

# **FULL YEAR RESULTS 2022**

Investor Presentation – April 2023

Intelligent Data processing, from Cloud to Edge

www.kalrayinc.com

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#### THE SPEAKERS







**25 years'** experience as senior executive for major telecom (Alcatel-Lucent) and electronics (Texas Instruments) groups, startup director.

Founder and CEO of Open-Plug (2002): high-tech firm sold to Alcatel-Lucent in 2010.

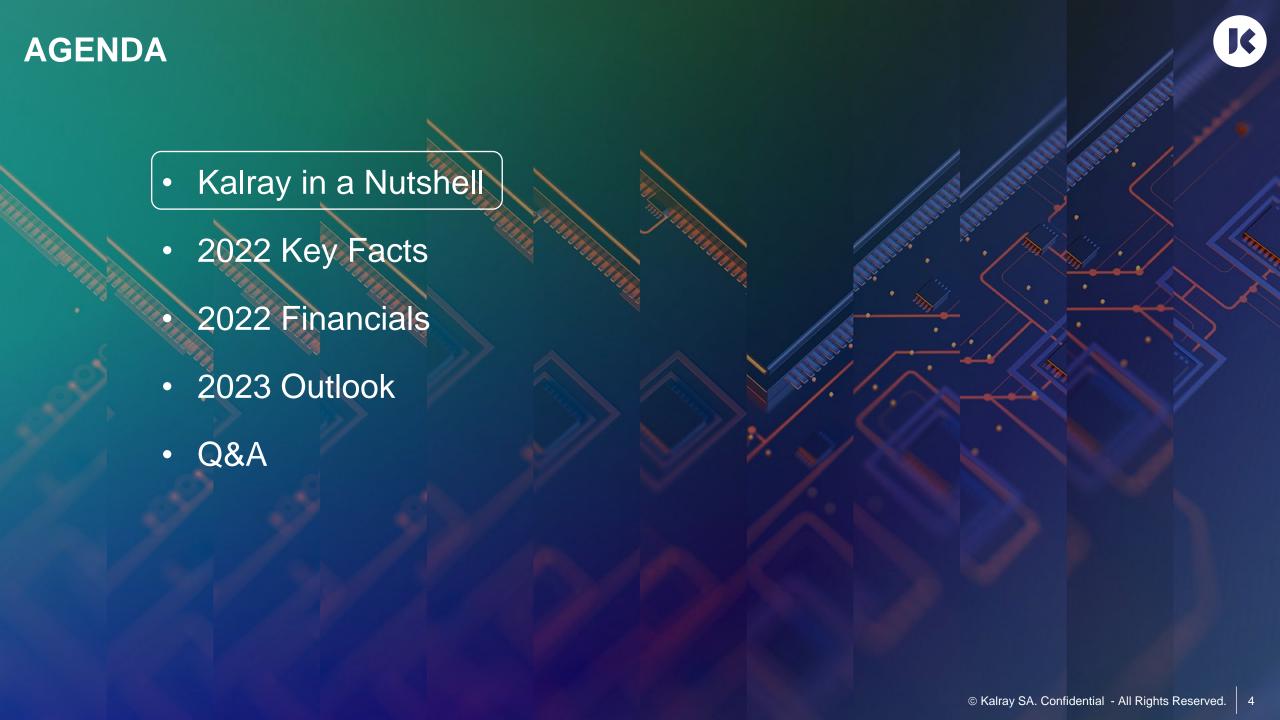




**Denis Scherrer**Chief Financial Officer

**30** years of experience in finance, accounting, audit and business operations in semiconductor (Siemens, Memscap, Soitec), Telecom and facility management (Sodexo).





#### KALRAY IN A NUTSHELL





Intelligent Data Processing, from Cloud to Edge

Kalray offers a new type of **processor** (DPU<sup>1</sup>) and **solutions** targeting the booming markets of **data-intensive** applications

