

NexOptic

A Better View

AI Solutions for unprecedented energy savings, data compression, image enhancement and more.
For today and for the metaverse.



NexOptic

- Headquartered in Vancouver, Canada
- Korean Subsidiary, Seoul – NexOptic Asia
- Specializing in AI Computer Vision (CV)
- Publicly Traded – Canada/US/Germany
- ALIIS™ Created in 2019
- 16 Patents Filed – 7 Granted/9 Pending
- Revolutionary Artificial Intelligence



CHAIRMAN

Mr. Geruson's experience spans several CEO roles including **Lexmark International**, a multibillion-dollar imaging technology and solutions company with over 10,000 employees, and an AI Company that exited at 12X revenue. Mr. Geruson also held Senior Vice President and Executive positions at **Nokia, IBM, Toshiba** and **McKinsey & Co.**

CHIEF EXECUTIVE OFFICER

Mr. McKenzie's experience includes Founder, CEO, and CFO roles for several publicly traded companies in software, AI and strategic minerals. Mr. McKenzie has overseen jv's, asset sales, license agreements and mergers and acquisitions ranging from start-ups to multinationals with market capitalizations exceeding USD \$600 billion.



STRATEGIC PARTNERS



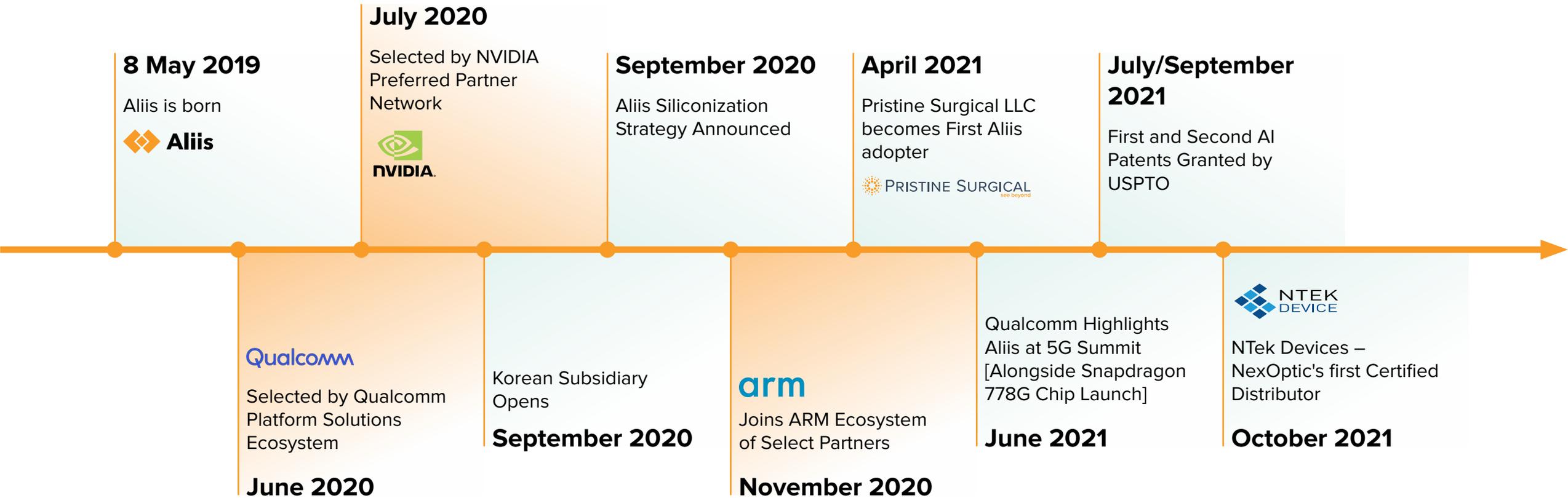
PREFERRED
PARTNER

arm

Qualcomm
advantage network

platform solutions
ecosystem member

NEXOPTIC BENCHMARKS



A RAPIDLY EVOLVING LANDSCAPE



Semiconductor technology has recently broken through the longstanding computational barriers holding back AI Computer Vision, creating lucrative opportunities for market players. New products and innovations are the key strategy to capturing market share in this rapidly evolving market.

The AI Computer Vision Market is valued at USD 16B in 2021 reaching USD 51B by 2026 (26.3% CAGR) driven by non-traditional and emerging applications. Software solutions account for over 60% of total market share.

NexOptic is at the forefront of this frontier, providing a competitive patented and patent-pending suite of software solutions that address key challenges in the AI Computer Vision field.

Owing to NexOptic's efficient AI algorithms, NexOptic addresses rising security concerns related to cloud-based image processing by processing on the edge in real time.

