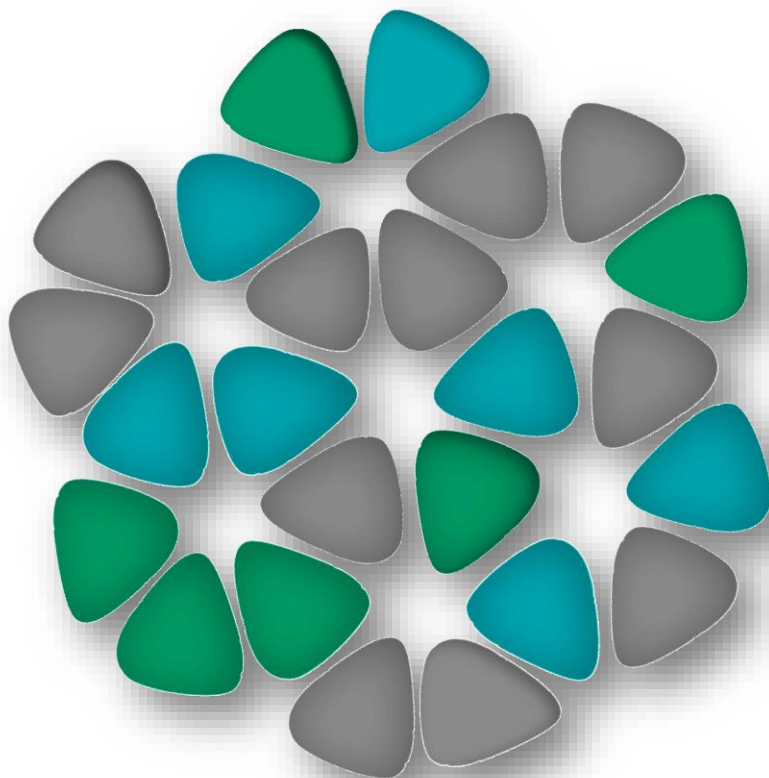




pvnanocell

Confidential Statement

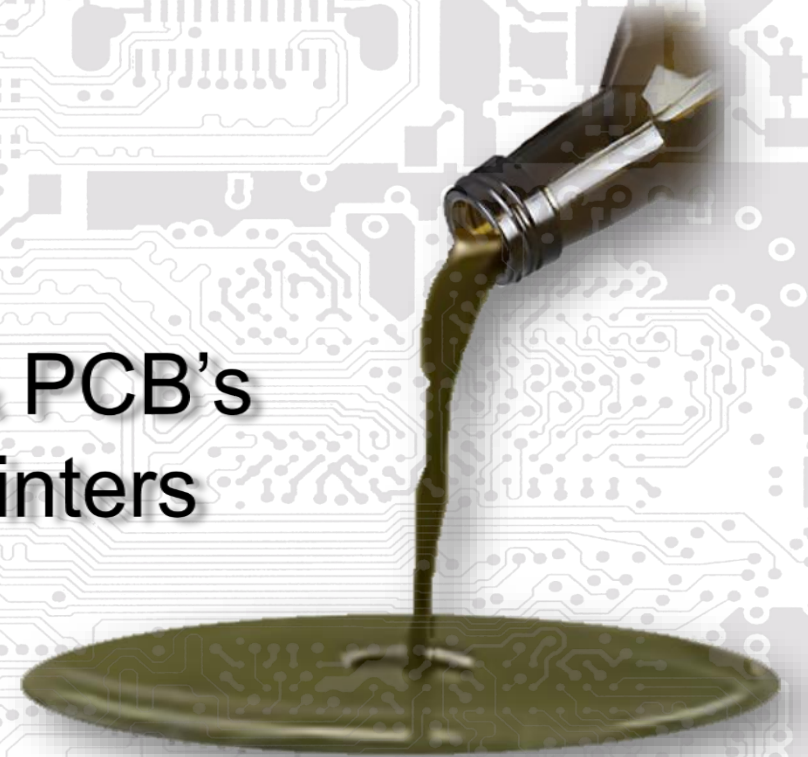
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See Disclaimer end of presentation.

First ever printed Electronics & PCB's
in mass production Digital printers

A digital revolution



pvnanocell

A new era for electronics

The game changer of electronics digital printing.
Enabler for 3D, digital additive mass production of electronics.

