

2020 Results

Kalray MPPA[®]

The Processor at the Heart of New Intelligent Systems

April 20th, 2021

www.kalrayinc.com

THE SPEAKERS



Eric Baissus Executive Board Chairman

20 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.





Anne Gabrot CFO

20 years' experience as CFO for major telecom groups and tech startups.





Agenda

Kalray in a Nutshell
2020 Financials
Business Outlook
Q&A



KALRAY IN A NUTSHELL



Financial investors: CEA Investissement, Bpifrance, ACE, INOCAP Gestion, Pengpai



2020 KEY FACTS

BUSINESS	FINANCIAL		
Finalized the developments of Coolidge [™] -based solutions	2020 in line with expectation Secured new funding in order to maintain a high level		
Customer solutions under development	of technological investments		
First customer products announced	Maintained a particularly healthy financial situation		

ENVIRONMENT

Managed the COVID-19 situation with focus on minimized impact on product development

Booming semiconductor market due to growing structural needs



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Annual results in line with expectations

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REVENUE 2020 & CASH MANAGEMENT

IN LINE WITH EXPECTATIONS

- 2020 sales revenues (€1.0M) similar as 2019, as volume production not yet started
- OPEX growth lower than forecasted (+10%) & EBITDA comparable to previous year (-5%)

CASH POSITION

- Good management of free-cash flow
- Strengthened financial structure : + €8M strategic investment from NXP + €5M of State Guaranteed Ioan (PGE) + €5.2M from private placement (ABB)
- Cash position at €20.2M (vs €15.7M end 2019)

MANAGEMENT OF THE COVID-19 CRISIS

- Efficient organization home office and rotations
- Focus on digital communication & events for business development

HR

- No partial unemployment
- Continuous investment in human resources:
 - + 10 people in 2020, mainly for engineering and support positions, despite full remote organization



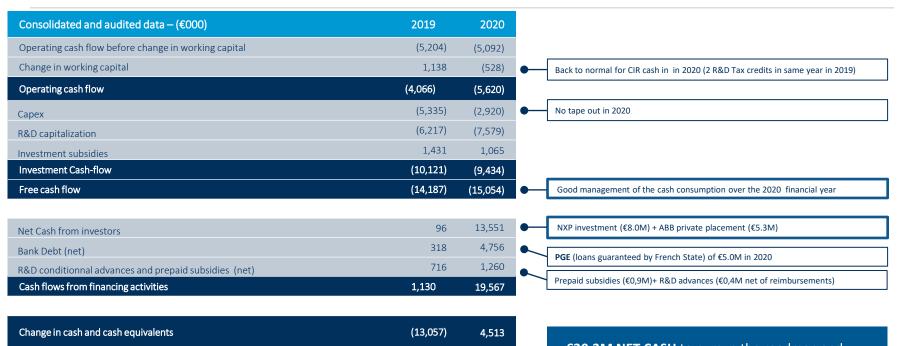
INCOME STATEMENT - 2020

onsolidated and audited data – (€000)	2019	2020	Sale of boards and development platforms to custome
et sales	1,265	1,033	development phases Licenses & services : €690K (€980K in 2019) + Products
apitalized production (R&D)	6,217	7,579	
Subsidies	1,942	2,127	Increase in capitalized production due to R&D devlopm
Other revenue	142	17	
OTAL REVENUE	9,566	10,756	+17% increase in headcount expenses
Cost of sales	(257)	(307)	
Operating expenses	(14,871)	(16,311)	Average 2020 headcount increased of +14% (from 76 in 2019 to 86 in 2020). 90 employees at end 2020.
of which Salaries and social contributions	(7,932)	(9,257)	
f which other operating expenses	(6,939)	(7,054)	Flat "other expenses"
BITDA	(5,562)	(5,862)	Control of onsite subcontractors' expenses Reduction of travel expenses due to Covid-19 crisis
epreciation and amortization expenses	(5,867)	(8,818)	•
perating profit/(loss)	(11,429)	(14,680)	Up €2.9M. Full year of amortization for Coolidge [™] developments (€6.6M) and masks (€1.2M)
Research tax credit (CIR)	2,415	2,993	
Adjusted operating profit/(loss)*	(9,014)	(11,687)	4
inancial income/(loss)	3	(110)	
xceptional income/(loss)	(74)	(22)	Stable EBITDA
Net profit/(loss)	(9,085)	(11,818)	

