



VALLTERA
TECHNOLOGIES

GAME CHANGING DATA ACCESS TECHNOLOGY SYSTEM

Start



Disclaimer



LEADERSHIP VIA INOVATION

Disclaimer

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The purpose of this confidential Investment Memorandum is to provide information on VALLTERA Technologies to those parties who have expressed an interest in VALLTERA Technologies.



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The information contained herein is provided as a guide only and interested parties must make their own enquiries and satisfy themselves as to the nature of the business and its prospects

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Data Speed Problems



I/O Bottleneck

Computer processing power roughly doubles every two years while for the same period data access speed improves only 7 to 11%.

Data Storage

We are going to witness 50% growth of data being stored per year over the next few years.



Outdated Infrastructure

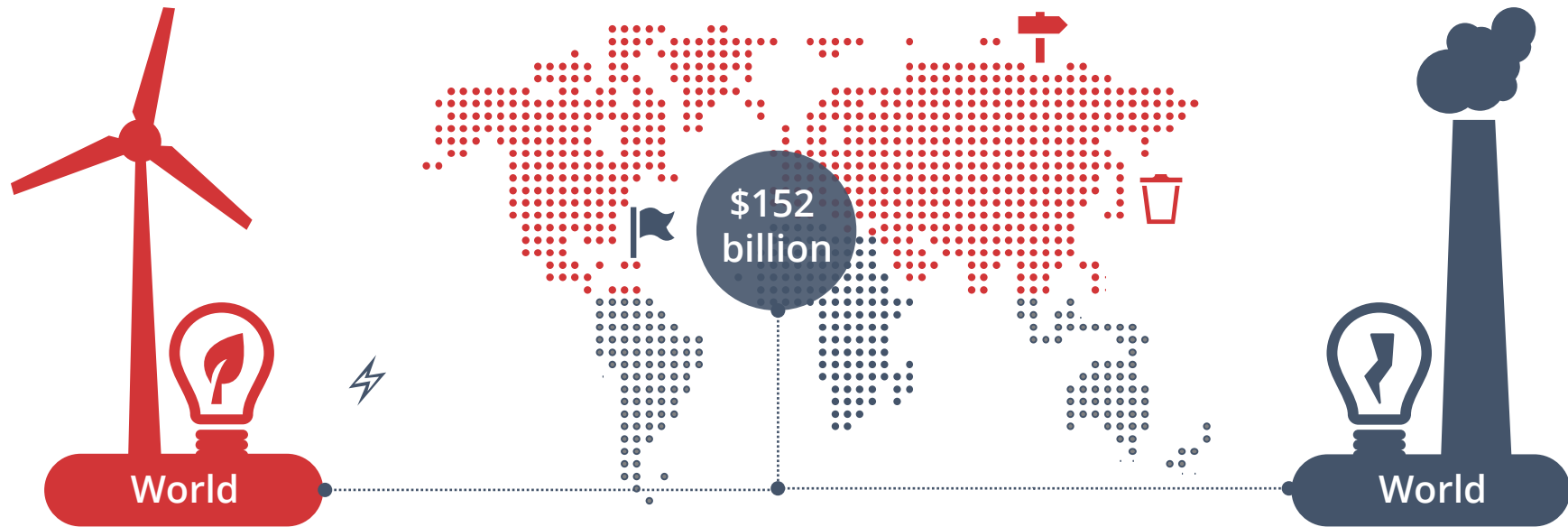
Today, we are using the data storage technology from the year 2000 for applications and systems in 2020.

Energy Efficiency

The worldwide energy consumption of data centers has increased dramatically.



Energy Problems



“U.S. data centers use more than **90 billion kilowatt-hours** of electricity a year, requiring roughly **34** giant (**500-megawatt**) coal-powered plants.”

Global data centers used roughly **416 terawatts** (4.16×10^{14} watts) (or about **3%** of the total electricity) last year, nearly **40% more** than the entire **United Kingdom**.



IoT

IoT is projected to exceed 20 billion devices by 2021 (some analysts believe we will reach that number this year alone)

Global energy Usage

About five percent of total global energy usage is by electronics. That number is projected to grow to at least 40 percent by 2030 unless there are major advances made in the lowering of electricity consumption

Next 4 years

With global data traffic more than doubling every four years, data centers are coming under scrutiny

Next 5 years

U.S. researchers, meanwhile, expect global power consumption to triple in the next five years. Trends such as a billion more people coming online in developing countries, the Internet of Things (IoT), driverless cars, robots, and artificial intelligence (AI) are major drivers of unrelenting growth.

2040

Overall number could surge as high as 14 percent by 2040 as a torrent of internet-connected devices, high-resolution photos, streamed videos, emails, surveillance camera footage, cell phones, and smart TVs require more compute power, greater amounts of network bandwidth, and ever-higher amounts of storage capacity.

Solving the problems

Introducing VALLTERA **EIO** Data Access Technology and resolving **I/O Bottleneck and Data Access Problem**



90x increased **Data Storage Speed**



10x increased **Energy Efficiency**



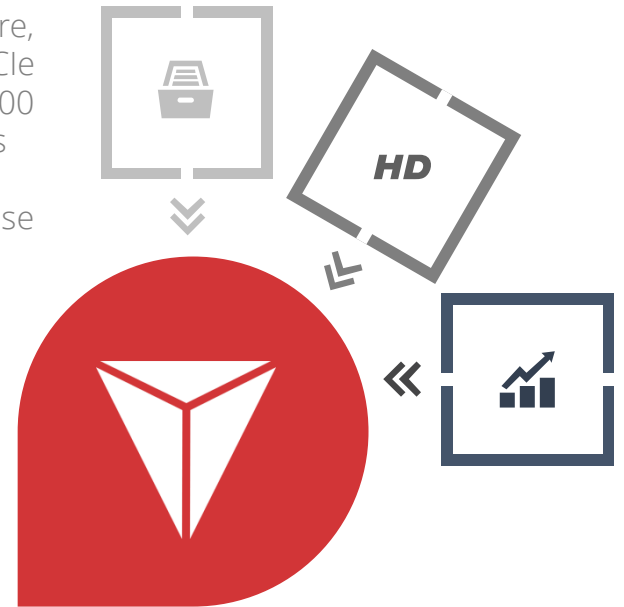
10x lower **Costs**

Our Technology

- It is time to re-think and re-invent new solutions for the high-performance computing needs of today's applications
- The VALLTERA-Tech Exascale I/O (EIO) system is based on new hardware, software, and algorithms for data transfer. It will initiate high throughput 11GB/s (with PCIe 3.0) or between 22 – 32GB/s (with PCIe 4.0) per host controller, high IOPS (up to 100 Million IOPS per storage system), low-latency, and extreme scaling to Exabyte levels
- Our solutions directly solve the high demands for data throughput and response times for large-scale applications and offer the **best worldwide** specifications