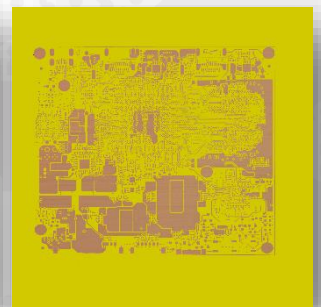
Sicrys™ inks



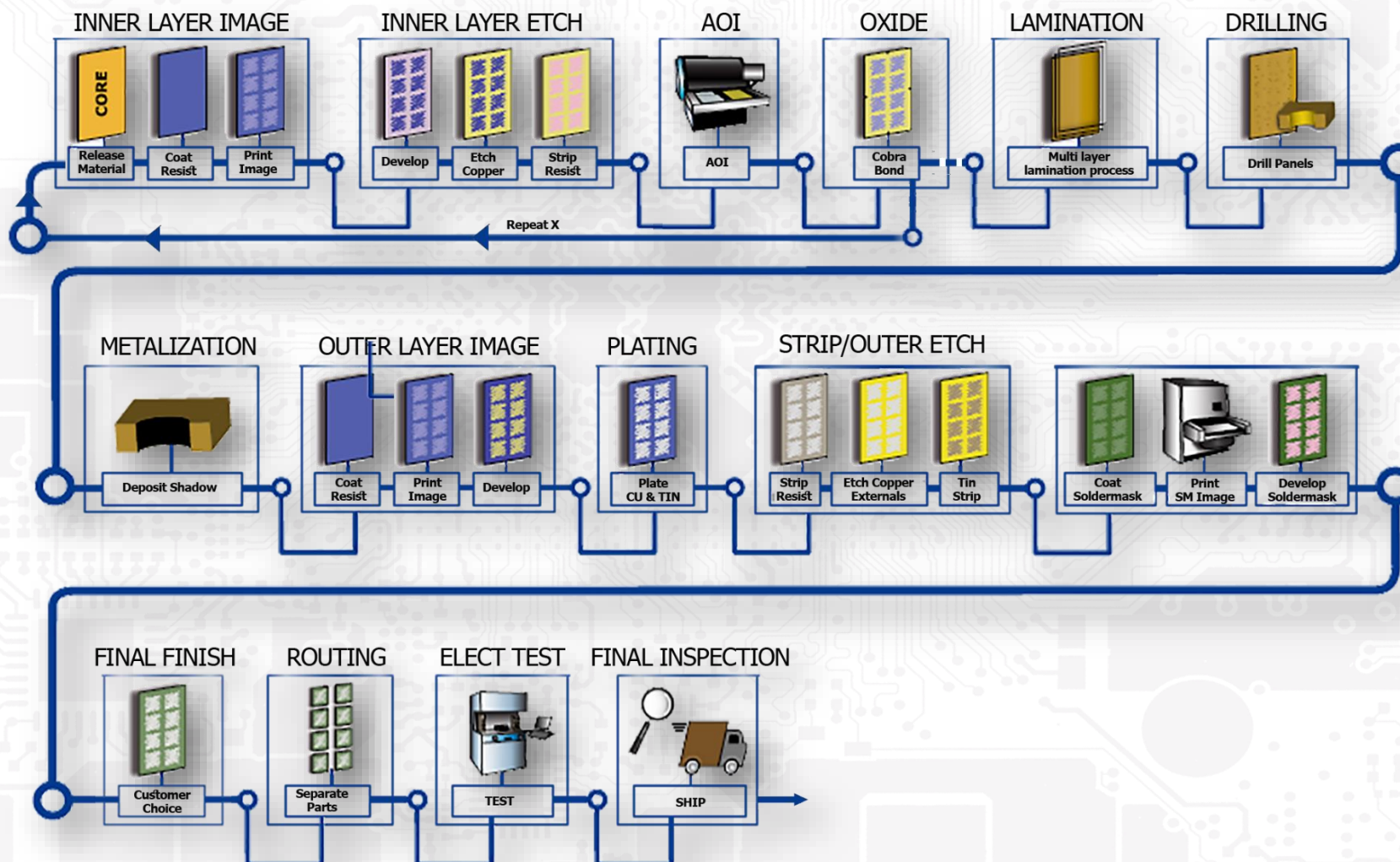
Digital Inkjet Printer



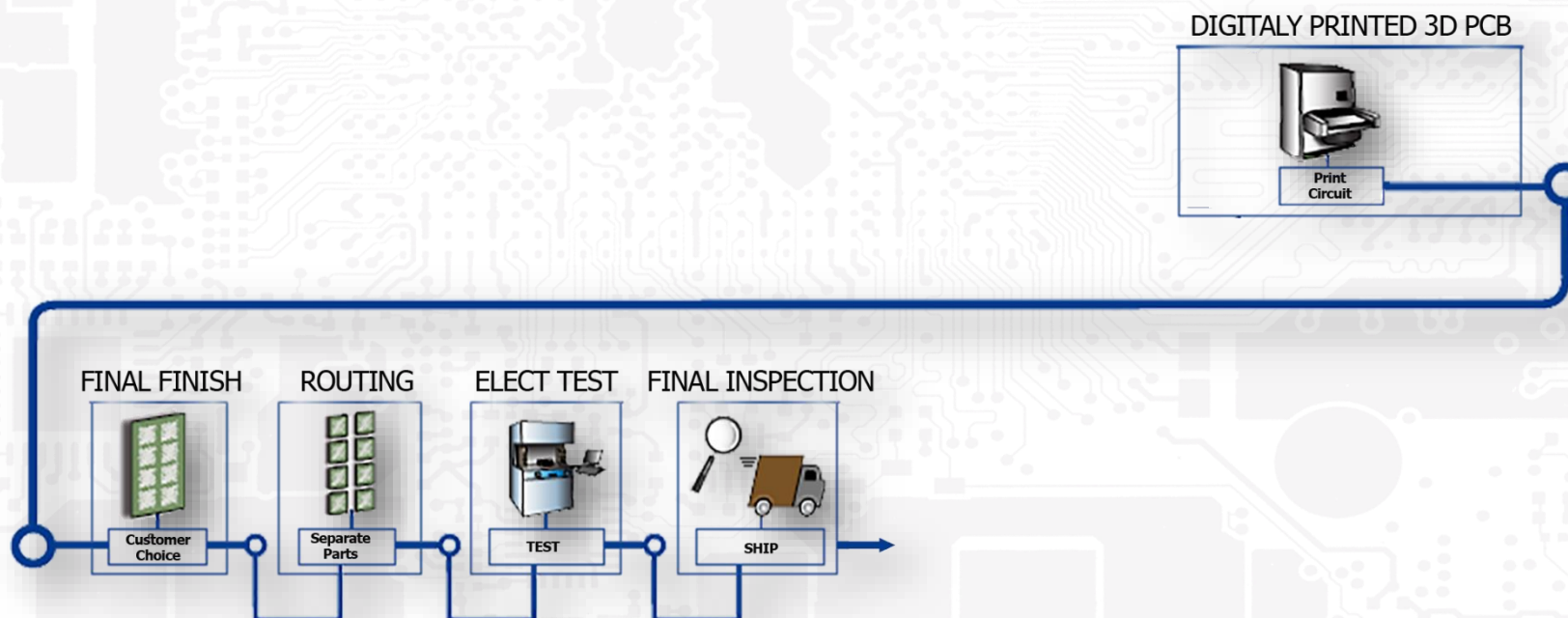
Electronic PCB



The PCB production process today



pvnanocell phase III



The Enabling Power of Sicrys™ Inks

Enables digital additive manufacturing in electronics.

