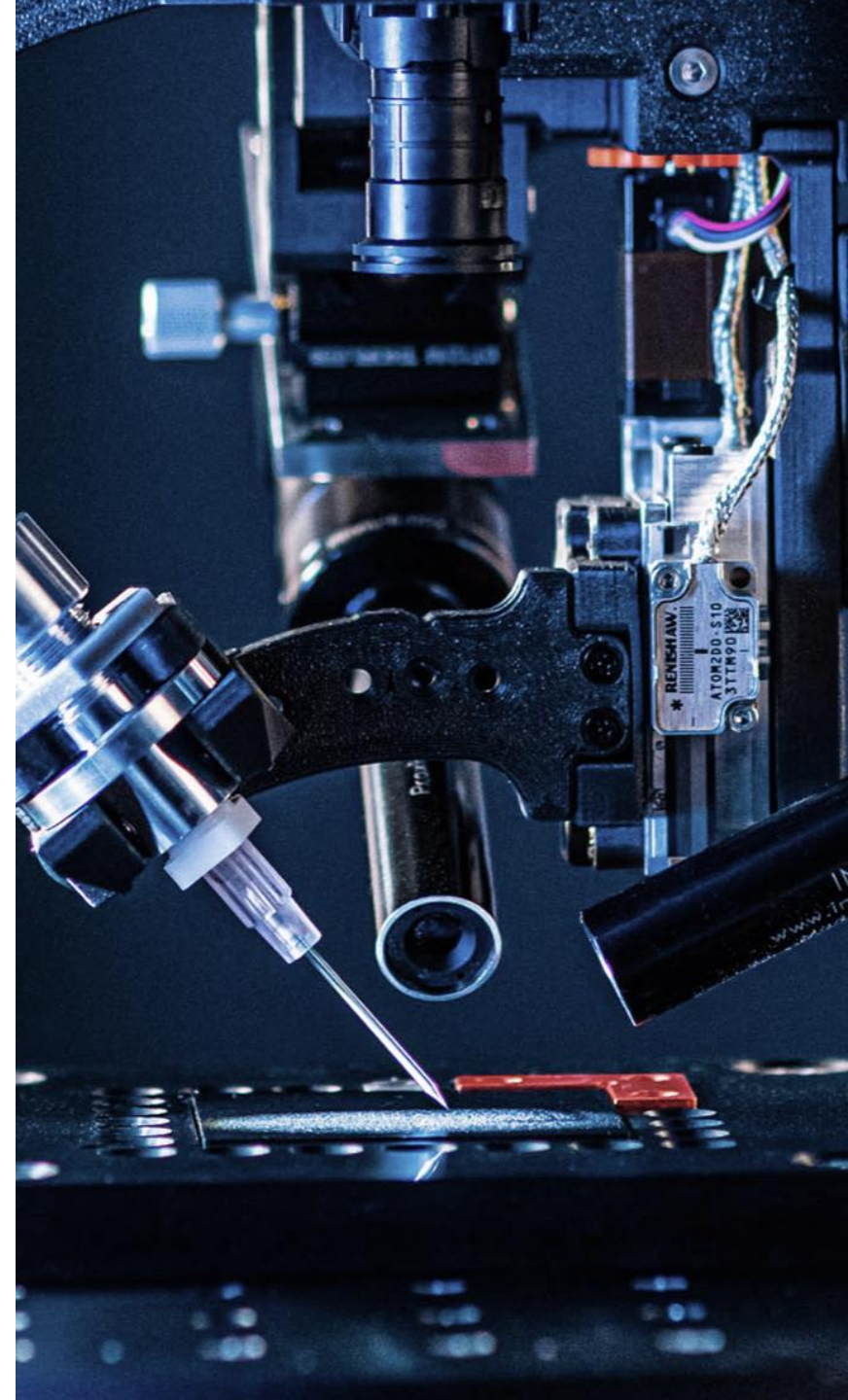




Financial results Q1-Q3 & Q3 2024

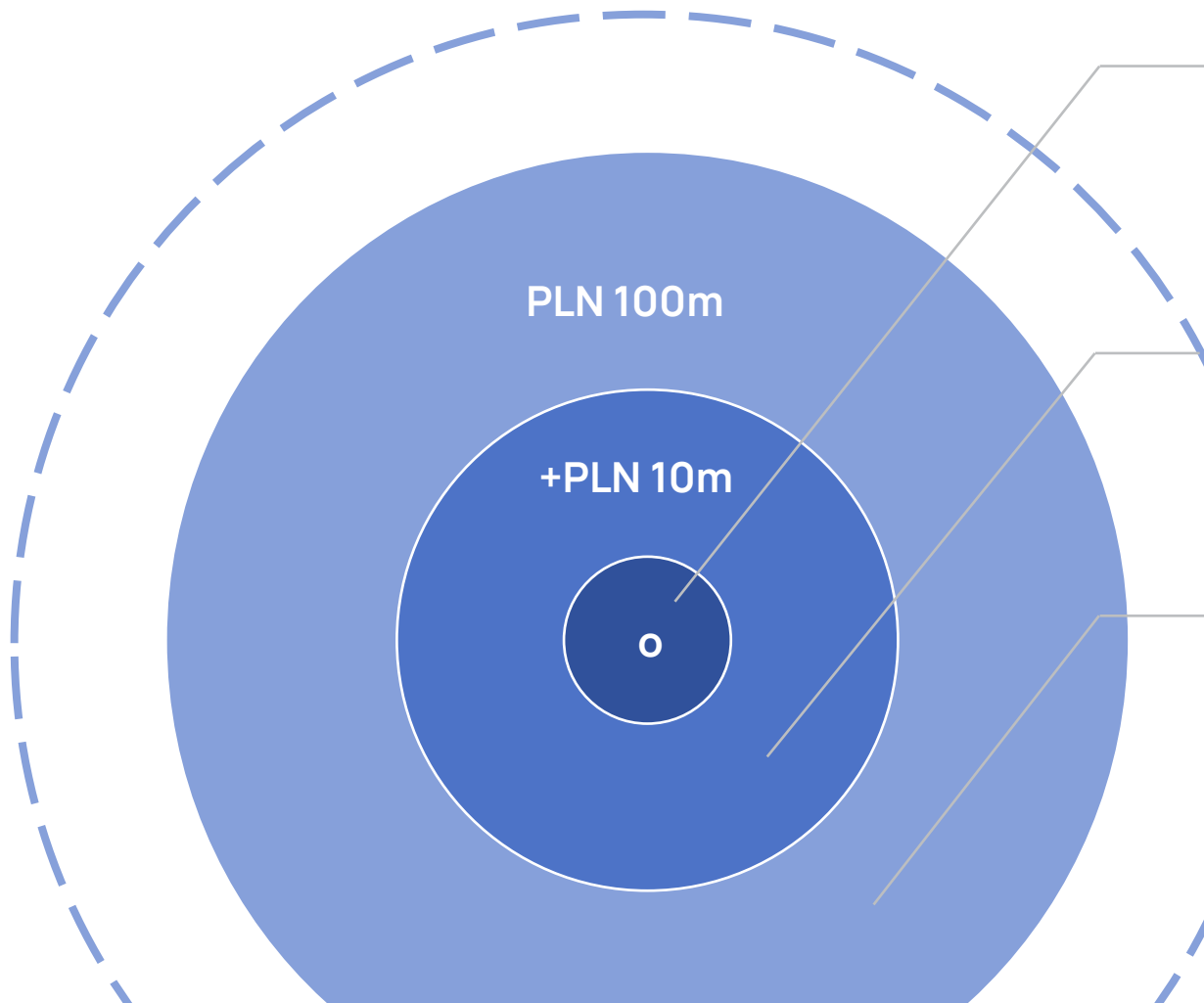
XTPL S.A.

