

The background of the entire image is a dark blue, almost black, surface with a complex, glowing circuit board pattern. The lines of the circuit are light blue and form a dense, interconnected web across the entire frame.

scio

TECHNOLOGIES

TURNING YOUR PRODUCTS INTELLIGENT

SCIO Facts

Founded 2014

Team, Equipment & IP is together for 14+ years in 3 companies of the founder Franz Padinger

Participation in several subsidized EU or FFG projects (**EUR 1,2 Mio**), as well as development service providers for printed electronics

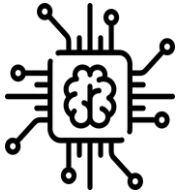
Transfer from development service provider to industrial manufacturer of printed electronics

System certified according to DIN EN ISO 9001:2015

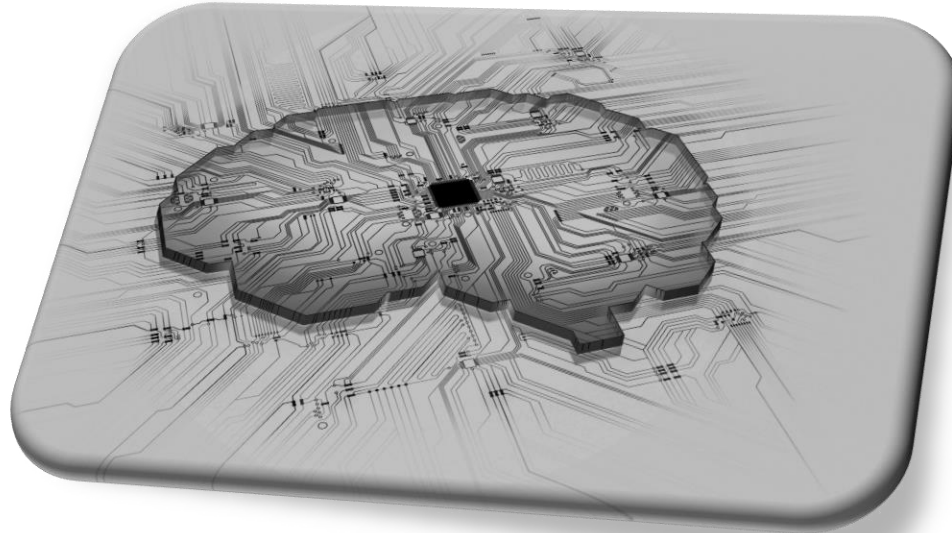
Products qualified for automotive and aerospace solutions



SCIO Philosophy



Intelligence
of
Electronics



Productivity
of
Print

PRINTED INTELLIGENCE

SCIO Vision

Innovation leader for the integration of electronics in customer-specific products

Global Player as a producer of printed electronics in an emerging billion-dollar market segment