NexOptic's key innovations in image and video data compression are able to solve the ballooning bandwidth and storage costs associated with the proliferation of imaging technology across industries such as consumer, security & surveillance, healthcare, automotive, manufacturing and retail.

AI INNOVATIONS, PRODUCTS AND CONVENTIONS

CREATING AN URGENT NEED FOR IMAGING AND DATA MANAGEMENT TOOLS



**400 million
'video visits'
to doctors**

worldwide in 2021 up
from 60 million in 2019

[Deloitte]



**5 billion
internet users
in 2023,**

up from 3.9 billion
in 2018

[Cisco]



**\$110 billion
global spending
on artificial
intelligence (AI)
in 2024,**

up from \$50.1 billion
in 2020.

[IDC]

**22%
of all workdays**

will be from home
after Covid-19 ends,
compared with just
5% before

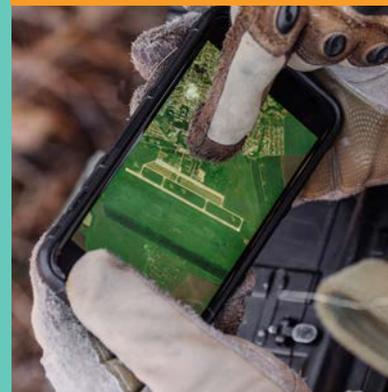
[Becker Friedman Institute]



**65%
of medical
imaging
workflows**

that by 2026 will use
AI to detect underlying
disease and guide
clinical intervention.

[IDC]



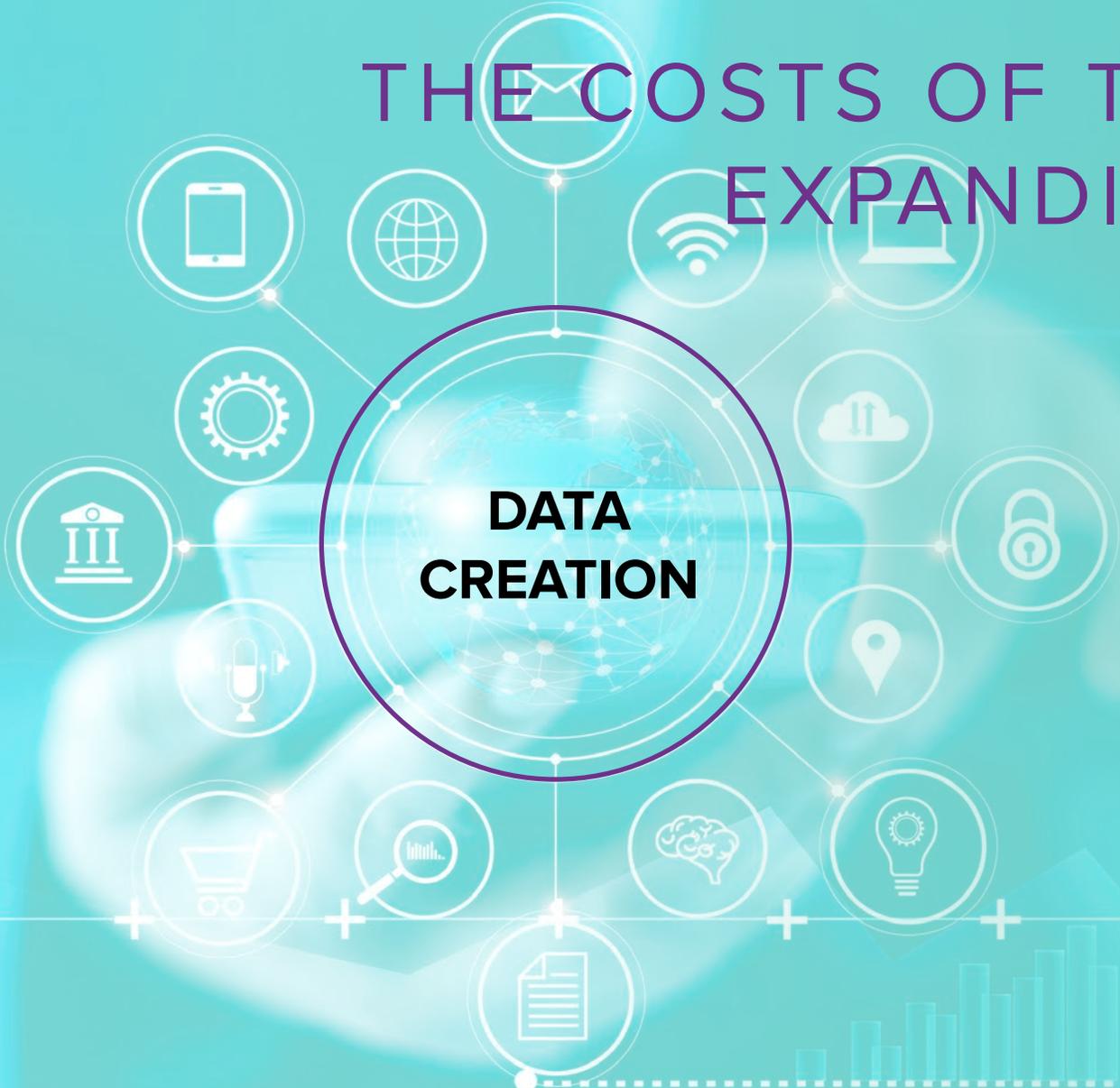
**45%
of repetitive
work tasks will be
automated and/
or augmented**

