NOL8 x fortifAI

A New Paradigm in Data Processing.

December 2025

FTI.ASX

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Current data pipelines are the single point of failure for modern workloads

Existing 'Solutions' are merely patches on antiquated architecture not built for the modern data era. This is leading to 4 critical failures:

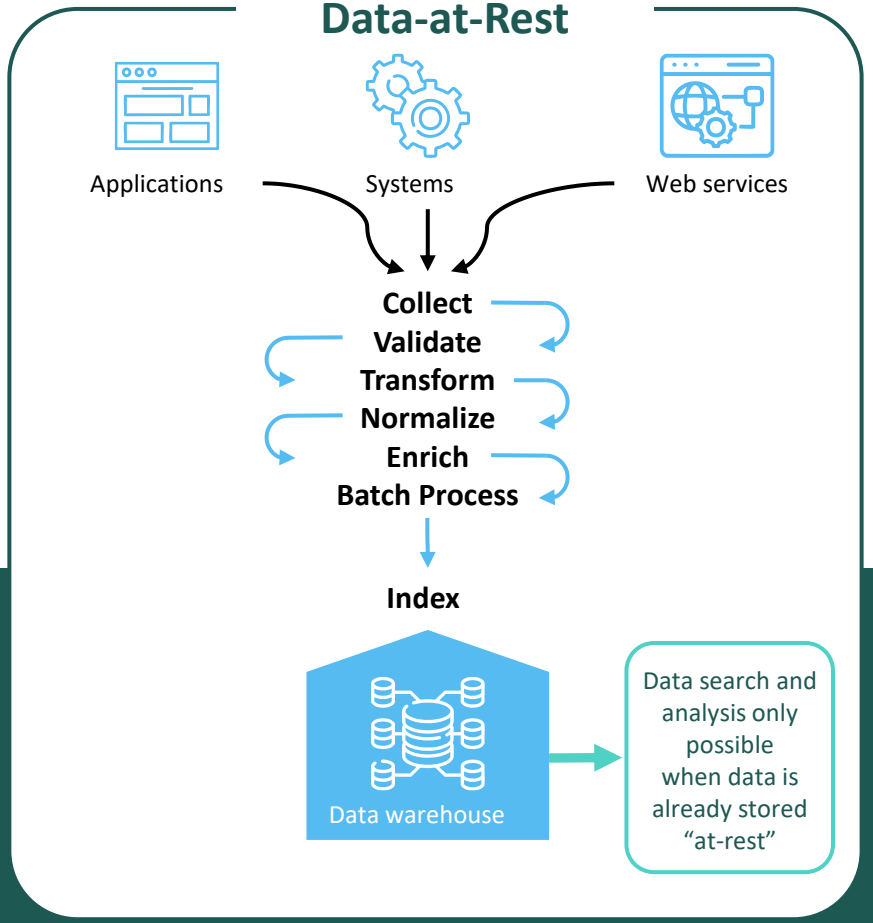
Too Slow

Too Expensive

Too Complex

Too Much Overhead

Legacy protocols analyse data after it's stored

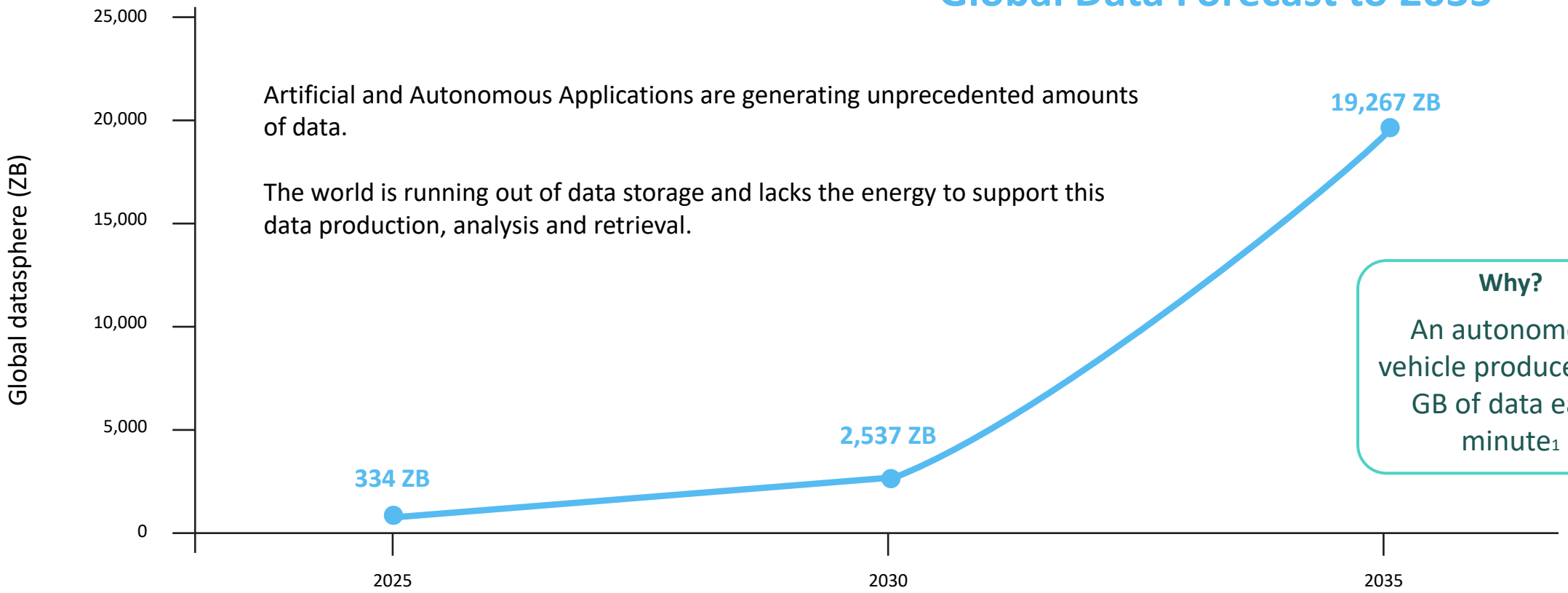


Too Slow + Too Expensive

- Data does not become valuable or useable until after the data is indexed to storage "at-rest" and analytics, query and search capabilities are possible
- Unpredictable latency and system bottlenecks emerge at scale, making real-time performance impossible
- Scaling requires massive infrastructure investment and operational overheads
- Irrelevant data ingested, indexed and stored impacting total cost of ownership
- Inefficient resource utilization leads to additional energy constraints and cost

As the data universe continues to grow, legacy data pipelines will fail to handle the oncoming tidal wave

Global Data Forecast to 2035



Artificial and Autonomous Applications are generating unprecedented amounts of data.

The world is running out of data storage and lacks the energy to support this data production, analysis and retrieval.

Why?