Enabler of Printed Intelligence in everyday applications



SCIO Background

SCIOs unique constellation

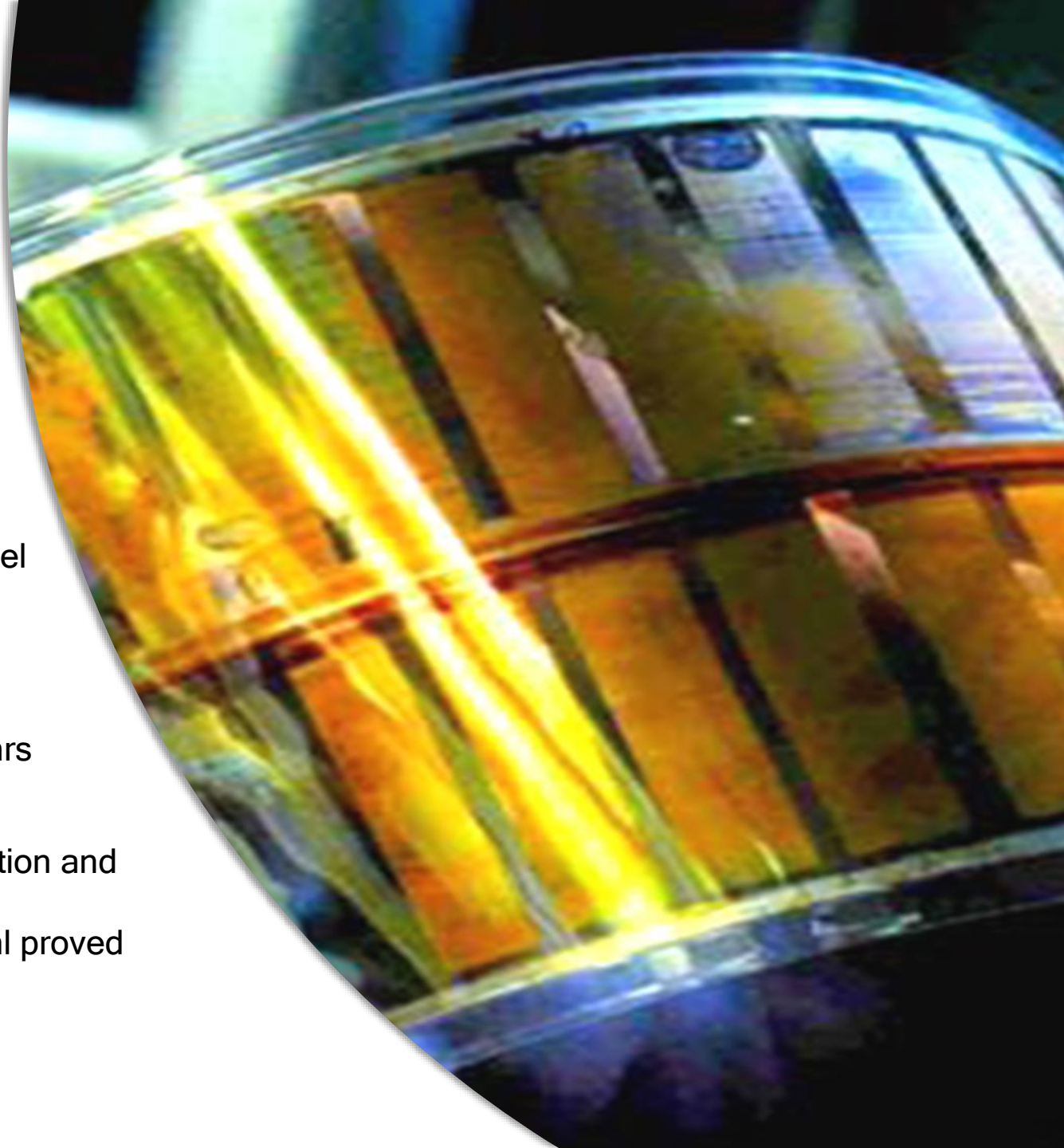
The founder, Franz Padinger, is a pioneer and global expert in printed electronics

- 20+ years of experience
- many years of cooperation with Alan Heeger - Nobel Prize winner 2000
- Inventor/Co-Inventor of 15+ patent families

SCIO's core team is working together for more than 14 years

20+ years of experience and expertise in material combination and interaction

- Technologies and processes finished and industrial proved
- Materials are researched & available



