EPI UPDATE

BUSINESS CLUB, ASPROM
PARIS, JANUARY 15TH, 2020





PHILIPPE NOTTON / GM EPI - SIPEARL CEO

NSA May Have Backdoors Built Into Intel And AMD Processors

The New York Times

U.S. Blacklists More Chinese Tech Companies Over National Security Concerns

By Ana Swanson, Paul Mozur and Steve Lohr

June 21, 2019

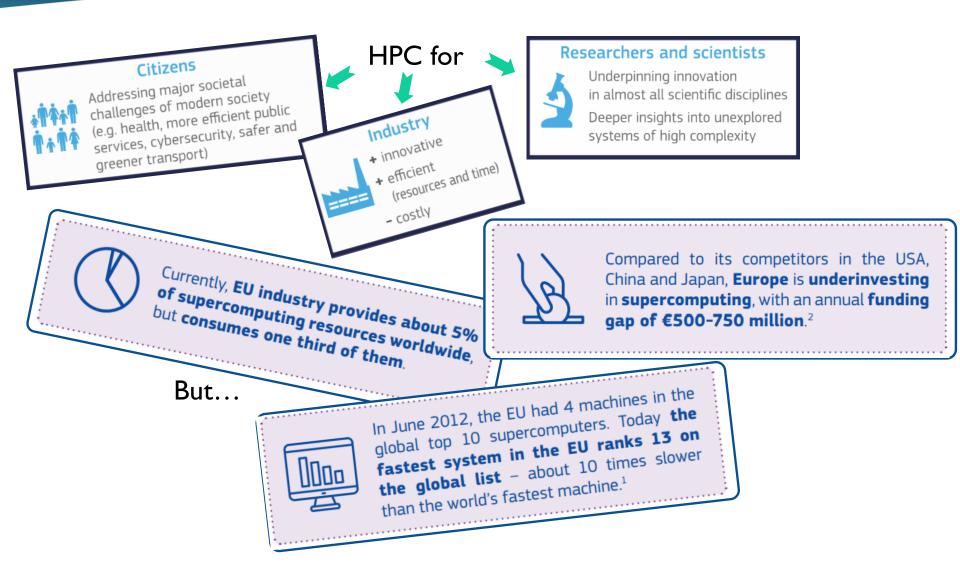
阅读简体中文版 - 閱讀繁體中文版

WASHINGTON — The Trump administration added five Chinese entities to a United States blacklist on Friday, further restricting China's access to American technology and stoking already high tensions before a planned meeting between President Trump and President Xi Jinping of China in Japan next week.

The entities are one of China's leading supercomputer makers, Sugon; three subsidiaries set up to design microchips, Higon, Chengdu Haiguang Integrated Circuit and Chengdu Haiguang Microelectronics Technology; and the Wuxi Jiangnan Institute of Computing Technology. They lead China's development of high-performance computing, some of which is used in military applications like simulating nuclear explosions, the Commerce Department said.

Car hacking real threat a ever more lo







EUROPEAN PROCESSOR INITIATIVE

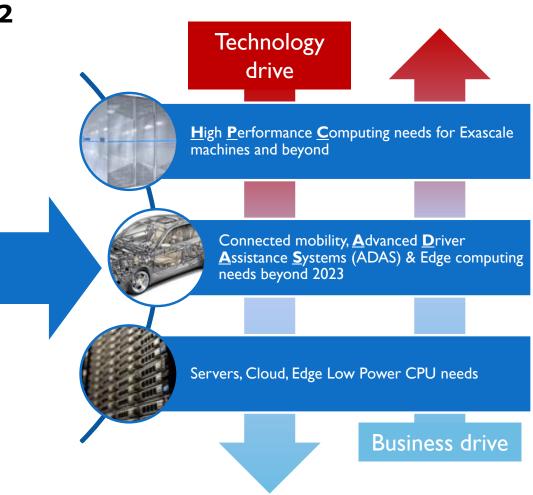
- High Performance General Purpose Processor for HPC, ARM based
- High-performance EPI-made accelerator
- Computing platform for edge and autonomous cars

EC expectations from ICT-42 & EPI value proposal

EPI expected impacts (as per EC request)

- Get a world class processor for the Exascale machines supplied by EuroHPC in 2023
- Develop a sustainable economic model

EPI is an H2020 program but with industrial mindset & product delivery oriented





Having 10 countries, 27 partners working together to win the EU call?





Sharing all together a common technical vision in terms of architecture and product?





Giving an industrial vision and industrial hand to EPI







Having access to ARM technology





SO NOW LET'S HAVE THIS EU SOLUTION READY!