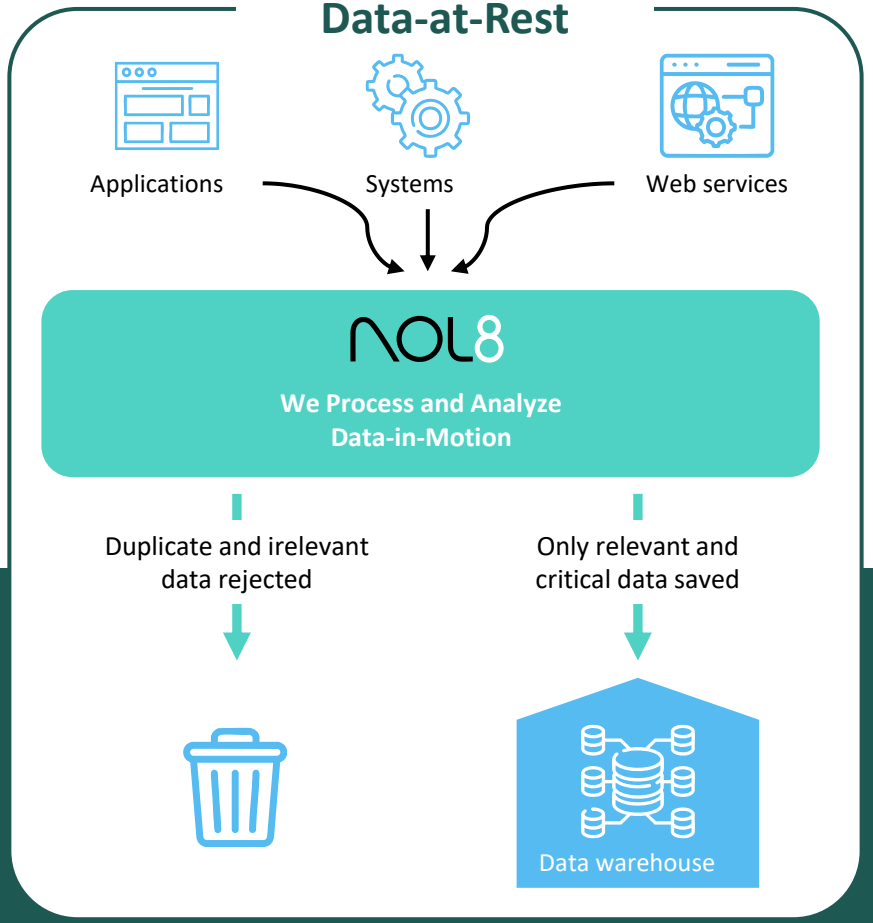
An autonomous vehicle produces 320 GB of data each minute[1]

1 ZB is one trillion GB

Graph Source : **The Holon Data Report Part 4: The exponential shift in data generation and storage capacity to 2040**
https://holon.investments/the-holon-data-report-part-4-the-exponential-shift-in-data-generation-and-storage-capacity-to-2040/

[1] **The Data Deluge: What do we do with the data generated by AVs?** Siemens Digital Industries, January 2021.https://blogs.sw.siemens.com/polarion/the-data-deluge-what-do-we-do-with-the-data-generated-by-avs/

Nol8 enables 'Data-in-Motion' at scale



Search Live Data
Decide Instantly
Act in Real Time

- The Nol8 Engine analyses and processes data as it flows. This is 'Data-in-Motion'
- Only critical and relevant data is stored
- Real-time data classification creates data structures and labels before its stored
- Allows for instant decision-making and real-time action
- Drastic reduction in storage requirements and computing power reducing

Nol8 technology is a fundamental breakthrough

A neural-network based algorithm accelerated by **specialty hardware**

Unprecedented Speed

> Data acted on as it arrives. No buffering or packet batching
> Consistent millisecond-grade latency, even under extreme load

