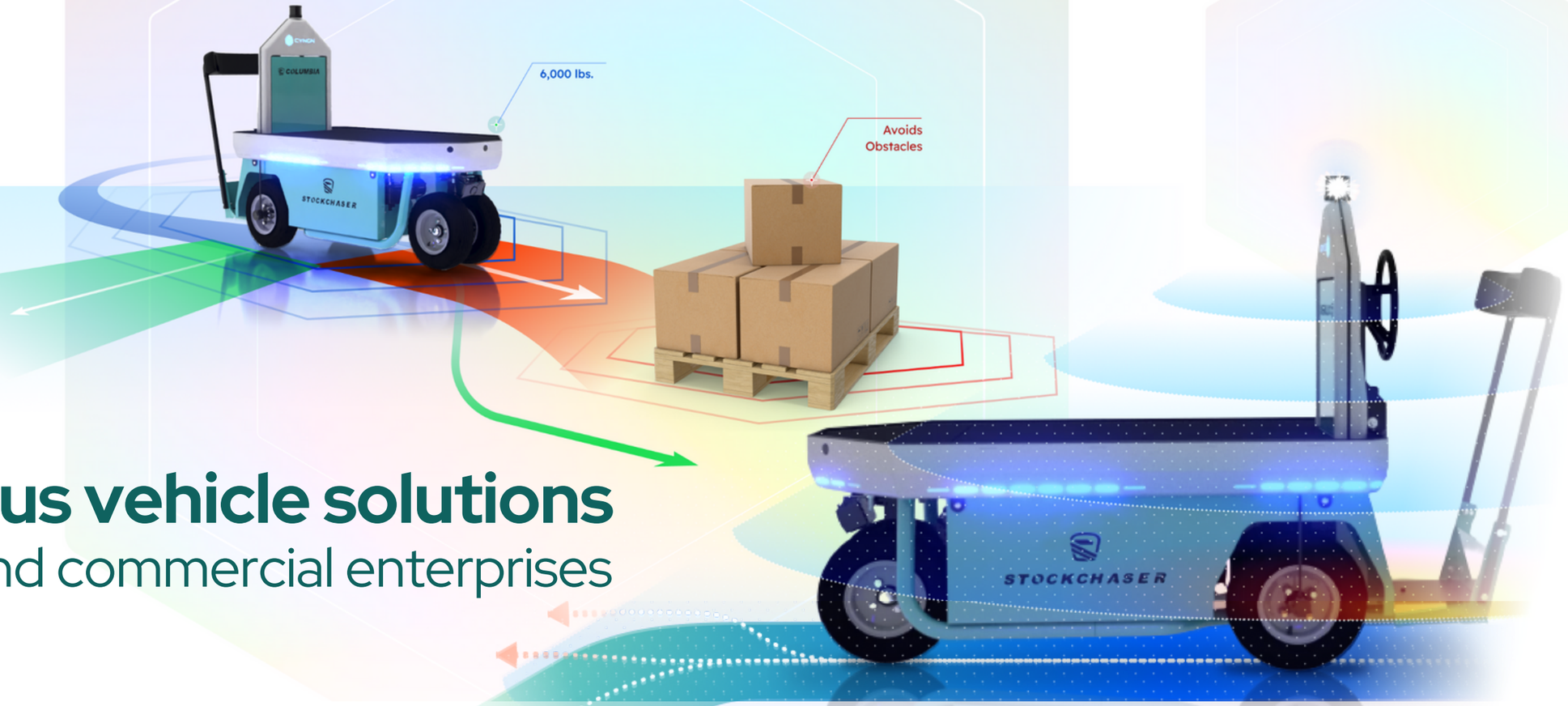
CYNGN

www.cyngn.com



Autonomous vehicle solutions

for industrial and commercial enterprises

Investor Presentation/ August 2022

Cautionary Note on Forward-looking Statements

This presentation of Cyngn, Inc. ("the Company") contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act and other securities law.

Words such as **"expects," "intends," "plans," "believes," "seeks," "estimates,"** and similar expressions or variations of such words are intended to identify forward-looking statements. For example, the Company is using forward-looking statements when it discusses its vision, the potential of its product, its strategy, market potential for its product(s), its paradigm, commercialization of its product(s), the benefits and use of its product(s), its product roadmap and anticipated adoption of its solutions by customers, anticipated pricing, the development of its solutions and product(s) in the manner and schedule anticipated by management, its product launches and corresponding revenue generation, its ability to attract and retain customers, competition and its future growth.

Forward-looking statements are not historical facts, and are based upon management's current expectations, beliefs and projections, many of which, by their nature, are inherently uncertain.

There can be no assurance that management's expectations, beliefs and projections will be achieved, and actual results may differ materially from what is expressed or indicated by the forward-looking statements. Forward-looking statements are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in the forward-looking statements. For a more detailed description of the risks and uncertainties affecting the Company, reference is made to the Company's reports filed from time to time with the Securities and Exchange Commission (the "SEC"), including, but not limited to, the Company's Annual Report on Form 10-K for the year ended December 31, 2021, and any subsequent quarterly filings on Form 10-Q.

