



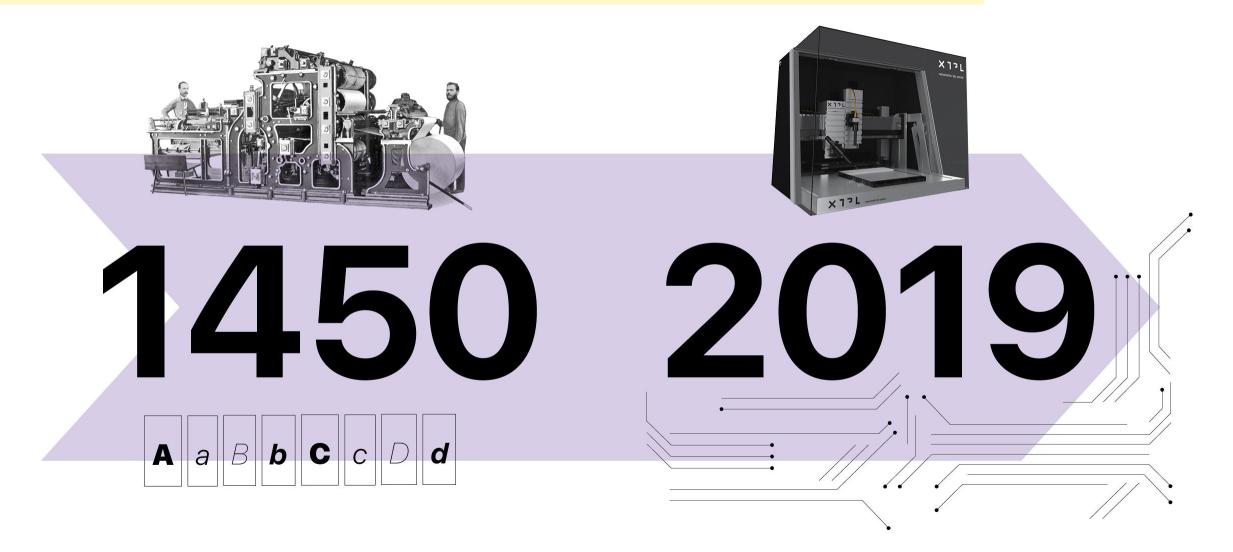
SHAPING GLOBAL NANOFUTURE



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REVOLUTION OF PRINT



MARKET SIZE & MEGATREND

XJJL

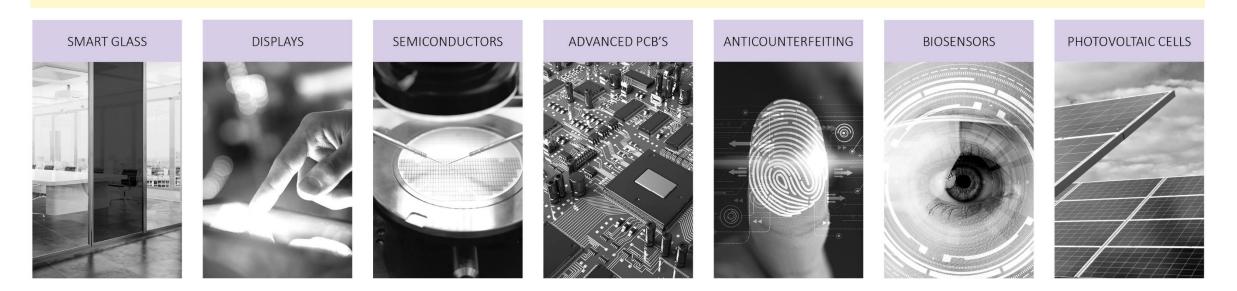
PRINTED ELECTRONICS

- Market value in 2017 approx. USD 9.3 billion
- Estimated market value in 2027 USD 73.4 billion
- CAGR 2017-2027 10%

STRONG MEGATREND IN ELECTRONICS

Production of high-tech devices with cost effective and scalable methods.

XTPL has the technology to enable that advance.