November 8, 2024



Solid business foundations with growth potential significantly exceeding the 2026 target

Global growth of XTPL business based on the UPD technology



Unique UPD technology

- Proprietary technology built as part of advanced R&D; market needs confirmed
- Patented solutions – IP cloud with nearly 40 patents
- Scientific articles published on the XTPL technology by leading international research teams

Commercialized technology and first products

- Product diversification – three business lines: industrial modules, DPS, DPS+ devices, HPM
- Business diversification – over 30 DPS devices ordered for industrial customers and research institutions
- Geographical diversification – products and services sold to clients from over 20 countries

Industrialization of the technology through industrial implementations

- XTPL in the value chain of global manufacturers of advanced electronics
- Wide range of technology applications including semiconductors, displays, PCBs, ICT and biosensors; platform character of the technology – expandable range of applications
- Growth of industrial projects

The final stretch before industrial implementation



We are entering the final stage of the investment process (totalling ~ PLN 60 million in 2023–2026) to implement the Strategy aimed at exceeding PLN 100 million in revenues in 2026

Execution of the investment program

- 2x shorter delivery time of DPS devices thanks to increased production capacity
- Increased operational efficiency, resulting in record-breaking delivery time of an industrial module to a client from China and the launch of a prototype device
- Adaptation of the organizational structure to fit the growing sales potential of XTPL, including the strengthening of the sales and marketing department and formation of a product management team
- Opening the Demo Center in Boston, USA, one of the key markets for XTPL

Stepped up preparations for industrial implementations (UPD)

- Four prototype industrial machines fitted with the XTPL print heads are being tested around the world. The end clients are the largest global manufacturers of advanced electronics
- Decision on the first industrial implementation may be taken even before the end of 2024, and if it is not the case, we still expect 2025 to be a record-breaking and landmark year for XTPL
- Strong intensification of work by industrial partners; product maturity evidenced by the increasingly faster delivery of individual implementation stages

New equipment for HMLV production – expanding the DPS segment

- In response to customer inquiries, the DPS offering (for R&D and prototyping activities) is being expanded with a new DPS+ segment dedicated to (High Mix Low Volume) production
- The new segment will fill the niche between the offer for R&D centers and industrial implementations, being a complementary proposition for these solutions
- Prospective strong contribution to the strategic goal of PLN 100 million in annual sales in 2026

Executive summary Q1-Q3 & Q3 2024



Vigorous activities focused on implementation of the 2026 Strategy, including:

- Significant strengthening of the commercialization process by **expanding the international Business Development Team**, intensive efforts aimed at opening a **new Demo Center in the USA** and marketing activities supporting the visibility of XTPL
- **A new client from China at the 4th stage of the industrial implementation process** since April 2024 (following a record-fast preliminary evaluation); XTPL industrial module delivered and first tests launched on a prototype device at the client's site – application for the FPD industry
- **Second XTPL industrial module ordered by HB Technology from South Korea** – stepping up tests as part of stage 4; the first prototype device is already on the pilot line of the end client – a leading manufacturer of FPDs from South Korea
- **7 Delta Printing System devices** delivered in Q1-Q3 2024
- **Intensive R&D on a new business line** tentatively named **DPS+** – a response to market demand reported by current and potential clients
- Management Board's decision to recommend the acquisition of new funding through the issue of new equity stock.

PLN 6.7 million

sales of products and services in Q1-Q3 2024 (-27% YoY)
92% share in total revenues vs 85% in Q1-Q3 2023
PLN 1.0 million in Q3 2024 (-72% YoY)

PLN 5.0 million

value of inventories at the end of September 2024 – possibility of generating sales of up to PLN 12 million in the coming quarters

PLN 4.6 million

CAPEX in Q1-Q3 2024 (PLN 0.8 million in Q1-Q3 2023)

PLN 4.8 million

cash position at the end of September 2024
(PLN 14.0 million at the end of June 2024)