VALLTERA EIO X1 Storage accelerators scale up to:

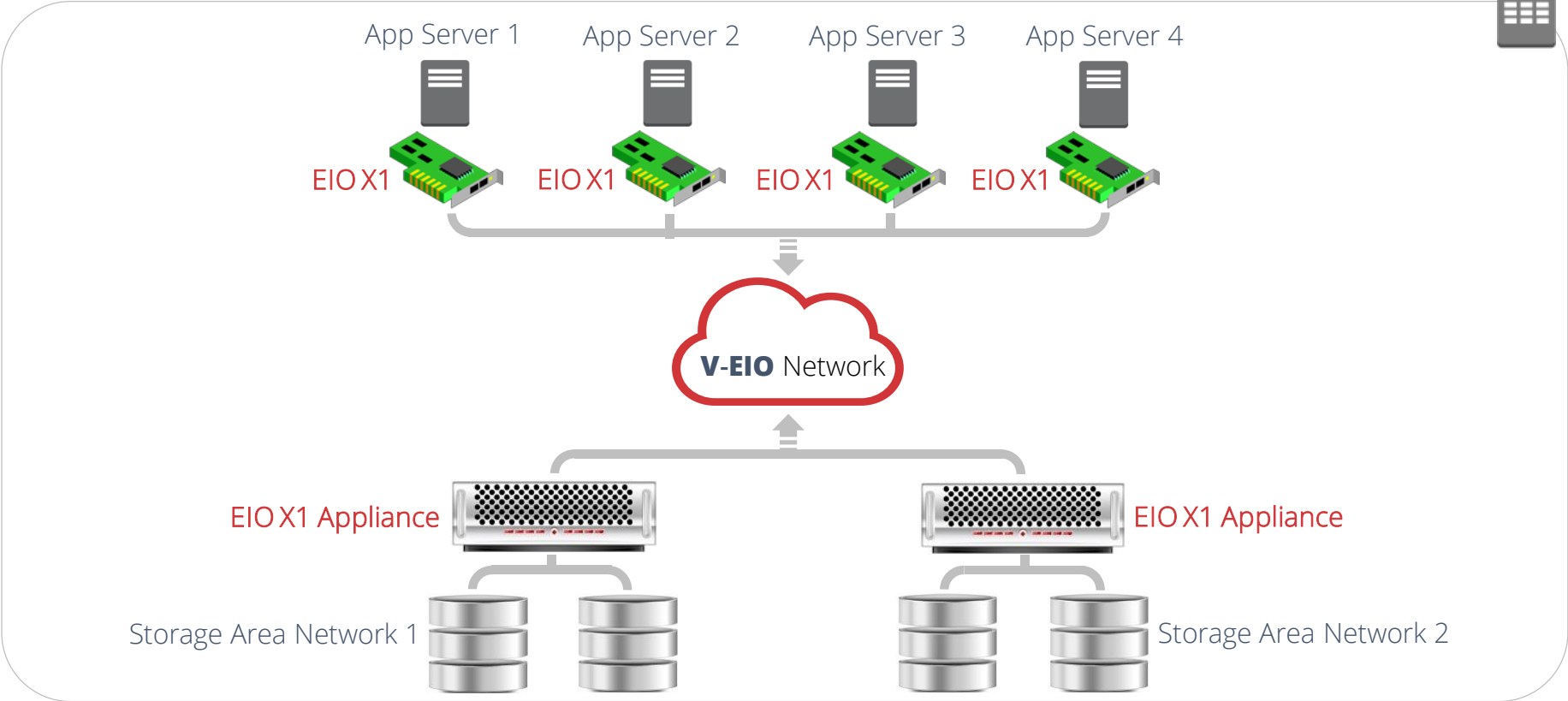
- 100 millions of IOPS (competition only 300 thousand IOPS)
- Terabytes per second throughput
- Capacities to the Exabyte level
- 99 x Faster than the current leading solution



Our Products – VALLTERA EIO X1



CORPORATE DATA CENTER



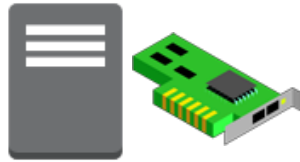
Our **Products** – VALLTERA **EIO X1**



CORPORATE DATA CENTER



EIO X1 – PCIe Card



App Server



EIO X1 Appliance Device



Storage Area Network 2

Additional areas of implementation

Artificial
INTELLIGENCE



Advanced
SECURITY



Internet of
THINGS












Gaming
INDUSTRY



Competitors

VALLTERA-Tech **vs.** Current Market Leaders

	VALLTERA EIO	Fusion IO	Marvel	Seagate	QLogic
 Bus Interface	PCIe 3.0x16	200Gb/s	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8
 IOPS	100M per System	285K	220K	162K	95K per Adapter
 Latency	6µs	15µs	22µs	50µs	N/A
 Sequential Throughput	12.0 GB/s per Controller	2.6 GB/s	2.0 GB/s	2.0 GB/s	1.6 GB/s per Controller
 Capacity	Up to 1M Geophyte *	6.4TB	1.5TB	1.86TB	400GB per Adapter
 Scaling	Yes	No	No	No	Yes
 Performance	High	Med	Med	Med	Low
 Price	Low	Very High	Med	High	High
 Network Speed	200Gb/s	N/A	N/A	N/A	16Gb/s

* Total addressable globally shared capacity

WORLDWIDE **STORAGE MARKET** TODAY!



\$ 50
billion

The overall turnover from the Storage market exceeds **\$50 billion** per year

WORLDWIDE **VIDEO GAMING MARKET** TODAY!



The overall turnover from the Video Gaming market exceeds **\$120 billion** per year



Current situation

The \$120 billion gaming industry is going through more change than it ever has before, and everyone is trying to cash in

Future Growth

The video game industry is growing so fast that some believe it will reach over \$300 billion by 2025. With billions of dollars in profit and over 2.5 billion gamers around the world, we can expect video game platforms to continue developing in 2020

Next 2-3 years

In the next 2-3 years there will be a demand for B2B solutions that unfold, build and manage in-game items economies for the game developers. And the competition and amount of tools in this sector will only increase.