27 EPI PARTNERS





























































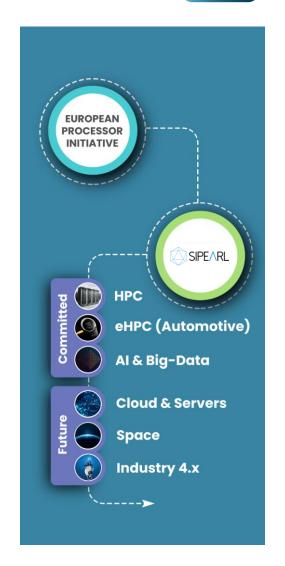


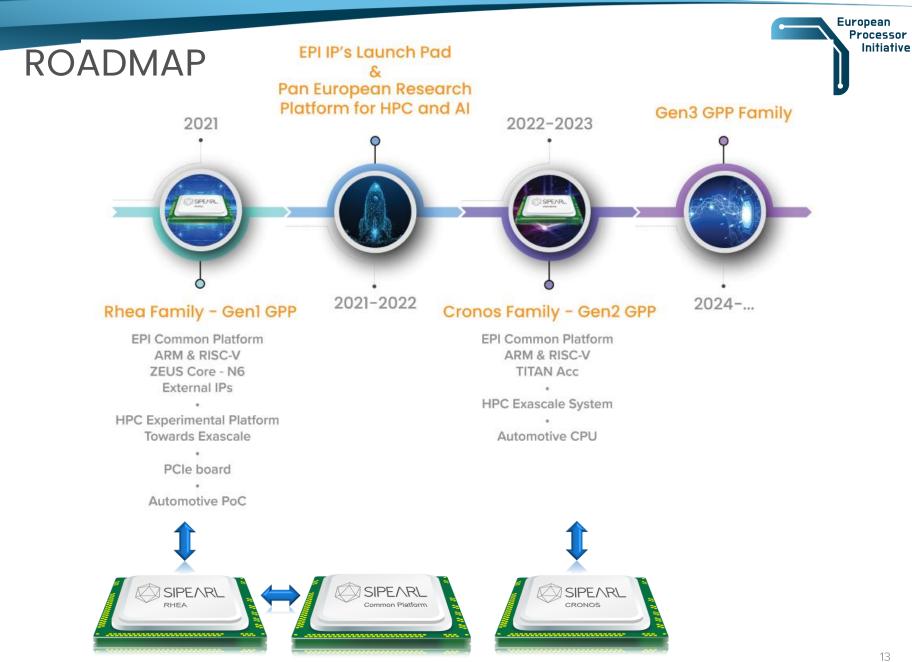
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EPI FABLESS COMPANY

- EPI's Fabless company
 - licence of IPs from the partners
 - develop own IPs around it
 - licence the missing components from the market (such as ARM IP's)
 - Incorporated now as SIPEARL
 - integrate, market, support & sales the chip
 - generate revenue from both the HPC, IA, server and eHPC markets
 - work on the next generations
 - The industrial 'hand' of EPI