The Sicrys™ ink family is a single-crystal, nanometric, Silver & Copper conductive inks.

Enhanced performance capabilities.

New electronics Capabilities:

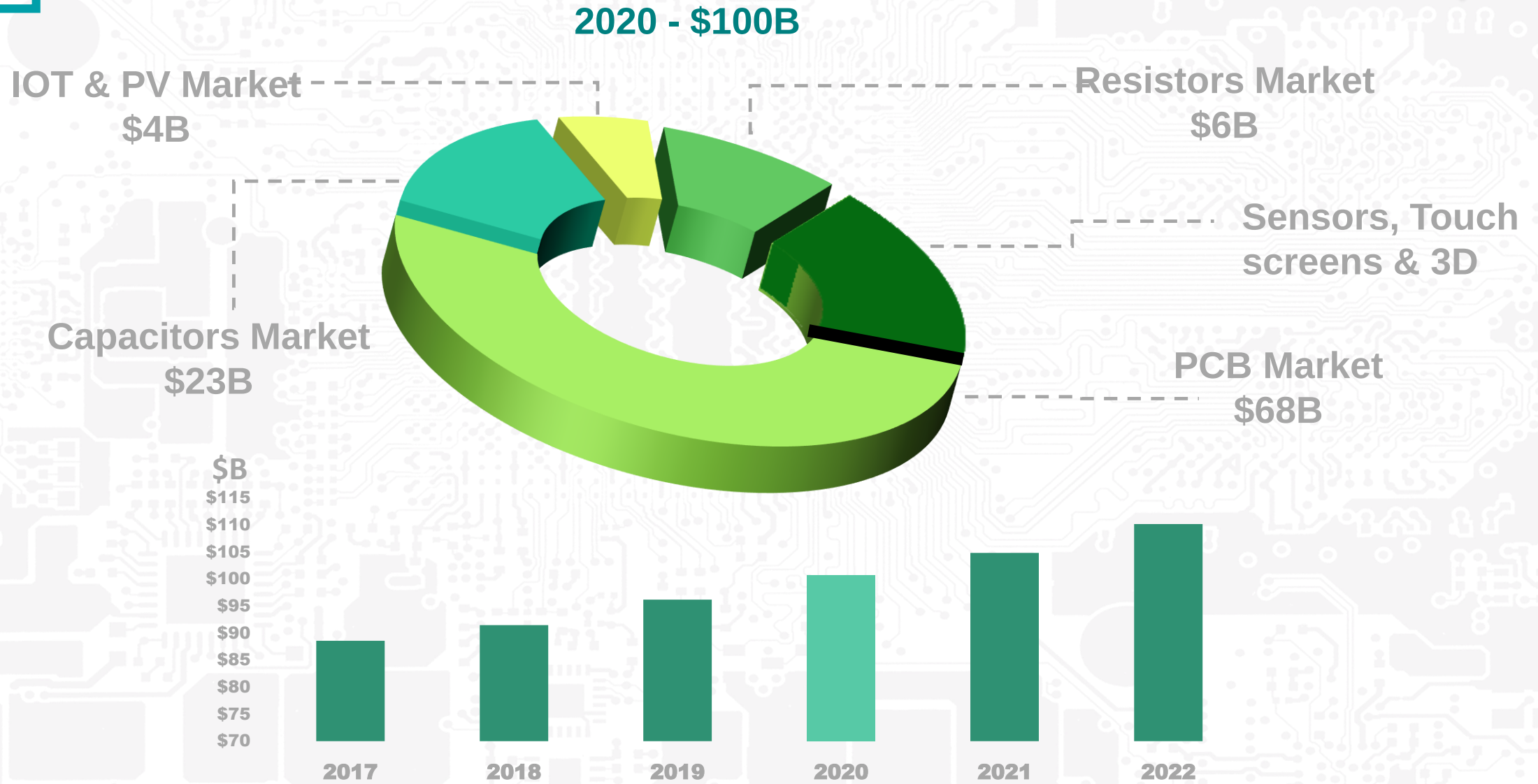
- Flexible
- Customized
- Thinner & lighter
- Green process

No additional manufacturing cost, no mask, no hazardous waste.