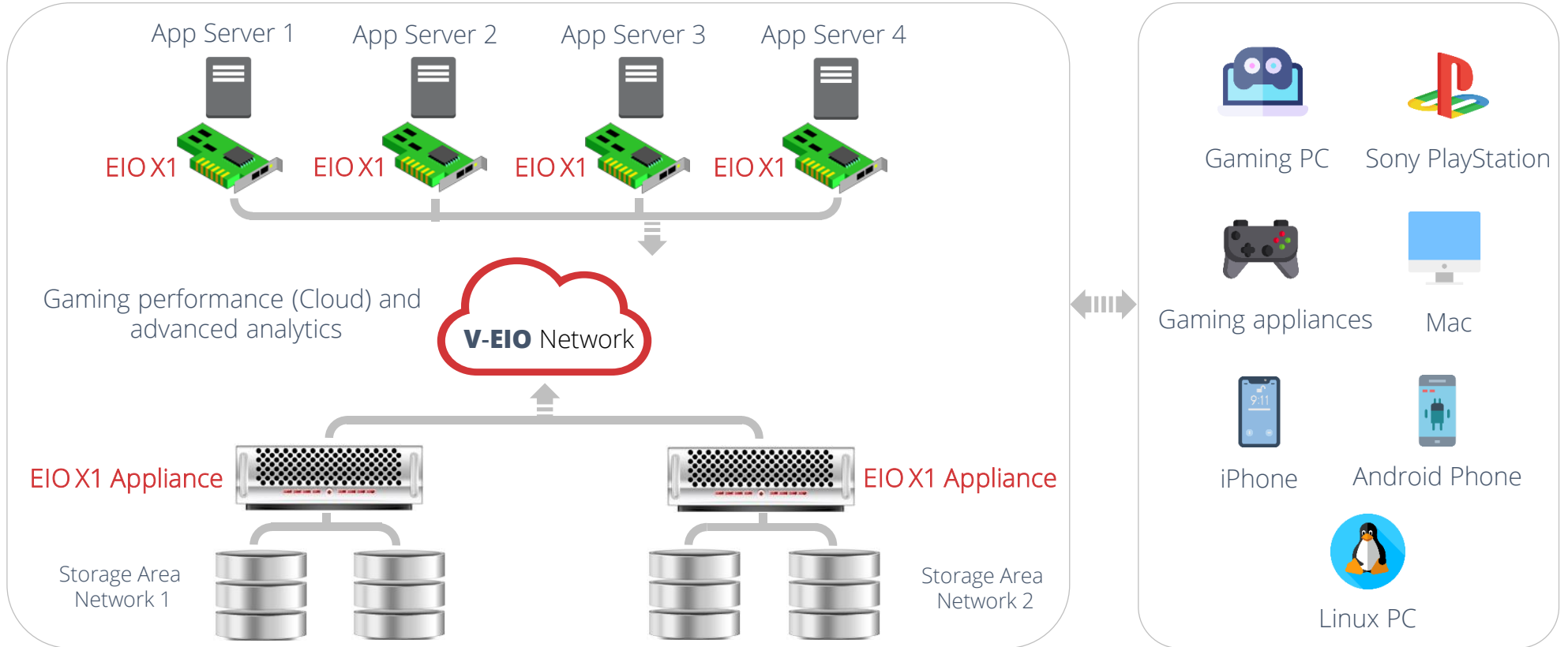
Trends

The new industry rules following a free-to-play model and the growth of subscription cloud services demand new monetization pathways from the game developers. For this approach, the developers would need efficient data analyses, which could be achieved only with VALLTERA Technology.