## LEADER IN MANYCORE DPU TECHNOLOGY

3rd

+ €180m

30

Generation of MPPA® processor

R&D investment Patent families

#### **A GLOBAL PRESENCE**



## LEADING CUSTOMERS & PARTNERS







#### **INDUSTRIAL INVESTORS**









## A FAST-GROWING LISTED COMPANY



# A COMPLETE OFFER FOR DATA-INTENSIVE APPLICATIONS

From Chips to Software Solutions



**KALRAY** 

THE POWER OF MORE



**PCIe Cards** 



Reference Solutions



MPPA® DPU Processors





Data Management & Storage Software Solutions



# PROCESS DATA, SMARTER, MORE EFFICIENTLY & SECURELY, NO MATTER WHERE THEY RESIDE

### **DATA-INTENSIVE APPLICATIONS ARE EVERYWHERE**





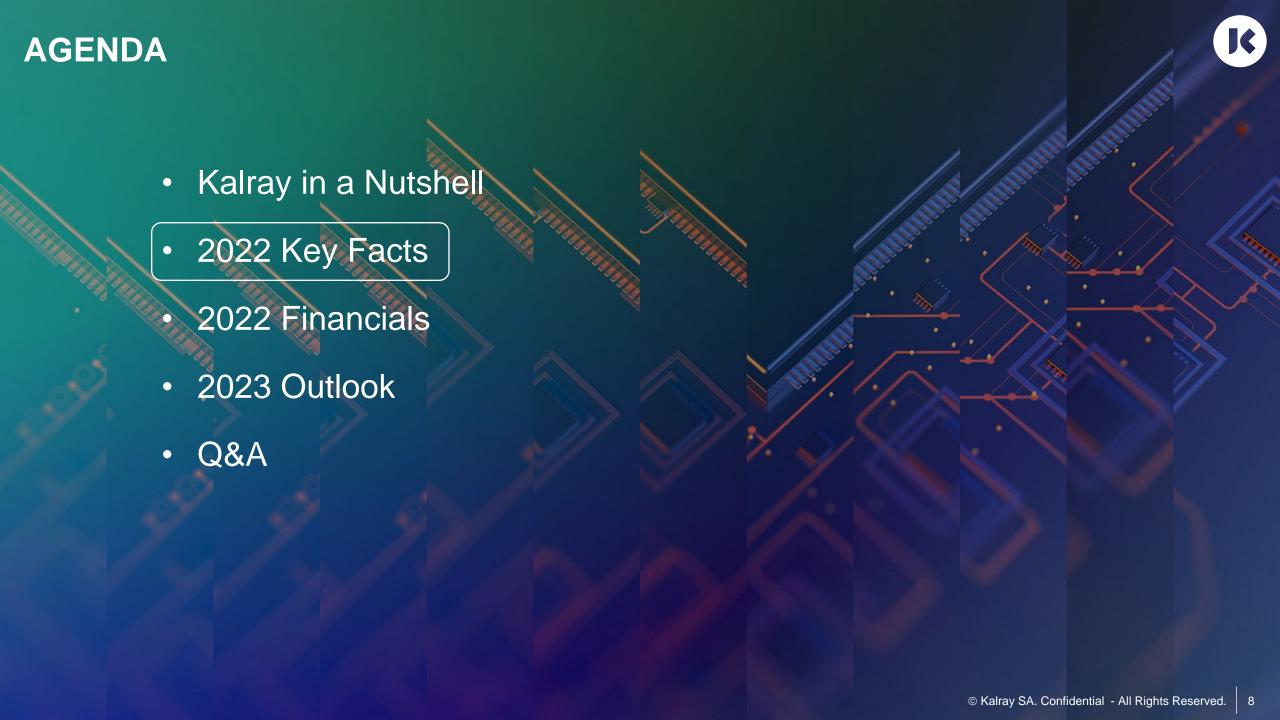














# 2022 A CHANGE IN DIMENSION



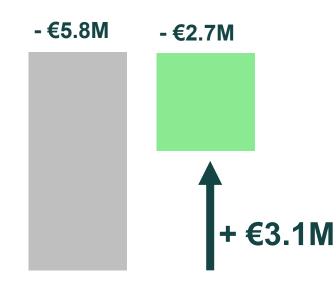
## RECORD REVENUE IN 2022 STRONG EBITDA IMPROVEMENT



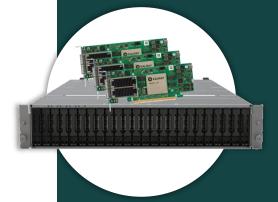
Consolidated Revenue (1)



Consolidated EBITDA (1)