by using "digital co-
workers," powered by
AI, robotics, and RPA.

[IDC]



THE COSTS OF THE EXPANDING DATASPHERE



DATA CREATION

- Every minute we are uploading 216,000 images and videos to Instagram alone.
- Every day, 306.4 billion emails are sent, and 500 million Tweets are made.
- Globally, there are 4.28 billion mobile phone users.
- By 2025 the cloud structure will receive 200 ZB of data = By 2035 it will be 2,000 Zettabytes equal to **2,000 Trillion GB.**
- Global internet activity is growing at 26% annually, with video streaming accounting for 58% of total traffic.

THE COSTS OF THE EXPANDING DATASPHERE

**STORAGE
& STREAMING**

**ENERGY
CONSUMPTION**

- 85% of all information being processed and stored by organizations is unstructured data and is considered redundant, obsolete or trivial. Only 15% of all stored data can be classified as business-critical information.
- An average mid-sized organization that holds 1000TB of data spends an estimated \$650,000 annually to manage their information.
- Globally, 9.3 trillion photos will be stored in 2022, requiring 28000 petabytes of streaming & storage.
- Information and communication technology is expected to account for up to 25% of global energy use by 2025.

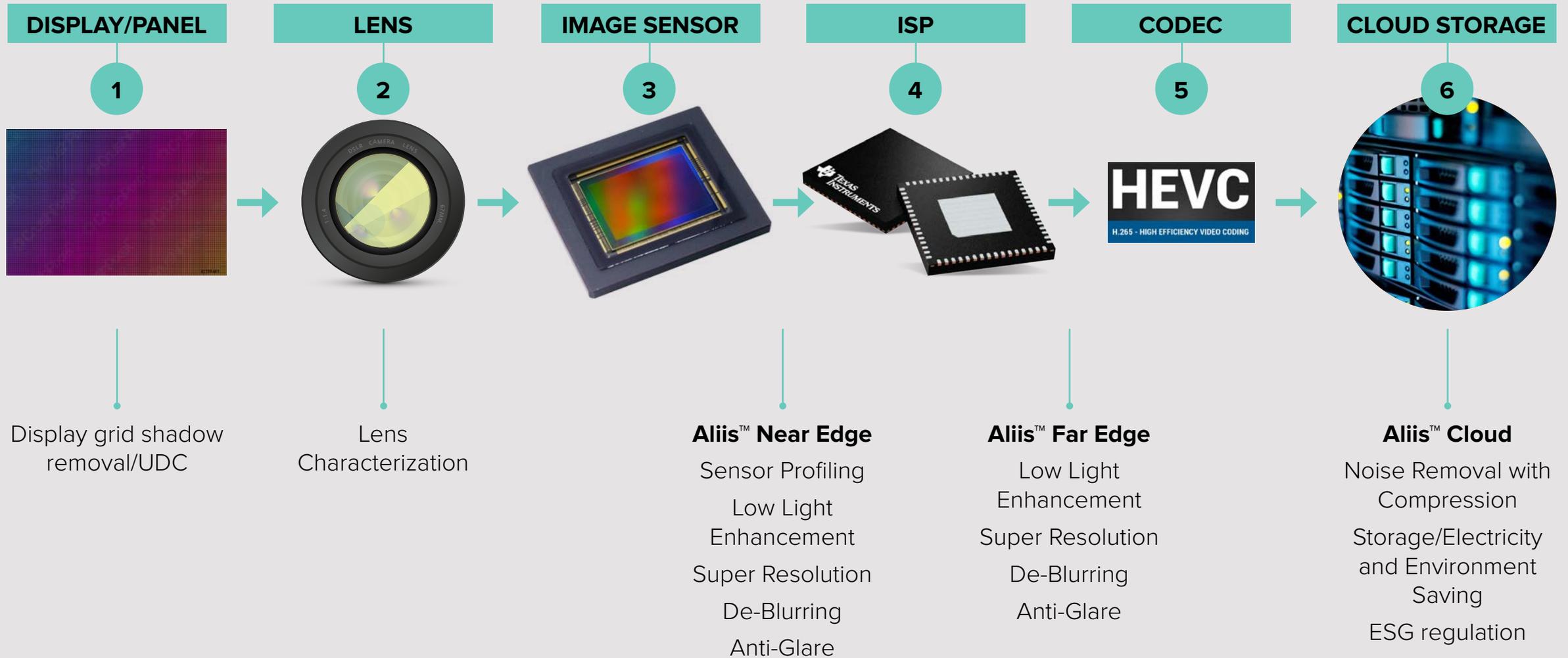
INTRODUCING:

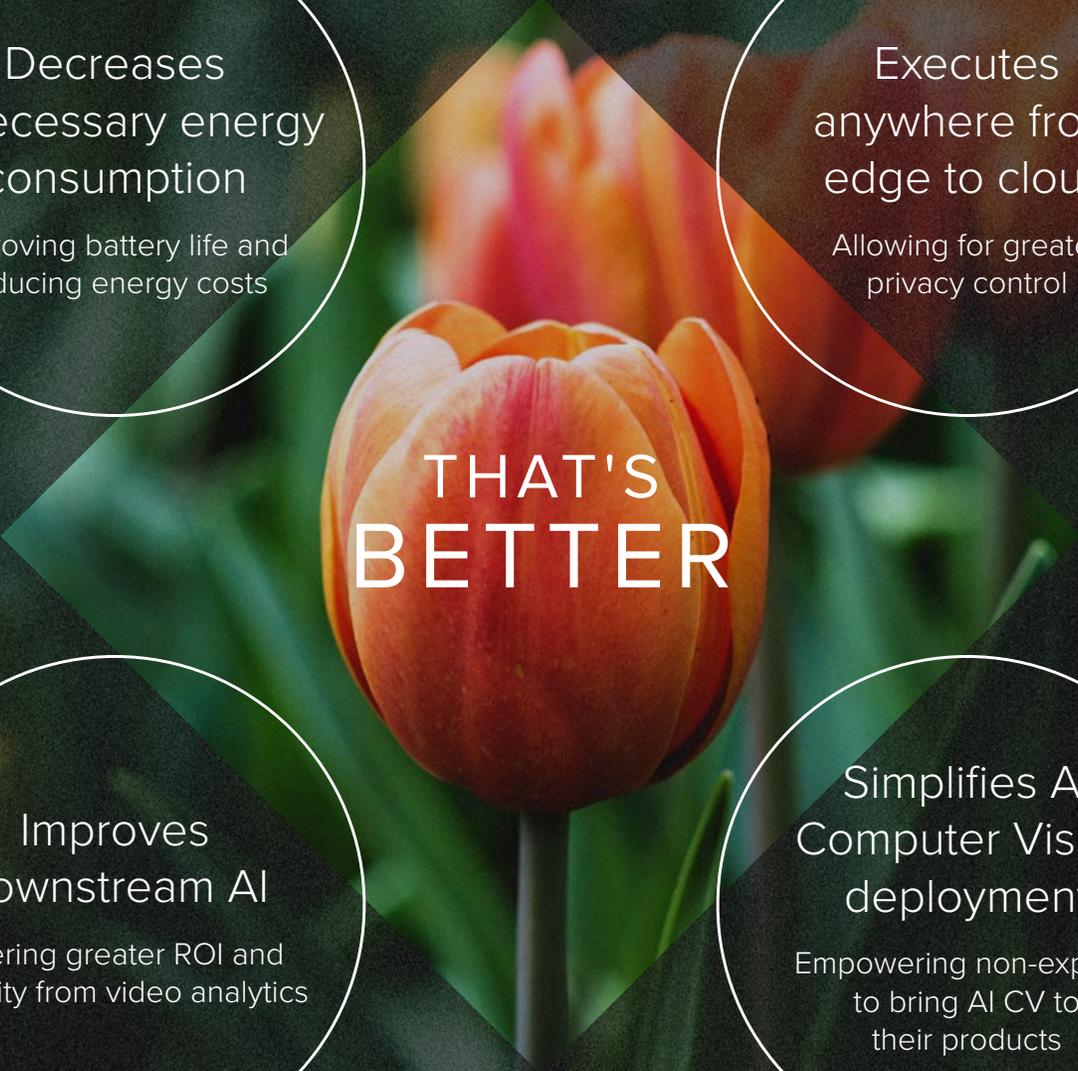


(ALL LIGHT INTELLIGENT IMAGING SOLUTIONS)

- NexOptic provides AI Computer Vision solutions for existing and emerging applications.
- Aliis™, NexOptic's keystone offering, is a **suite of patented AI solutions** that learns directly from real-world data, distills its knowledge into optimized algorithms, and embeds into any application.
- Working pixel-by-pixel Aliis™ transforms image and video in real-time using **patented Neural Network technology**.
- Aliis™ uniquely perfects image characteristics to provide **significant bandwidth and storage savings**, enhanced image quality and supercharged downstream AI applications.
- Aliis™ can be deployed on the edge, the cloud or anywhere in between thanks to its extremely efficient and configurable design.