Our Products – VALLTERA EIO X1

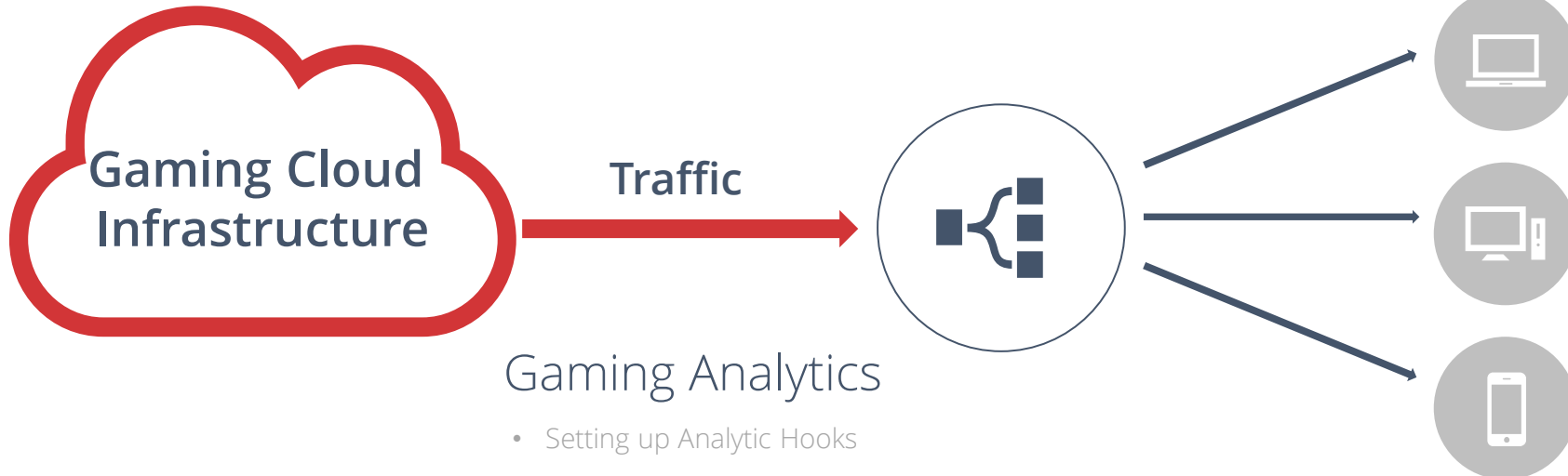


GAMING DATA CENTER



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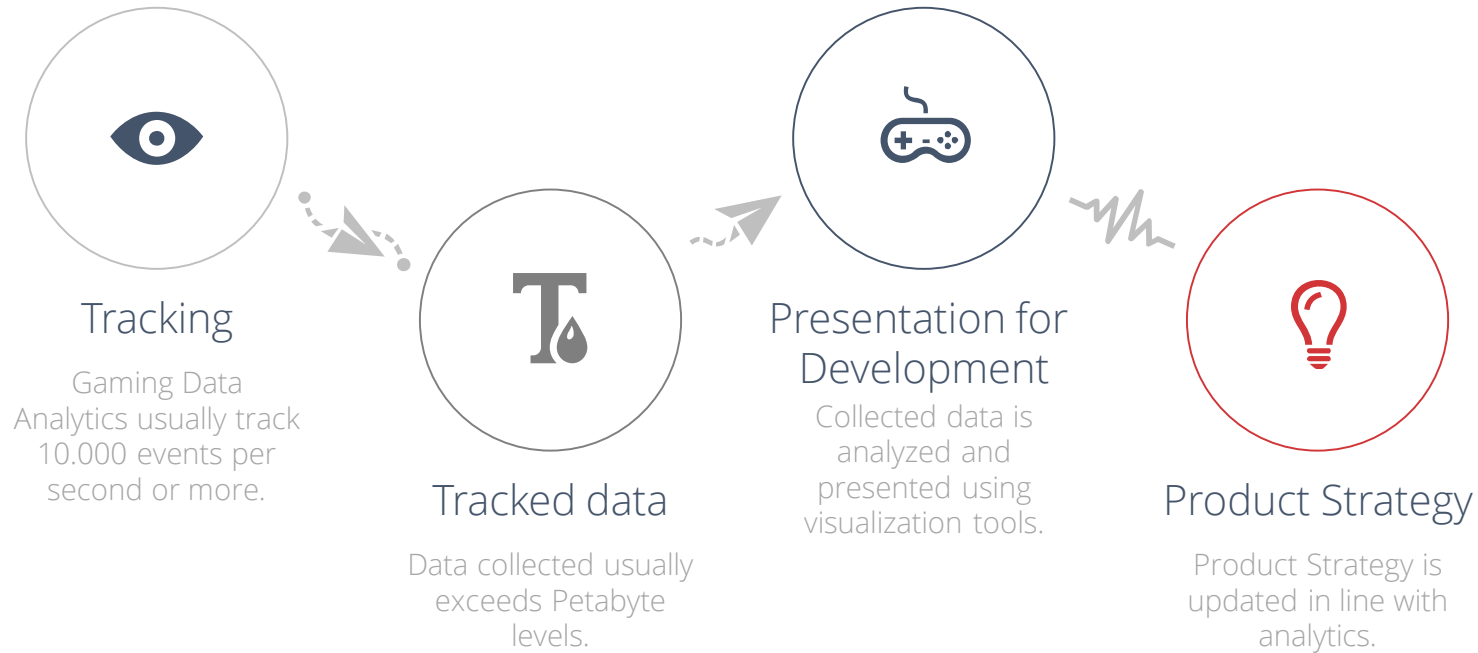


Gaming Analytics

- Setting up Analytic Hooks
- Analyzing User Behavior
- Building Data Visualization Tools
- Presenting Findings

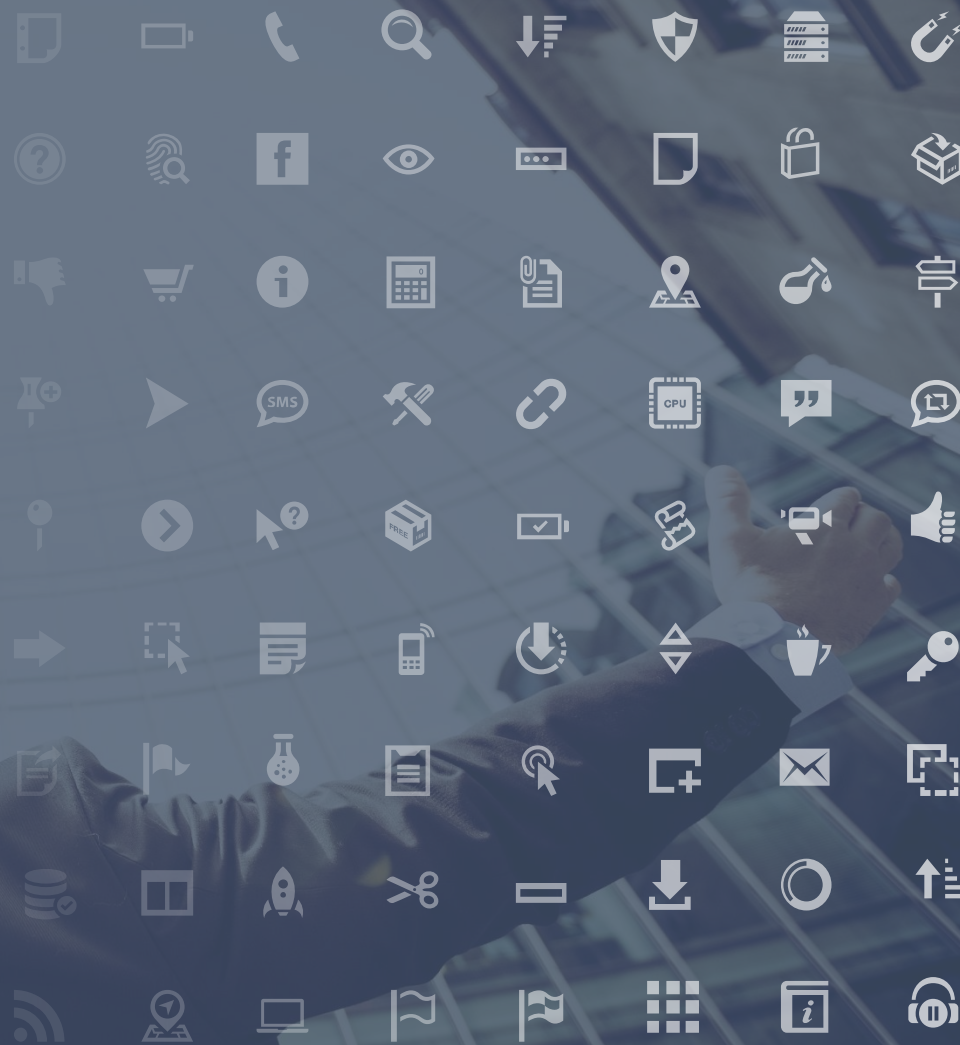
Gaming Big **Data** Analytics

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WORLDWIDE **AI Market** TODAY!