Kalray K200-LP™ Acceleration cards

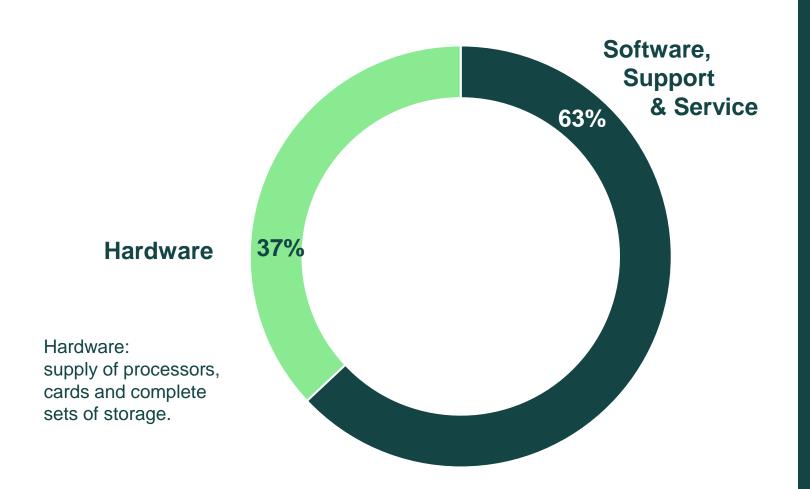


**Kalray Flashbox**<sup>™</sup>
Storage appliances

Software Solutions Kalray pixstor™ & ngenea®

## REVENUE BREAKDOWN

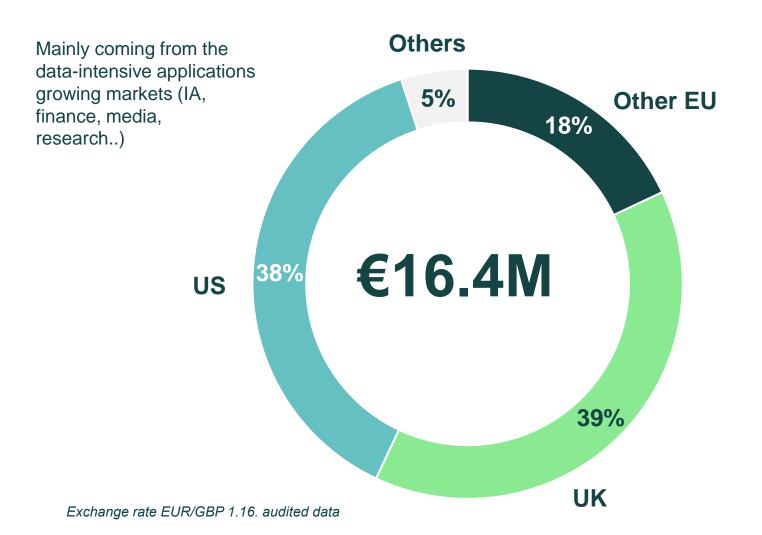




# STORAGE MARKET, WELL BALANCED HARDWARE AND SOFTWARE

### REVENUE BREAKDOWN

Consolidated Revenue by Geographic Areas





# A BALANCED BREAKDOWN IN GEOGRAPHICAL AREAS (EU AND NON EU)



# 2

## A FIRST "JUMBO" CONTRACT SIGNED



Design-in contract signed with a MAJOR INTERNATIONAL COMPANY



A potential of several TENS OF MILLIONS € / YEAR over several years



# A GLOBAL PARTNERSHIP WITH DELL TECHNOLOGIES

#### DELL ETC PROGRAM

Kalray joined the selective **Extended Technologies Complete (ETC)**Dell Technologies program as a **Core Partner** (10 key partners worldwide)

HPC & UDS DELL DIVISIONS
 Kalray solutions (ngenea<sup>®</sup> and pixstor<sup>™</sup>) are promoted by 2 Dell's storage divisions (HPC & UDS)

RESELLING AGREEMENT
 Reselling agreement of Kalray solutions in place



# COLLABORATION WITH THE LEADING STORAGE COMPANY WORLDWIDE



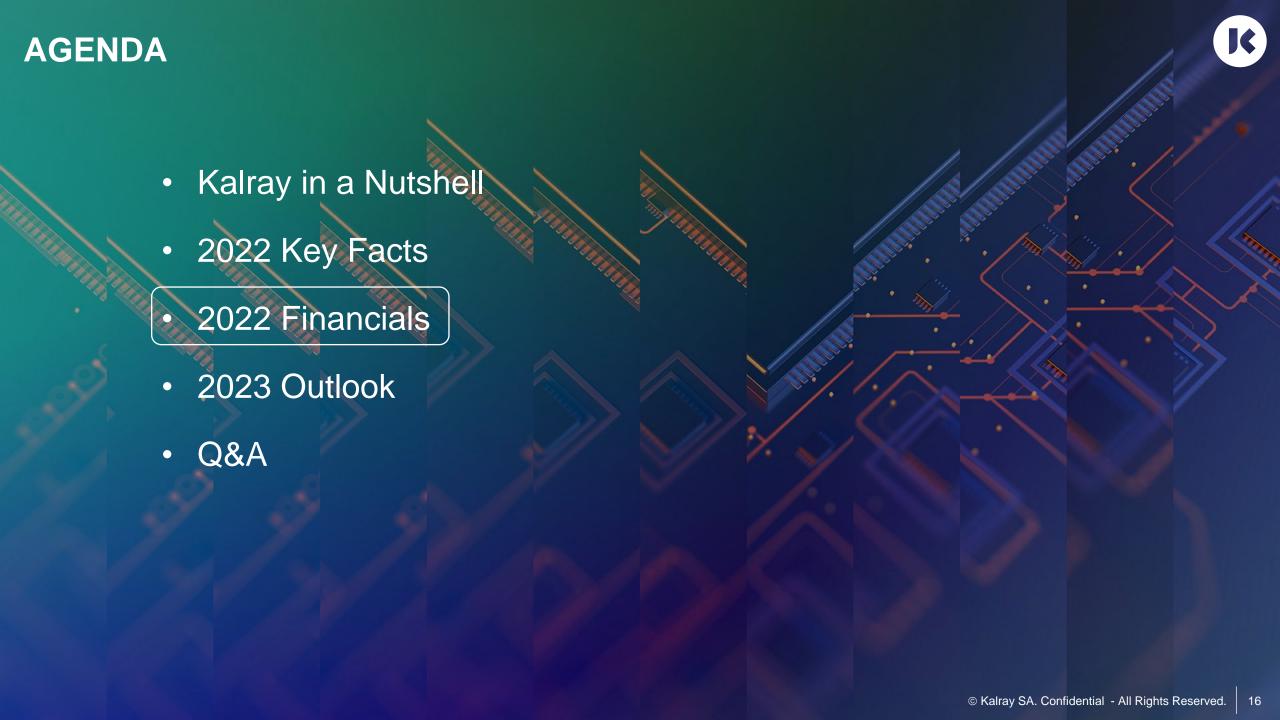
# BUSINESS TEAM GROWTH

- 50+ PEOPLE FOR SALES, PRE-SALES AND SUPPORT
   Arcapix sales team fully integrated into the organization
- STRONGER PRESENCE IN US
   Dozen of people in US
- CAPABILITY TO LEVERAGE INTEGRATORS AND DISTRIBUTORS