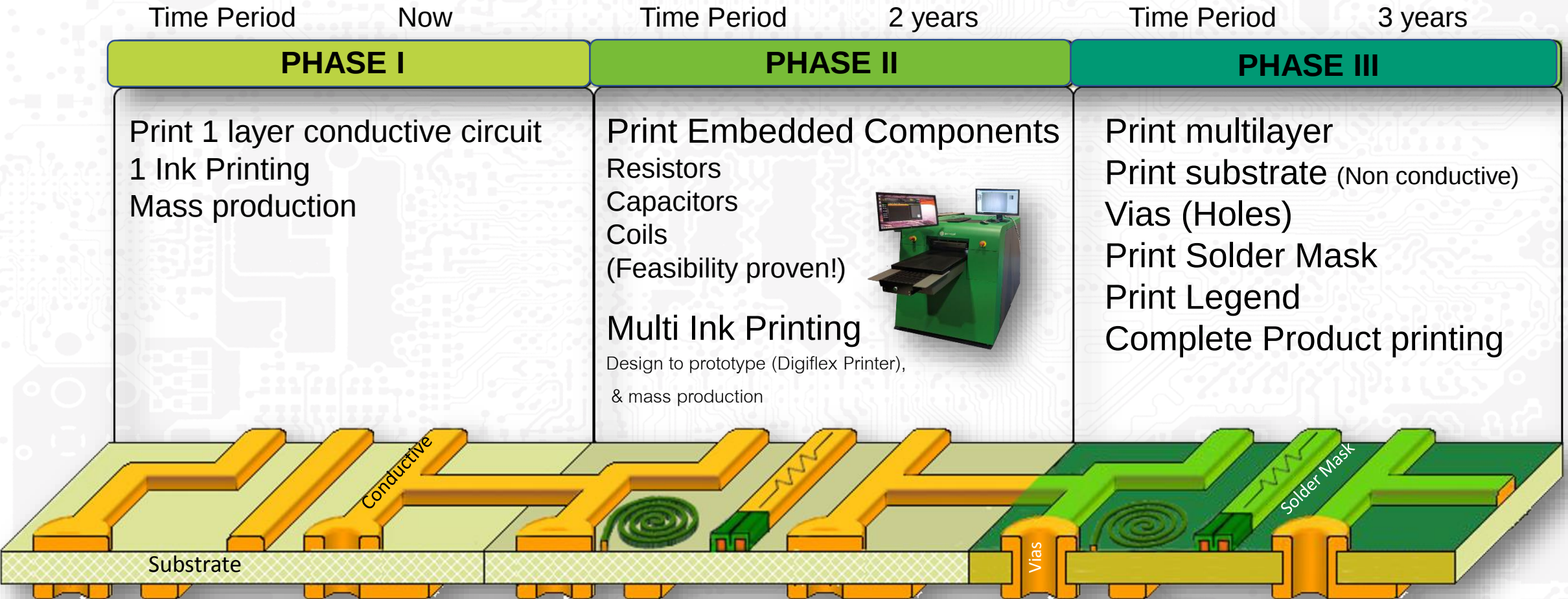


PVN Sicrys™ inks enables **New Electronics**

The Market



The process



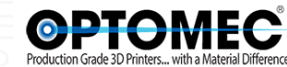
Sicrys™ Inks Are Working

Supply agreements for mass production applications with big players in the industry signed.

Additional supply agreements in the pipeline.

Inks are sold through our web site to:

- Printer Producers.
- Industry development projects.
- Research institutes and universities.



Sicrys™ Inks Are Working

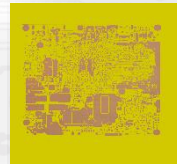
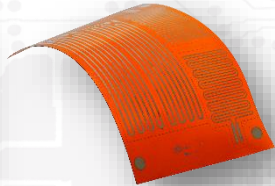
Printed Electronics

- Flexible and customized electronics
- Printed Circuit Boards (PCB)

Potential cost reductions > 30%



Coil
(70 µm width, 70µm pitch)



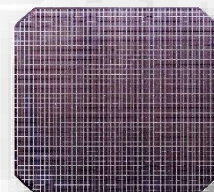
PCB & One layer
70 µm width patterns

Automobile Sensors



CleanTech

- Photovoltaic (PV) metallization
- Potential cost reductions > 10%



IoT / IoE

Printing for mobile phones

- Antenna
Potential cost reductions ~15%
- Touch screens
Potential cost reductions > 50%



WindShield Electronics

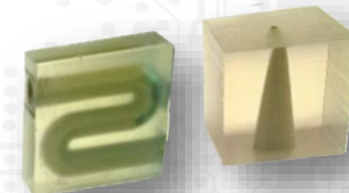
- In cooperation with our partner DipTech.
(a Ferro Subsidiary)