\$ 39.9 billion



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High Growth

The global artificial intelligence market size was valued at USD 39.9 billion in 2019 and is expected to grow at a compound annual growth rate (CAGR) of 42.2% from 2020 to 2027.

Impact to Markets

Gartner Says AI Augmentation Will Create \$2.9 Trillion of Business Value in 2021



Data Access Demand

Since the data storage and recovery has become more economical, healthcare institutions and government agencies are building unstructured data accessible to the research domain.

VALLTERA-Tech Role

The next-generation computing architectures, with access to rich datasets, are encouraging information scientists and researchers to innovate faster.

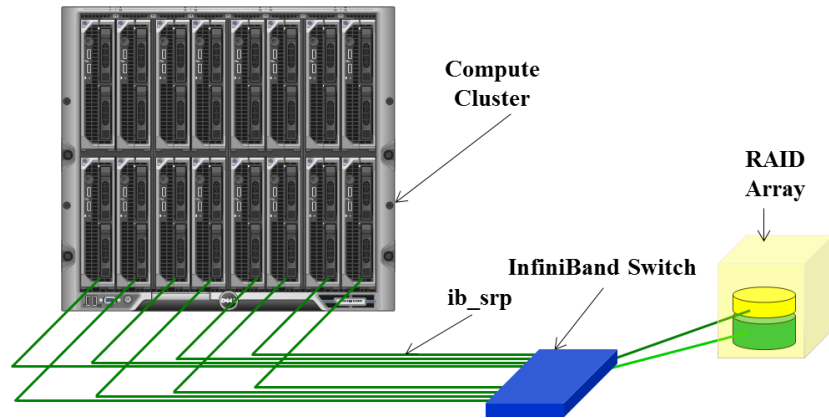
Deep learning led the market and accounted for more than 39.0% share of the global revenue in 2019.

VALLTERA EIO X1 - AI Infrastructure

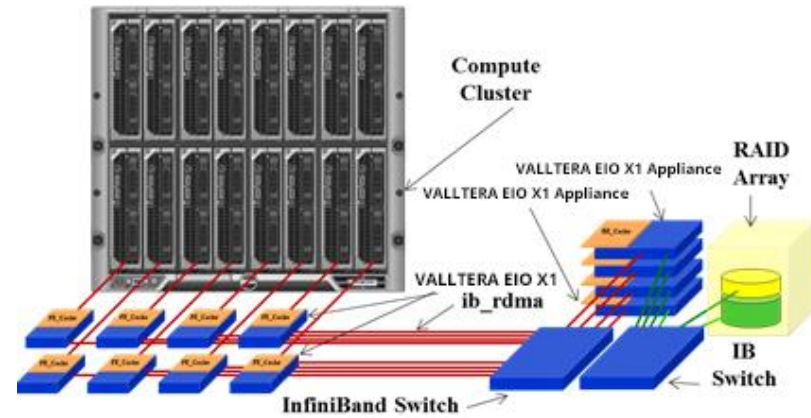


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- VALLTERA EIO technology is a clean-sheet redesign of hardware and software using state-of-the-art algorithms to provide new levels of performance
- This new VALLTERA EIO solution combines software and hardware to aggregate data I/O while leveraging existing high-speed storage networks with massively parallel data paths
- VALLTERA EIO will enable cloud and enterprise applications to have 100 times faster data access compared to the legacy storage systems



Current AI infrastructure



VALLTERA-Tech AI Infrastructure



Government Labs and Agencies

Military, NSA, Homeland Security, Intelligence Agencies, Ministries of Interior, etc.



Global 2000 Companies

Wall Street, International Banks and Insurance Companies, etc.



Gaming Companies and Providers

Sony, Microsoft, Nintendo, Apple, etc.



Tech-Giants

Vendors of Server and Storage products, HP, Dell, IBM, Oracle, Netapp, Lenovo, NEC, Fujitsu, Toshiba, etc.



Technology and Cloud Providers

Amazon, Microsoft, Oracle, Verizon, Comcast etc.



Entertainment sector

Hollywood, TV stations, NETFLIX, Amazon Prime, etc.



Laboratories and Universities

Various Academic and Research Institutions with HPC infrastructure.

Our Team



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Zoran Savic
CEO & Co-Founder



Katarina Tulic
Chief Operating Officer



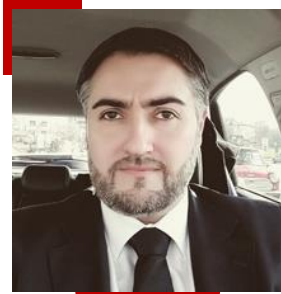
Robert Lai
Chief Marketing Officer



George Bojic
Chief Strategy Officer



Nedeljko Milosavljevic
IP and Commercialization
Adviser



Zoran Savic
CEO & Co-Founder



About

- More than 20 years of experience in ICT sector
- CEO and Founder of VALLTERA Software Solutions – eGov Software Solutions
- Sales and Marketing Director in several ICT Companies
- Previously United Nations Development Programme (UNDP) ICT for Development Expert

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Katarina Tulic
Chief Operating Officer



About

- Over 12 years of management, operations and development experience
- Previously Executive Director at VALLTERA Software Solutions
- Previous executive positions include TSG Group, SRC.SI
- Highly skilled Management Executive with strategic overview of the planning, development and forecast activities



Robert Lai
Chief Sales Officer



About

- Over 30 years of executive management, marketing, and sales experience
- Previous positions include Tandem, Informix, Data General, Vmark, LSI Logic, and NetApp
- Highly Skilled Sales Executive with outstanding results – quarter, 300% of goal, overall 150% of yearly sales target of \$100 million
- Managed Hong Kong Operations at Tandem Computers Inc., to lowered expense/revenue ratio, first year profitability, and outstanding sales revenues. Sold and installed Hong Kong Stock Exchange.