179 EMPLOYEES (Dec. 31, 2022)



# A STRONG BUSINESS FORCE, A GLOBAL PRESENCE



### INCOME STATEMENT – 2022 (1)



#### Audited data

Consolidated data – (€000)	2021	2022	Var.%
Net Sales	1,454	16,414	+1029%
Subsidies	2,425	2,280	-6%
R&D capitalization	8,323	11,753	+41%
Other revenue	134	249	+86%
TOTAL REVENUE	12,336	30,696	149%
Cost of sales	(522)	(7,221)	+1282%
Operating expenses	(17,585)	(26,153)	+49%
including Salaries & contributions	(9,470)	(16,340)	+73%
including other expenses	(8,115)	(9,813)	+21%
EBITDA	(5,771)	(2,678)	-54%
Amortization & Depreciation	(12,852)	(16,953)	+32%
OPERATING RESULT	(18,623)	(19,631)	+5%
Research Tax Credit	3,613	4,049	+12%
NET OPERATING RESULT*	(15,010)	(15,582)	-4%
FINANCIAL RESULT	(105)	187	-278%
EXCEPTIONNAL RESULT	-	(153)	-
NET RESULT	(15,115)	(15,548)	-3%

# Strong increase in consolidated revenue and improvement of EBITDA

Increase in capitalized production : continuous R&D effort (Coolidge™2 and ngenea®2)

Gross margin on Net Sales: 56%

+73% in headcount expenses — include Arcapix' employees — 179 employees at end December 2022 (versus 103 at the end of December 2021.

reflecting the ongoing investments during the last 3 years

#### **CASH FLOW STATEMENT - 2022**



#### Consolidated and Audited data

REPORTING CASHFLOW in K€	ACTUAL FY 2021	ACTUAL FY 2022
Gross Margin	932	7 062
Opex	(17 585)	(26 153)
R&D subsidies (operating & investment)	1 871	1 888
Change in WC (except. Tax credit and plan)	(712)	886
Tax credit (net)	2 703	1 958
Plan (suppliers) & CEA reimbt	(722)	(721)
OPERATING CASHFLOW	(13 513)	(15 080)
Capex (excl. Capitalized R&D)	(5 359)	(2 901)
FREE CASH-FLOW	(18 872)	(17 981)
Net Cash from investors	11 124	36 675
Bank net	(247)	1 282
Refundable advances (net)	(21)	-
FINANCING CASH FLOW	10 856	37 957
Annual Cash in (Cash out)	(8 016)	19 976
Cash beginning of period	20 238	12 222
CASH END OF PERIOD	12 222	32 198

No Tape-Out in 2022 – mainly Coolidge™2, and Coolidge™ 1 qualificatin and productization expenses

Including the €24.4M€ increase in capital, €8.9 M convertibles bonds and the balance from 2021 equity line

32.2M€

Strong cash position at end 2022

### **BALANCE SHEET 2022**



#### Audited data

Audited data					- $(1)$	Including Arcapix goodwill (€13.8M) as well	
ASSETS (K€)	As of 31/12/21	As of 31/12/22	LIABILITIES & EQUITY (K€)	As of 31/12/21	As of 31/12/22		as IP's and Developments for a net value o 15,225K€
Intangible assets	19,461	38,129 1				_	Including CIR 2022 (4,049K€) and Prepaid
Incl. Arcapix		13,762				(2)	subsidies (2,978 K€)
Tangible assets	4,764	3,131	EQUITY	25,627	47,707	•—	Including increase in capital of €24.4M.+
Financial assets	698	373	Provisions	124	427	_	8M convertible bonds / Reduction of nominal value from €10 to €1
NON CURRENT ASSETS	24,923	41,633	R&D refundable advances	6,286	6,309		- €4,585K bank loans (PGE)
Inventories	229	2,065	Bank and convertible loans	5,326	6,665 •		- €4,585K bank loans (PGE) - €2,066 convertibles bonds (max. potential dilution 1.6%)
Accounts Receivable	1,095	3,273	Accounts Payable	2,628	5,817		"Other debts" includes €14 137 K
Other receivable (CIR, Subsidies)	3,980	7,027 2	Taxes & contributions payable	1,298	3,065 15,923 •		corresponding to Arcapix's sellers price complement , which will be repaid exclusively in shares (fixed number of
Cash	12,222	32,198	Other debts	47			391,386 shares to be issued over the next 4 years). 1 tranche of 73,384 shares to be
CURRENT ASSETS	17,526	44,563	DEBTS & LIABILITIES	15,709	38,206		issued on April 2023 (max dilution will be 4%)
Accrued expenses	831	1,439	Subsidies deferred revenue	1,944	1,722	•—	Deferred revenues from prior year subsidies and Maintenance contracts
TOTAL ASSETS	43,280	87,635	TOTAL LIABILITIES & EQUITY	43,280	87,635	deferred revenues (1.4M€)	