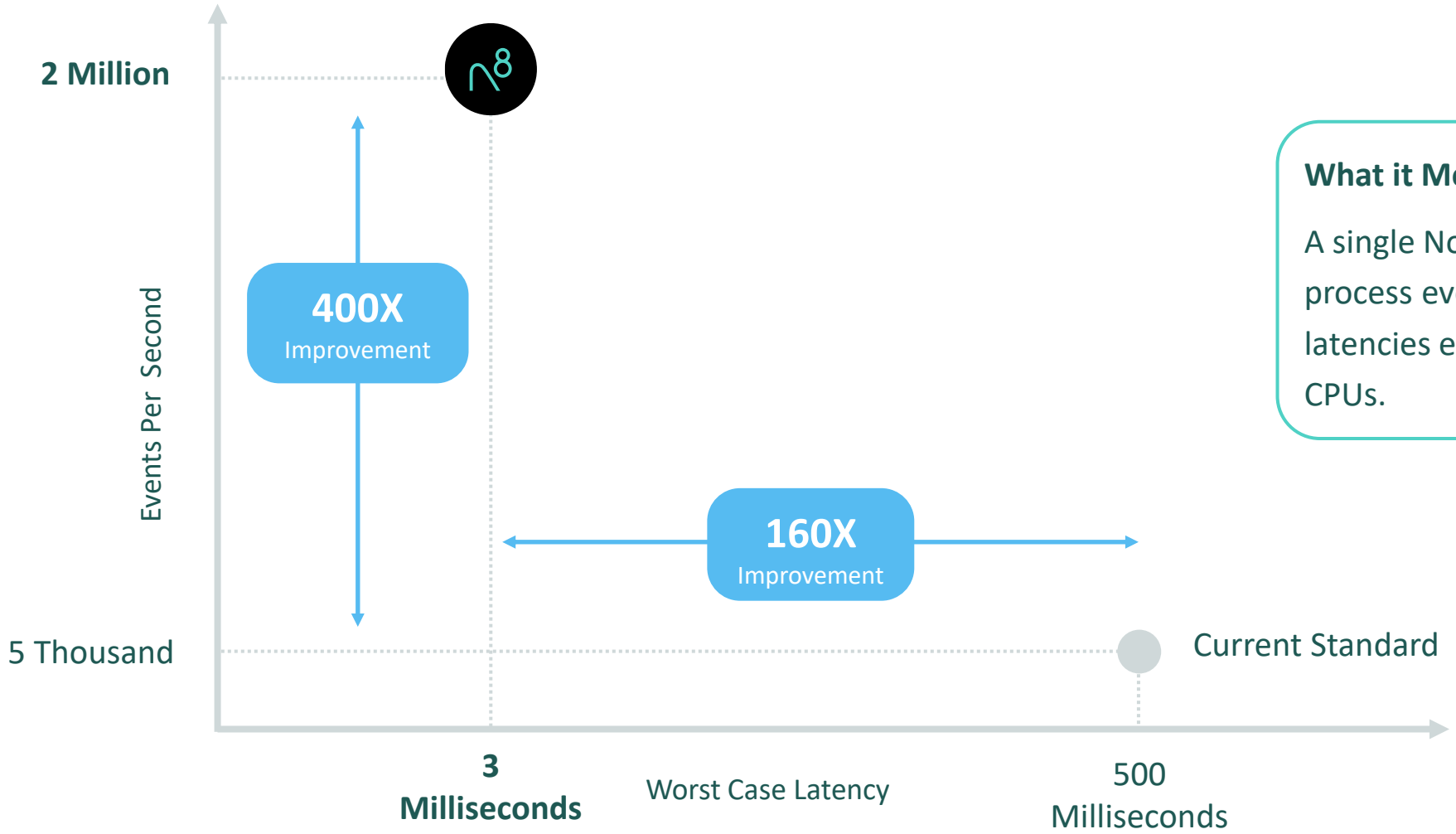
Scale Without Limits

> Supports massive data volumes (100 Gbps)
> Multi-tenant capable, independent of customer data patterns

Extreme Performance

> No infrastructure sprawl → **significantly lower cost & power**
> Critical workloads across gaming, finance, AI, and more

Seismic performance improvements

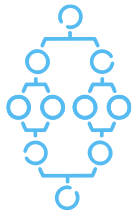


What it Means:

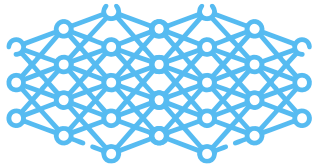
A single Nol8 appliance can process events at scale and latencies equivalent to 5,000 CPUs.

Performance numbers are estimated using publicly available data from Confluent, Apache Flink, and AWS Flink. Considering 5KB per event, as seen on ClickHouse.