* Adjusted operating result = operating result + research tax credit



CASH FLOW STATEMENT - 2020



28,782

15,725

 €20.2M NET CASH to pursue the roadmap and Coolidge[™] go to market

Opening cash balance

Closing cash balance

BALANCE SHEET 2020

ASSETS (K€)	as of 31/12/19	As of 31/12/20	LIABILITIES & EQUITY (K€)	as of 31/12/19	As of 31/12/20	1 Including Coolidge [™] for €18,6 M
Intangible assets	16,935	19,115 1				
Tangible assets	4,673	4,286 2	EQUITY	26,665	28,434	2 Including Coolidge [™] mask set for €2.5M
Financial assets	609	620 3	Provisions	89	112	3 CIR prefinancing guarantees & cash on liquidity contract
NON CURRENT ASSETS	22,217	24 020	R&D refundable advances	5,904	6,306	
Inventories	240	134	Bank loans	775	5,531	۹ [
Accounts Receivable	764	526	Accounts Payable	3,128	2,776	PGE (loans guaranteed by French State) of €5.0M in 2020
Other receivable (CIR, Subsidies)	1,779	2,165	Taxes & contributions payable	1,549	1,487	Amortizable over 4 years starting in 2022
Cash	15,725	20,238	Other debts	354	124	
CURRENT ASSETS	18,508	23,063	DEBTS & LIABILITIES	11,799	16,336	
Accrued expenses	414	420	Deferred revenue (Subsidies)	2,676	2,734	
TOTALASSETS	41,140	47,503	TOTAL LIABILITIES & EQUITY	41,140	47,503	

Consolidated and audited data (K€)



FINANCIAL OBJECTIVES FOR 2021 2021, on the way to production ramp-up



TARGET : 7 €100M IN FY 2023



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2021 – THE "KALRAY INSIDE"YEAR





Automotive

MPPA[®]

The Processor at the Heart of Intelligent Systems



NXP ANNOUNCED THE BLUEBOX 3.0 with "KALRAY INSIDE" at CES 2021



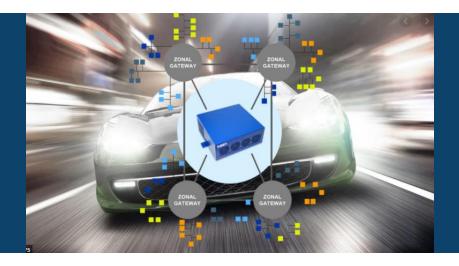
BLUEBOX 3.0

Automotive High Performance Compute Platform

TO ADDRESS VEHICLE ARCHITECTURE TRANSFORMATION

- High performance compute
- Advanced Driver-Assistance Systems (ADAS) & Autonomous Driving (AD)
- Safety
- Flexible and easy prototyping
- Increased performance







KALRAY STRATEGY IN AUTOMOTIVE INDUSTRY WITH NXP How to Scale with our NXP Partner





SOFTWARE PARTNERS



OEMs & TIER1



KALRAY AT THE HEART OF THE AUTOMOTIVE LEADER NXP'S BLUEBOX 3.0 Co-development Insured By Kalray & NXP