Consolidated data (K€)

## STRONG INVOLVEMENT IN EUROPEAN **COLLABORATIVE PROJECTS**







Aims to develop the next generation MPPA® Coolidge™ processor (Coolidge2) - 2020-2022 Funding: 3.7 M€















Co-development of a new type of 5G server, optimized in term of flexibility, performance and power consumption – Funding: 2.5 M€

3 5G-OPERA PROJECT



French & Germany project covering 5G private networks - Funding: 0.6 M€



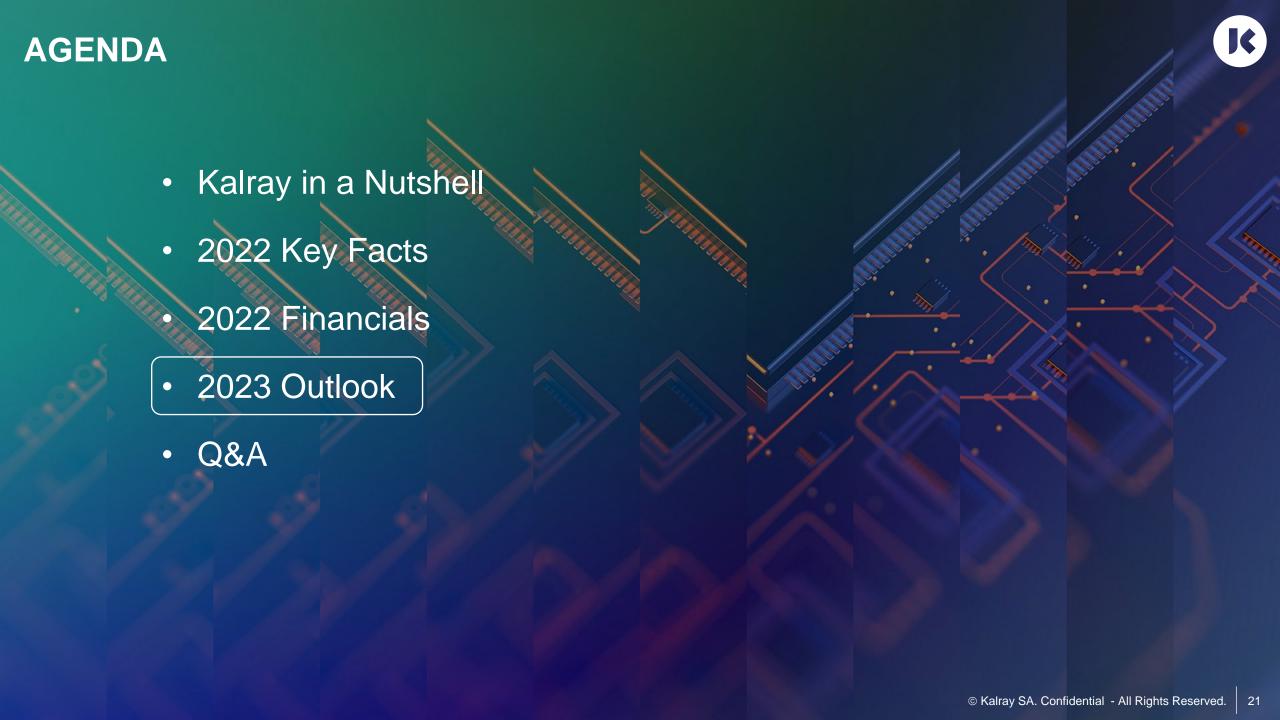


For the development of future generations of microprocessors – 2022-2024 Funding: 1.1 M€





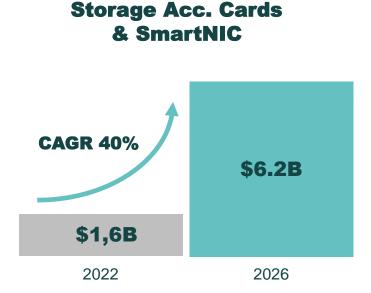
## **EUROPEAN PROJECTS, VISIBILITY AND EXTERNAL FINANCING FOR KALRAY**



#### A WIDE MARKET TO CONQUER: DPU-BASED SOLUTIONS

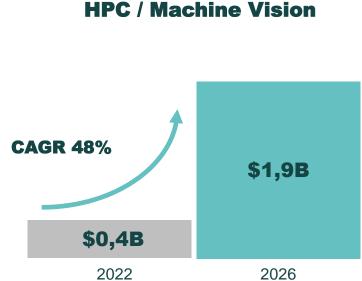


Acceleration and Offload Cards: Markets Are Fast Growing and Moving to DPUs





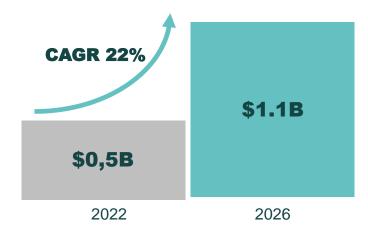
- Virtual Networking Functions
- New Protocols e.g. NVMe
- Service offload