Agenda

01 Business and Technology Q1-Q3 & Q3 2024

02 Financial Results Q1-Q3 & Q3 2024

03 Outlook and Summary

02

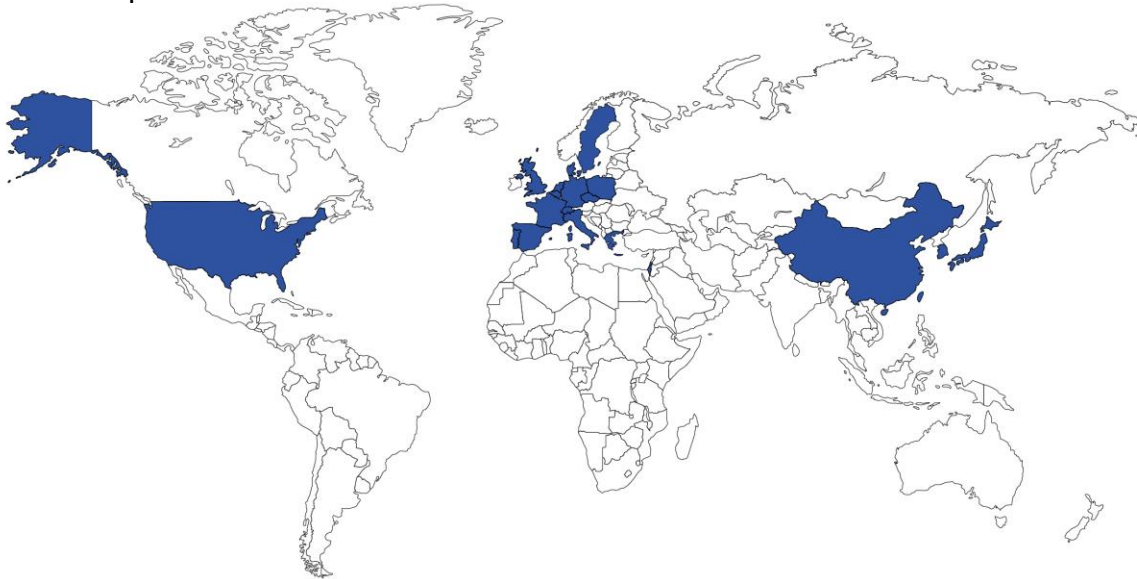
Business and Technology

Q1-Q3 & Q3 2024

Global commercialization of the XTPL portfolio



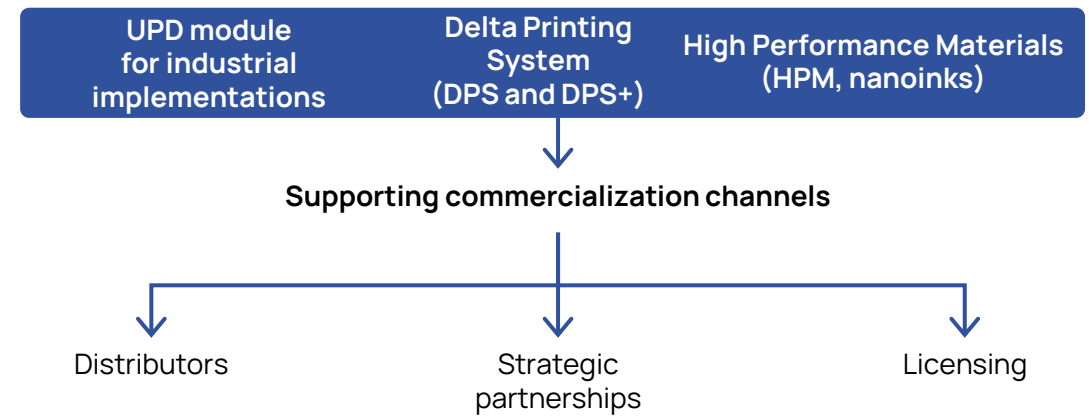
XTPL successfully commercializes its products in more than **20 countries** now and conducts technology evaluations at global players in the printed electronics sector



13 distributors in the USA, France, Germany, the British Isles, South Korea, China, Taiwan, India

An effective commercialization model

Own sales and global distribution of proprietary products



By the end of 2026, XTPL plans to support sales through its **new demo & sales centers** in key markets from the technology perspective: **USA, Taiwan and South Korea**

An international business development department built



Martyna Alberska

Global Sales Director

- Joined in August 2024
- Responsible for strategic business development, sales growth and international expansion
- Over 19 years of international experience in the United States, Asia and Europe, successfully implementing profitable business strategies and tools to optimize key processes
- Held key sales management positions, including with Apator and Flex



Urs Berger

Managing Director of XTPL Inc. (USA)

- Joined in January 2024
- Responsible for developing and implementing XTPL's sales strategy in the United States and forging business partnerships
- Previously held key management roles at Optomec in the United States and Switzerland for 16 years
- Has a proven track record of successful implementation of sales strategies in North America and Europe, where he has completed several hundred of system sales transactions during the course of his career.



Alex Hodik

Business Development for the APAC region

- Joined in November 2023
- Responsible for the expansion of XTPL solutions in the Asia-Pacific region
- Gained experience at Optomec and was responsible for sales and business development, including managing technology distribution channels in the APAC region.
- Has a deep understanding of regional market dynamics and an extensive business network supporting the company's expansion, including establishing partnerships and optimizing business performance



A team of sales experts and 13 distributors

Intensification of activities to set up a Demo Center in the United States to support commercialization in one of the key markets for XTPL

Setting up a Demo Center in Boston

- Goal: commercialization of XTPL solutions in North America by using local resources to strengthen sales efforts and providing technological support to current and prospective clients, as well as smooth supply of consumables to that market; enabling entry into new segments
- The establishment to be equipped with a laboratory (show room), equipped with DPS – where XTPL technology can be tested and product offer can be showcased
- Coordination: Managing Director hired in 2024 – Urs Berger + field application engineer responsible for the technology and its demonstration to clients (since September 2024); direct coordination of work with US distributors (Ontos and CWI)
- Most of the costs of launching the Demo Center were incurred by the end of H1 2024; space lease costs to be posted from Q4 2024
- The center is expected to break even at the end of 2024



Commercialization in the United States

- An industrial project at an advanced Stage 4 for an end client listed on Nasdaq 100, a leading manufacturer of industrial machines from the USA
- 7 DPS devices sold in the USA and Canada including 5 in 2024
- 5 devices sold to industrial clients

Marketing activities to support brand recognition and commercialization

Key marketing activities aimed at long-term positioning of the Company on the global electronics market and increasing sales opportunities:

- Changing the image and corporate visual identity to more modern and dynamic; a new image-building spot
- Active participation in 11 international industry events – as an exhibitor and speaker
 - Nepcon Japan – Japan – January
 - innoLAE – Great Britain – February
 - LOPEC – Germany – March
 - Touch Taiwan – Taiwan – April
 - AM Village – Belgium – May
 - Advanced Material Show – UK – May
 - Display Week – USA – May
 - Techblick – USA – June
 - Semicon – Taiwan – September
 - iMAPS – USA – September
 - MultiSolution Day, Arrow Electronics – Poland – September
- Content marketing, including: a blog, articles on external technology websites, increased activity on LinkedIn supported by campaigns promoting content and creating new leads
- SEO activities
- Unveiling of the new xtpl.com website

The marketing activities are primarily designed to help build a database of new leads (MQL) for the sales team, increase brand awareness on international markets, build trust and position XTPL as an expert in the next-generation electronics industry



A well-crafted portfolio that meets the needs of global clients



XTPL is engaged in continuous R&D that increases the functionality and potential of individual business lines. Greater commercialization of any business line drives growth in other lines



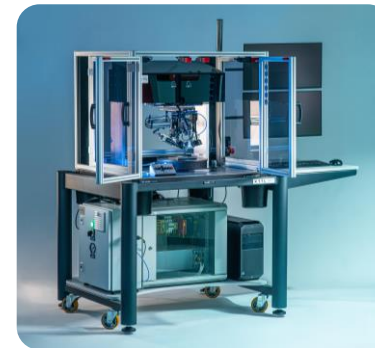
UPD module for industrial implementations