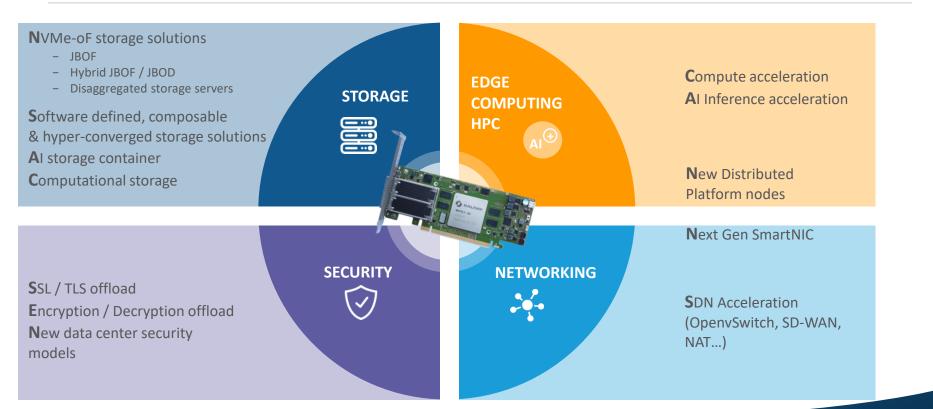
Data Center

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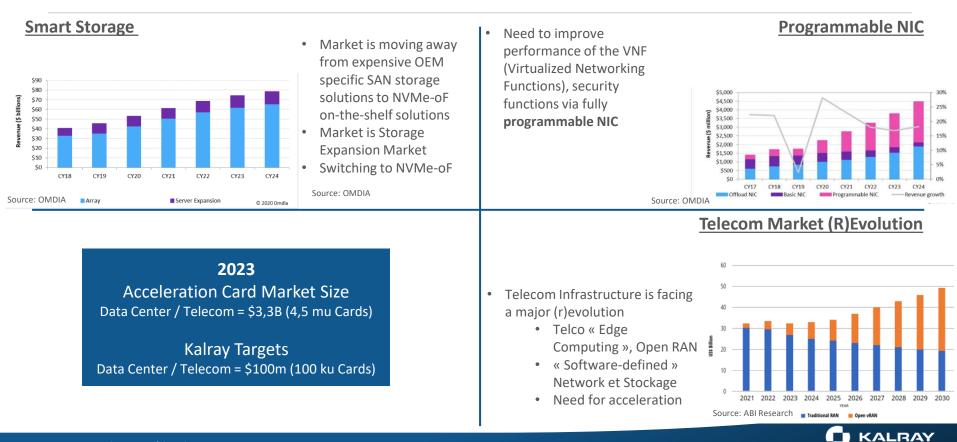


KALRAY MULTI-PURPOSE ACCELERATION CARD A Single Card for Intensive Workload in Data Centers





KALRAY MARKET FORECAST (SAM)

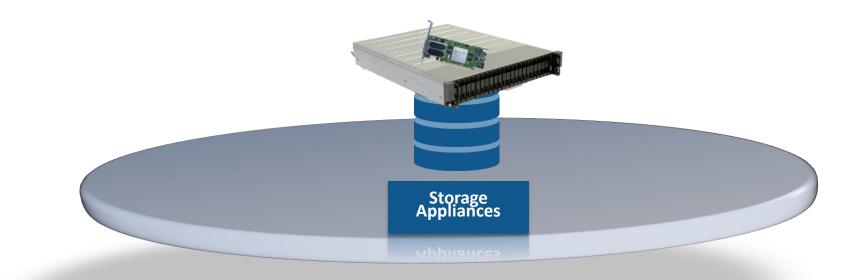


KALRAY SMART STORAGE ADAPTER





KALRAY SMART STORAGE OFFER Storage Appliance Offer





FURIO1200[™] The First "KALRAY INSIDE" Server Available on the Market



FURIO1200[™]

Co-developed by Kalray & Wistron



Coolidge-based – no need of x86 1 to 6 K200 Cards



Ultra-fast : 12MIOPS / 72 GBs



High Capacity : 24 U2 SSDs



NVMe-oF compliant – TCP & RoCE



Support of in-line data services (data protection, encryption, ...)



Open and Upgradable



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FURIO1200[™] Best in Class NVMe-based Flash Array

	FURIO1200™	Best Current Generation
DPU	Kalray MPPA	N/A
NUMBER OF DPU	2 to 6	N/A
ARCHITECTURE	Scale up, out	Fixed
MEDIA	NVMe SSD	SAS SSD NVMe SSD
HOST SUPPORT	NVMe-oF/TCP NVMe-oF/RoCE	NVMe-oF/RoCE NVMe/FC IB, FC, iSCSI
HOST PORTS	12 x 100 Gb/s	8 x 100 Gb/s
END TO END NVMe	yes	no
IOPS (in millions)	12	2
LATENCY (us) - ROCE	20us	100+ us
LATENCY (us) - TCP	50us	Not Supported
BANDWIDTH (GB/s)	72	44
DATA PROTECTION	Erasure Coding / RAID	RAID
MANAGEMENT	Rest API	Proprietary
PROGRAMMABLE / FRAMEWORK	Yes / SPDK	No
IOPS / WATT	16,000 (IOPS/WATT)	2,040 (IOPS/WATT)



KEY BENEFITS

- Best performance (x6)
- Best consumption (x8)
- Future proof (new data services)
- Open & Scalable

• Based on generally available data on the web

• Information is subject to change and is not contractual



NVMe-oF IS A BREAKTHOUGH In the Multi-Billion \$ Storage Appliance Market



"NVMe-oF JBOF is just starting to experience an uptake in on-premises enterprise DC segments for its ultra-high performance. It is ramping aggressively for use by hyper converged infrastructure and in data intensive applications."

