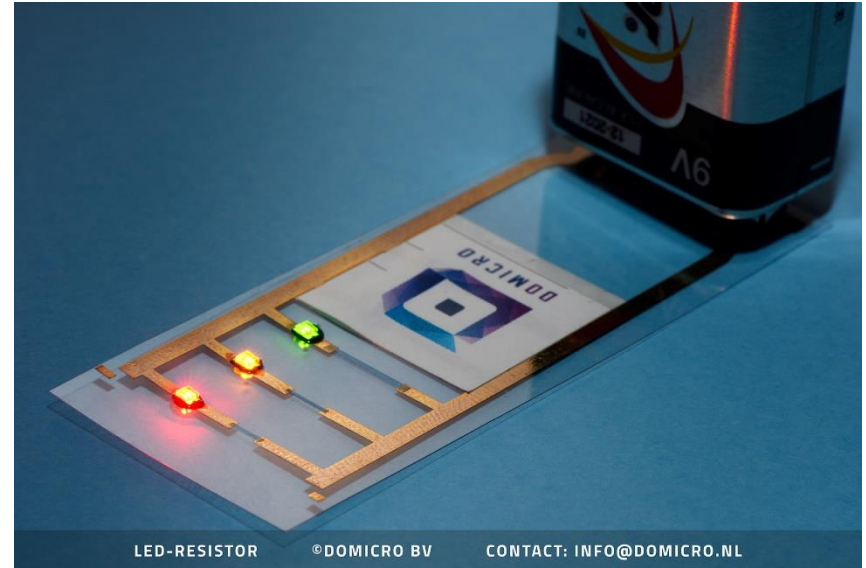
NFC SENSOR FOIL

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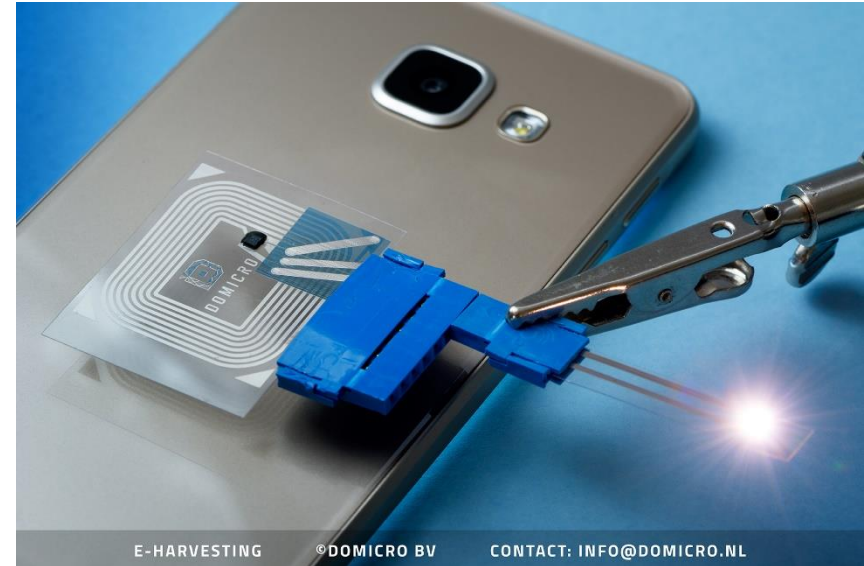


RFID & LED APPLICATIONS





FLEX BATTERY & ENERGY HARVESTING





TECHNOLOGY READINESS



TECHNOLOGY READINESS LEVEL (TRL)

- TRL 1** Basic research
- TRL 2** Applied research
- TRL 3** Critical function or proof of concept established
- TRL 4 Laboratory** Testing / validation of Alpha prototype component / process
- TRL 5 Laboratory** Testing of integrated / semi-integrated system
- TRL 6** Prototype system verified
- TRL 7** Integrated pilot system demonstrated
- TRL 8** System incorporated in commercial design
- TRL 9** System proven and ready for full commercial deployment