- nanomaterial deposition module for integration with industrial equipment
- can be used in many areas of production; current advanced evaluations in semiconductor, FPD (flat panel display) and PCB areas
- average price: ~EUR 80-100k



DPS+ (tentative name)

- product in development phase
- High Mix Low Volume production
- target group: industrial clients, ESM, OSM
- average price: ~300 EUR
- availability: 2025



Delta Printing System (DPS)

- XTPL technology demonstrator (technology marketing)
- standalone system for use by electronics manufacturers in R&D and prototyping
- end buyers include scientific institutions and commercial companies
- average price: ~EUR 170-200k



High Performance Materials (nanoinks)

- silver nanoinks with a high silver content and excellent stability for use in various printing techniques
- products sold to industrial and academic partners from EMEA, USA and Asia
- consumables for DPSs and UPD modules

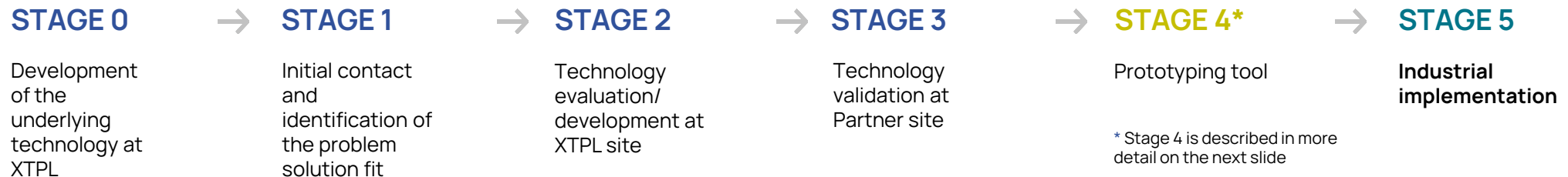


Next product generations

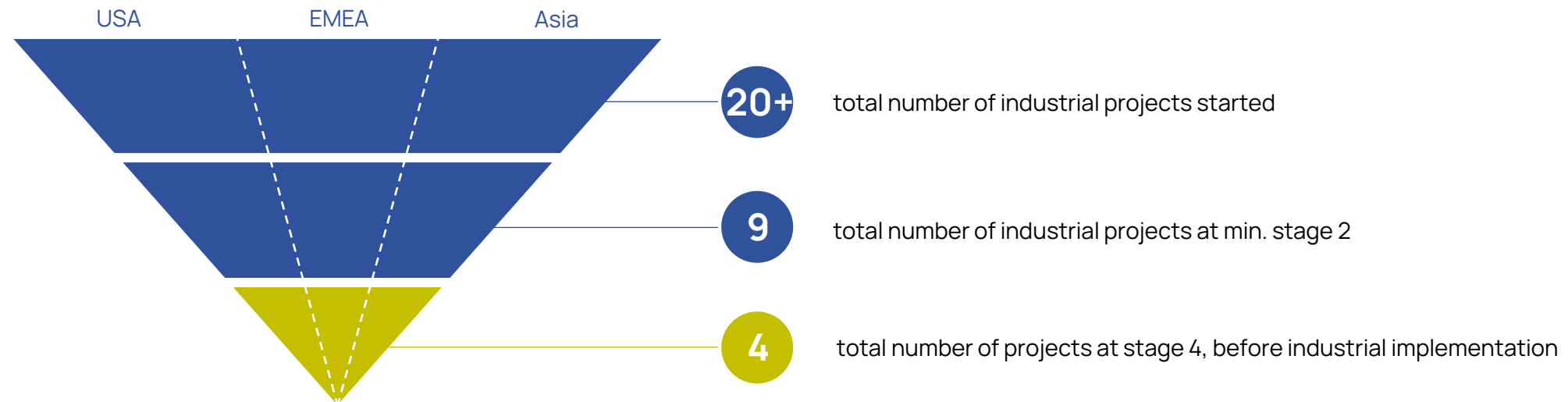
Pipeline of geographically diversified projects of industrial implementations, exceeding the PLN 100 million target



Illustrative process of industrial implementation of the XTPL technology



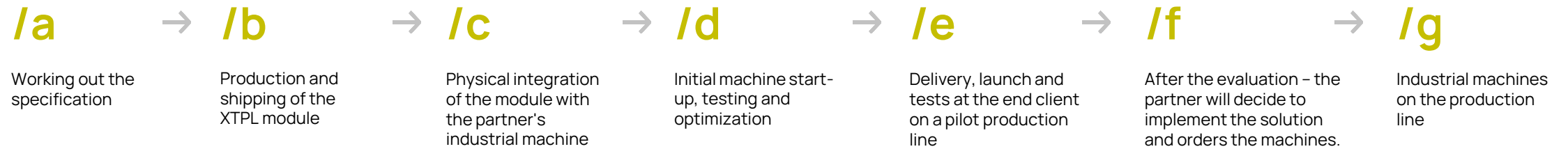
Pipeline of industrial projects for global technology clients



Achievements in 4 of the most advanced industrial projects at key **stage 4**.



Illustrative diagram of **stage 4**. – work on a prototype of an industrial device, uniqueness of each project



Carrying out intensive work in 4 projects aimed at the first industrial implementations of the XTPL technology



South Korea

- **Industry:** Flat Panel Displays
- **End client:** a leading global manufacturer of FPD displays from South Korea, listed on the Korea Exchange
- **Start of stage 4:** Q2 2023



China

- **Industry:** Flat Panel Displays
- **End client:** a leading manufacturer of machines for the modern display industry from China, listed on the Shenzhen Stock Exchange
- **Start of stage 4:** Q2 2024



USA

- **Industry:** FPD and semiconductors
- **Direct partner:** a Nasdaq 100-listed top manufacturer of industrial machines from the United States
- **Start of stage 4:** Q2 2023



Taiwan

- **Industry:** semiconductors (advanced packaging)
- **End client:** a leading global semiconductor manufacturer from Taiwan
- **Start of stage 4:** Q3 2022

Record-fast transition with a Chinese partner to the **stage 4.** of industrial implementation