Dennis Hahn Senior Analyst, Cloud & Data Center at OMDIA*

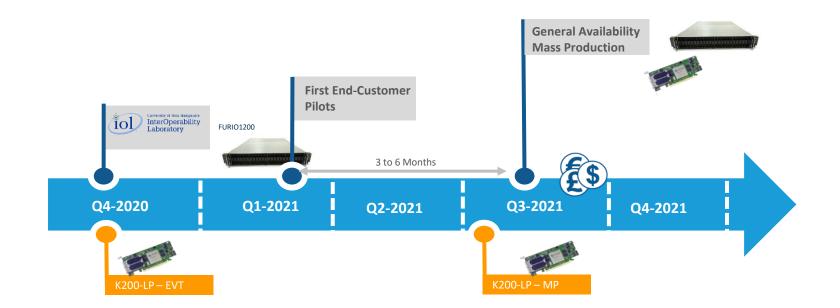


* Data Center Storage Equipment Market Tracker Q1 2020 Report



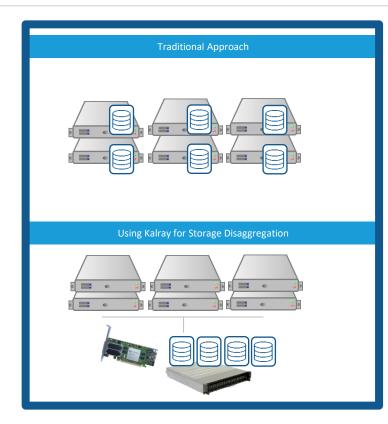
INTELLIGENT DATA CENTER

KALRAY STORAGE SOLUTION MARKET DEPLOYMENT SCHEDULE





PILOT EXAMPLE 1: COST OPTIMIZED SSD STORAGE DEPLOYMENT Customer: Cloud Service Provider

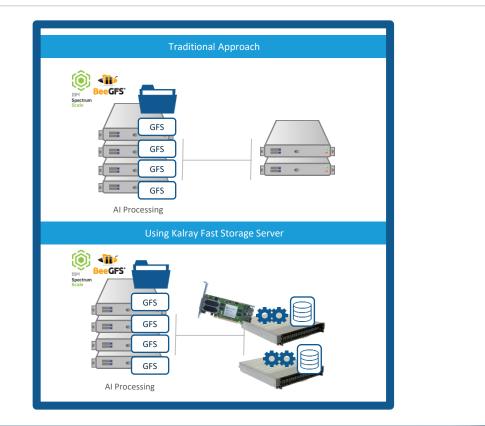


CUSTOMER SUCCESS CRITERIA

- Similar performance versus direct attached SSD
- Same robustness as traditional approach
- Total 30 to 50% cost saving



PILOT EXAMPLE 2 : SCRATCH BUFFER FOR AI ACCELERATION Customer: HPC Data Center



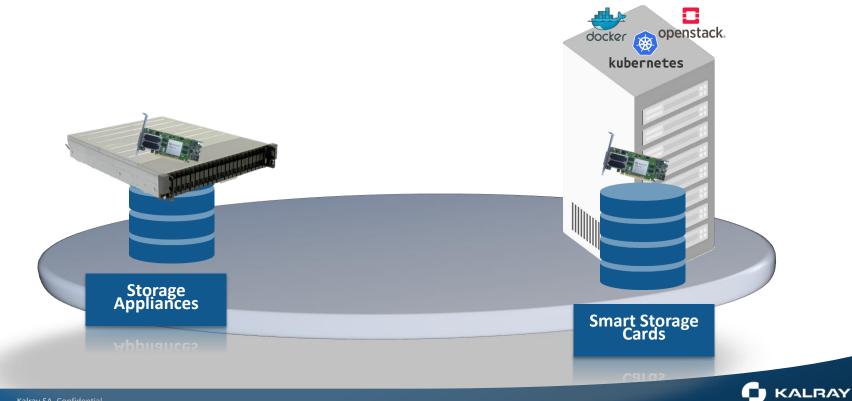


- Increase performance by 2 to 5 for AI training
- Ease to integrate with standard file systems