Heating Foil

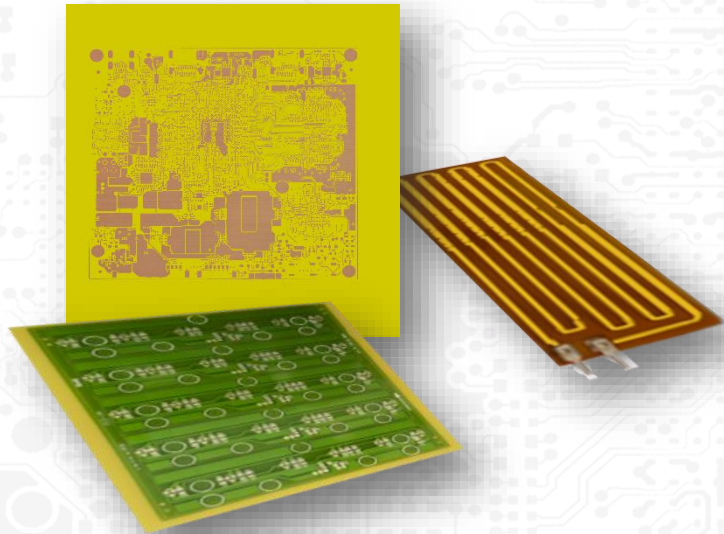


3D Printing

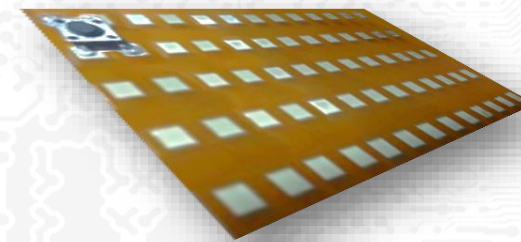
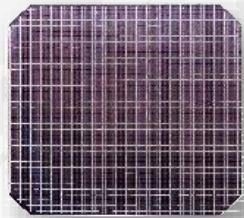


Sicrys™ Inks Are Working

PCB & One layer
70 μ m width patterns

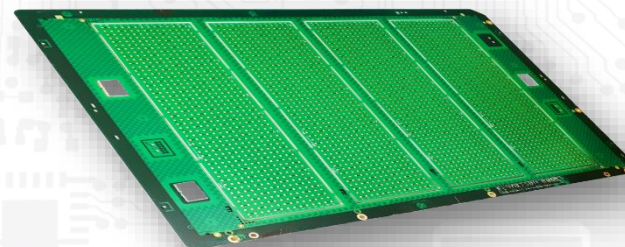


Photovoltaics

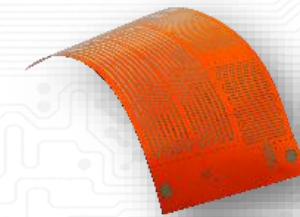


SMT soldered components

4 layer PCB,
inner layers printed



Antennas for mobile
phones



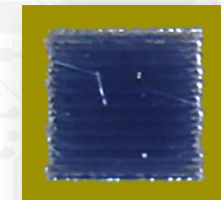
Touch screen



Printed
Capacitor

Coil

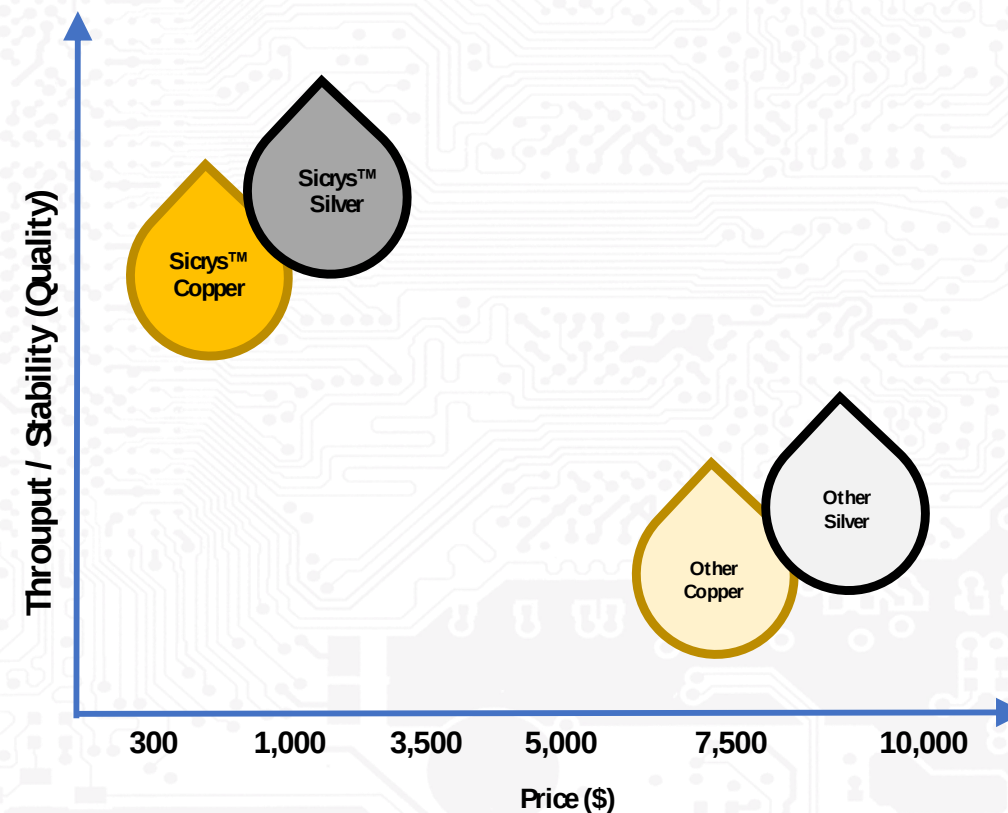
(70 μ m width, 70 μ m)



Competition Landscape

Sicrys™ inks:

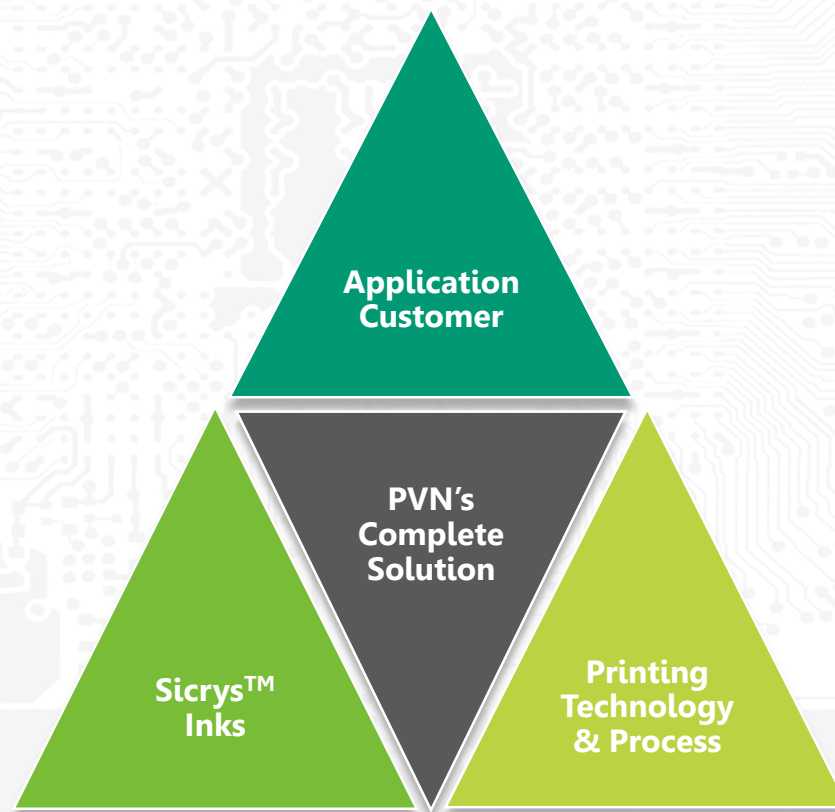
- Efficient cost structure.
- Robust high throughput - 24/7 printing.
- Lower viscosity at high metal loading (50%+).
- Shelf life – over 1 year.
- Shipping & printing at ambient environment
- Narrow pattern printing as narrow as 50 µm.
- Low resistivity: $\rho < 2.5 \times$ bulk.
- Low sintering temperature ($< 130^\circ\text{C}$).
- Unique Product – Silver (environmental durable), Copper and solar cell metallization inks.
- SMT/soldering capable.
- 3D electronics enabler.
- Green process.
- Quick turn around.
- Variable thickness.



A printer is only as good as the ink put into it!

A Complete Solution Approach

Ink Process Printers



Integrated Printer

PVN DigiFlex Integrated Design, prototype and R&D printer.

- Unique “one shop” printers for multi layer/multi ink 3D printing.
- High accuracy.
- All in one tool – to produce printed electronics.
- Competitive affordable prices, ~ \$150,000
- Multi channel/ink platform from graphic arts.
 - Silver and copper conductive inks.
 - Dielectric inks.
- Selective vacuum stage.
- Substrate heating.
- IR drying and sintering.
- Laser sintering.
- UV curing.
- Inspection and measuring system.
- High accuracy and registration.
- Software dedicated for printed electronics.

Launching Q1 2019

Israel – Greece grant to develop changes (laser sintering)



Intellectual Property

Patents granted:

USA US 9556350

Russia RU 2593311

China CN 103282969

Japan JP 6067573 & JP 6363138

Copper WO PCT/1B2015/051536 (WO2015132719) National phase.

Silver WO PCT/US2011/063459 (WO2012078590) National phase.

Additional Patents:

PVN joint patent with TAU:

IP Nano wires for thin solar cells metallization:

WO 2013/128458

US 9,373,515 B2 Conductive Nanowires Films.

PVN IP general

(Sono chemistry – nano materials – owned by subsidiary NZE):

USA 7,157,058; USA 7,504,075; IL 144638; IL 149932.

The projection

NDA

Current Status

MERCK

pvnanocell

DigiFlex
Dot. That's the Point.

CPC Solutions
Your HMI or Turnkey Partner

1st Razor & Blade
mass production
printer in place.

Ink supply
agreement with
large chemical
company.

Entered the market of
prototyping 3D Printed
Electronics through
M&A.

Touchscreen
printer & process
at Final stage to
qualifying.

Ink supply
agreement for
automotive
applications.

Discussions with
printer
manufacturers.

Nano-particles
supply agreement
with a US paste
manufacturer.

dip[®]
TECH A FERRO COMPANY

MEYER BURGER

NOTION
SYSTEMS

orbotech
Be Sure

NOTION
SYSTEMS

CREATIVEMATERIALS
Creating Constructive Solutions

OPTOMECH
Production Grade 3D Printers... with a Material Difference

The Future

Our engineers are involved in an array of projects around the world with leading research centers, companies, universities and more to bring the technologies for the next century:



<http://www.dimap-project.eu/>

DIMAP project focuses on the development of novel ink materials for 3D multi- material printing by PolyJet technology. We will advance the state-of-the art of AM through modifications of their fundamental material properties by mainly using nanoscale material enhanced inks.

Partners: Stratasys, PVN, Profactor, Phillips, Borealis, KIT, Tiger, Festo, Soreq, CIRP, Tecnan (EC Horizon 2020 finance)



<https://www.hiperlam.eu/>

HIPERLAM – A Research and Innovation Action (RIA) well-aligned to the Factories of the Future (FoF) Initiative with a strong emphasis upon demonstrating superior cost and speed performance in end-to-end processes featuring laser-based additive manufacturing in two key applications requiring high resolution printed conductive metallic lines, namely laser printed RFID antenna and laser printed Fingerprint sensors.