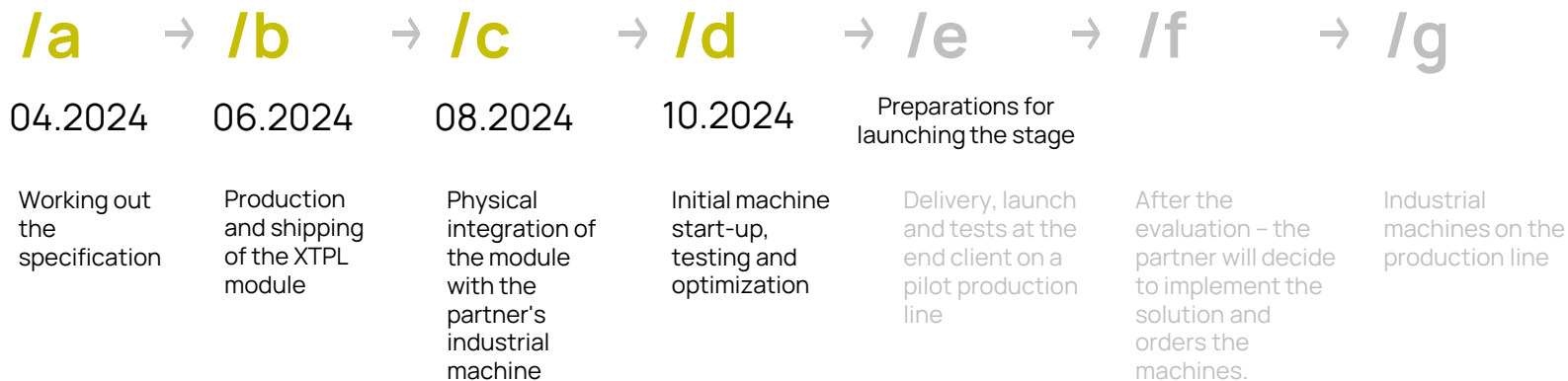


The process of initial technology evaluation (before stage 4) completed with a positive decision took about 5 months compared to 1–2 years in other projects – XTPL ready to accelerate processes in new industrial projects

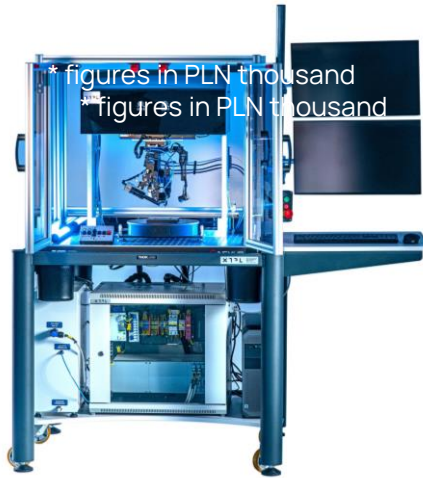
Partner introduced by XTPL's official distributor on the Chinese market: Yi Xin Technology
– distributors can generate leads also in industrial projects (except DPSs)

Fast transition to the key 4th stage thanks to:

- Growing credibility and trust of XTPL among global manufacturers of modern electronics
- High operational effectiveness
- Increase in XTPL's production capacity



Delta Printing System (DPS) - commercialization Q1-Q3 2024



* figures in PLN thousand
* figures in PLN thousand

over **30** DPS devices ordered*

6 ordered in 2024 **8** delivered in 2024

a more even and desirable distribution of offtakers in 2024 by region and customer type

Examples of DPS clients:



Comment Q1-Q3 2024

- Normalization in the Chinese market post 2023 – driven by the post-pandemic market recovery and cash injection for domestic R&D investments
- Slower flow of orders in 2024 from research institutes related to delays in grant projects; at the same time, an increase in deliveries to industrial clients
- ~80 leads in the sales funnel, including approx. PLN 12 million of potential sales that can be generated with the current inventory level of PLN 5.0 million (Q1-Q3 2024)
- 8 DPSs available on stock

DPS information

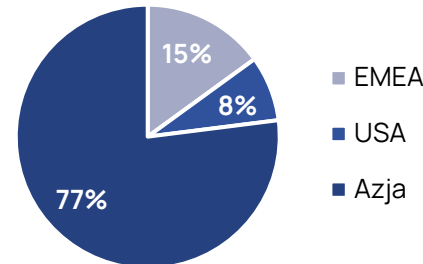
- Constantly upgraded functionality and software of the device
- The price of a DPS device is approx. EUR 170-200 thousand (recent orders nearing the upper range)
- Global annual sales of equipment for R&D, prototyping and small-lot production is estimated at approx. 250-500 units/year

*Since the start of commercialization at the turn 2021

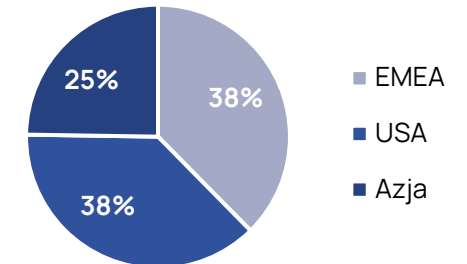
	2020	2021	2022	2023	Q1-Q3 2024	YTD
DPSs ordered	1	4	7	13	5	6
DPSs delivered	1	3	3	13	7	8

DPSs delivered by region

2023

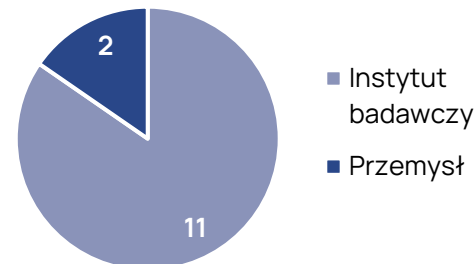


2024

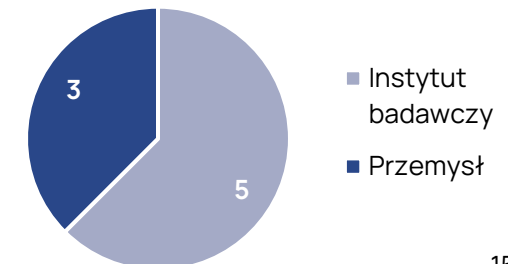


DPSs delivered by client type

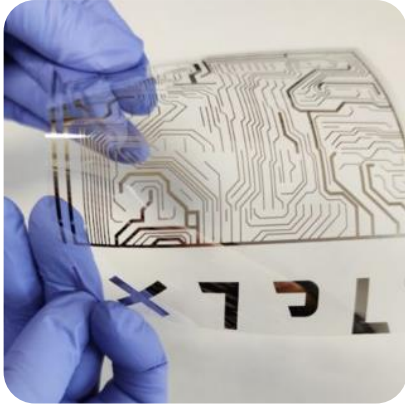
2023



2024



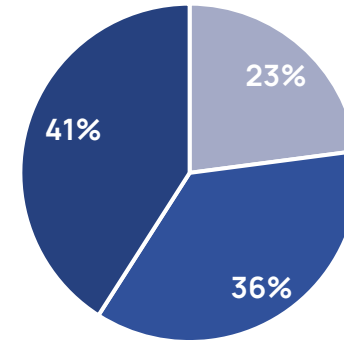
High Performance Materials (HPM, nanoinks) - commercialization in Q1-Q3 2024