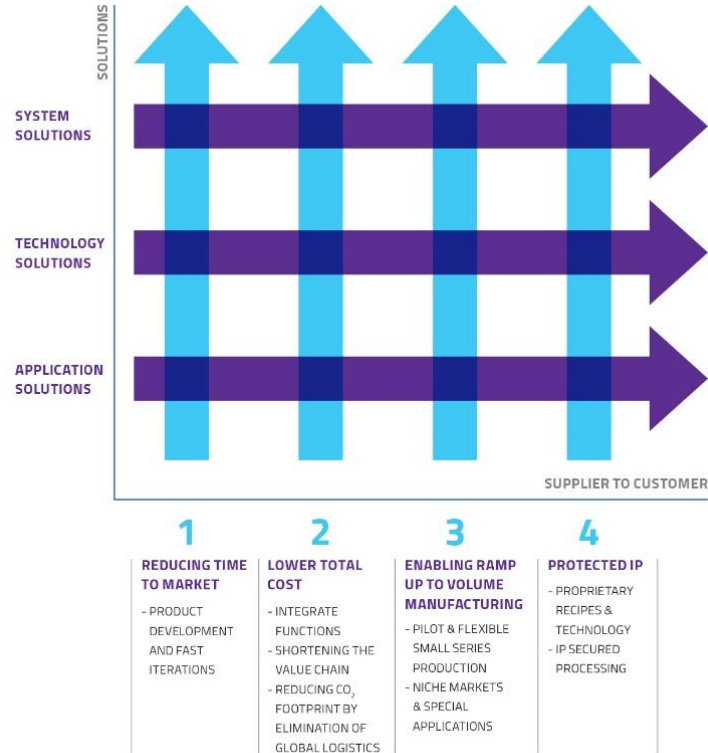
- Integrated and automated process flow & handling
- Multi functional and versatile toolset
- Stand alone availability of tools
- Local clean room
- Shop floor control
- Process tuning



- Multi material substrates Si, Glass, Ceramics, Flexibles
- Fast NPI and ramp up from 10 → 10.000 pieces



VALUE PROPOSITION





MICRO DEVICE FAB



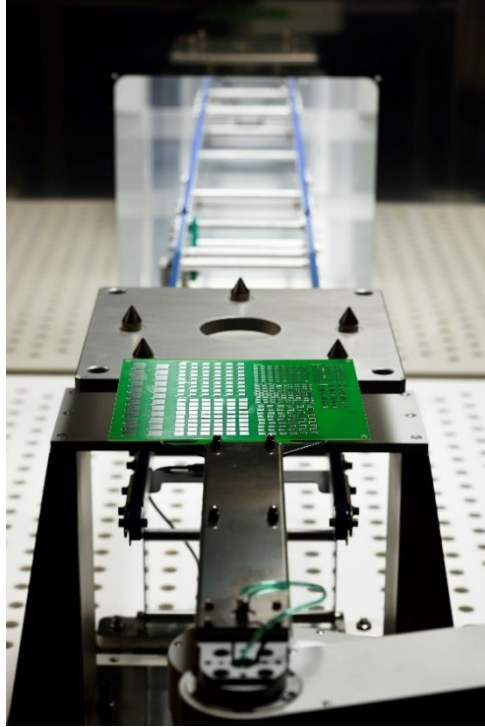


AUTOMATED PROCESS SEQUENCE





AUTOMATED TRANSPORT & PROCESSING





BUSINESS RELATIONS

Brainport Eindhoven

St Petersburg Elektrotechnical University



MEYER BURGER



**METROPOOL
REGIO
EINDHOVEN**

Production Technology for Flexible Hybrid Electronics

Marinus van Meelweg 2
5657 EN Eindhoven
The Netherlands

STS

www.domicro.nl

info@domicro.nl

+31 40 258 1660