SCIOs Unique Blend in any Industry

From your
idea to



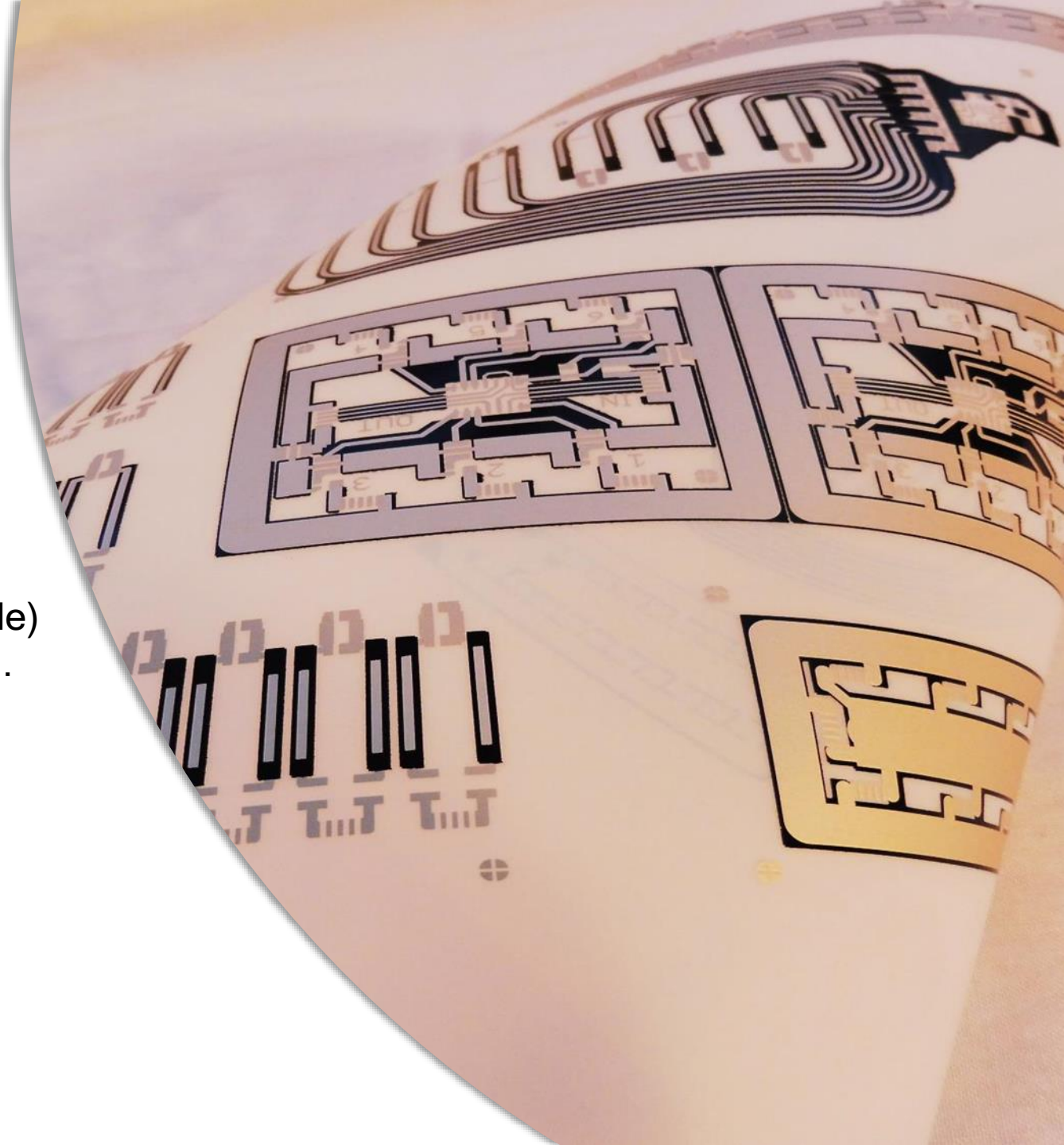
an
industrial manu
factu
red
product

SCIO USP_s

ADDING INTELLIGENCE:

Extension of the classic board technology to (flexible) materials such as foils, paper, wood, glass, metal ...

Integration of intelligence in so far only functional products



SCIO Potential

SHAPING INTELLIGENCE:

- 3D forming of electronics (injection molding)

→ **HUNDREDS OF NEW
APPLICATIONS WILL BE
CREATED WORLDWIDE**

Innovative products:

- immense weight & space saving
- new kind of electronics
- integration of
 - light
 - sensors
 - heating
 - HMI



SCIO Market Potential

high potential for savings according to low

- CAPEX-,
- material- and
- Production costs (Reel2Reel)

innovative products - no competitive market

multiuse technology platform for several markets

- automotive
- aerospace
- health
- industry
- sports /lifestyle

→ **WE WILL CREATE NEW
DISRUPTIVE MARKETS
WORLDWIDE**



SCIO Market Potential

SCIOs Market Focus

* Market sizing

IDTechEx Research finds that the total market for printed, flexible and organic electronics will grow from:

2020	2030
\$ 41,2 billion	\$ 74 billion



SCIO Equipment

Electronic & design

- CAD & simulation software

Industrial Manufacturing

- 250 m² incl. Technical center and cleanroom
- several printing-, dispensing- and assembling technologies (SMT)
- Rotary transfer machine (Maybach - Emblem)