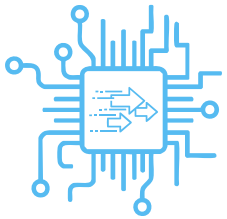
A generational discovery in data-processing



Built on algorithmically enhanced Longest Prefix Matching



Scaled by Machine Learning Neural Networks

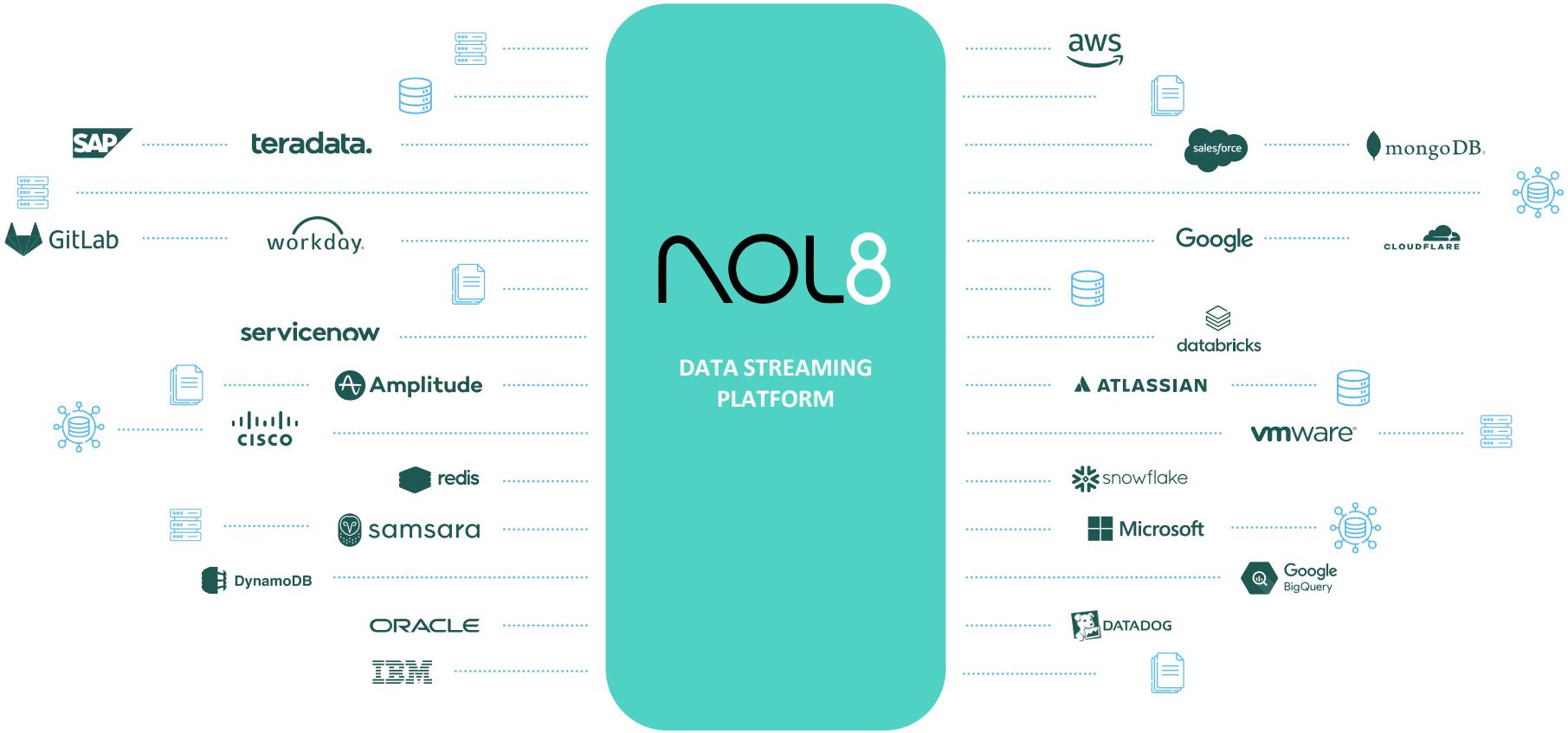


Hyper-Accelerated by FPGA Hardware

Backed by Published World-Class Academic research

2020 • A Computational Approach to Packet Classification - *Alon Rashelbach, Ori Rottenstreich, Mark Silberstein* – **ACM SIGCOMM**
2022 • Scaling Open vSwitch with a Computational Cache - *Alon Rashelbach, Ori Rottenstreich, Mark Silberstein* – **USENIX NSDI**
2022 • Accelerating Open vSwitch Data Path with Neural Networks - *Alon Rashelbach, Ori Rottenstreich, Mark Silberstein* - **ACM/IEEE Transactions on Networking**
2023 • Nucleotide String Indexing using Range Matching - *Alon Rashelbach, Ori Rottenstreich, Mark Silberstein* – **ACM BSB**
2023 • Scaling Longest Prefix Match Hardware with Neural Networks - *Alon Rashelbach, Igor de Paula, Mark Silberstein* – **IEEE MICRO**
2024 • Space-efficient FTL for Mobile Storage via Tiny Neural Nets - *Ron Marcus, Alon Rashelbach, Ori Ben-Zur, Pavel Lifshits, Mark Silberstein* – **ACM SYSTOR**

Instant analysis and processing of data between applications *In-Motion*



Example Architecture and Use Cases

We sit between the data source, data processors and data warehouses.

Technology developed by the world leading academics

Inventor / Co-Founder

Chief Technology Officer

