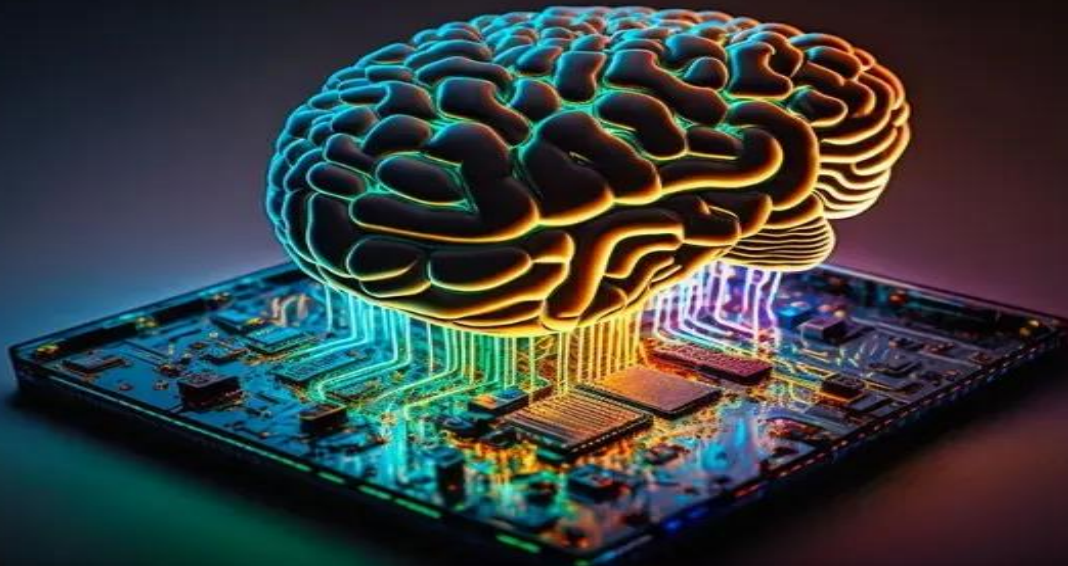


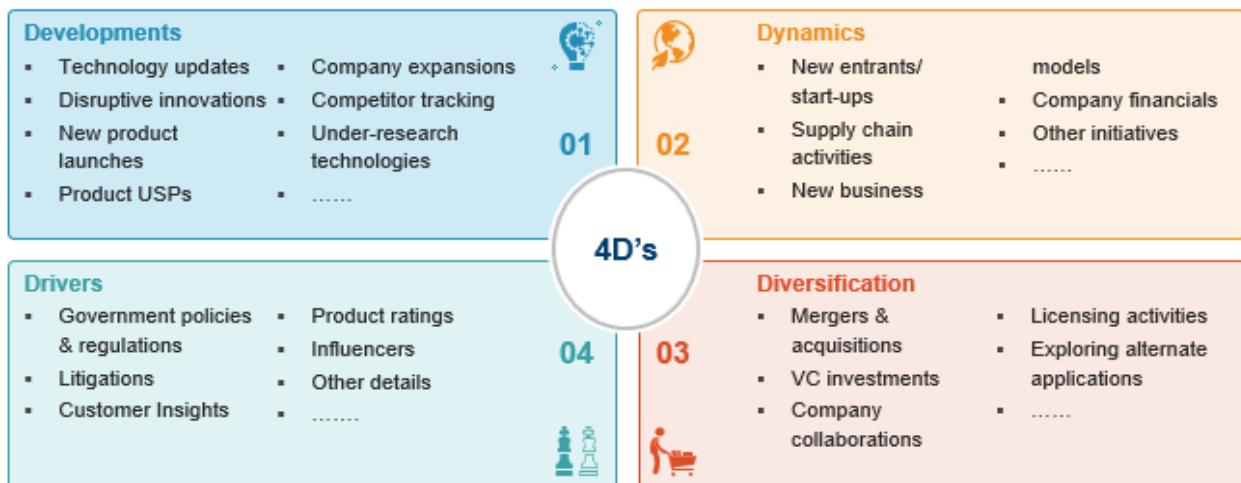
INTELLOTRACKER

SEMICONDUCTORS: NEUROMORPHIC COMPUTING

JUNE 2023



ARANCA'S QUARTERLY SECTORIAL UPDATE ACROSS FOUR DIMENSIONS....