 Demand for more and more Al/Machine Learning & Data Processing





- Telecom Infra Revolution
- Open RAN
- Host Processor offload
- Performance per W and per \$



# 2023

# A NEW MAJOR STEP IN BUILDING A LEADING HIGHLY PROFITABLE BUSINESS IN THE FAST-GROWING MARKET OF DATA PROCESSING.

#### 2023 KEY OBJECTIVES



# **BUSINESS GROWTH**

- Strategic deals
- **€40M** revenue

#### **TEAM**

- Top exec team
- Increase of Sales + Operations

#### **OFFER**

- A targeted comprehensive SW & HW offer
- Launch of ngenea®2 & Coolidge™2

### **IMPROVEMENT OF EBITDA**



# BUSINESS GROWTH 3 FOCUS





# MAJOR CONTRACT SIGNATURES & DEPLOYMENT OF EXISTING CONTRACT



In Storage, Smart Vision/AI and 5G







Machine Vision/Al

5G Telecom



# A GLOBAL PARTNERSHIP WITH DELL TECHNOLOGIES

#### DELL ETC PROGRAM

Kalray joined the selective **Extended Technologies Complete (ETC)**Dell Technologies program as a **Core Partner** (10 key partners worldwide) in H2 2022

- HPC & UDS DELL DIVISIONS
  - Kalray solutions (ngenea® and pixstor™) are now promoted by 2 Dell's storage divisions (HPC & UDS)
- **RESELLING AGREEMENT**Reselling agreement of Kalray solutions in place
- SEVERAL MILLIONS OF SALES ALREADY FUNNEL GROWING RAPIDLY IN US AND EUROPE WITH SIGNIFICANT IMPACT EXPECTED H2 THIS YEAR



# A STRATEGIC PARTNERSHIP TO SCALE-UP FAST OUR BUSINESS

### MEDIA MARKET: ONE OF THE MOST DYNAMIC...





... AND ADVANCED MARKET IN INTENSIVE DATA WORKLOADS



# RECRUITMENT: GLOBAL EXEC, SALES, PRE-SALES AND OPERATIONS TEAMS





## PRODUCT STRATEGY

# BUILD ADDED-VALUE FOR END-USERS AND EASE OF ADOPTION ON SPECIFIC SEGMENTS RATHER THAN RAW TECHNOLOGY

# pixitmedia. A Kalray Company BREAKING NAB SHOW **ANNOUNCING NGENEA2** APRIL 13, 2023

### COOLIDGE™2: FIRST SAMPLES THIS SUMMER

More Performance, Less Power Consumption, Fine Tuned for our Targeted Markets



2 EDGE COMPUTING



**Enterprises** 



Private Data Centers



Cloud Service Providers



Machine Vision & Al



5G Telecom

#### WHY





#### NOW?

#### **MARKET IS NOW**

Data is everywhere – successfull companies will be those that can leverage massive flow of data and process it effectively.

#### **PRODUCT IS NOW**

Current DPU generation is in production.

Complementary mix of hardware & software.

New product generation to be launched in 2023.

#### **PARTNERSHIPS IN PLACE**

Strategic partnership with Dell and other major players in the industry.

# FIRST CONTRACT WITH MAJOR COMPANY SIGNED

NASDAQ leading company.





### **Q&A SESSION**





**MICROSOFT TEAMS** 

\_\_\_

"Hands Up" button



Keys " \* " then " 6 "

# THANK YOU

KALRAY
THE POWER OF MORE

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# **APPENDICES**



# **AGENDA**



## KALRAY STOCK MARKET DATA

#### **STOCK EXCHANGE**

• Market: Euronext Growth

• Name: KALRAY

• **ISIN code**: FR0010722819

• Ticker symbol: ALKAL

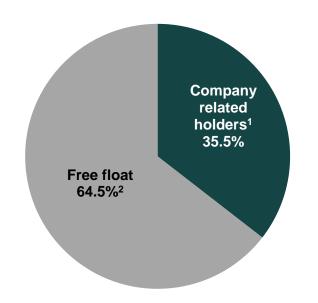
• Share price: €18.26 (at 14/04/2023)

• Number of shares: 8,236,649 (31/03/2023)

• Market capitalization: €150.4 M (at 14/04/2023)







1 including Alliance Ventures, CEA Investissement, MBDA, NXP, Safran Corporate Ventures, Definvest (Bpifrance), PENGPAI France ... 2 Euronext definition

# **2023 KEY PRIORITIES**

Growth Drivers - 2 Main Areas

1 STORAGE MARKET





**Enterprises** 



Private Data Centers



Cloud Service Providers





Machine Vision



5G Telecom



**Automotive** 

# **GO-TO-MARKET STRATEGY IN PLACE**



A Dedicated Approach per Customer Tier

"EXPERT"
CUSTOMERS

**NEEDS** 



**SPECIFICITIES** 

- Require proof points to engage
- Long sales cycle (1 to 2 years)
- High credibility and financial visibility required