Alon Rashelbach PHD

- PhD in Computer Systems and Electrical Engineering - Technion University.
- Expertise in accelerated computing, data science, networking and advanced hardware design.
- Previously at Mellanox (now NVIDIA).
- 5 years in Israel's elite military intelligence **Unit 8200** - oversaw intelligence division and led large team of experts.

Academic Footprint

Academic Publications – **11**

Research Citations – **132**

Industry Experience

Inventor / Co-Founder

Professor **Mark Silberstein**

- Globally renowned computer scientist specialising in networking, processor architecture and cybersecurity, leading the accelerated computing lab at Technion – Israel Institute of Technology.
- Track-record of research directly influencing flagship products of major computing vendors, including NVIDIA, Mellanox, Western Digital, AMD and Intel.
- Contributing expert to projects including Habana Labs (acquired by Intel), and large companies IBM, Intel, Microsoft.
- Secondment to NVIDIA Networking to lead research teams.

Academic Footprint

Academic Publications – **79**

Research Citations – **5724**

Industry Experience

Nol8 founded by alumni of an elite intelligence unit

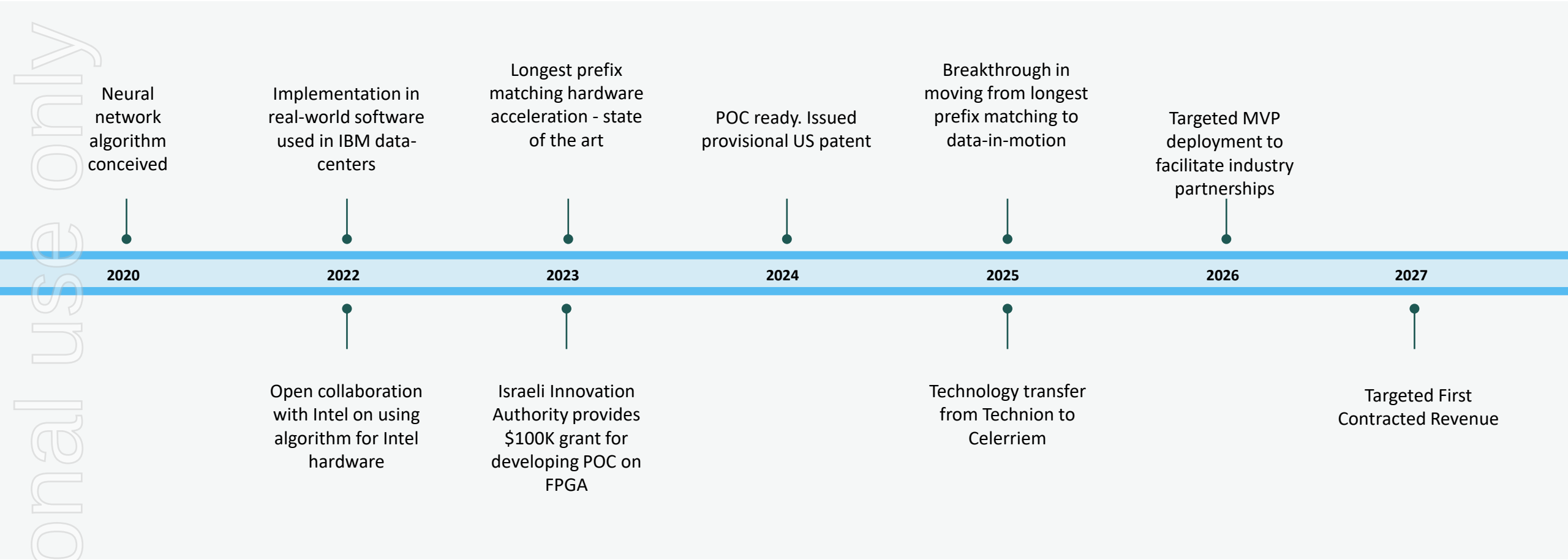
Described as the equivalent of the NSA, Israel's **Unit 8200** is an elite intelligence and cyber-defence unit at the forefront of developing cutting edge networking, data and cyber-security technology.