- 77 orders in Q1-Q3 2024 (up > 102.6% YoY) and 27 in Q3 2024 (up 22.7% YoY) and 252 since the start of commercialization of nanoinks (HPM) from EMEA, USA and Asia
- 62 returning clients since the beginning of ink commercialization
- Completed orders to 23 countries from the EMEA region, the USA and Asia
- New countries on the sales map: Sweden, Slovenia, Japan
- Nanoinks renamed as High Performance Materials (HPM) for marketing purposes
- Development of inks with copper and gold content – new gold-based ink and pre-sales of copper-based inks from Q1 2024

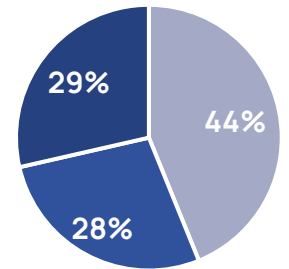
HPM (nanoinks) sales

Q1-Q3 2024

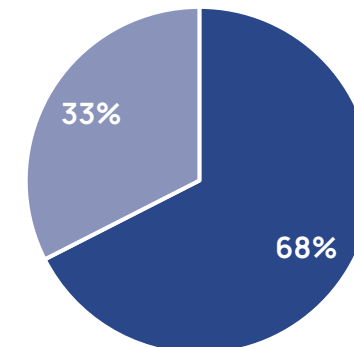


■ NORAM ■ EMEA ■ APAC

Q3 2024

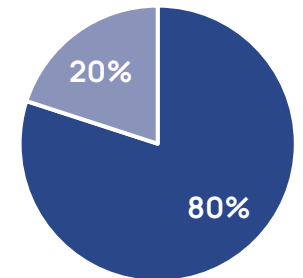


Q1-Q3 2024



■ Przemysł ■ Środowiska akademickie

Q3 2024



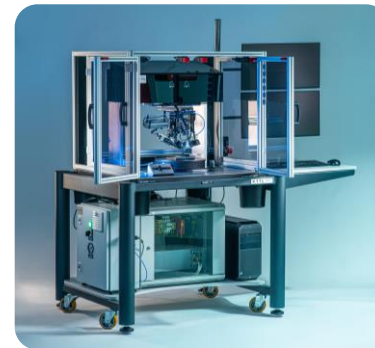
Product portfolio development plan



UPD module for industrial implementations



DPS+ (tentative name)



Delta Printing System (DPS)



High Performance Materials (HPM, nanoinks)

Development of a new product: Delta Printing System+ (DPS+)



- Product for High Mix Low Volume production at corporate clients, where DPS or UPD modules will not be used
- HMLV (High-Mix Low-Volume) – a wide range of products (High Mix) with a relatively small volume (Low Volume)
- DPS+ is a standalone product more highly automated than DPS
- Developed out of market need
- Based on the unique UPD XTPL technology
- Helps diversify business
- Several devices can be sold as part of single orders
- Price: ~EUR 300k with margins comparable to those earned on DPSs
- First orders in 2025
- Strong contribution to the 2026 strategic goal

Further expansion of the patent cloud

- Q1-Q3 2024 summary

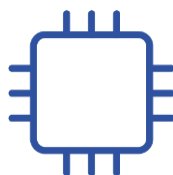
Intellectual property is one of the key competitive advantages of XTPL. XTPL's global solutions are being systematically secured by expansion of the patent cloud with protection obtained from the moment of patent submission



HPM



Printing method



Apparatus

38

patents granted

10

patents granted in 2024

Support from international law firms

- K&L GATES (Palo Alto, CA, USA)
- Gill Jennings & Every LLP (London, UK)

Patent groups of submitted applications	
UPD process	Patents describing the UPD process or a device used for the process
HPM	Patents protecting various nanoink formulations
Software	Patents protecting the solutions implemented in the software that controls the printing device
Application fields	Patents describing solutions to specific technological problems using the UPD method
Characterization and quality control	Patents related to the characterization and quality control of selected components of the printing head

Organizational structure well in place, adapted to strategic goals



Filip Granek (PhD)
Management Board
President, CEO, Founder



Jacek Olszański
Management Board
Member, CFO



Aneta Wiatrowska (PhD)
Director of Industrial
Projects, CTO



Martyna Alberska
Global Sales Director



Urs Berger
Managing Director of XTPL
Inc.



Patrycja Iwańska
Marketing Director



Dariusz Świderek
PMO Director



Szymon Zięba
Production and Customer
Service Director



Gniewomir Gordziej
Product Management Director



Piotr Kowalczewski (PhD)
IP Manager

~90 (~x2 YoY)

experts

Technology

Long-standing team with advanced **expertise and experience** in:

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

Business

Leaders and highly skilled professionals who possess **know-how and experience** in:

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

SUPERVISORY BOARD (SB): **Wiesław Rozłucki** SB Chairman, **Bartosz Wojciechowski** SB Deputy Chairman, **Agata Gładysz-Stańczyk** SB Member, **Beata Turlejska**, SB Member, **Herbert Wirth** SB Member, **Piotr Lembas** SB Member

An incentive program set up for members of the Management Board and senior management

Incentive program introduced on June 28, 2024

Financial targets for the Program to be achieved by the end of 2026:

- Revenues from the sale of products and services (excluding revenue from grants) **at PLN 100 million or more**
- EBITDA margin at the Company level (excluding the Incentive Program) **at 20% or higher**
- Earnings per share **of PLN 4* or more**

The Program will only be triggered if all the financial targets are achieved in one and the same performance year.

Details – incentive program:

- based on series B subscription warrants and new series W shares
- the Program might bring about changes in the proportions of shares held by shareholders.
- the total maximum pool of subscription warrants that can be granted under the program is 70,500, which will entitle their holders to take up 70,500 shares of the Issuer.
- the conditional increase in the share capital through the issue of series W shares has not yet been recorded in the register of entrepreneurs of the National Court Register.