WHERE ALIIS LIVES & PLAYS





THAT'S
BETTER

Compresses
image and video data
up to 10x

Decreasing storage and
streaming costs

Decreases
unnecessary energy
consumption

Improving battery life and
reducing energy costs

Executes
anywhere from
edge to cloud

Allowing for greater
privacy control

Enables faster
shutter speeds

Supplying sharper, more stable
images and video

Compensates
for environmental
artifacts

Reducing surveillance
installation costs

Improves
downstream AI

Offering greater ROI and
security from video analytics

Simplifies AI
Computer Vision
deployment

Empowering non-experts
to bring AI CV to
their products

Transforms
images and video

Enabling new and existing
products with premium
image quality

APPLICATIONS



MOBILE

Higher quality images, better battery life, lower data costs.

Unique hardware designs like under-display cameras.



SECURITY & SURVEILLANCE

Remove noise to lower storage and streaming costs.

Reduce environmental effects to minimize installation complexity and costs.



LICENSE PLATE DETECTION & RECOGNITION (ALPR)

Improve ALPR performance to increase ticketing revenues to municipalities.



AUTOMOTIVE

Remove glare and see in darker conditions to provide safer ADAS systems with faster response times.



HEALTHCARE

Improves diagnostic and surgical experience.



RETAIL

Improved video analytics for loss management and targeted advertising.



MANUFACTURING

Expanded capabilities for inspection and automation.

Foundational layer for "lights out" factories.

BUSINESS MODEL

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graph TD; BM[BUSINESS MODEL] --- L[LICENSE OR SUBSCRIBE]; BM --- P[PARTNERSHIPS]
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LICENSE OR SUBSCRIBE

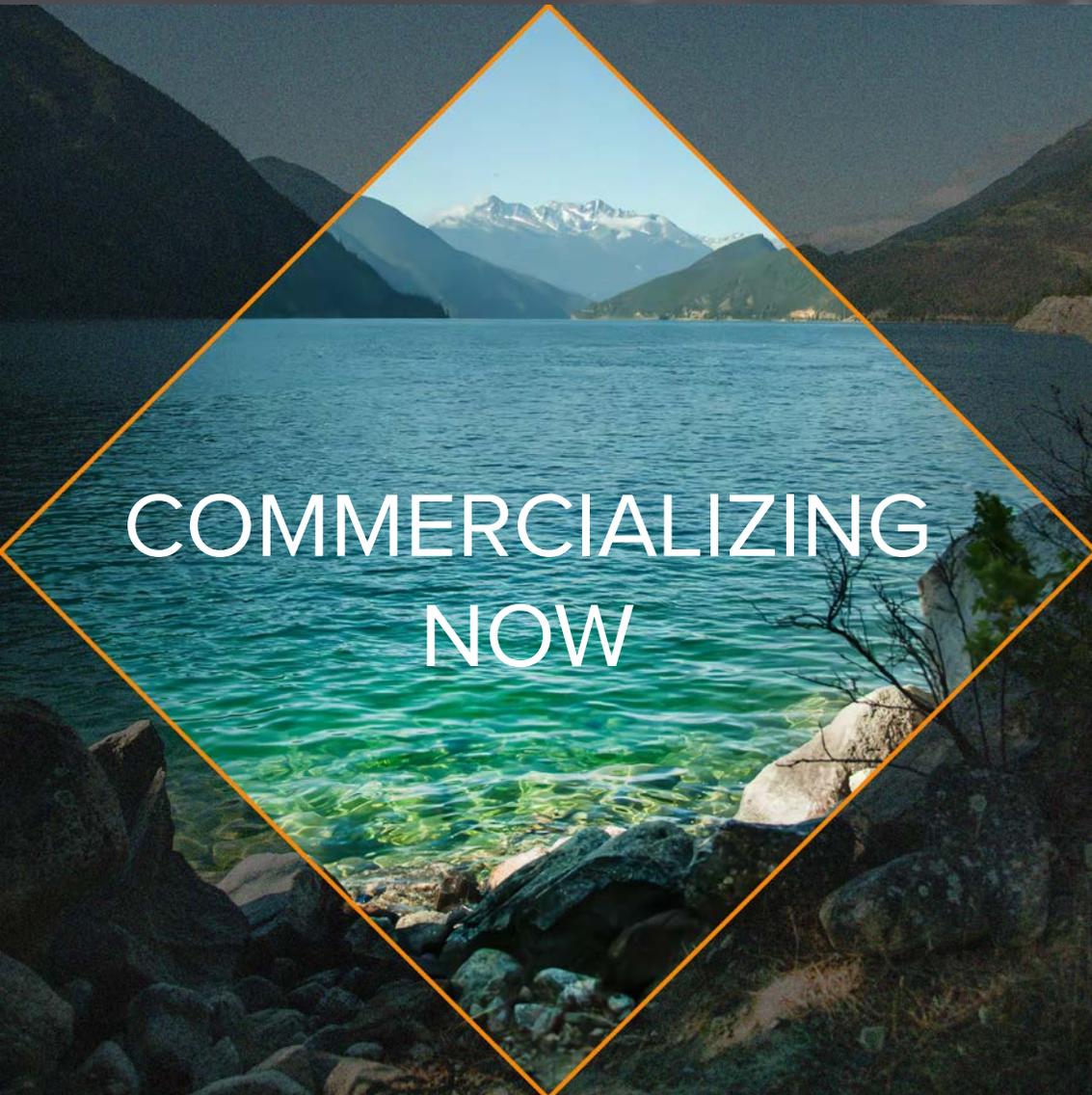
Aliis™ is a **highly scalable AI platform with license and subscription arrangements** varying by volumes, product category, and feature sets.

