



ASX Code: BRN

“An AI Processor Company”

Louis DiNardo
President and CEO

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Chief Financial Officer

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Brainchip – Overview

- Founded in 2013
- ASX:BRN September 2015
- Executive Office, Sales & Marketing in San Francisco, CA
- Design Centers in Aliso Viejo, CA and Toulouse, France – Headcount 29
- The Company has pioneered an AI Processor Architecture based on a spiking neural network that mirrors the learning mechanisms of the human brain

Description	BRN
Market Cap*	A\$148.4M
Share Price*	A\$0.175
Capital Raised	A\$19.4M
Issued Shares**	848.2M
Cash**	US\$4.5M

* As of Close September 8, 2017

** As of June 30, 2017 per Appendix 4D Half-Year Report

Brainchip – Investment Highlights



- Public Market Investors – Opportunity to Invest in a Pure-Play AI Company
- Large Market \$4.8B in 2022 * – Competitive Landscape Remains Fluid
- Proven Technology – Existing Customer Base Provides Validation of Technology
- Revenue Growth – Existing and New Customers
- High Margin Revenue Model – License, Maintenance and Royalty
- Highly Experienced Management Team – All Seasoned Silicon Valley Executives
- Significant Intellectual Property – Fundamental Patent Cited 35 times

*IHS 2016

Brainchip – Management Team



- Lou DiNardo – CEO, Silicon Valley Veteran with multiple CEO roles at NASDAQ and NYSE listed companies
- Ryan Benton – CFO, Silicon Valley Executive with multiple CFO roles and formerly CEO of Exar Corporation
- Peter van der Made – CTO, Technology Veteran with over 35 years of experience
- Anil Mankar – CDO, Semiconductor Development Veteran with 35 years experience
- Bob Beachler – SVP Marketing, Silicon Valley Marketing and Business Development Executive with over 30 years of experience