SOLUTION

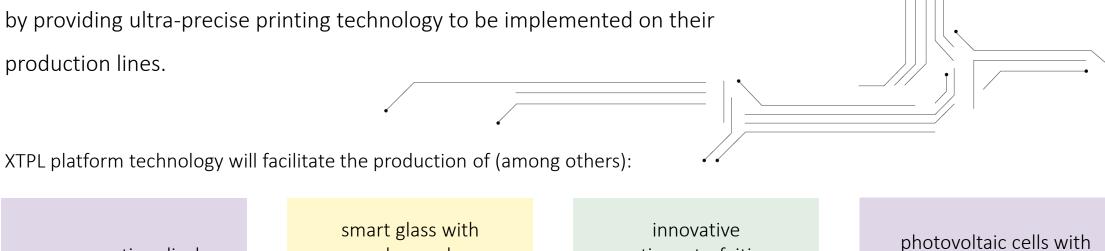
new generation displays

Base principal the same as Intel Inside – Unique technology empowering the global electronics manufacturers

advanced

functionalities

XTPL enables global manufacturers of new generation electronics



anticounterfeiting

solutions

increased efficiency

FIRST TARGET MARKETS WITH VAST POTENTIAL

XJJL





DISPLAYS

USPs:

- faster conversion of glass from light to dark and vice versa
- fast, simple & versatile method, lower production cost
- extremely high transparency

USPs:

- improvement of production yield in the advanced manufacturing lines
- ultraprecise additive technology saving costs, material & time
- ideal for ever increasing display resolution technologies

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FIRST TARGET MARKETS WITH VAST POTENTIAL

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Application: smart glass

Go to market strategy:

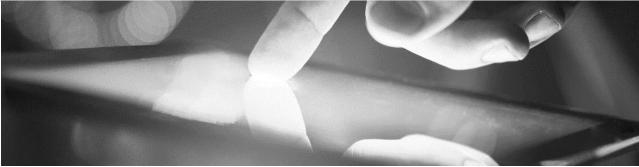
Market readiness: advanced PoC Market partner: yes (US)

- partnering with the sector leader (joint technological development)
- final stage industrial implementation

Defined competition: direct printed metal mesh transparent conductive film

- DNP
- Goss International
- Gunze
- Komori

DISPLAYS



Application: open defects repair (ODR)

Go to market strategy:

Market readiness: all industrial requirements met Market partner: yes (Southeast Asia)

- integration with partner's devices
- final stage industrial implementation

Defined competition:

- Orbotech (KLA-Tencor)
- V Technology
- Micronics Japan Co. Ltd
- Charm Engineering

BREAKTHROUGH TECHNOLOGY

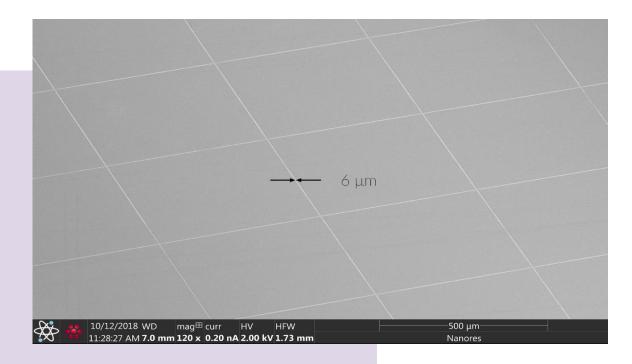
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The company aims to provide:

• Unique **printing heads** - designed & dedicated for specific application field



This comprehensive solution allows for obtaining ultra-thin structures for various applications



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UNPARALLELED PRECISION

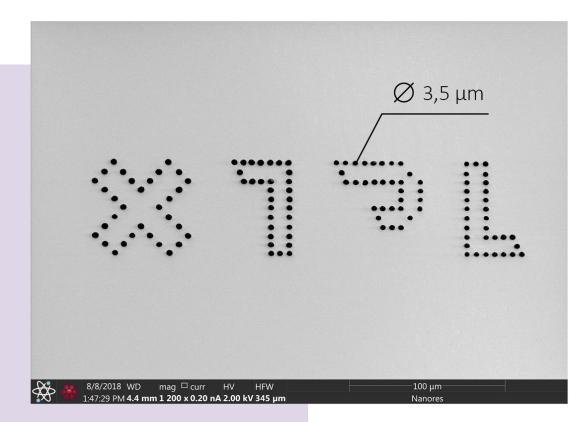
CURRENT STANDARD

Minimal structure size 20 μ m

The main competitive advantage of XTPL additive solution for ultraprecise deposition is unprecedented precision that cannot be replicated by any other printing method in the world.

