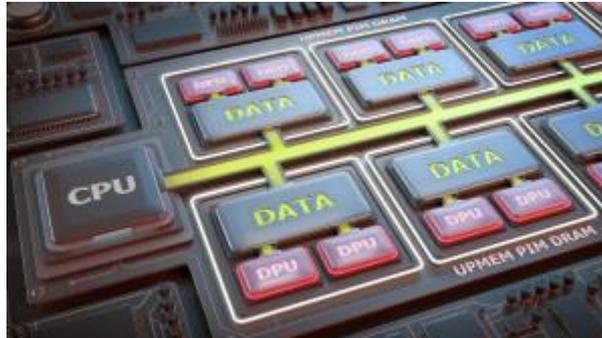


## UPMEM Announces the First Processing In-Memory Chip Accelerating Big Data Applications - 8 September, 2017

UPMEM secures 3 million € round with C4 Ventures, Partech Ventures, Supernova Invest, Western Digital Capital, CA, tech entrepreneurs.



Solve the Memory wall with Processing-In-Memory

**Grenoble, France, September 7, 2017** - [UPMEM](#), a fabless semiconductor startup company, announces UPMEM Processing In-Memory (PIM), the next generation hardware solution for data intensive applications in the datacenter, solving server-level efficiency and performance bottlenecks. UPMEM's programmer friendly acceleration technology is much awaited for by big data players as Moore's law is fading away.

"The new generation of data intensive applications can no longer be easily handled by traditional CPUs," said Gilles Hamou, CEO and co-founder of UPMEM. "Initial benchmarks by our partners validate the game-changing added-value of UPMEM PIM technology, as well as the strong fit of its programming model for a large scope of real world data-intensive applications."

The PIM chip, integrating UPMEM's proprietary RISC processors (DRAM Processing Units, DPUs) and main memory (DRAM), is the building block of the first efficient, scalable and programmable acceleration solution for big data applications. Associated with its Software Development Kit, the UPMEM PIM solution can accelerate data-intensive applications in the datacenter servers 20 times, with close to zero additional energy premium. This huge leap opens new horizons for Big Data players, in terms of costs and new services.

UPMEM's innovative technology solves the Memory Wall and the dominant energy cost of data movement between the processor and its main memory in application servers. Thousands of UPMEM in-memory co-processors (DRAM Processing Units, aka DPUs) orchestrated by the main processor, localize most of data processing in the memory chips, while proposing familiar programmability. Besides, the UPMEM solution comes without any disruption of existing server hardware, standardized protocols, programming & compiling schemes, removing any barrier for fast & massive adoption. For instance, the UPMEM solution provides a full DNA mapping and variance analysis in minutes instead of hours, making affordable real-time personalized genomics a reality.

The financing round will enable the company to produce and bring to market its disruptive Processing In-Memory (PIM) chip-based solution. In parallel, UPMEM will accelerate its

evaluation programs with top tier global big data customers and IT labs, using available programming and simulation tools.

UPMEM obtained this series A financing from actors engaged in semiconductors and with a strong footprint in Europe and the US: C4Ventures leading the round, Partech Ventures, Supernova Invest, Western Digital Capital, Crédit Agricole bank, and entrepreneurs from the data center and micro electronics industry led by Etix CEO Charles-Antoine Beyney. Reza Malekzadeh from Partech Ventures and Charles-Antoine Beyney will join the UPMEM board of directors.

“Data intensive use cases are severally constrained by the Memory Wall issue,” explains Olivier Huez, Partner at C4 Ventures. “We’ve looked far and wide and UPMEM’s founders have built the only company on the market which can address this seamlessly and deliver such an impressive uplift in performance.”

“We are no longer in an era were CPUs and other hardware getting continuously faster would mask the slow speed of inefficient software,” said Reza Malekzadeh, General Partner at Partech Ventures. “UPMEM’s solution addresses the performance needs of modern scale-out applications while preserving datacenter and infrastructure hardware investments.”

“The PIM concept is not new in itself,” said Christophe Desrumaux, Investment Director at Supernova Invest. “But UPMEM brings together a world class team, an innovative patented approach without any hardware compatibility disruption, and a full set of design tools that make it widely adoptable by users.”

### **About UPMEM**

UPMEM is a fabless semiconductor company and the most advanced worldwide dedicated to processing in-memory (PIM), as recognized by many international distinctions and top tier collaborations. UPMEM is building a PIM solution based on an innovative processor architecture to enable the computation of data intensive operations into hundreds of programmable coprocessors sitting right next to the data. Big data applications leveraging UPMEM PIM solution are modified to dispatch and orchestrate the tasks executed by the coprocessors, from the main CPU using high-level programming languages. The UPMEM team, mixing both worldwide microelectronics and system software experts, is based in Grenoble, the French center for microelectronics and semiconductors.

*For more information visit [www.upmem.com](http://www.upmem.com) and follow @upmem*

### **About C4 Ventures**

C4 Ventures is a leading European venture fund created by Pascal Cagni (VP & GM Apple EMEA 2000-2012). Based in London and Paris, C4 Ventures invests in both European early stage startups and late stage startups seeking to expand into European markets.

C4 Ventures is a different kind of venture firm specializing in three sectors: the Future of Commerce, Smart hardware and Digital Media. Thanks to their operational expertise and a team of Operating Partners, C4 Ventures is best positioned to help entrepreneurs accelerate their business in the complex European landscape.

*For more information visit [www.c4v.com](http://www.c4v.com) and follow @c4ventures*

### **About Partech Ventures**

Founded in 1982 in Silicon Valley, Partech Ventures is a global investment firm with a team spread across offices in Paris, Berlin and San Francisco. Most Partners have been entrepreneurs themselves or have held management positions within tech companies. The partnership acts and invests as a single team, helping entrepreneurs build fast-growing tech and digital companies addressing large markets across multiple continents. Partech Ventures partners with entrepreneurs at the seed (Partech Entrepreneur), venture (Partech International) and/or growth (Partech Growth) stages. Companies backed by Partech Ventures have completed 21 initial public offerings and more than 50 major M&A transactions with leading international companies. Since 2012, the team has built a pioneering business development platform fostering synergies and business relationships between entrepreneurs and strategic partners.

*For more information visit [www.partechventures.com](http://www.partechventures.com) and follow @partechventures*

### **About Supernova Invest**

Newly created by the CEA Investissement seasoned funds management team, CEA and Amundi, it is specialized on deep-tech venture capital in life sciences, energy, and industry (electronics, advanced materials, instruments...). After taking over CEA Investissement historical portfolio and with two new funds closed in June 2017, it currently has 230 M€ under management, and 47 companies in its portfolio.

### **About Western Digital Capital**

Western Digital Capital has invested over \$250 million in more than 20 startups. We are stage agnostic (seed to expansion) and invest alongside financial and corporate venture capitalists. Our portfolio spans components, systems and software technologies across memory storage, cloud, data center, big data, the Internet of Things, mobile, wearables, virtual and augmented reality, and frontier tech, for the benefit of consumers as well as the enterprise.