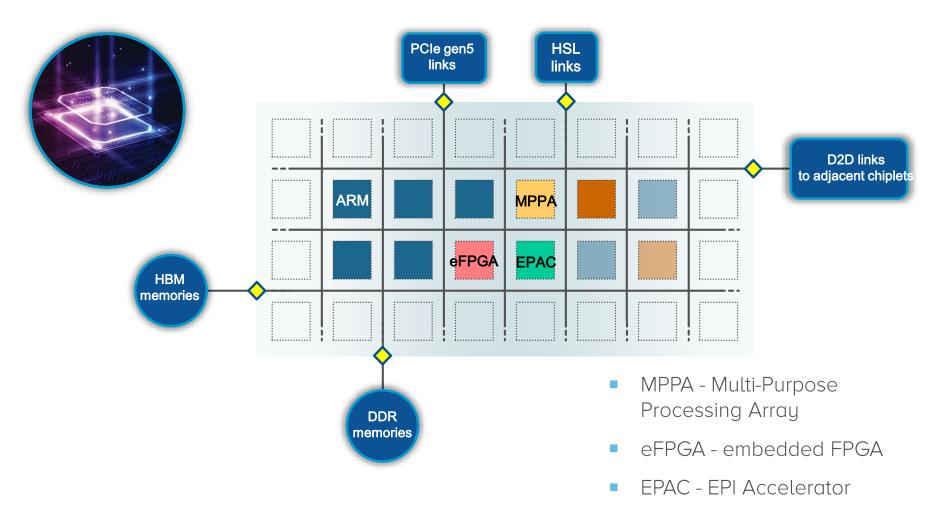


END2END SECURITY - FROM THE AUTOMOTIVE SYSTEM TO THE CLOUD



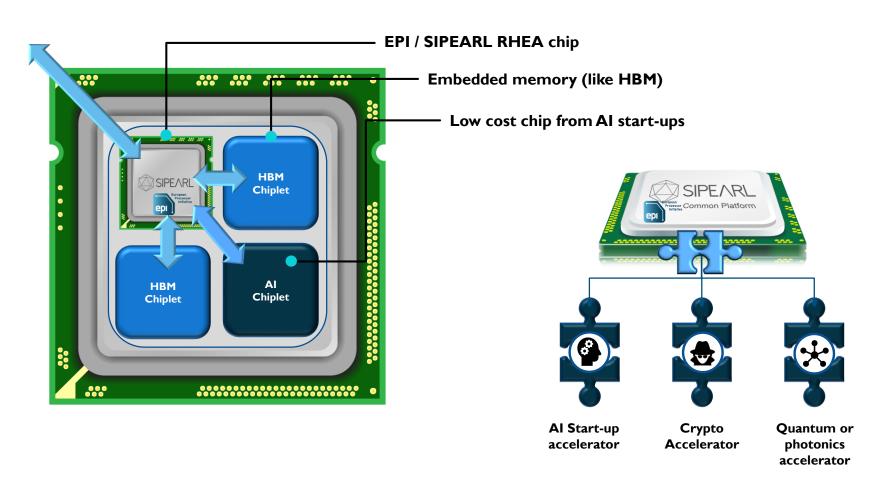


GPP AND COMMON ARCHITECTURE





COMMON PLATFORM VISION WE ACCELERATE ACCELERATORS !!!





THANK YOU

Questions?



- www.european-processor-initiative.eu
- @EuProcessor
- in European Processor Initiative
- European Processor Initiative

We engine the Future



SIPEARL SAS

RCS Versailles Siren 851 434 365

Philippe Notton – Founder & CEO

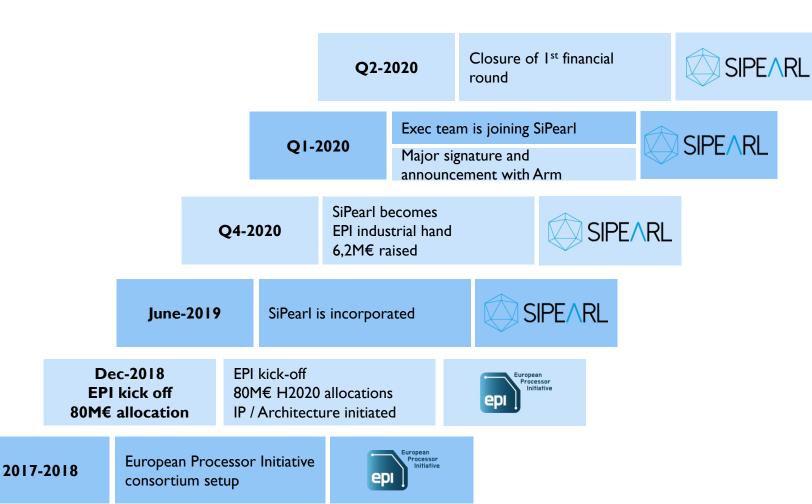
contact@sipearl.com

Lan: +33 1 80 83 54 90 / Mob: +33 6 6046 2807

R&D in Paris / Grenoble / Sophia Antipolis



SIPEARL, WHERE WE ARE TODAY



BACKUP



ADVANCED DATA PROCESSING PLATFORM DEVELOPMENT BUDGET



9 digits budget....Building such a Product needs lots of cash...

Source IBS & semiengineering.com

The signatory **Member States** commit to **working**



together with the Commission for deploying an integrated world-class HPC infrastructure.

One of the objectives is to have EU exascale supercomputers in the global top 3 ranking by 2022-2023.

The EuroHPC declaration has been launched on 23 March 2017 at the Digital Day in Rome

#EuroHPC (High Performance Computing) **Declaration**

Signatory member states

Seven countries – France, Germany, Italy, Luxembourg, Netherlands, Portugal and Spain – signed the declaration in March 2017.

Further six countries – Belgium, Slovenia, Bulgaria, Switzerland, Greece and Croatia – have joined them in this effort ever since.

(as of today (Sept. 2018) 17 EU members have joined EuroHPC.



EuroHPC Joint Undertaking



It is a legal and funding instrument to

- acquire and operate a world-class pre-exascale supercomputing infrastructure;
- develop exascale supercomputers based on competitive EU technology.



It is foreseen to start operating from 2019 until 2026.



It will be composed of public members (until now

20 Member States
have signed up) and
private members
(representatives from
HPC and Big Data
stakeholders, including
academia and industry).



It will get a budget of around €1 billion, of which 50% comes from the EU and 50% from the participating countries.

Private entities will provide

conributions in kind.



It will provide
financial support
(procurement or
Research &
Innovation grants)
following open and
competitive calls.

« EU Competition » in one page for SiPearl Gen1 (which is not competition...)

Process
to 6/5nm
to 7/6/5nm
to 7nm
Down to 16/22nm

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(*) ASP = Average Selling Price

(**) Software = Instruction set and software ecosystem



Magic Quandrant