XTPL METHOD

Minimal current structure size $1 \, \mu m$



For example microdots currently obtained on the market usually have about 50 μ m, the minimum is 20 μ m – while XTPL currently achieves dots with diameter of 1 μ m, and plans to go even below this limit.

Ø 50 μm

20 µm

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SELECTED FINANCIAL DATA

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STRUCTURE OF BALANCE SHEET

Current assets

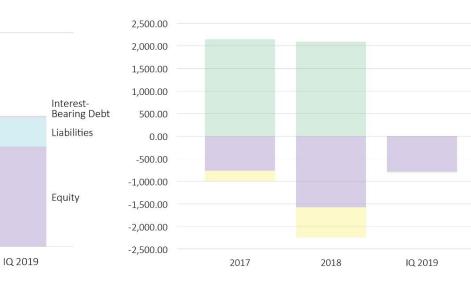
Tangible fixed assets

2018

Intangible

assets

IQ 2019



NET REVENUE FROM SALES





CASH FLOW

* all data in kEUR

2018

2,500.00

2,000.00

1,500.00

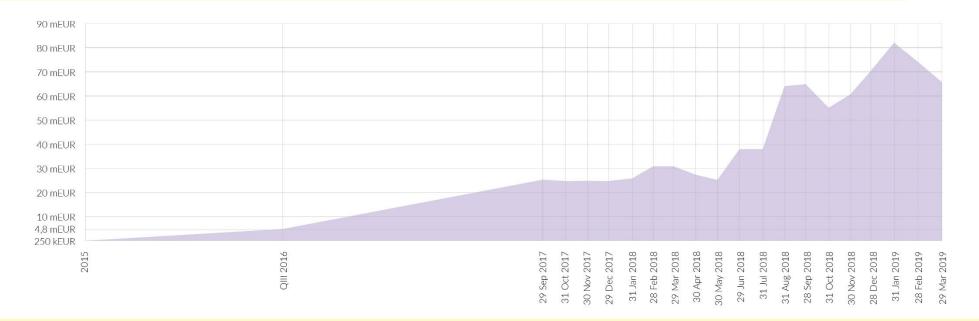
1,000.00

500.00

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CAPITALIZATION & DEVELOPMENT

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	2013				2010		2017				L L J J L L				
	XTPL established as a limited liability company	QIII only silver nanoparticles	QIV technology confirmed in laboratory conditions, lines width 400 nm	Q IV seed financing EUR 100 000 acquired	application	placement EUR 650 000	Ql breaking another technological barrier, lines width below 100 nm	QII winning Tech Development Manufacturing IDTechEX Show	gross reve Award on internation	offering of Series nue of EUR 2 500 nal investors: Aca erger Beteiligung) 000 – first tis Investment	Sep 14th New Co debut (parallel n of Warsaw Stock Exchange)	narket nar (qu	noparticles uantum dots +	QIV printing speed 0,2 mm/sec; new surfaces – silicon wafers
) -]]		QI advanced			III IIII	QII+QIII two	QIII new	QIII new	QIII private	QIV live	QIV finalizing	2019	Q1	20 February	
	security printing sector & for quantum dots	PoC for open defect repair & semiconductors sector	Rozłucki, co-founder & former president of Warsaw Stock Exchange, appointed as Chairman of the Supervisory Board	20 mm/sec te I- a	promising echnology among -Zone participants It Display Week in .os Angeles		I+QIII smart glass and advanced vith optical ; &	nanoparticles – gold, carbon-based and copper	placements for two Germen investment funds: 1 million Euro for Acatis Investment & 1,05 million Euro for Heidelberger	demo of the solution for open defects repair	l faze of advanced PoC for the smart glass sector	further patent applications	establishing subsidiary XTPL Inc. in Silicon Valley USA	on the main market of tel	
xtp	ol.com					as first membe	ers		Betailungsholding AG						

SELECTED AWARDS

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TECHNICAL DEVELOPMENT MANUFACTURING AWARD

XTPL won the Technical Development Manufacturing Award – one of the most important printed electronics industry award received during the top international trade fairs of printed electronics in Berlin.

I-ZONE HONORARY AWARD AT DISPLAY WEEK

XTPL with an award for one of the most promising technologies among the participants of the I-Zone (Innovation Zone) organized as a part of the Display Week, the most important conference for the display sector in the world.

ADVANCED MANUFACTURING AWARD AT SHENZHEN INNOVATION & ENTREPRENEURSHIP COMPETITION

XTPL on the podium of China Innovation & Entrepreneurship competition which attracted numerous high-quality projects and companies from around the world to enter & develop within Chinese hi-tech industry.