DEAL SIZE

Deal size of several 10M\$/year

"SOLUTION"
CUSTOMERS



- Require complete solutions, easy to adopt (cards, box and software)
- Hardware usage must be transparent to users
- Solid hardware support

Deal size of several hundreds and M\$/year

# A MATURE PRODUCT AND TECHNOLOGY





#### **BUILT FOR HIGH VOLUMES** & HIGH-QUALITY PRODUCTS

- Fabless model fully scalable
- Qualified Global Supply Chain
- Support highly demanding customers in Automotive & Aerospace
- Partnership with NXP on safety-centric systems and technologies





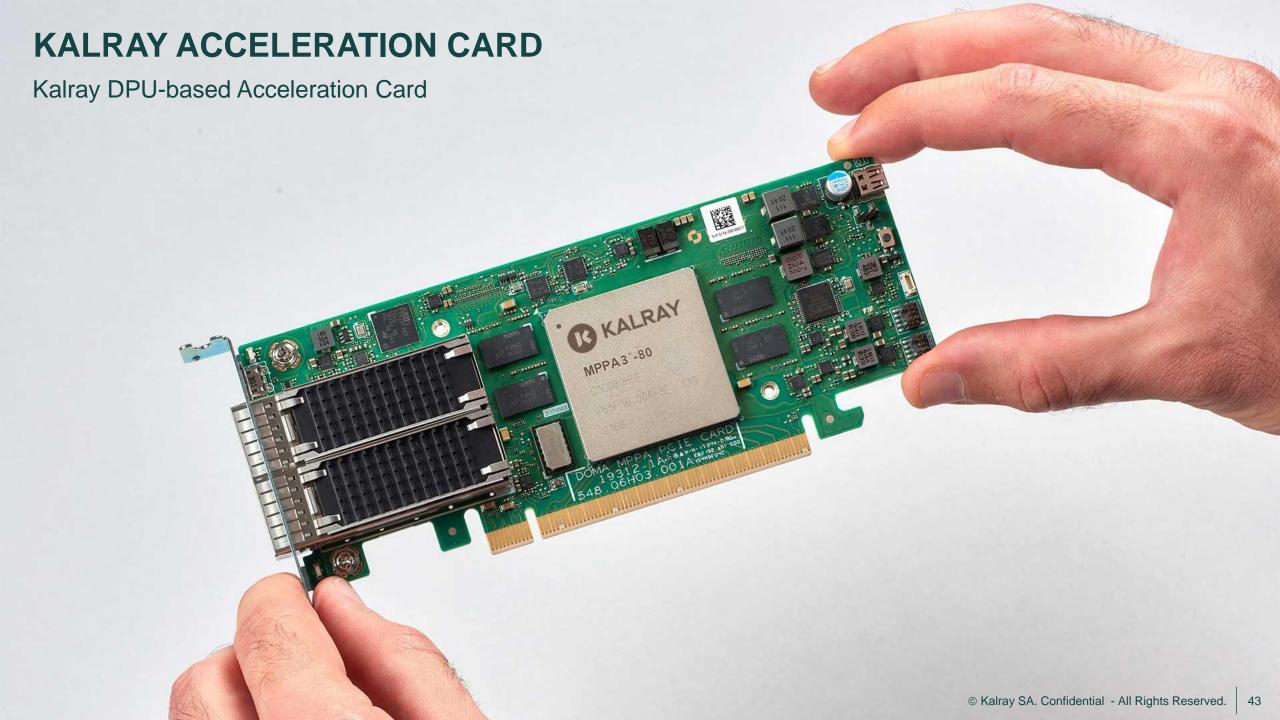












# KALRAY DPU

K

At the Heart of Kalray Unique Data Efficiency

# Kalray DPU: "Best Technology & Roadmap"

#### **ENRICO SIGNORETTI**

Research Analyst





# Kalray, the leading DPU company



#### **Wikipedia - DPU Processor**

"A data processing unit (DPU) is a programmable specialized electronic circuit with hardware acceleration of data processing for data-centric computing."

#### DPU vendors & product lines include:

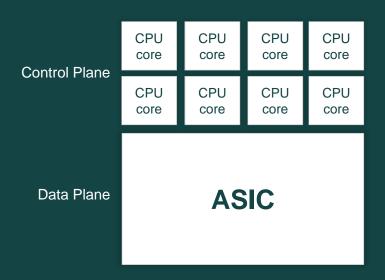
- AMD/Pensando: Capri, Elba & DSC<sup>[14][4]</sup>
- Broadcom: Stingray<sup>[15]</sup>
- Fungible: F & S Series<sup>[16]</sup>
- Intel: Infrastructure Processing Unit (IPU)<sup>[17]</sup>
- Kalray: Kalray K200-LP<sup>[18]</sup>
  - Marvell Technology: OCTEON and ARMADA<sup>[19]</sup>
  - Nvidia/Mellanox Technologies: BlueField, ConnectX, Innova<sup>[20]</sup>

# **KALRAY DPU**

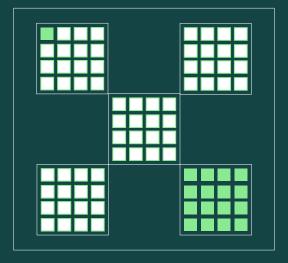


## Unique Technology, Most Advanced DPU on the Market, Result of 10 Years of Development

#### **USUAL APPROACH**









- A few power-hungry RISC CPU cores
- CPU flexibility limited to control plane
- Data plane is "hardwired" –
   No new services / no possible evolution!