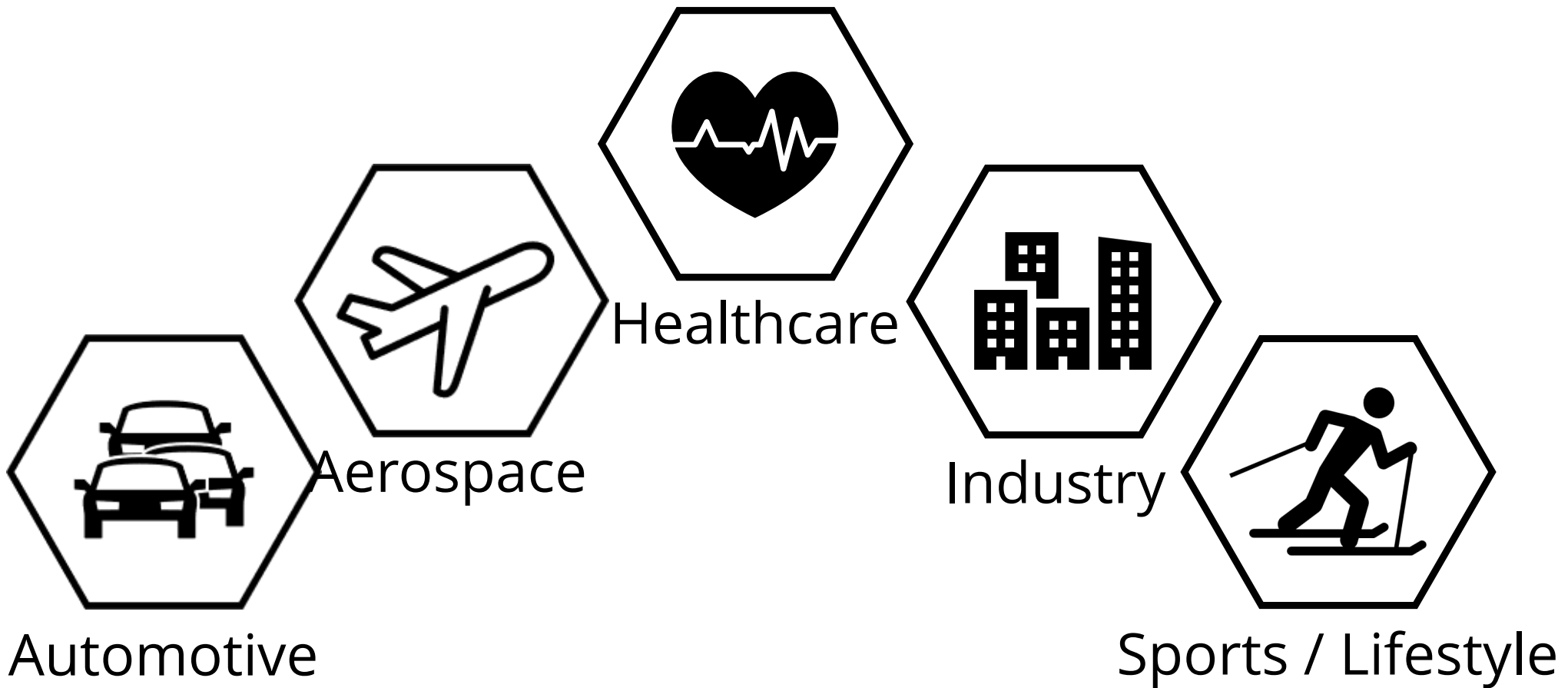
Quality Control

- end-of-line proof equipment (test of light pattern)
- Electrical product testing (LV124)
- Climate-chamber for TWT tests
- various microscopes for digital and analog inspections