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SHAREHOLDING STRUCTURE

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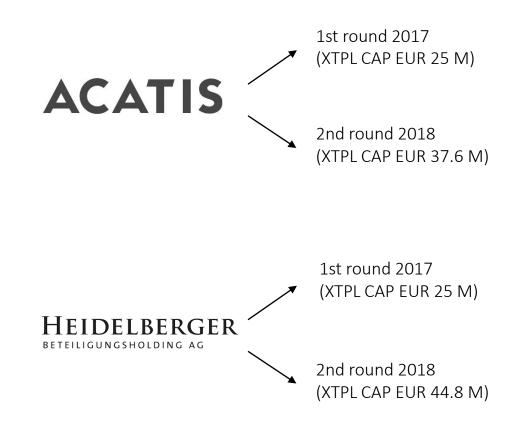
LP	SHAREHOLDER	NUMBER OF SHARES HELD	% SHARE
1.	Filip Granek	303,288	16.61
2.	Sebastian Młodziński	299,852	16.42
3.	Pankiewicz sp.k. (formerly Leonarto sp. z o.o.)*	229,015	12.54
4.	Heidelberger Beteiligungsholding AG	192,371	10.53
5.	TPL Sp. z o.o. **	182,622	10.00
6.	ACATIS Investment Kapitalverwaltungsgesellschaft mbH on behalf of ACATIS Datini Valueflex Fonds	127,000	6.95
7.	Stefan Twardak	103,081	5.64
8.	Leonarto Funds SCSp *	69,000	3.78
9.	Konrad Pankiewicz *	2,573	0.14
10.	Others	317,420	17.38
	TOTAL	1,826,222	100.00

Number of shares = Number of votes % of shares = % of votes

* Konrad Pankiewicz, Member of the Supervisory Board, is the general partner of Pankiewicz sp.k. and he controls Leonarto Funds SCSp (though Leonarto Management S.a r.l). Konrad Pankiewicz together with his subsidiaries own 300 588 shares of XTPL S.A. which equals 16.46% of the total number of votes in XTPL S.A.

** TPL Sp. z o.o. posess Series L shares, issued for employees shares option program. Shareholders of TPL Sp. z o.o. are: Filip Granek, Chairman of the Board of the Issuer (34% of shares), Sebastian Młodziński, Member of the Supervisory Board of the Issuer (33% of shares) and Adriana Pankiewicz who is Konrad Pankiewicz's wife (33 % of shares)

INTERNATIONAL INVESTORS FROM EARLY STAGE



- investment fund managed privately by Dr. Hendrik Leber
- EUR 5 billion worth of assets under management
- trend-setter, both in terms of quality and selective approach to investments
- 7.12% share in XTPL shareholding structure

- subsidiary of a well-known investment group Deutsche Balaton Group AG
- well-known for it's ability to find unique companies in early phase of their growth
- strong, rising tech companies in its portfolio e.g. Einhell Germany AG, Prodware Group (France) or GK Software AG
- 10.79% share in XTPL shareholding structure

MANAGEMENT

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FILIP GRANEK PRESIDENT OF THE MANAGEMENT BOARD CEO

Inventor of XTPL's technology & founder of the company, one of the world's leading specialists in nanomaterials.



MACIEJ ADAMCZYK MEMBER OF THE MANAGEMENT BOARD COO

Manager with over 16 years of experience in finances, mergers & acquisitions, and the capital market.



WIESŁAW ROZŁUCKI CHAIRMAN OF THE SUPERVISORY BOARD

Co-founder & former president of the Warsaw Stock Exchange.

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US BOARD OF DIRECTORS

HAROLD HUGHES

- developing high-tech projects in Silicon Valley for the past 40 years
- for many years involved at the board level in Intel and Intel Capital
- former CEO of Rambus (semiconductors, USD 4.5 billion CAP at NASDAQ)
- participates in boards of companies such as: -Quantenna Communications (Wi-Fi chips, USD 0.6 billion CAP at NASDAQ) - View Inc. (smart glass sector, estimated valuation of USD 1.1 billion); advising also the company Kateeva