Upfront licensing fees include:

- Pre-determined number of licensed units NRE for tech transfer & training
- Custom development
- Volume, vertical & use-case based tier pricing
- Customized packages (on/off togglable features)
- Maintenance and support

PARTNERSHIPS

NexOptic is **leveraging its partnerships with our Fortune 500 Partnerships via co-operative marketing and sales efforts** through to their 1000's of OEM/ODM customers.



COMMERCIALIZING NOW



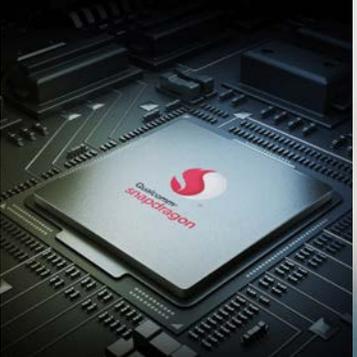
AI

Created artificial intelligence-based solutions that surmount limitations central to all imaging platforms.



PARTNERSHIPS

Created strong relationships with key semiconductor players including NVIDIA, Qualcomm and ARM



AI

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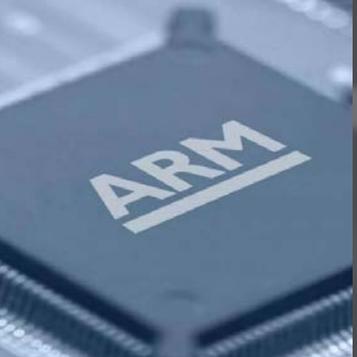
IP

Developing a strong IP fortification strategy — seven key patents granted, with 9 more pending.



GLOBAL REACH

NexOptic's veteran sales teams span three continents, with offices in Phoenix USA, Geneva Switzerland, Seoul Korea.



ARM



GLOBAL EXECUTION

NexOptic is partnering with leading software and engineering companies with expansive global reach.

The partnerships include Ntek Devices, FlexWATCH and a growing list of new commitments with strategic partners and distributors.

SAN DIEGO • SANTA CLARA • CAMBRIDGE • SEOUL • DELHI • TAIPEI • HONG KONG • SHENZHEN

STRATEGIC DEVELOPMENT PARTNERS



\$767.4*
BILLION

→ NVIDIA is ranked as the Number 1 GPU manufacturers in the world. NVIDIA Jetson is the leading-edge AI computing platform with a vast global developer base.

→ Partnering with NVIDIA supports NexOptic's objective to provide foundational AI layers into as many complex machine imaging systems as possible.



\$44*
BILLION**

→ A British semiconductor and software design company. Arm designs are in approx. 15 billion chips — representing over 32% market share.

→ NexOptic and ARM are collaborating to develop the ARM optimized version of ALiis which will significantly reduce the integration cost to device manufacturers.



\$186.2*
BILLION

→ The Qualcomm Advantage Network and its Platform Solutions Ecosystem provides a nexus of value to NexOptic, including facilitating global marketing initiatives and business development opportunities. Qualcomm chips run on Arm designs.

→ NexOptic was invited to join Qualcomm's Platform Solutions Ecosystem. These joint initiatives are designed for optimizing and integrating Aliis™ into select Qualcomm® Snapdragon™ mobile platforms.