* metric calculated as: net profit (without the effects of the Incentive Program or one-off events related to the revaluation of assets) divided by the sum of all shares

01

Financial results Q1-Q3 & Q3 2024

Financial results – summary Q1-Q3 & Q3 2024



* figures in PLN thousand

	Q1-Q3 2024	Q1-Q3 2023	Q3 2024	Q3 2023
Revenue from the sale of products and services	6,661	9,171	1,019	3,639
Grants (reimbursement and advances)*	596	2,700	154	1,300
Operating costs	24,916	13,242	8,647	4,868
EBITDA	-14,501	-1,201	-5,910	-368
Cash flows from operating activities	-16,761	-3,054	-8,223	-2,552
CAPEX	4,606	5,125	782	2,777
Net cash flows	-22,446	25,686	-9,182	28,755

	30.09.2024	30.06.2024
Cash position at the end of the period	4,829	14,011

Lower revenues from products and services YoY in Q1-Q3 2024 (-27.4%) and in Q3 2024 (-72.0%)

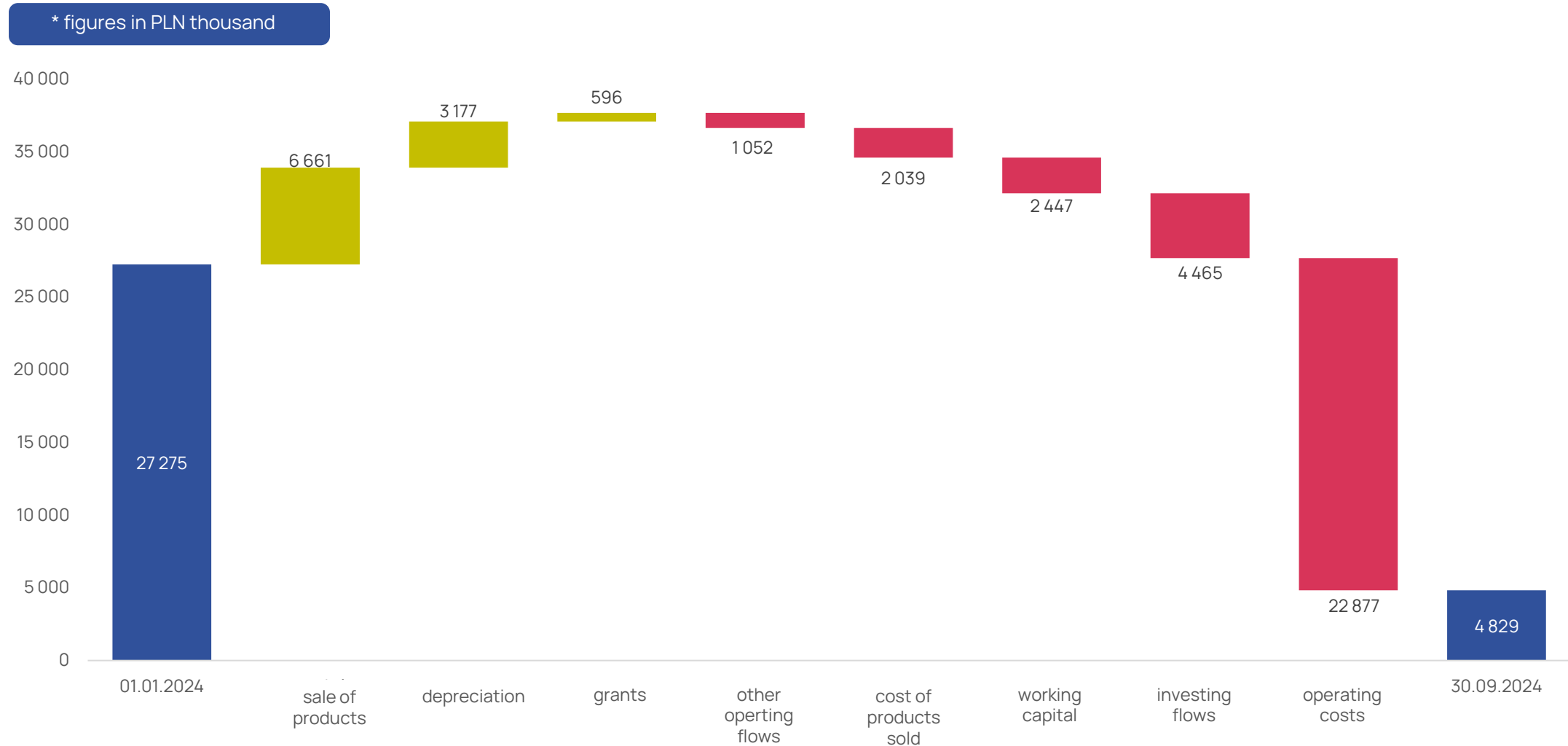
7 DPS devices delivered in Q1-Q3 2024

Implementation of a number of investment activities as part of stage 1 of the Strategy:

- Preparations for the launch of a Demo Center in Boston, USA, in Q4 2024
 - Increased marketing and sales activity, including participation in international industry conferences
 - Expenditure to manage the future growth of business, including:
 - An increase in production capacity and 2x shorter delivery time of DPS devices
 - Purchase of new laboratory and IT equipment
 - Lease of modern office and laboratory space
 - Deploying an ERP system to manage processes
 - Additional 4 DPSs for internal needs
 - Continuation of intensive R&D on the next generation of XTPL products, strengthened by setting up the new product department
- A strong increase in inventory (to PLN 5.0 million) – securing key components for the construction of devices; potential to generate sales up to PLN 12 million the following quarters

*In accordance with the policy on accounting for grants, only a part of the proceeds is recognized in the income statement, while the remainder is kept on the balance sheet as deferred income.

Cash flow - Q1-Q3 2024 summary



03

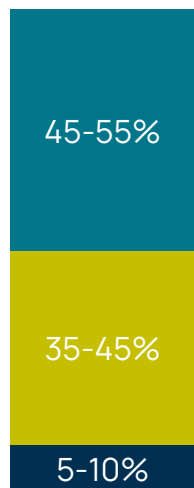
Outlook and Summary

A precise plan to execute the Strategy in the sales area

PLN 100 million in revenues from the sale of products and services by the end of 2026 on the back of a plan underpinned by precise sales activities in three business areas

Szacowny udział przychodów linii biznesowych

~100 mln PLN



- HPM / materiały eksploatacyjne
- DPS, DPS+
- Moduły

PLN 100 million in revenues from the sale of products and services

Modules for industrial implementation

Goal for 2026: sell approx. 100 modules – transition to industrial implementations with business partners

Pipeline: 9 industrial projects with a sales potential of approx. PLN 400 million annually on average over 8 years

Delta Printing System (DPS) and Delta Printing System+ (DPS+)

2026 target: 3-4 times increase in sales to approx. 20 DPS devices/year 30 DPS+ devices/year in the USA, Asia and Europe

Pipeline: approx. 80 leads in the sales funnel

High Performance Materials (nanoinks) and consumables

2026 target: ensuring business continuity for our clients

Growing service of modules, DPSs and development of sales of dedicated products for industrial partners