AMIR NAYYERHABIBI

- partner at Benhamou Global Ventures, a Silicon Valley VC fund
- WFJ referred to him as "serial entrepreneur"
- experience gained at Intel and Cisco
- co-founded and managed several companies that dynamically increased their value
- founded StratumOne and AuroraNetics, companies sold to Cisco for a total of over USD 0.5 billion

HIROSHI MENJO

- co-founder & managing partner at NSV Wolf Capital, a Silicon Valley strategic fund
- career with Konica, research at Massachusetts Institute of Technology and MIT Microelectronics Labs
- active in the the Boston Consulting Group in Tokyo
- experience gained in The McKenna Group, a premier high-tech business consulting company
- expert in implementation of Japan entry strategies, and strategic alliances with Japanese companies





STRONG INTERDISCIPLINARY TEAM

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Currently over 40 people in Poland and United States

TECHNOLOGY

interdisciplinary, well-balanced team, with vast knowledge & experience in:

- chemistry
- physics
- electronics
- mechanics
- material science
- numerical simulations

10 PhDs in the team

BUSINESS

business leaders & highly skilled professionals who possess **knowhow & experience** in:

- product development
- marketing & communication
- implementing innovation
- finance
- B2B sales
- capital market

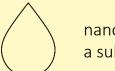
... with proven successes, acquired on international markets

BUSINESS MODEL

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printing heads are to be designed by XTPL, manufactured by external contractors and assembled finally by XTPL (direct sales)



nanoinks – basing on patented formulas - will be manufactured by a subcontractor (direct sales)

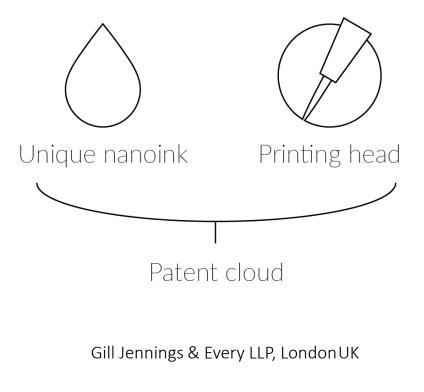
the option of **partial licensing** of the technology for specific applications

PROTECTED INTELLECTUAL PROPERTY

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XTPL offers complete solution for printing electrically conductive & nonconductive structures on the micron scale. This includes proprietary technology, innovative printing heads and dedicated nanoinks.

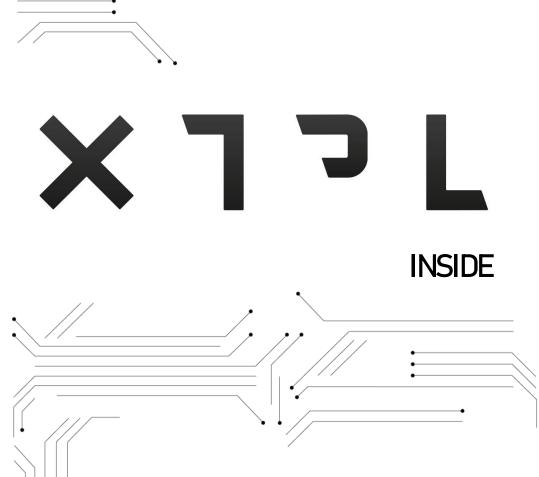
Patent applications are submitted in collaboration with the British law firm, Gill Jennings & Every LLP as well as Silicon Valley based law firm K&L Gates.