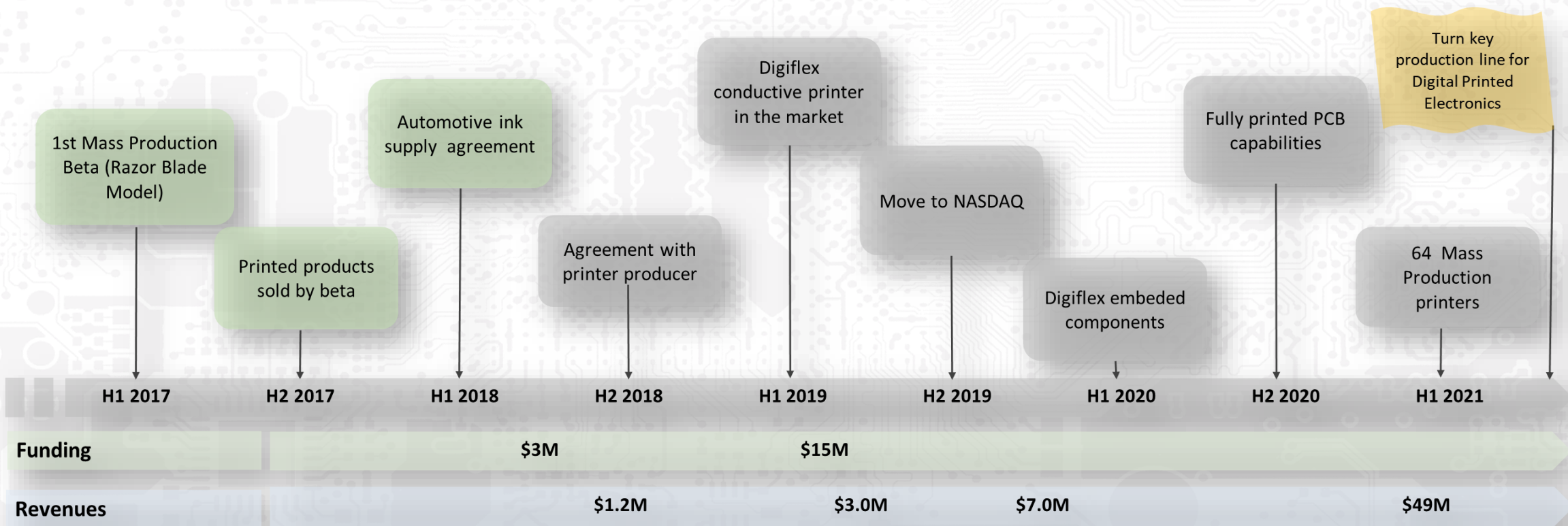
Partners: Orbotech, PVN, TNO, Oxford Lasers, NTUA, FlexEnable, Pragmatic, Modus (EC Horizon 2020 finance)