*Market Capitalization/Valuation in USD as of Nov 2021 | ** Based on SoftBanks offer to purchase

STRATEGIC DISTRIBUTION PARTNERS



→ The leading semiconductor supplier to the mobile, video security, and automotive industries throughout the Asia Pacific region and beyond.

→ NTEK is partnered with virtually all Korean camera image development firms and module manufacturers — customers include Sony, Samsung, Omnivision, Onsemi, Hynix, Galaxycore, Lexar, Harvetek and others

→ CIS, “the eyes of a camera,” is a keystone product in the imaging tech industry and is key to NTEK and NexOptic’s plans for positioning themselves into expanding roles in the 5G ecosystem.

→ NTEK represents NexOptic’s first Aliis™ Certified Distributor,



CCTV



→ FlexWATCH is an innovative Korean global IP surveillance company with customers in over 40 countries.

→ ALIIS™ enhances any camera system’s functionality in all types of environments. Aliis also delivers downstream benefits to FlexWATCH customers in areas such as facial recognition.

→ Aliis™ improves FlexWATCH’s object detection by upwards of 100x.

→ With the integration into the FlexWATCH AI Bridge — Aliis™ is seeing the advantage of being an NVIDIA Preferred Partner and a member of the NVIDIA Jetson Ecosystem.

EARLY ADOPTER



- Pristine Surgical's single-use, digital visualization platform eliminates the risk of cross-contamination and improves the surgical episode for patient and surgeon.
- The platform eliminates reprocessing and maintenance costs — shifting expenses from fixed to variable, improving cash flow.
- Pristine selected NexOptic's ALIS™ for integration into its Pristine Connect Visualization Platform.



METaverse (N.)

('mɛtə,vɜ:s)

- The internet is moving to an augmented, transcendent, and immersive 3D world where businesses, information and communication tools are immersive and interoperable.
- The metaverse is a virtual, seamless entity that blends videoconferencing, cryptocurrencies, email, virtual and augmented reality, social media, and live streaming.
- The metaverse will rely heavily on several technological building blocks such as 5G, edge computing, blockchain and ai.
- Working on the edge, Aliis™ could play a foundational role in how the metaverse manages data, images, streaming and distributed storage.
- NexOptic is well positioned to capitalize on the next internet — providing ai solutions to the ai companies that will build it.

A DYNAMIC AND PIONEERING TEAM



DaeWon Baek
President – NexOptic Asia

Mr. Baek began his career as a software developer for Motorola Korea, later broadening his experience by becoming a Sales Director where he was integral to setting up business operations setup for Advanced Micro Device (AMD) Korea.

Mr. Baek also held the position of Vice President of VoiceSignal, and became the Executive Representative for Nuance upon its acquisition of VoiceSignal.

Mr. Baek has extensive experience with Korean IT companies such as Samsung and LG, notably being responsible for bringing AMD 386 to Samsung, and was instrumental in Voice Signal's automatic speech recognition (ASR) and natural language processing (NLP) deals with Samsung. Mr. Baek also wrote the Korean Windows NT 2000 Server Bible.



Kevin Gordon
VP of AI Technologies

Mr. Gordon studied computing science at the University of Alberta specializing in computer vision, and worked in the Department of Computing Science's computer vision and robotics lab. His previous research focused on realtime video and image analysis of fluids as part of an NSERC collaborative research and development grant. Mr. Gordon also has a background as an industrial instrumentation and controls specialist with more than 8 years industry experience fulfilling roles in execution, procedure development, and quality assurance.

Mr. Gordon joined the NexOptic team in August 2018 to assist in the development of AI software solutions for the company's DoubleTake project. His current work now focuses on the development of cutting edge software solutions to common industry problems, providing technical engagement with customers, and executing AI solutions for internal and external partners.

A DYNAMIC AND PIONEERING TEAM



Izhar Matzkevich
VP Business Development

Mr. Matzkevich holds a PhD in Computer Science (Artificial Intelligence) from the University of Southern California (USC) and an MBA from the University of California, Los Angeles (UCLA), Anderson School of Business. He brings to NexOptic over 20 years of experience in creating and growing cutting edge technology companies and initiating, developing, managing & driving strategic deals in the US and abroad. Mr. Matzkevich has served in capacity of manager, business development director and VP, General Manager and/or founding President and CEO. He has led multiple successful negotiations of various development projects, licensing, sale of products and services, and other business engagements with multiple companies. As a Business Development executive, he's successfully negotiated and closed deals with customers such as Google and HP and has successfully brought first products to market.