Product traceability database



SCIO Projects/Markets



SCIO Automotive

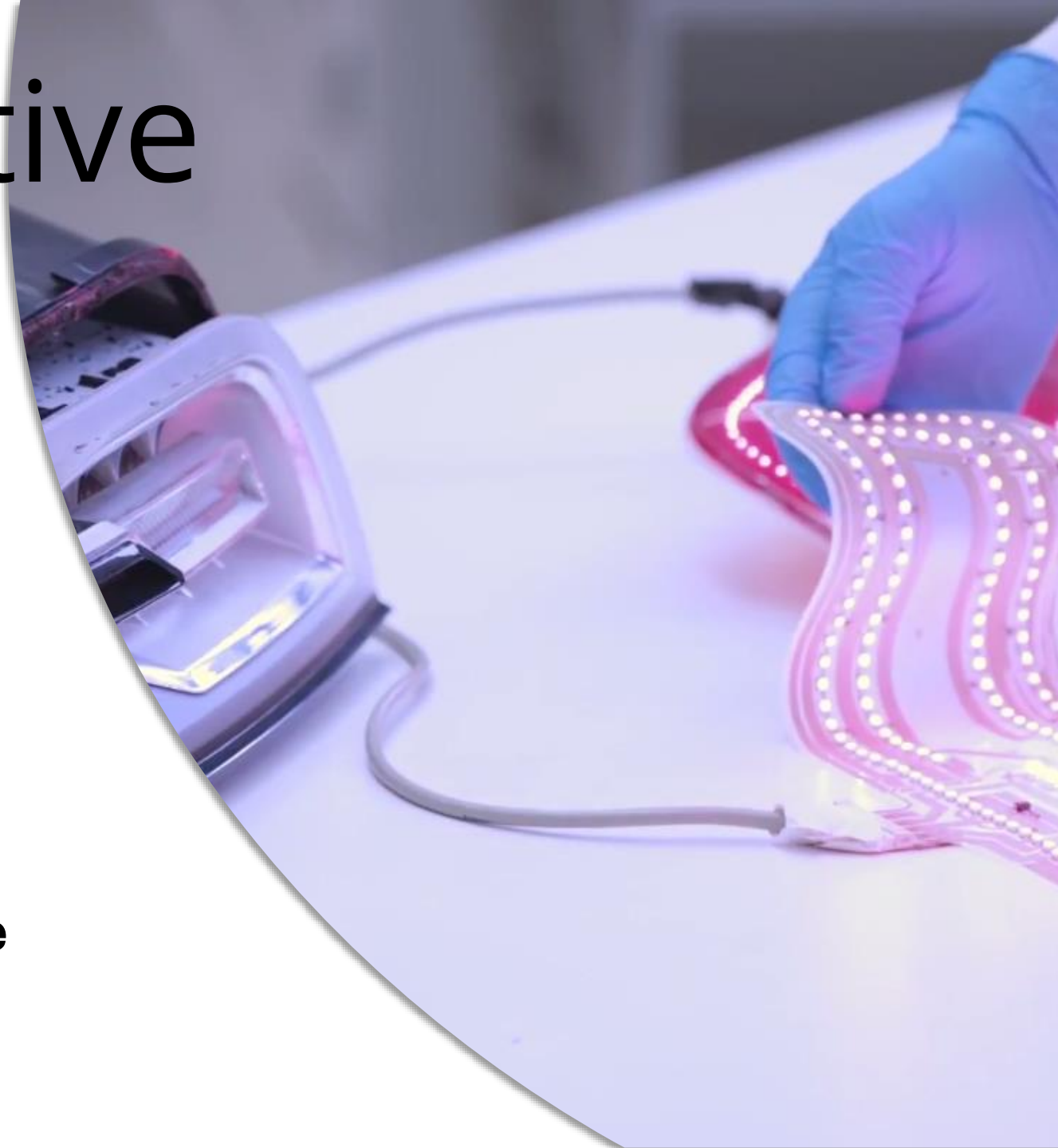


Feasibility Study Backlight Audi R8 (IP-protected)

- Very flexible
- Fully printed
- 80% less weight
- 90% less space
- Cost-effective

→E-MOBILITY

→SIGNIFICANT SAVINGS in the future
manufacturing processes of all
automotive OEMs



SCIO Automotive



Daimler AG

- Development completed
- First global certified product with printed electronics in Automotive Exterior
- start of serial production Q2/2020



SCIO Aerospace



Printed Floor Heating*

(0.2mm thin)

Backlighted Washbasins*

SCIO is the 1st company worldwide
having “2 products in the air” with
printed electronics (Bombardier)

* via F/List



SCIO Healthcare



Preventive- & PoC diagnostics

- Single-use of test patterns
- Preventive screening
- Home Diagnostics
- Relief of ambulances

F&E Projects → **We will decrease the cost of global health care for billions of \$**