George Bojic
CSO



About

- Over 25 years of executive management, trade & finance, multi-national corporate structuring and asset management experience
- Founder of MegaServe Group, Co-founder of CyCap Opportunity Fund
- Previous Executive positions include: Director of MegaServe, PM Lucas Enterprises Ltd., CyCap, CBL Steel Ltd, M&R at the Austrian Trade Commission (Chamber of Commerce) and many others



Nedeljko Milosavljevic

IP Adviser



About

- Over 7 years of Executive Management, Research and IP Patent Practice, Strategy, and Management experience
- Currently, Vice-President for Communication and Marketing - ASTPProton Knowledge Transfer Europe
- Board Member - High Energy Physics Technology Transfer Network – HEPTech, Geneva, Switzerland

Company's IP Protection

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USA Patent Law Framework

Our Technology has been protected and patented (5 patents)

Additional patents have been filed

5th patent confirmed (valid until 2036) and two additional patents prepared for submission

20-30 years of protection

With the smart patent submission approach, we have secured the maximum period for technology protection

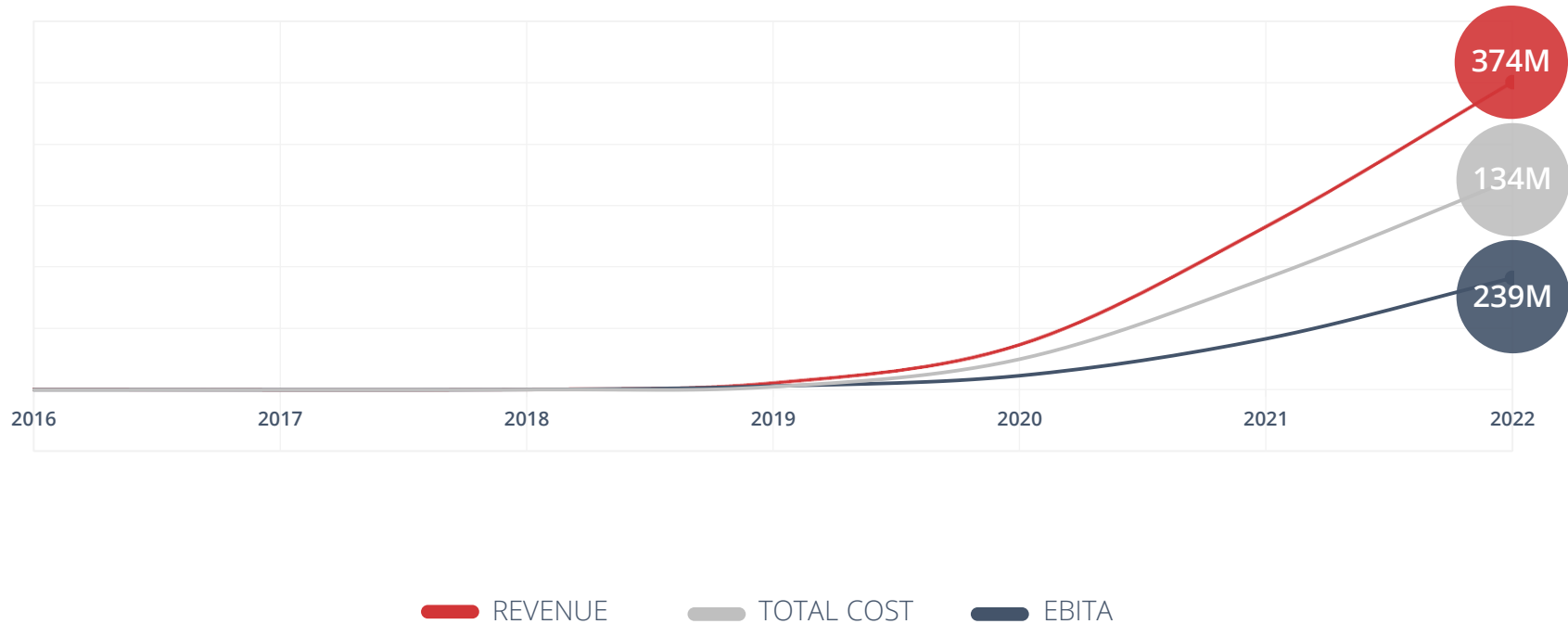
Royalties and license sales

Revenue stream from licenses is very important income channel

FINANCIAL Overview

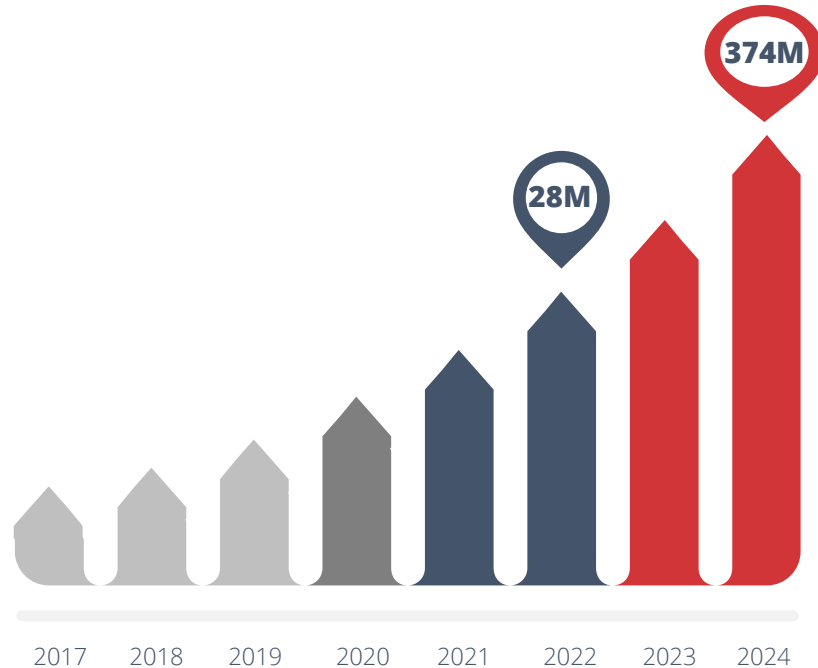


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Multiple **Revenue** Streams

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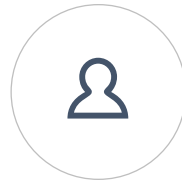


The main advantage of our technology is that it can be applied under the current ICT standards, with today's hardware and software solutions.