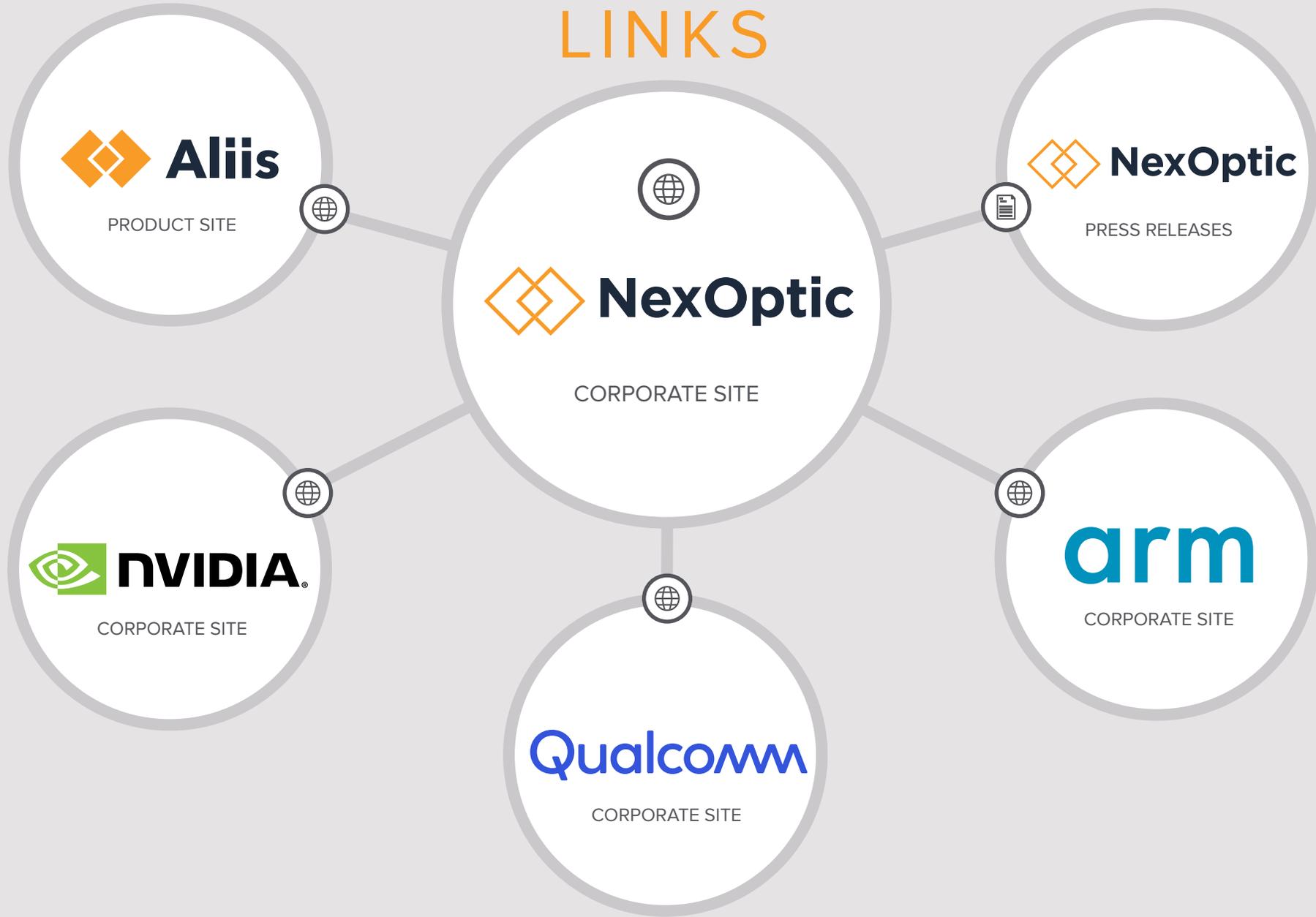


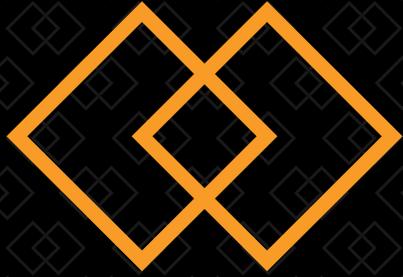
Oscar Yoon
VP Business Development - NexOptic Asia

Mr. Yoon has been working as a sales and marketing specialist in the professional camera-related video and audio industry for more than two decades. As an expert in overall video technology, such as capture, streaming, monitoring, and enhancement, he has carried out successful commercial deals with numerous customers in the Americas, Europe, and Asia.

Mr. Yoon has a history of closing deals with world-renowned companies such as GE, Lenel, Securitas, Toshiba, Pelco, and Tyco, and has experience in establishing and operating new business units from the ground up, developing and selling camera & computer vision technologies.

LINKS





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