- NaCoS
- Pionier
- SWIPS
- PathoPoC
- FlexiSense

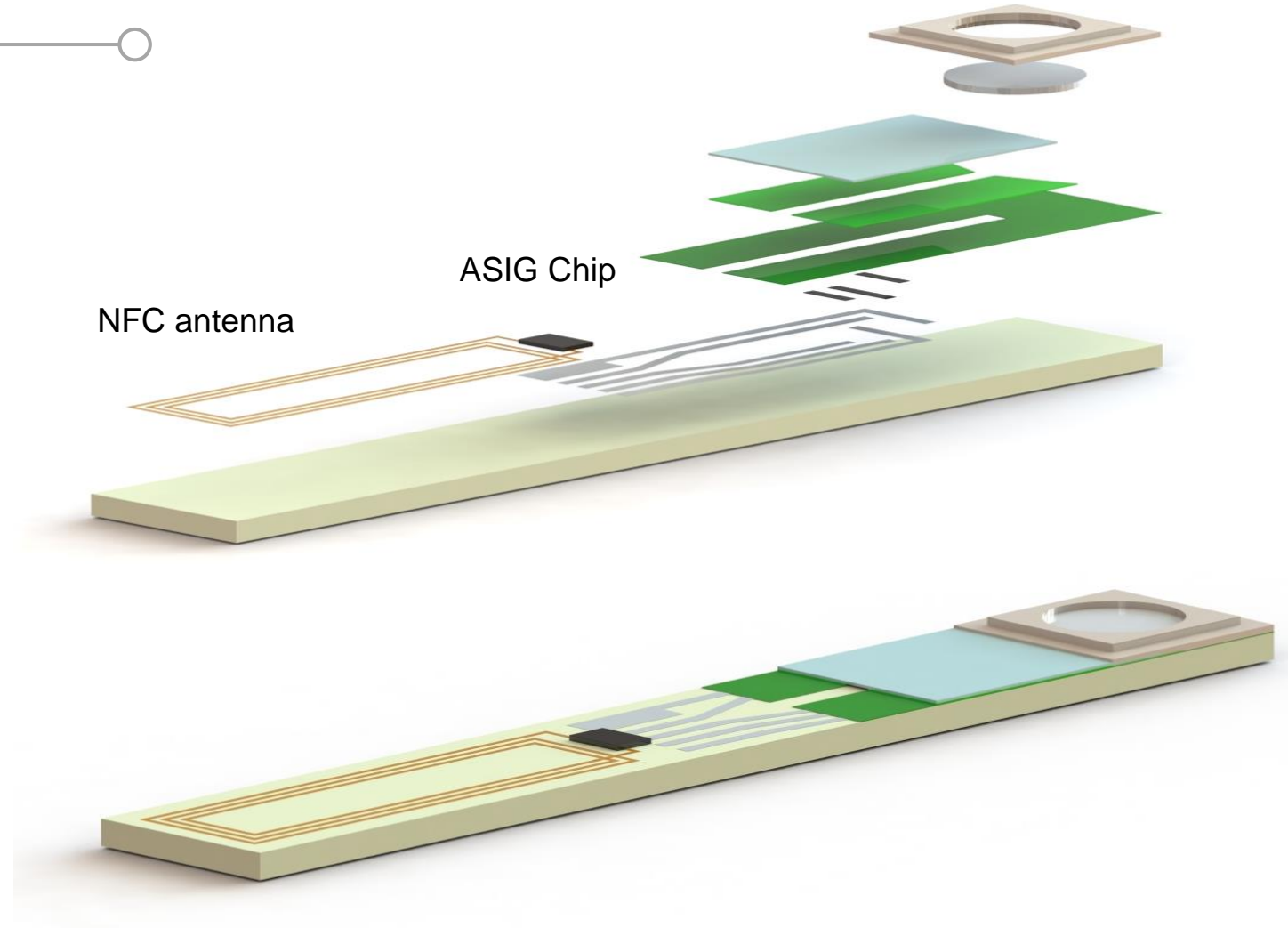


SCIO Healthcare

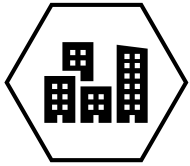


K-Sensor Test Strip

- Market potential: 700 mio test stripes/year just in US an EU
- Printed antennas, conductive lines, insulation layers and membrane
- ASIG (Chip) Integration via innovative bonding
- Reel2Reel produce able
- Concept for worldwide production worked out