Brainchip Studio



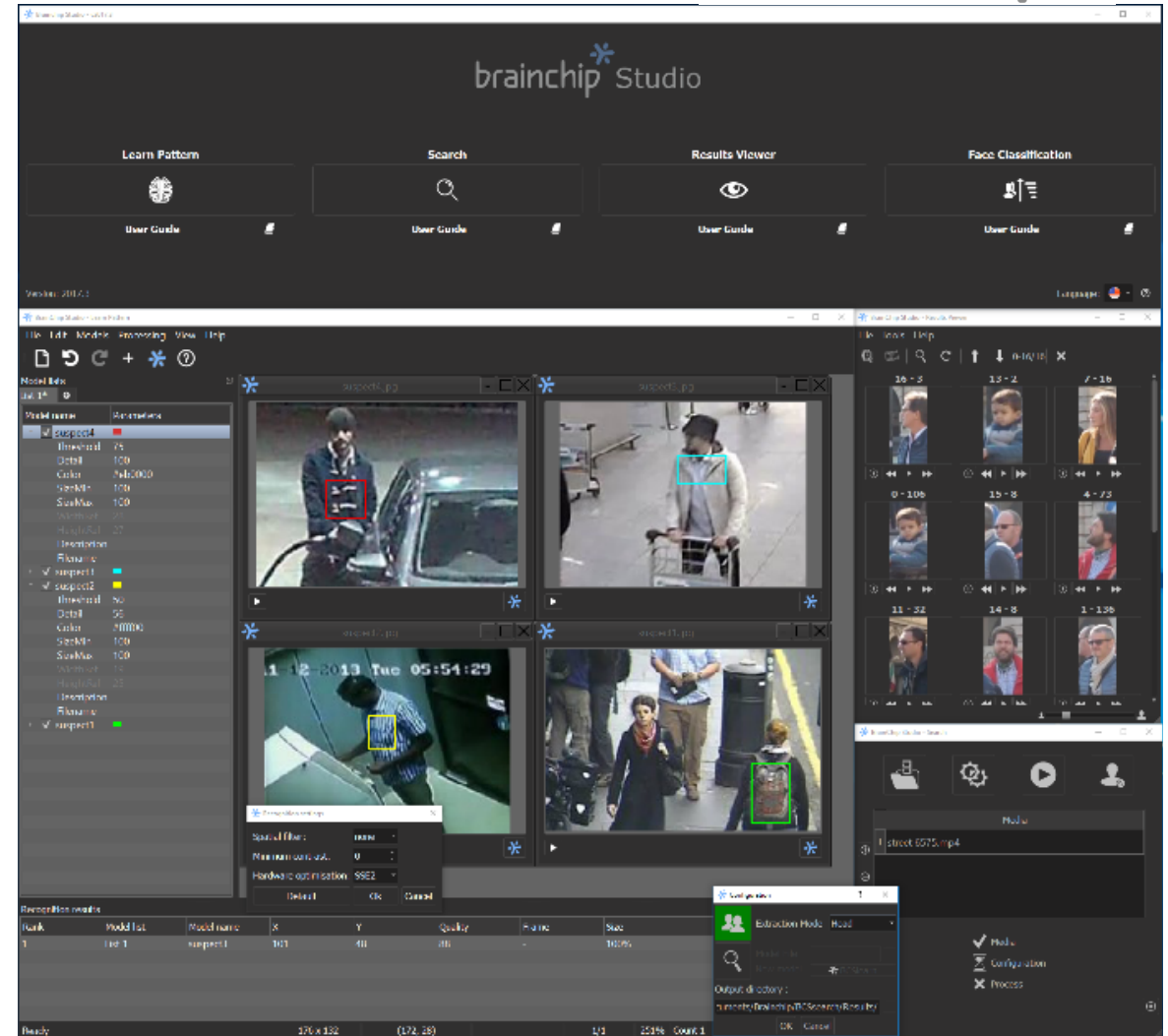
Description

- Software & Algorithms for live or forensic video search of Objects and Facial Detection, Extraction and Identification
- Released July 2017
- Simulated Spiking Neural Network
- 2017 New Product of the Year by *Security Today*



Benefits

- Uses existing video surveillance equipment including low resolution and noisy environments
- Rapidly search live or exabytes of recorded video for objects across multiple video sources
- Inexpensive solution vs. prohibitively expensive approach to “classify” all video using deep learning



Product Development History



Custom software deployments

10 years of development

* Commercial Surveillance

- * Mohegan Sun
- * Las Vegas Trials



- * Real-time card and chip detection

* Civil surveillance

- * French Homeland Security (DGSi)
- * French National Police (Paris, Toulouse)