- **80** highly efficient VLIW fully programmable independent **CPU** cores,
- Gathered into 5 clusters
- Connected to high-speed fabrics
   & high-speed interfaces.



# KALRAY POSITIONING VS COMPETITION

Cost-Optimized for Intelligent Data Processing



Easily programmable (open standards)

Cost Efficiency

Performance scalability

Heterogenous processing DSP function support

Low latency, real-time, deterministic

MPPA® DPU	FPGA	GPU
✓	$\checkmark$	$\checkmark$
✓	X	✓
✓	X	X
✓	X	-
✓	X	X
✓	✓	X







Low Latency / Deterministic / Real-Time





Heterogeneous Parallel Multi-Processing







**Efficiency** 







Easily Programmable – Standard Languages



# MORE ABOUT THIS CONTRACT



#### **Customer Profile**

- Over 100B\$ valuation
- Several tens B\$ revenue in 2021

#### **Customer Needs**

- Highly efficient data processing solution for next generation systems
- Key KPIs:
  - Performance / \$
  - Signal Processing and AI capabilities

#### Solution

 Kalray acceleration cards with 4 Coolidge chips

#### **Potential deal Size**

- Expected volume : several thousand cards / year
- Life of the project minimum : volume production from 2025 for 5 years minimum

# Kalray 3x to 5x

more efficient in performance / \$ and performance / consumption vs main competitor

100M€+
Total deal Size

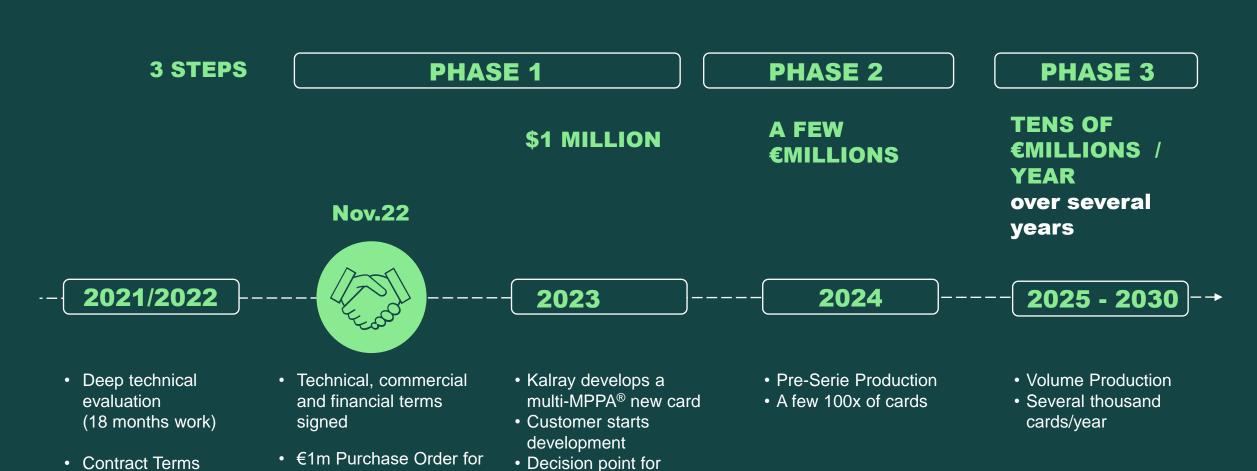
# **HOW SUCH A CONTRACT WORKS?**

2023

negociation



Strong Milestones – Main Risk Is Behind Us (Technology, financial and Commercial Terms)



Pre-Serie Production once card available

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## FINANCIALS - INTRODUCTION



1<sup>st</sup> Year of Integration of Arcapix

## SUPPORT KALRAY'S STRATEGY

- Increases growth & value around Kalray processors,
- Accelerates the time-tomarket of the technology and products
- Takes advantage of crossselling opportunities.

# COMPLETED ON APRIL 15, 2022

 Transaction mainly in shares approved by Kalray's extraordinary general meeting of shareholders.

### DEAL STRUCTURE

- €883 548 cash consideration and cash adjustment (4 063 K€) taken out of Arcapix available cash at closing.
- 73,384 shares issued to the sellers
- Over 3 years, up to 391,386 additional shares
  - To be paid in several installments over 3 years
  - Depending in particular on the presence of the founders and the achievement of business objectives.
- The price per Kalray share for the transaction has been set at €36.12 (VWAP 180 days preceding the signing of the term-sheet relating to the transaction).

# A RECOGNIZED TOP TECHNOLOGY: X5 PERF / \$