SCIO Industry



Integration of light, sensors, controls or heating in

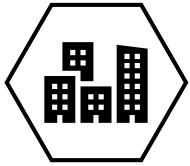
- skirtings
- floors
- Shower panels

Application areas

- Smart Home systems
- Surveillance systems / alert systems
- hygienic areas



SCIO Industry



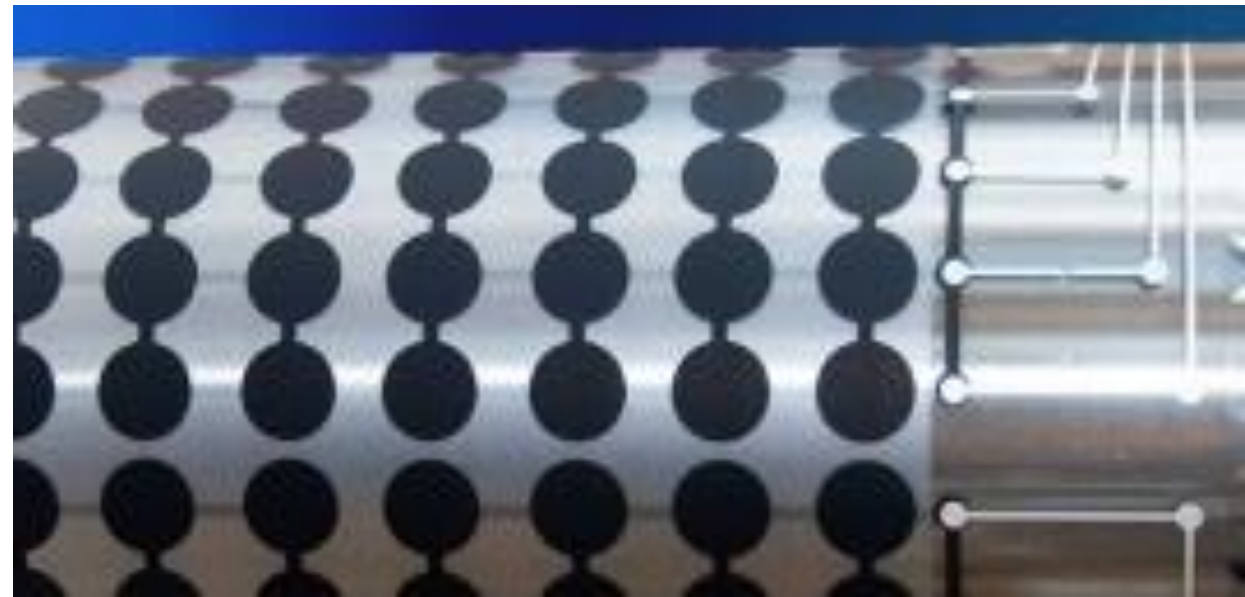
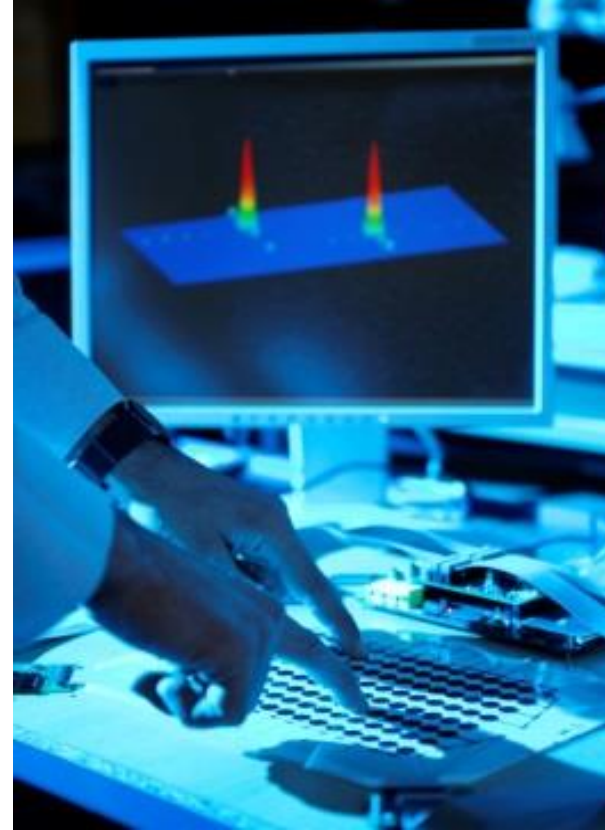
PyzoFlex sensors

Fully printed sensors for realizing intelligent surfaces

[Link PyzoFlex \(Videos on the right side\)](#)

Application areas

- Smart-home-systems
- Surveillance systems / Alarmsystems
- Hygienic areas
- Automotive
- Aerospace