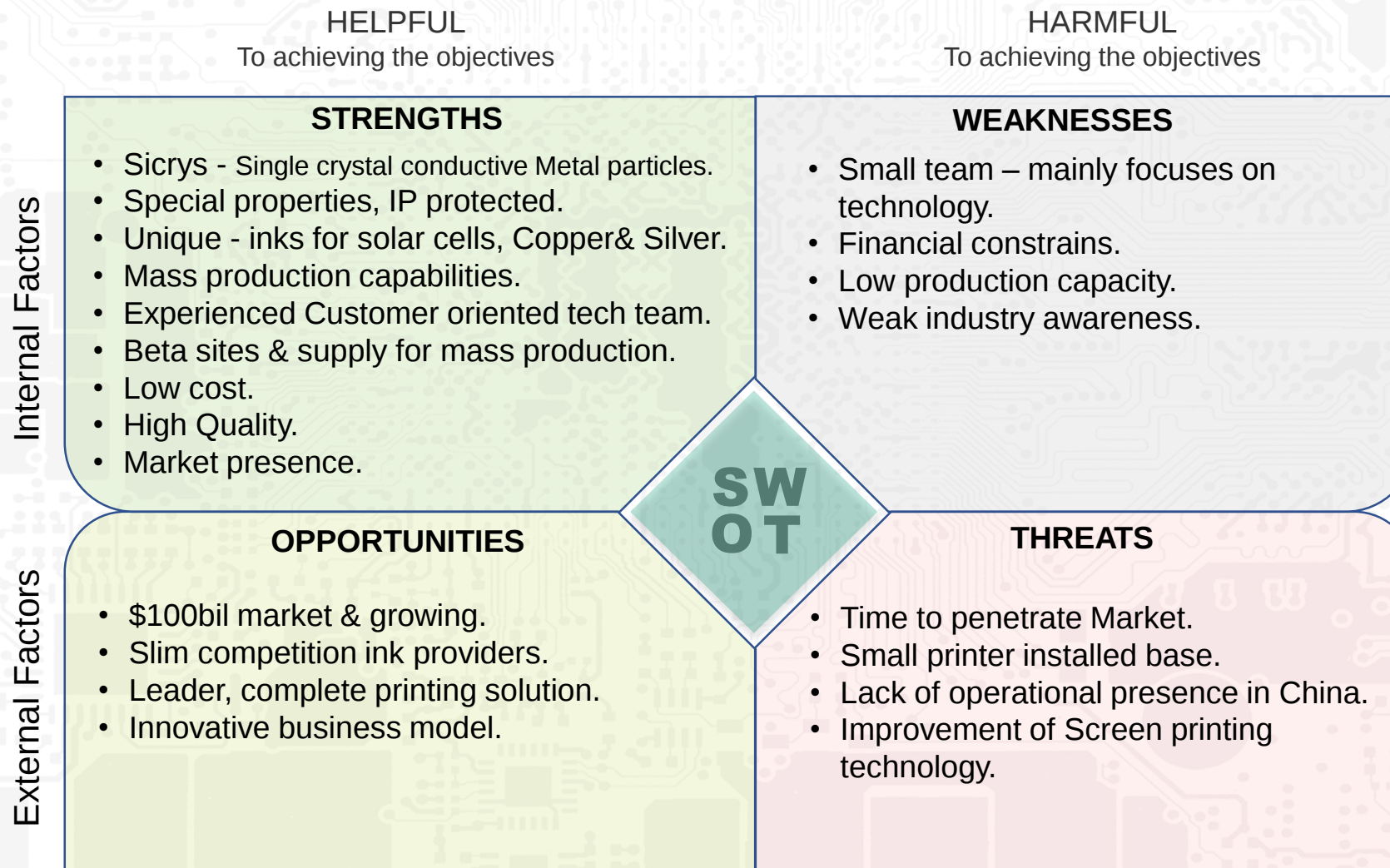
LIFT Printing

Develop special pastes, for laser induced printing, for high accuracy, narrow printing capability (10µm width patterns) for PCB printing.

Road Map



SWOT Analysis



About Us

pvnanocell (OTCQB: PVNMF)



“The team encompasses more than 200 years of relevant Business & technical experience”



Fernando de la Vega

Chief Executive Officer and Chairman (Founder)

Holds a PhD in applied chemistry (Casali Institute, The Hebrew University). Fernando has a strong technical and management background with more than 30 years experience in the industry.



Eyal Shpilberg

Chief Operating Officer

Has over 30 years industrial experience, CEO of technology based companies and Corporate Vice President Consumables Division, of Creo Ltd. (Israel and Canada). Experienced marketing & BizDev executive.



Ram Zeevi

Chief Strategy Officer

Over 30 years of experience as CEO of large & multinational companies, both private and public, including Zeevi Computers., one of the pioneer tech. investment companies in Israel. For the past 10 years, private investor in technology companies. Present and past board memberships include publicly traded companies, Israel the UK and privately held companies.



Evyatar Cohen

Chief Financial Officer

B.A. in Business Management (2000) and was awarded his Master of Law degree from Bar-Ilan university (2003). Evyatar also worked in the PwC New York branch for five years as an audit manager.



Dr. Astorre Modena

Director

A member of our board of directors since 2010. In 2005, he co-founded, and currently serves as General Partner of, Terra Venture Partners, an Israeli venture capital fund focused on clean technology. From 2001 to 2005, Dr. Modena was Associate and then Principal at Israel Seed Partners, a leading Israeli seed-stage venture capital firm.



Shai Levy

Director

Currently serves as the CEO of ProSeed Venture Capital Fund and the CEO of Ratio Oil Explorations (Finance) Ltd. From 2007 to 2012, Mr. Levy served as a CFO of Elie Tahari, New York. From 2005 to 2007 he served as a Director of Financial Reporting & Compliance at Deutsch, New York.



Orly Solomon

External Director

Co-founder, COO and CFO of Eye Sight Fitness Ltd. From 2014 to 2016, Ms. Solomon served as CFO of Future Values Ltd. In 2013, she served as CEO of D. Medical Industries (NASDAQ /TASE: DMED). 2010 to 2012 served as CFO and Deputy to CEO of Lito Group Ltd. (TASE: LTGR-M). From 2009 to 2010 she served as co-founder and CFO of Atid Team, Israel. From 2006 to 2010 she served as co-founder and a director of Altshuler Shacham Israel.



Ido Lapidot

External Director

"TRIZ- Effective Innovation" consultant for various companies, inter alia, Elbit, Verint, Coca Cola, Gilat, Tuff Merom Golan, Tama and HP. 2009 to 2016, served as a Strategic Technologies Planner and TRIZ Program Leader at Intel R&D and Intel Labs. 2008 to 2014 served as an External Teacher for TRIZ and Systematic Innovation at Afeka Collage for Engineering, Israel.

Thank you

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Safe Harbor

This presentation contains forward-looking statements. All statements other than statements of historical fact contained in this presentation are forward-looking statements. In some cases, you can identify forward-looking statements by words such as “believe,” “continue,” “estimate,” “anticipate”, “expect,” “intend,” “plan,” “potential,” “project,” “seek,” “will,” as well as the negative of these words or other comparable terminology. These forward- looking statements include, but are not limited to, statements about: the potential market opportunities for commercializing our current and planned products; our expectations regarding the potential market size for our current and planned products; estimates of our expenses, future revenue, capital requirements, and our needs for additional financing; our ability to develop and advance our current and planned products; the implementation of our business model and strategic plans for our business and products; our ability to maintain and establish collaborations or obtain additional funding; our financial performance; and developments and projections relating to our competitors and our industry. These statements reflect our current views with respect to future events or to our future financial performance and involve known and unknown risks, uncertainties, and other factors that may cause our actual results, performance, or achievements to be materially different from any future results, performance, or achievements expressed or implied by these forward-looking statements. Factors that may cause actual results to differ materially from current expectations include, among other things, those listed under “Risk Factors” in the Registration Statement on form F-1 (Registration No.: 333-206723) filed with the U.S. Securities and Exchange Commission on September 22nd, 2015 by the Company and subsequent 20F forms filed on 2016 and 2017. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future.