DEVELOPMENTS

New product launches	SynSense	SynSense releases the Speck™ Demo kit, enabling users to rapidly deploy and validate event-based neuromorphic vision applications. Source: SynSense news
Technology/Innovations	UC San Diego	The NeuRRAM neuromorphic chip was developed by an international team of researchers co-led by UC San Diego engineers. Researchers measured the chip's energy efficiency via energy-delay product (EDP). Source: Techbriefs Blog
New product launches	POLYN TECHNOLOGY	POLYN Technology's VibroSense is a Tiny neuromorphic chip solution that minimizes sensor data transmission, saves power, and facilitates energy-harvesting designs for vibration monitoring sensor nodes. Source: Polyn Press Release
New product launches	brainchip	Akida AKD1000 has several key features differentiating it from other neural network processors and deep learning accelerators. Source: BrainChip products
Under-research technologies	iPRONICS Programmable Photonics	Making Photonics Viable with Programmable Chips. Photonic computing and telecommunications applications commercially viable with the world's first reprogrammable general purpose photonics integrated circuit (PIC). Source: Azooptics
Under-research technologies	POLYN TECHNOLOGY	POLYN Technology looks at the efficiency and cost advantages of the analog neuromorphic front end (NFE) in drawing meaningful value out of the sea of data generated by IoT sensors. Source: Polyn Press Release



DYNAMICS

New entrants	nimble	The EU-funded NimbleAI project collaborates with Menta to design a 3D neuromorphic chip, combining biology-inspired concepts and AI advancements. Source: EETimes
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DIVERSIFICATION

Company collaboration	iPro brainchip	BrainChip Holdings Ltd, the world's first commercial producer of ultra-low power, fully digital, event-based, neuromorphic AI IP, has selected IPro Silicon IP Ltd. to expand its sales presence in Israel. Source: BusinessWire
Company collaboration	brainchip Lorser	BrainChip Holdings and Lorser Industries Inc. will collaborate to utilize BrainChip's Akida™ technology for delivering neuromorphic computing solutions in software-defined radio (SDR) devices. Source: BusinessWire
Company collaboration	brainchip BRE	BrainChip Holdings Ltd and Blue Ridge Envisioneering collaborate to support advanced decision-making applications for tactical devices. Source: yahoo news
VC Investments	BIOMETRIC UPDATE.COM	Neuromorphic engineering company SynSense has announced the close of its \$10M Pre-B+ round with funding led by Ausvic Capital. Source: BIOMETRIC UPDATE.COM
VC Investments	Lightmatter	Lightmatter Gains US\$154 Million in new financing. Developer of integrated-photonics processors, interconnects and software targeting artificial-intelligence and high-performance computing (HPC) application Source: Optics and photonics news



DRIVERS

Government policies	GOV.UK	The UK Government's semiconductor chip plan aims to leverage industry strengths, ensure resilient supply chains, mitigate national security risks, and drive economic growth. Source: UK Government Website
Government policies	U.S. DEPARTMENT OF COMMERCE	U.S. opens funding applications under chips act as part of the announcement, the Commerce Department also released goals to be achieved by the end of the decade Source: Semiengineering Blog
Government policies	GOV.UK	The Future of Computing for Defence conference will be hosted by the Defence Science and Technology Laboratory (DSTL) in London on 25 May 2023. Source: UK Government Website

Influencers

WIRE19

Gartner predicts revolutionary neuromorphic computing devices in 2023, disrupting current AI technologies with performance advantages, with mainstream adoption expected within five years.
 Source: *WIRE19 news*

SOLUTION PORTFOLIO – TECHNOLOGY RESEARCH & ADVISORY

IP STRATEGY	TECHNOLOGY INTELLIGENCE	GROWTH & STRATEGY
<p>How best can we proactively manage and monetise our technical knowhow / intellectual property?</p>	<p>How best can we keep abreast of technology trends, competitor activity and headwinds / tailwinds in our domain?</p>	<p>Which technologies do we invest in? How do we ensure quick wins? Speed to market?</p>
<ul style="list-style-type: none"> IP Portfolio Analysis IP Monetisation IP Valuation Prior Art Searches 	<ul style="list-style-type: none"> Competitor Benchmarking Tech / IP Landscapes Technology Watch Market Analysis / Trends 	<ul style="list-style-type: none"> R&D Strategy Roadmaps Technology Scouting Open Innovation Product Development



GROWTH ADVISORY



INVESTMENT RESEARCH & ANALYTICS



VALUATION & FINANCIAL ADVISORY



TECHNOLOGY RESEARCH & ADVISORY



PROCUREMENT & SUPPLY CHAIN INTELLIGENCE

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