Implementation of a number of activities as part of stage 1 of the 2026 Strategy

The development Strategy is aimed at scaling XTPL up from a mature business with an R&D profile to a leading deep tech company specializing in ultra-precise nanoprinting technology that is being commercialized together with the world’s leading manufacturers of advanced electronics

Focus on business and sales development, as well as operational and organizational development

Sales

- Significant progress in industrial projects and a growing number of leads in the pipeline
- Intensification of sales and marketing activities:
- A business development team in place, including the Global Sales Director, Managing Director of XTPL Inc. and a person responsible for the APAC region
- Setting up a new Demo Center in the USA (Boston)
- Expanding the network of international distributors
- Growing presence at international conferences and trade fairs – more business meetings and sales opportunities

Production

- Increasing production capacity with a further gradual expansion planned
- 2-fold increase in the production of DPS devices, shortened lead time for customers

R&D

- Intensive work on the development of existing products
- Work on new products – strengthened by a new team responsible for managing current and prospective products and NPD (New Product Development)

Organization

- 2-fold increase in the team of high-class experts – about 90 employees – achieved the target organizational structure, aligned with strategic plans
- Implementation of new management systems, work under way to deploy new systems

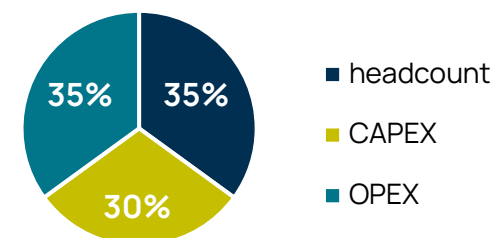
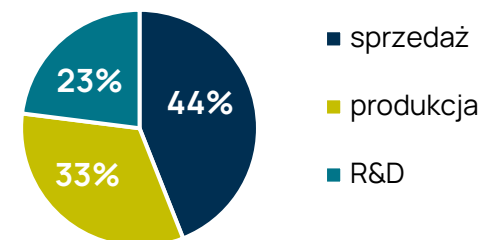
Continued implementation of the investment plan to implement the 2026 Strategy

An investment program of approx. PLN 60 million for 2023-2026 geared at rapid business development and support for the ambition to achieve a 10-fold increase in revenues from sales of products and services

Intensified investments in key areas for further growth	
Sales	<ul style="list-style-type: none"> Support for the sales and marketing team 3 demo & sales centers abroad in key locations, equipped with XTPL products
Production	<ul style="list-style-type: none"> 3-4 times increase in production capacity in DPS and HPM (nanoink) business lines Increasing the production capacity for industrial modules to approx. 100 modules/year (heads, nozzles, cartridges)
R&D	<ul style="list-style-type: none"> Continued work on the development of existing products Work on new products

The investment plan implementation will also drive a further increase (of 50-60%) in production post 2026.

Expected structure of investments planned (PLN 60 million), broken down by individual areas



Delivery plan for the final stage of the 2026 Strategy

1. October 17, 2024 The Management Board decided to secure funds of PLN 28-31 million gross through the issue of 300 thousand ordinary bearer shares to investors who meet the requirements specified in the issue resolution.
2. Extraordinary General Meeting to take place on November 18 this year.
3. The proceeds will strengthen further initiatives in the areas of:
 - sales
 - production and
 - R&D

Summary

XTPL is a global player in the rapidly growing printed electronics market, with a disruptive technology, an interdisciplinary team of experts, the ambition to increase commercial sales 10 times by the end of 2026 and the outlook for continued growth.



XTPL technology saves time, materials and reduces costs for **global manufacturers of advanced electronics**



9 commercial projects with global leaders in the electronics industry with a potential average annual value of about PLN 400 million when successfully implemented



Proven applications - semiconductors, displays, PCBs - attracting interest from many other segments, **USD 51 billion*** in total value of the advanced electronics market (7% CAGR in 2022-2026)



Strategy for 2023-2026 aiming at a 10x increase in revenues to PLN 100 million by the end of 2026, including the first industrial implementations



Investment program totalling approx. PLN 60 million, generating a production potential for up to **about PLN 160 million in annual sales**



A team of approx. 90 experts operating in an optimal structure with a dedicated sales department actively working on customer acquisition



*Source: IDTechEx, projected market value of USD 66 billion in 2026

Q&A

Disclaimer

This presentation has been prepared by XTPL S.A. (“**Company**”) for the sole purpose of giving an introduction on the business of the Company.

The presentation:

- contains selected information only, and is not a comprehensive description of business or financial analysis of the Company;
- is not to be taken to give business, financial projections, or forecasts for the Company;
- must not be taken to give any express or implied warranty as to accuracy or completeness of information in it by either the Company, or any members of the management, which will not now or in the future be responsible or liable for it;
- may contain forward-looking statements, which are not to be considered warranties relating to financial performance.

Neither the Company nor its representatives are obliged to provide further information, whether updates, corrections or otherwise, after the date of this presentation.

Any copying, distribution or dissemination of this presentation requires the Company's consent. Any person wishing to undertake the above activities in other jurisdictions must comply with applicable laws, which may further restrict those activities.

This presentation is not to be considered a solicitation, invitation, or offer, of any kind, whatsoever, by the Company or its representatives, to buy or sell any securities or related financial instruments of the Company, or any of the assets, business, or undertakings described in the presentation.

This presentation must not be treated as advice on law, taxation, accounting, investing or any financial instrument whatsoever.

The presentation is not an investment recommendation.

Thank you

XTPL S.A.
Stabłowicka 147
54-066 Wrocław, Poland
xtpl.com

Contact for investors:
investors@xtpl.com

Małgorzata Młynarska
Investor Relations Manager, cc group
malgorzata.mlynarska@ccgroup.pl
+48 697 613 709

Mardoniusz Mackowiak
Financial Communications Manager, cc group
mardoniusz.mackowiak@ccgroup.pl
+48 605 959 539

Further development of technology to keep the solutions unique – summary of Q1-Q3 2024

Key achievements and progress in research & development in Q1-Q3 2024:

- Development of high-concentration inks (pastes/HPM) based on copper and gold particles
- Filling vias in semiconductor structures with selected material, including controlled and efficient filling of microwells/ subpixels with quantum inks for uLED displays
- Significant printing automation related to mapping substrates with complex topography before printing and then importing the map to the device
- Adding the function of uploading letters from a CAD file to the DPS device to enable printing of texts
- Modifying the dot printing method to achieve printing frequency of 8 Hz
- Work on the implementation of projects within the NPD (New Product Development) process corresponding to the development roadmap of DPS devices, the UPD module and HPM materials.

The new Au90 product intended for printing in UPD technology and commercially available dispensers. TEM images of 50 nm gold nanoparticles and prints of conductive microlines.