- OEM and Fees from licenses 
- Direct Sales - VALLTERA EIO X1 Appliance 
- Direct Sales - VALLTERA Storage Line 
- Maintenance of the products 

Experienced **Team**

Experienced Team with proven skillsets and high competence



Multiple **Revenue** Stream

Revenue from licenses, direct sales of products and maintenance services

First **Mover** Advantage

With game changing EIO Technology Company is entering the market with significant advantage



Protected **IP**

20-30 years of Patent Protection with smart patent submission Strategy

Scalable **Business** Model

Scalable Business Model enables Company to promptly react to all possible market challenges

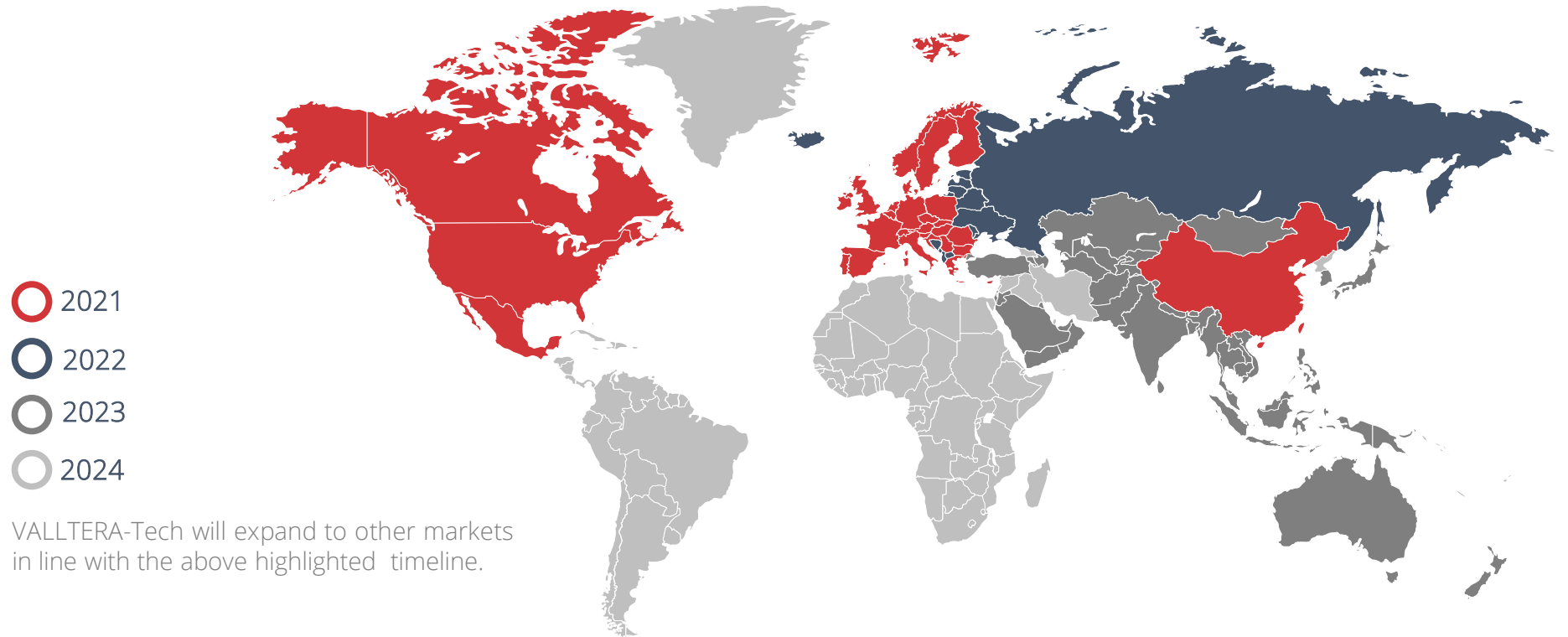


Recurring **Revenues**

Predictable and stable revenue in the future, which can be predicted with a high degree of certainty will enable Company continuous growth

Expansion to other **Markets**

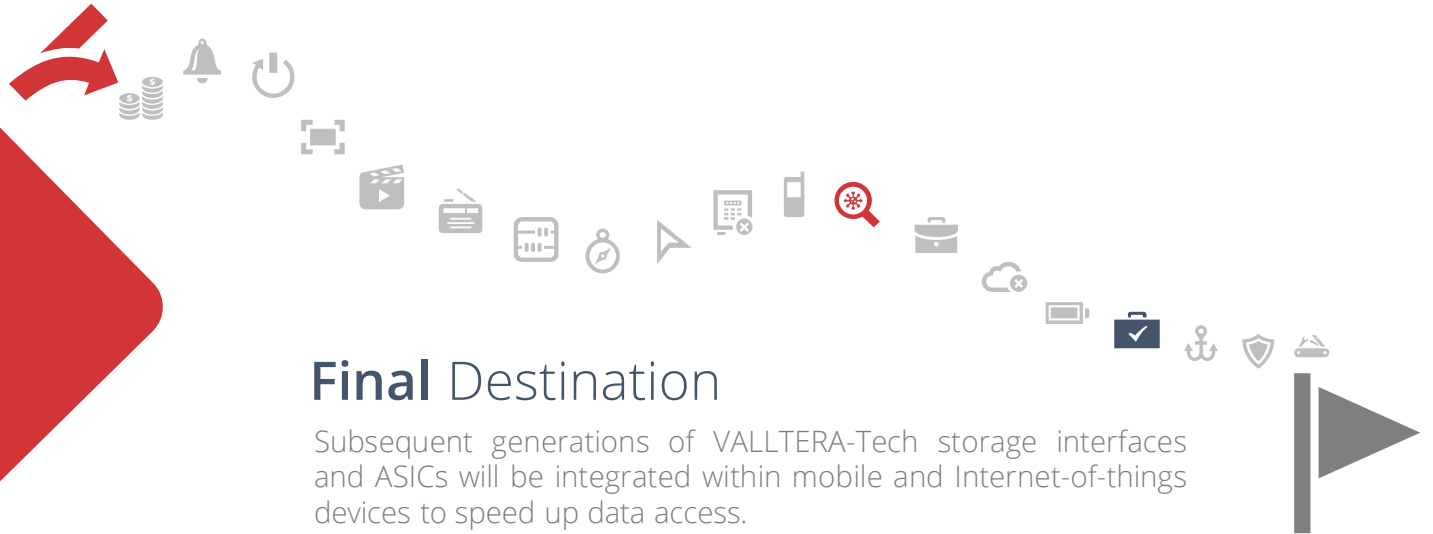
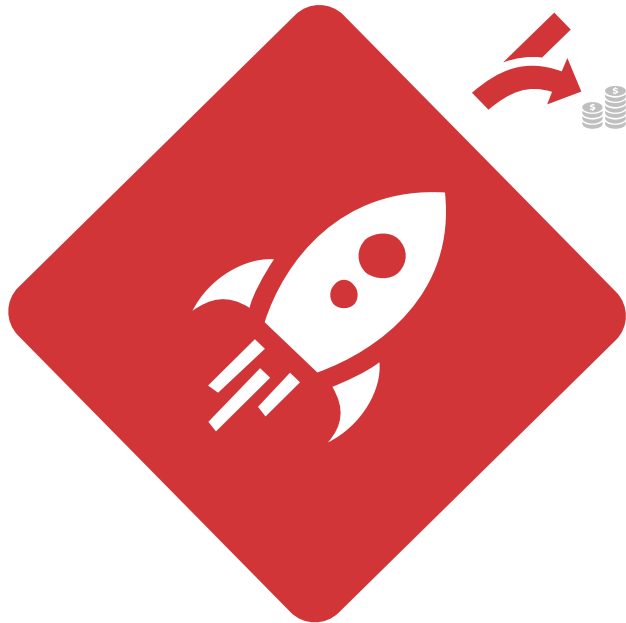
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VALLTERA-Tech will expand to other markets in line with the above highlighted timeline.