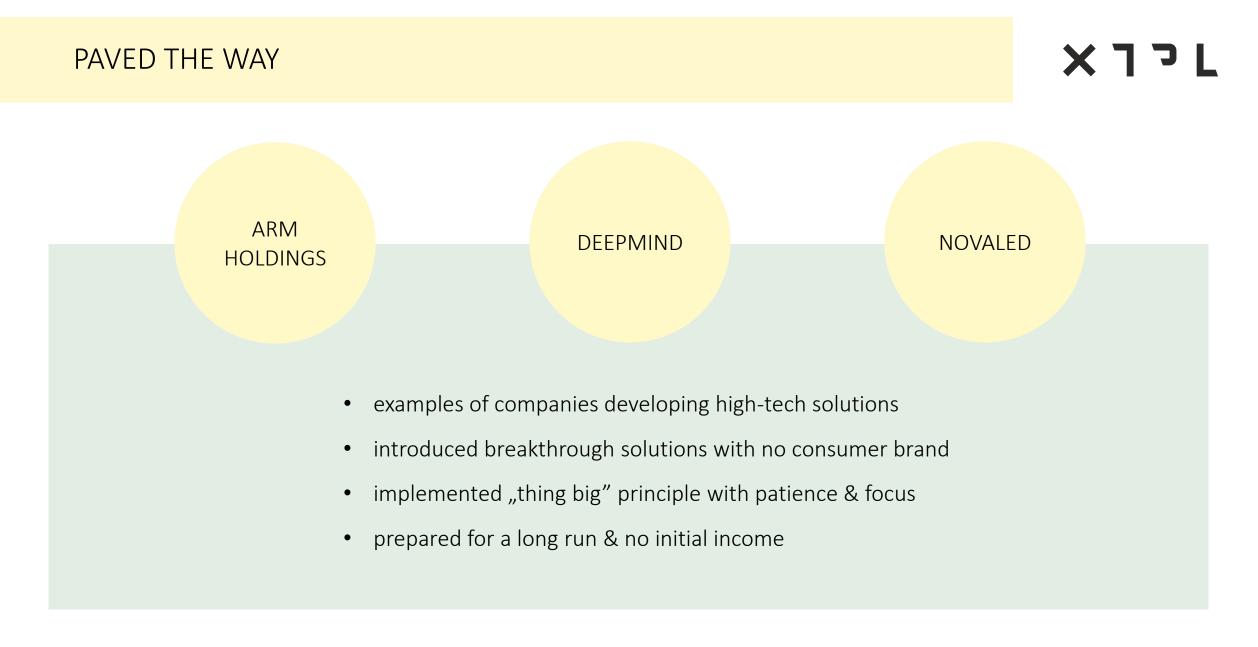


K&L Gates, Palo Alto, CA, USA

VISION & STRATEGY

- advanced platform technology to be implemented on production lines
- solution providing technological and competitive advantages
 for the producers
- enabling technology that will allow manufacturers to outperform their competition
- XTPL Inside as a remake of a well-known Intel principle stands for a breakthrough technology with the potential to become one of the base technologies in production of electronics





WE BUILD VALUE

XJJL

We deliver platform technology aimed to large and fast growing electronics market

We enable quantum technological progress in several sectors

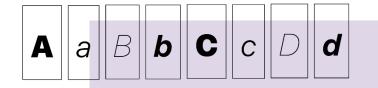


2

We have vast growth potential, appreciated by potential partners and investors – e.g. two well-known German investment funds

SHAPING GLOBAL NANOFUTURE

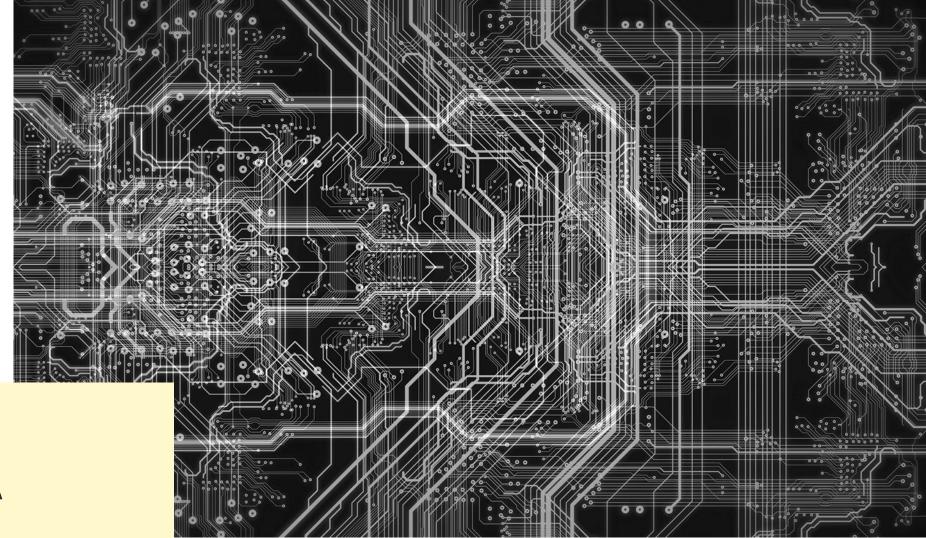
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The same way we inexpensively, easily and quickly print books and newspapers today, we will be able to print displays, solar cells, processors, biosensors and other advanced elements in the future.

This is not just a vision anymore.

This is fast approaching reality and it is worth being a part of.



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THANK YOU