SCIO Sports & Lifestyle



Integration of sensors in

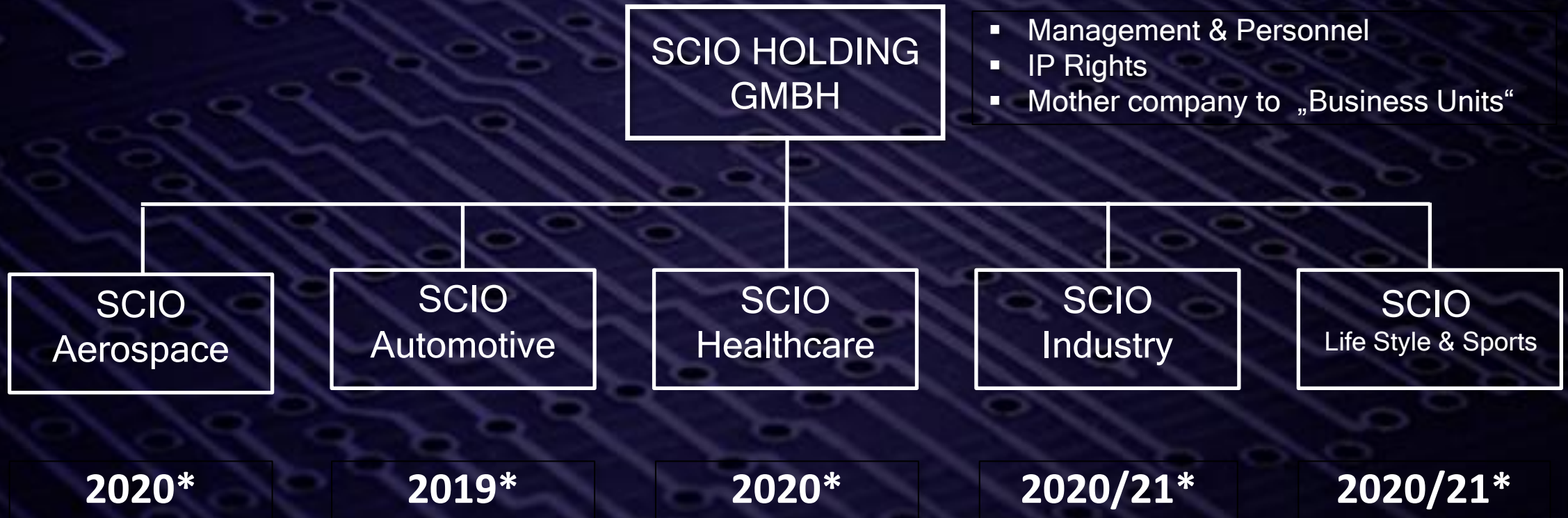
- Ski
- Running shoes

Projects

- DiMo
- Sportsense



SCIOs Structure



* planned

SCIO Strategy & Marketing

Positioning of SCIO as

- Leading expert in printed electronics
- Product development partner for customer-specific developments
- Producer of jointly developed printed electronics products



Sales & Distribution Strategy

Key Facts

GERHARDI

- Tier 1 automotive supplier
- 1,800 employees
- Revenues: EUR 220 million
- Key customers:



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TECHNOLOGIES

Set-up of Partner & Multiplier Network

- Research Labs
- Corporates
- Suppliers

JOANNEUM
RESEARCH

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY

Fraunhofer
IAP

Key Facts

altran

- Global leader in Engineering and R&D services
- Revenues: 2.9 billion ('18)
- Employees: 47,000
- In more than 30 countries
- Automotive: +100 clients
- Other clients include:

AIRBUS

* Global Solution Delivery Partner of SCIO-TEC

→ IMMEDIATE GLOBAL MARKET REACH

SCIO Awards

- National Price for Innovation 2016
- Houska Price 2017 for project SWIPS
- Upper Austrian State Price for Environment & Sustainability 2017 (SWIPS)
- WeAreDevelopers World Congress Pitch Award 2018
- Selected by Global Incubator Network to join the biggest Asian Startup Convention in Hongkong 2018
- Shanghai FTZ Overseas' Talents Innovation Conference
 - Among 30 selected companies out of 700 (!), from 115 countries
- No. 1 ranked at DeepTech4Good Conference out of 73 from EU
- EPIC Pitch Award in Hongkong, Nov. 2019
 - Among 100 selected companies out of 638 worldwide
- Selected by Global Incubator Network to join the Japan business journey, Dec. 2019
- Selection as Hello Tomorrow's Deep Tech Pioneers in Paris, Mar. 2020



SCIO Roadmap

2019

- Successful transition from R&D company to industrialisation
- 1st industrial production for top tier automotive supplier
- ISO 9001 certification
- ERP implementation
- Increase of marketing and sales activities
- Global Solution Delivery Partner Agreement Altran

Transition from R&D
to Serial Production

2020

- Closing of 7-digit Financing Round (Q1/Q2)
- ISO 16949 certification (automotive)
- First serial production agreements also in healthcare and industrial sectors
- Installation of R2R production
- Fill up of manufacturing capacities with additional orders from different sectors

Extension of
Product Portfolio

2021

- Start of R2R production
- Surge of production capacities by a factor of 20-30x
- Revenue generation capacities of € 60 M

Scale-up of Production
→ Mass Production

SCIO Core Team



Key Financials

'000 EUR	17/18	18/19e	19/20	20/21*	21/22*	2022*
Revenues	263	1.309	3.107	16.464	31.446	58.537
P/L	-218	-426	381	6.025	18.103	32.127
Headcount	6	6	18	42	68	98

* based on an investment of at least 500K in 2019, and further investment in 2020

So far, EUR 2.48M (728K) have been invested by the Founder, Business Angels, a Partner and federal tech promotion agencies FFG (aws Double Equity)

Accelerated growth from 2020/21 is based on

- 1) +3 M investment (+2M equity, +1M double equity) for production capacities, personnel, sales & marketing; possibly leasing of machine equipment etc.
- 2) Partnership with Altran will expectedly gain momentum in 2020
- 3) Further partnerships with customers/corporates as multipliers

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TURING YOUR PRODUCTS INTELLIGENT

www.scio-tec.com