- * Forensics and live analytics

* Machine vision

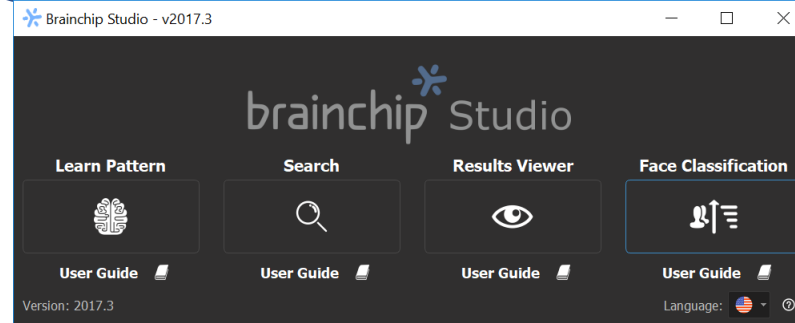
- * SAFRAN augmented reality



- * Object recognition

Mass-Market

Product



Introducing Brainchip Accelerator

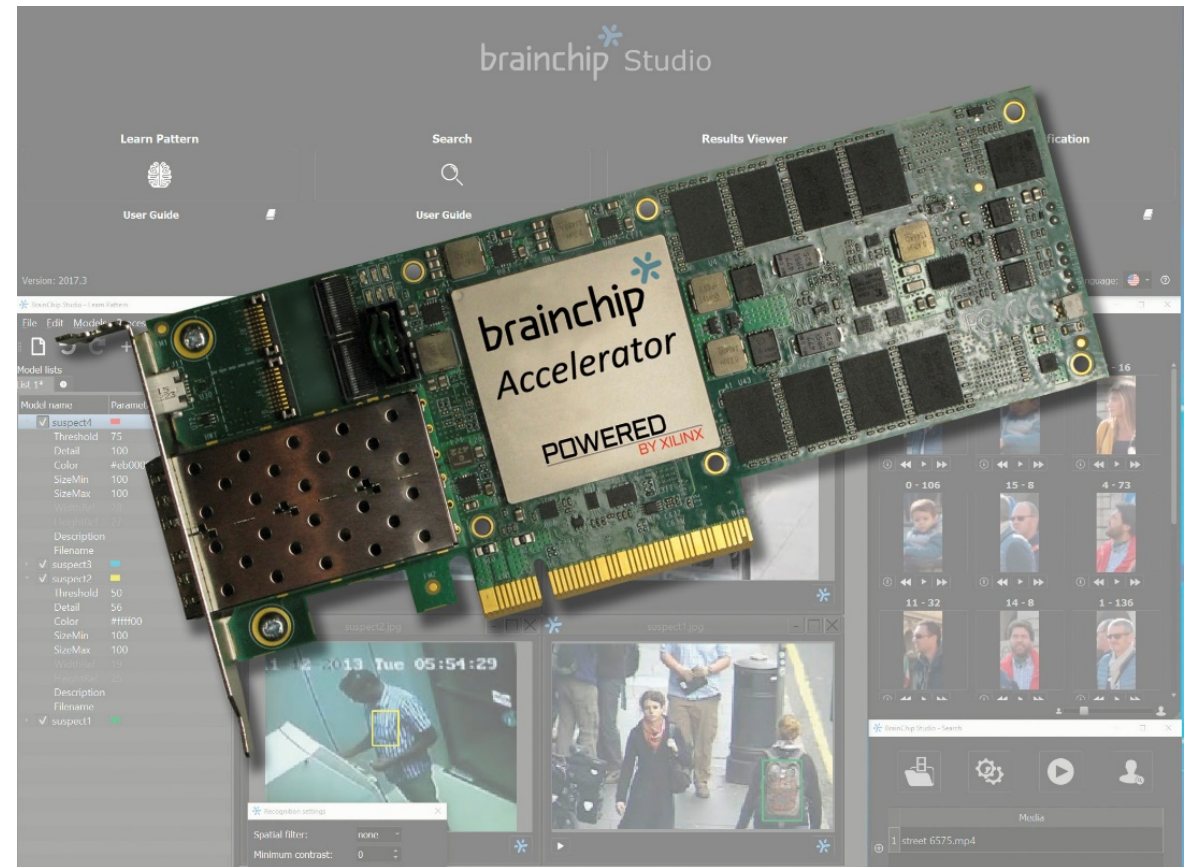


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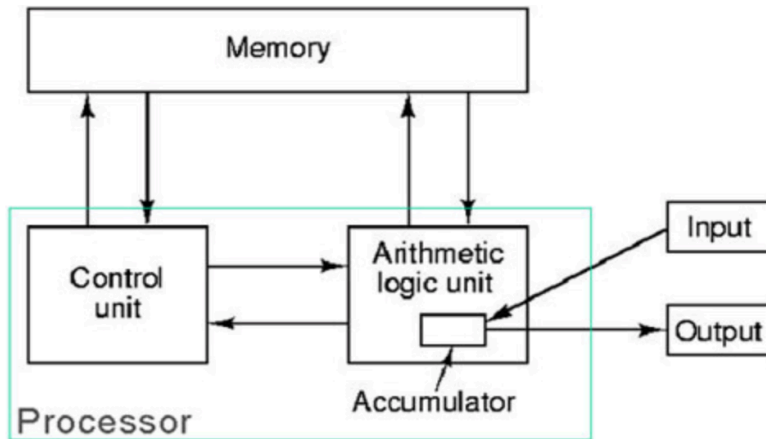
- Hardware accelerator for BrainChip Studio
- Released September 2017
- Emulated Spiking Neural Network in a Xilinx FPGA
- First commercial deployment of hardware-accelerated neuromorphic computing