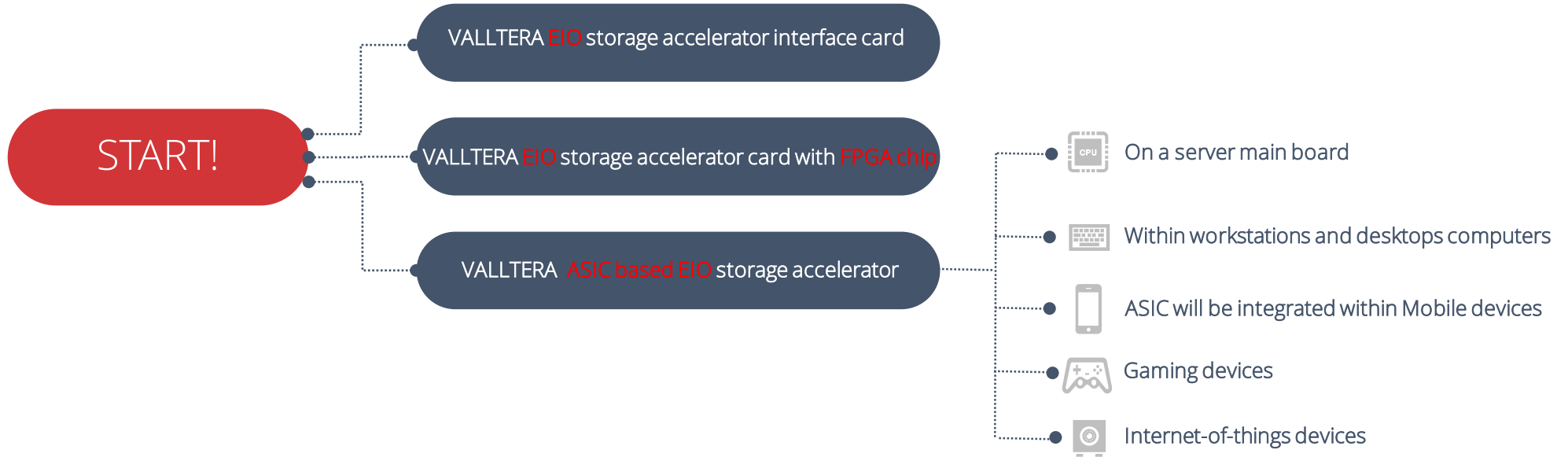
EIO Advanced Development

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EIO Areas of **Implementation**

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The VALLTERA-Tech Storage Technology brings together applications and data to accelerate application performance and data access speeds up to 100X. The VALLTERA-Tech storage I/O performance gains are beyond what is possible with SSD and legacy HD based storage systems.

Marketing Channels

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Events
VALLTERA-Tech will be present on all the major HPC Events and related Tech Shows, in order to increase visibility of EIO x1 Product line, and to establish the close relationship with partners and clients.

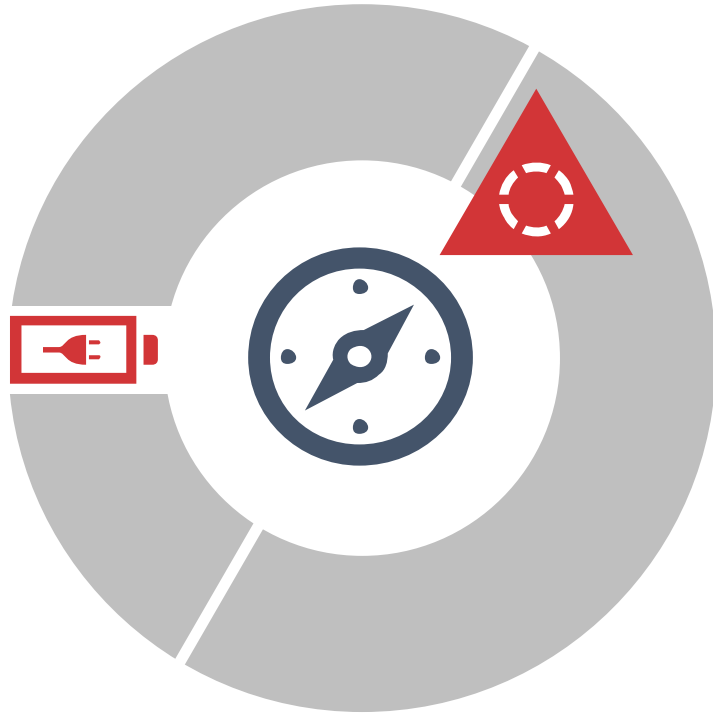
Facebook
Company's Facebook page will enable us to promote all innovation activities with the special focus on our green tech components.

Twitter
Twitter will enable us efficient way of communication with tech influencers , partners and clients. With tailored twits we would be able to send our message to the General Public.

LinkedIn
As a major network for professionals, LinkedIn will be used to launch specific campaigns related to our Innovations and green-tech initiatives.

Financial Requirements

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Current Investors

- VALLTERA-Tech is 100% owned by the Company and Co-Founders
- The Company is seeking to raise a first round of the investment, a total of \$ 30.000.000,00

Invest in 2021



VALLTERA-Tech is going to launch the product to the World Market within the 9 months timeframe.

Revenue **\$374 million** in 2024



Our target is to reach 0.5% of the Global market revenue within next 4 years.

EBITA **\$239 million** in 2024



Join our exciting enterprise and experience more than a 10-fold return of your investment in four years.

Use of **Invested** Funds

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Company **Contacts**



LEADERSHIP VIA INOVATION



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Twitter

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LinkedIn

[VALLTERA-Tech](https://www.linkedin.com/company/VALLTERA-Tech)



Thank you for **your interest**