THE PROCESSOR AT THE HEART OF INTELLIGENT SYSTEMS





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KALRAY: PIONEER IN INTELLIGENT PROCESSORS

MANYCORE PROCESSORS ENABLING
NEW INTELLIGENT SYSTEMS



Patented MPPA® architecture allowing unlimited number of cores

Current generation: 288 cores

Technology is uniquely relevant for new intelligent systems

ADDRESSING TWO CORE, HIGH-GROWTH MARKETS



DATA CENTERS

- Opportunity: data center acceleration
- Product offering ready and certified (processors and boards)
- Solutions already adopted by several customers
- Commercial launch in volume expected in 2020



AUTONOMOUS DRIVING

- Opportunity: car's sensor fusion / ADAS & Al systems
- Processors suited to Level 2+ to Level 5 cars
- Technology already tested in concept cars
- Under selection by large OEMs and Tier 1s
- Strategic shareholder (the Alliance) and strategic partnership with NXP (#1 in auto semis)

COMPANY HIGHLIGHTS



4 LOCATIONS: GRENOBLE, SOPHIA-ANTIPOLIS (FRANCE), LOS ALTOS (US) AND TOKYO (JAPAN)



> €70M OF R&D INVESTMENT OVER 10 YEARS. PROTECTED BY 23 PATENT FAMILIES



75 EMPLOYEES (Q1 2019) OF WHICH 16 PHDS AND 51 ENGINEERS



€85M EQUITY RAISED TO DATE EURONEXT GROWTH PARIS LISTED



€100M SALES TARGET IN 2022 C.90% DATA CENTERS



INTELLIGENT SYSTEMS: A DISRUPTION REQUIRING A NEW GENERATION OF PROCESSORS

INTELLIGENT SYSTEMS ANALYSE AN EXPONENTIAL FLOW OF DATA IN REAL TIME



COMPUTERS: APPLICATION PROCESSING



PROCESSORS
DESIGNED FOR
LARGE APPLICATIONS

SMARTPHONES: CONNECTIVITY & MOBILITY

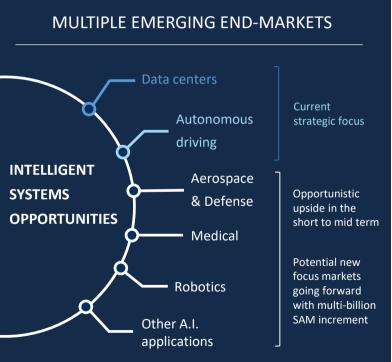


PROCESSORS
DESIGNED FOR
CONNECTIVITY

INTELLIGENT SYSTEMS
ANALYSIS &
DECISION-MAKING

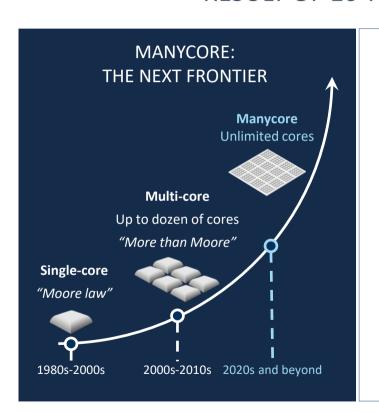


PROCESSORS
DESIGNED FOR
INTELLIGENT
PROCESSING





KALRAY MANYCORE PATENTED MPPA® TECHNOLOGY: RESULT OF 10 YEARS OF INVESTMENT



UNIQUE SELLING POINTS

#1

Computing power

#2

Data processing in real time

#3

Completion of dozens of critical tasks in parallel

#4

Low power consumption

#5

Programmable
Open system

#6

Security & Safety

TOP R&D PARTNER



AMONG BEST RESEARCH CENTERS IN SEMIS GLOBALLY

10 YEARS OF R&D WITH KALRAY

A MATURE TECHNOLOGY

- > €70m R&D investment
- > 400 Men. Year of R&D

STRONG & PROTECTED IP

23 patent families protecting the MMPA® architecture

Patents covering manycore architecture, cores and interconnect

Current patent portfolio granting protection until 2032-2037



COMPREHENSIVE PRODUCTS OFFERING

CORE PRODUCTS













PROCESSORS

Processors based on MPPA® architecture

Bostan: Kalray's 2nd generation processor with 288 cores, **already available** for commercial launch

Coolidge: Kalray's 3rd generation processor with superior performance vs. Bostan, targeting samples in customer hands before end 2019

BOARDS

Solutions integrating ready-to-use boards, based on Kalray's processors, and application software

KTC (Kalray Target Controller): First product available on Bostan processor including NVMe-oF standard and targeting storage servers

TurboCards: Card based on Coolidge processor enabling networking, storage and compute acceleration in data centers, under development to be deployed in 2020

SUPPORT PRODUCTS

SOFTWARE DEVELOPMENT KITS







DEVELOPMENT PLATFORMS









SCALABLE PLATFORM **GLOBAL FOOTPRINT**



GROWING AND HIGH QUALITY TEAMS

HEADCOUNT EVOLUTION HEADCOUNT (Q1 2019) Admin 8 Sales & marketing 8 R&D Autonomous 41 driving 10 Data centers 8

SCALABLE OUTSOURCED MANUFACTURING



- Fabless business model
- Outsourced with TSMC (global #1)
- Limited investment / no expansion costs
- Production on the basis of purchase orders



2017

2018

Q1 2019

SEASONED MANAGEMENT TEAM AND STRONG SHAREHOLDER BASE

SEASONED MANAGEMENT TEAM



Fric Baissus ● CFO

20 years of experience in telecommunications (Alcatel-Lucent) and electronics (Texas Instruments). Founder and CEO of Open-Plug (2002)



Anne Gabrot • CFO

20 years of experience as group CFO in the telecommunications sector and in technology start-ups



Benoît de Dinechin • CTO

20 years of experience in IT systems and processor architecture (ST Micro Fellow, Cray Research)



Olivier Lauvray • VP Data Center & Global Sales

20 years of experience in go-to-market and international sales development (Motorola, Freescale / NXP or NetLogic Microsystems / Broadcom)



Stéphane **Cordova** • VP Embedded / Autonomous driving

20 years of experience in semiconductors (ST Microelectronics and ST Ericsson)

SELECTED SHAREHOLDERS



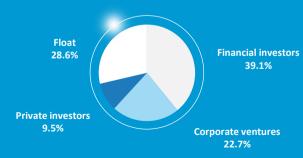








SHAREHOLDING STRUCTURE





SUMMARY HIGHLIGHTS

1

New high growth market opportunity emerging with surge of intelligence system

2

Existing processors generation (CPUs, GPUs, FPGAs) are at their limits: manycore is the answer 3

Kalray has a multi-year head start vs. competitors with its proprietary MPPA® architecture

4

Technology acknowledged as the leading one by top industry players

5

Kalray's strategy and platform is geared to address a market opportunity of >\$10bn by 2030





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