Benefits

- Enables 16+ channels of simultaneous video processing
- Up to 6x speed boost to BrainChip Studio Performance
- 7x more efficient than GPU-accelerated deep learning
- 100fps rapidly Search previously recorded video
- 15W is significantly lower Power than CPU/GPU

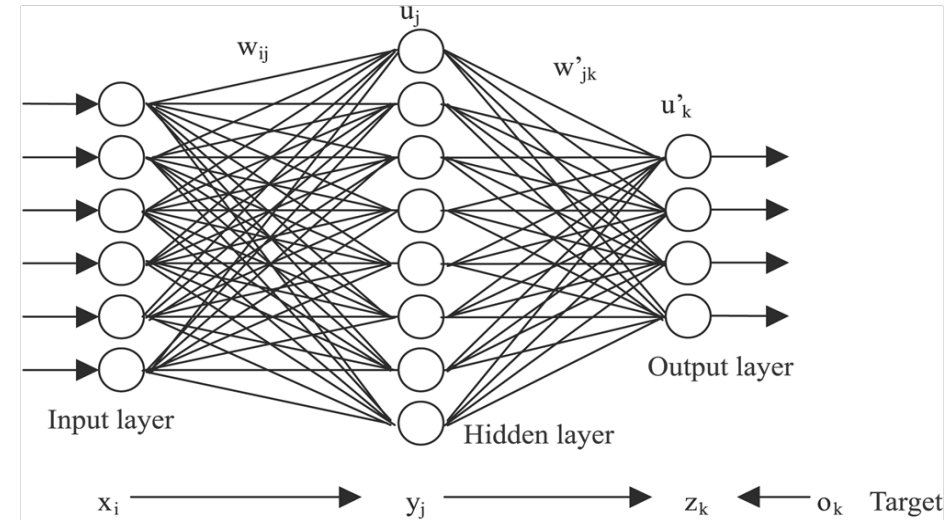


AI – Diverges from CPU/GPU



CPU/GPU

Serial Processing
Code Dependent
Math Intensive
Deterministic
High Power



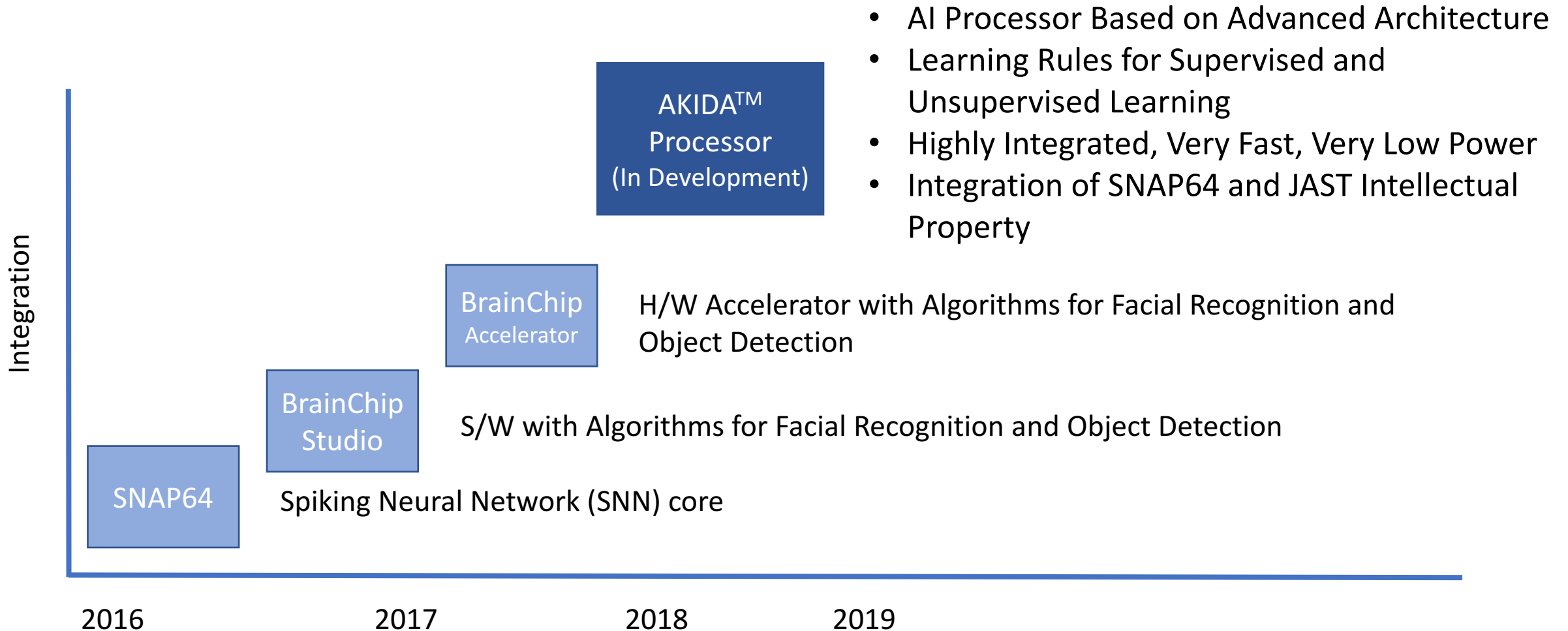
Neural Network

Parallel Processing
Algorithm Based
No Computation
Probability Outcome
Low Power

AI – Models of Learning

- Deep learning
 - Large data sets – millions of samples
 - Long training regimens – weeks or months
 - Requires large memory – adds cost
- Autonomous learning
 - Supervised learning – small sample sets with known models, provides efficient forensic and real-time analytics
 - Unsupervised learning – small sample sets with no models, provides efficient real-time learning and analytics

Brainchip – Product Road Map



AKIDA™ Initial Target Markets



- Video Analytics Supervised
 - Civil Surveillance (Homeland Security, Law Enforcement, Schools)
 - Commercial Surveillance (Gaming, Advertising, Consumer)
- Video Analytics Unsupervised
 - Civil Surveillance (Drones, Satellites)
 - Commercial Surveillance (Advanced Driver-Assisted Systems “ADAS”)
- Data Analytics Unsupervised
 - Fintech (High-Frequency and Algorithmic Trading)
 - Cybersecurity (Malware, Denial of Service “DNS”)

AKIDA™ Competitive Landscape



- Competition
 - Nvidia Graphics Processing Unit (GPU)
 - Intel Central Processing Unit (CPU)
 - Intel Central Processing Unit with FPGA Acceleration (Altera)
 - Private Company Start-Ups including Cerebas, GraphCore and others
- Competitive Advantage
 - 10 years of algorithm and software development in AI for Image Processing
 - 10 years of neuromorphic architecture development applicable to wide-ranging applications
 - Marquee Customers Base for existing solutions providing feedback and contributing revenue
 - Faster, Lower Power, Ease of Use

Brainchip – Summary

- Publically Listed Artificial Intelligence Processor Company
- Veteran Management Team
- Marquee Customer Base with Large Addressable Markets
- Staged for Growth with Commercially Available Products
- AI Processor Leadership with AKIDA™ Development



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