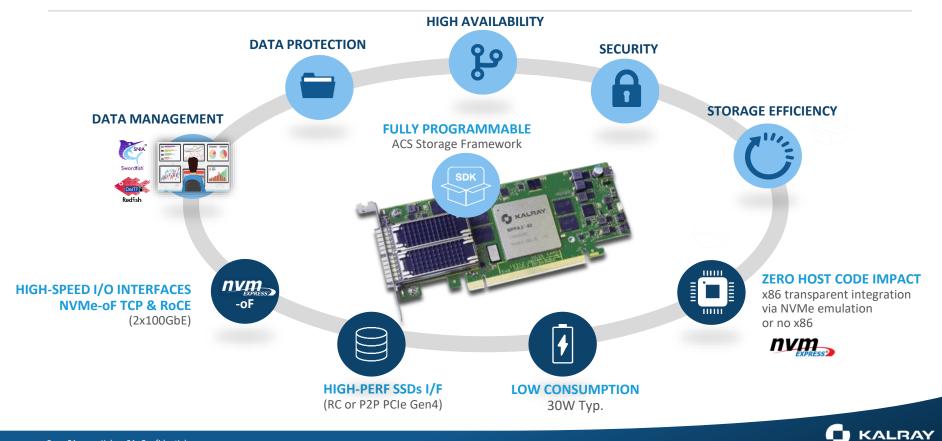
such as BeeGFS



KALRAY SMART STORAGE ADAPTERS What is Next?



KALRAY SMART STORAGE ADAPTER Build Next Generation High Perf, Secure, Scale Out, NVMe-oF Storage



FOCUS ON THE INDUSTRIAL & LOGISTICAL PROCESSES TO SCALE



KALRAY & WISTRON SET-UP MANUFACTURING CAPABILITIES TO MANUFACTURE, TEST & DELIVER 1,000 OF BOARDS PER MONTH STARTING Q3-2021



ON THE ROAD TO BUILD THE FUTURE EUROPEAN CHAMPION OF INTELLIGENT PROCESSORS

TWO PRIORITY MARKETS



Volume ramp-up of Kalray-based card and solutions



AUTOMOTIVE MARKET

Leverage strategic partnerships to position as a key component of next gen vehicles

OTHER TARGETS

ADJACENT MARKETS – FUTURE REVENUE NEXT GEN. (2024/2025): THE DOLOMITES REVOLUTION Image: Strain of Strain

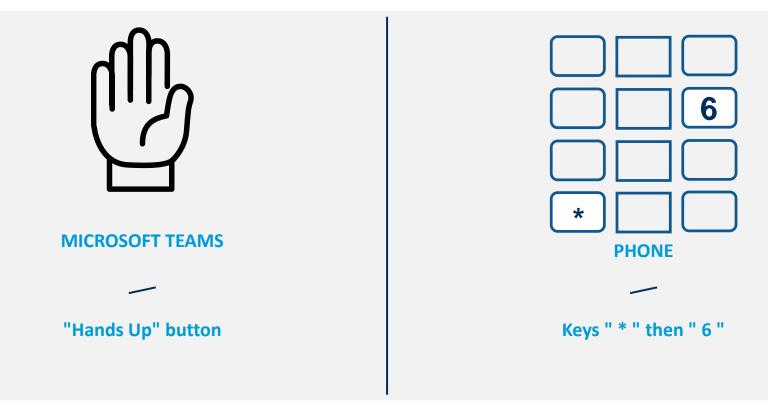


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Q&A SESSION





KALRAY STOCK MARKET DATA

STOCK EXCHANGE SHAREHOLDING - AS OF MARCH 31, 2021 ALKAL • Market: Euronext Growth EURONEXT GROWTH ENTREPRIS INNOVANTE Free float ELIGIBLE PEA PME related holders NEXT MEETING

1 including Alliance Ventures, MBDA, NXP, Pengpai, and Safran 2 Euronext definition

Company

50.8%



- Name: KALRAY
- ISIN code: FR0010722819
- Ticker symbol: ALKAL
- Share price: €39.60 (at 19/04/2021)
- Number of shares: 5,516,514
- Market capitalization: €218m (at 19/04/2021)

12th July 2021, H1 2021 Activity report



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