Many tech giants were founded by graduates of Intelligence Unit 8200	
Wiz	Acquired by Alphabet for $32B in 2025
Checkpoint	$29B valuation
CyberArk	Acquired by Palo Alto Networks for $25B in 2025
Palo Alto Networks	$140B valuation
Wix	$8B valuation
Fireblocks	$8B valuation
Nice	$8.9B valuation
Cyera	$6B valuation
Waze	$1.3B Acquisition by Google in 2013

The average acquisition value for Unit 8200 alumni-led startups surpasses $317 million, with a median deal size of $200 million.[1]

[1] Source: *From Unit 8200 to Wiz's $32B exit: The blueprint for Israeli cyber success* (https://www.calcalistech.com/ctechnews/article/sjltwsk2kg)

5 Years of discovering the data in motion breakthrough



Compatible in all environments

Cloud / SaaS Offering

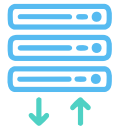
- **Optimized for massive data volumes**
  - 100 Gbps
  - At lower cost
- **Deterministic, predictable latency**
  - Regardless of customer input

Applications:
Log Management and Observability

The Win

Cloud or On-Premises – Single Solution

On-Premises / Edge Offering



- **Optimized for speed**
  - Millisecond-grade latencies
- **Same data volumes (100 Gbps)**
  - Built for critical workloads

Applications:
Finance, AI-Cyber Security, Gaming

Nol8 x Gaming: Real-Time Infrastructure

Gaming has entered the Live-Service Decade – continuous worlds, massive scale, and persistent engagement.

Global gaming market is **$240B** with Live gaming services driving **80%** of revenue[1].

[1] **Why the $183 billion video game industry can't quit microtransactions**
https://www.cnbc.com/2024/03/24/why-the-183-billion-video-game-industry-cant-quit-microtransactions.html

Nol8 is working to build a real-time decisioning engine enabling next-gen interactive entertainment.

> Millisecond-grade responses at 100 Gbps to support millions of current players.

> Powers instant anti-cheat, toxic chat guardrails, adaptive NPCs, and dynamic gaming worlds.

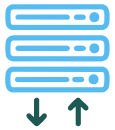
Impact

Smarter gameplay | Lower complexity | Real-time capabilities

Nol8 x fortifAI

Nol8 x Gaming: Real-Time Infrastructure

On Premises (Latency Mode)



- For large studios controlling their backend
- Millisecond-grade responses at 100 Gbps
- Powers instant anti-cheat, toxic chat guardrails, adaptive NPCs, and dynamic worlds
- Real-Time Cheat Detection: Neutralize threats before impact

Cloud / SaaS Offering

- Pay-as-you-go, on-demand cost model
- Massive volumes of events in parallel
- Offloads analytics, observability, and personalization pipelines
- Brings enterprise-grade performance to studios of any size

Impact

Smarter gameplay | Lower complexity | Real-time capabilities

NOL8 x fortifAI

A New Paradigm in Data Processing.

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