Forward-looking statements speak only as of the date the statements are made. The Company undertakes no obligation to update forward-looking statements to reflect actual results, subsequent events or circumstances, changes in assumptions or changes in other factors affecting forward-looking information except to the extent required by applicable securities laws.

Company Overview

Cyngn is an autonomous vehicle technology company focused on addressing industrial uses for autonomous vehicles.

Symbol:
Nasdaq: CYN

52 Week Range
$1.08 - $9.91
(As of 8/8/2022)

Shares Outstanding:
33.6 Million
(As of 8/10/2022)

Market Cap:
$42.7 Million
(at $1.27 per share)
(As of 8/8/2022)

Headquarters:
Menlo Park, California

Employees:
62
(As of 7/31/2022)

Website
www.cyngn.com

Company Highlights

1. ABI Research Whitepaper: "Trends In Supporting And Scaling Modern Automation"
2. Bureau of Labor Statistics: "Employer Costs For Employee Compensation June 2021". and management estimates

Proprietary Industry 4.0 solutions for industrial autonomous vehicles

- Cyngn's Enterprise Autonomy Suite (EAS) is a proprietary, full-stack software solution for operating fleets of autonomous vehicles in various industrial applications (beta stage) and delivering real-time industrial intelligence insights.
- Cyngn's technology can operate a wide range of vehicle types, creating unique opportunities for productivity and scalability across sites.

Large market opportunity fueled by the need to achieve productivity goals

- Labor shortage, increase in labor cost and supply chain disruptions accelerate the demand for automated solutions.
- **883,000** material handling vehicles shipped by the top 10 manufacturers in 2019.[1] The labor cost to drive these vehicles for two shifts per day is **>$119B**.[2]

Experienced leadership supported by global partnerships

- The executive team has **20+ years** of combined experience in **AI/ML** and mobility at companies such as Facebook, Baidu, and Maxim Integrated, including leadership roles at startups acquired by Tesla and Facebook.
- Renowned partners include Columbia Vehicle Group, First Transit, Here Maps, Formel D, and more.

Industrial Vehicles Move the World

All major industries, from manufacturing, fulfillment, and logistics to mining and construction, rely on their industrial vehicle fleets to operate.

Vehicles do the hard work, moving heavier loads at higher speeds than humans can. With the growth of ecommerce, the demand for skilled labor to operate these vehicles has accelerated. Vehicles have never been able to do this work without a human operator.

Until now...

Manual Labor Comes at a Very High Cost

1. Bureau of Labor Statistics: "Employer Costs For Employee Compensation – June 2021"
2. Statista: "Number of Warehouses in U.S."
3. MHI Deloitte industry report
4. National Safety Council: "Work Injury Costs - Injury Facts"
5. Bureau of Labor Statistics: "Warehousing and Storage: NAICS 493"

Ever increasing cost of labor

- 900,000 material handlers, stock pickers, and industrial vehicle drivers in the United States[1]
- Estimated $140 billion spent on human labor across 20,000 warehouses in the US alone.[2]

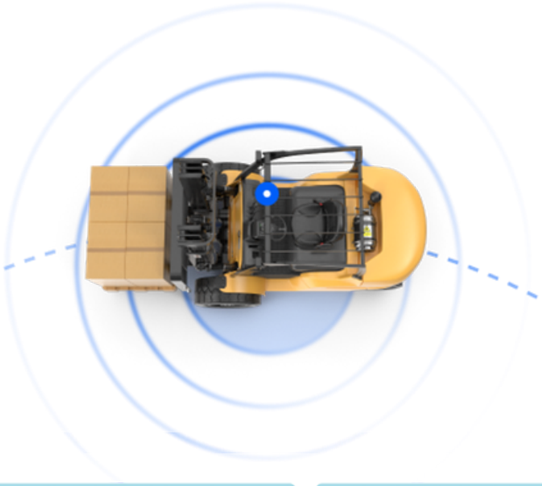
Widespread labor shortages[2]

- Over 50% of supply chain & manufacturing leaders rated hiring and employee retention as their biggest challenge.
- 73% said it takes 30+ days to fill open positions.
- By 2030, the impact of unfilled manufacturing jobs could cost the US economy more than $1 trillion.

Losses due to accidents

- An industrial vehicle accident, on average, costs $42,000, not including cost due to lost production.[4]
- The average American warehouse experiences 9 accidents per year.[5]
- The total cost of preventable workplace injuries in the US in 2019 was $171 billion.[4]

The Solution is Automation



Forward-looking enterprises that harness automation benefit from:

01. Increased Productivity

02. Increased Safety

03. Lower Cost of Labor

04. Reduced Dependence on Labor

Automation enables new forms of competitive advantage

Evolve or be disrupted

Our Mission and Vision

Our mission is to develop and deploy autonomous driving software, built to serve a broad spectrum of industrial applications, from logistics to mining.

Our solutions will give our customers a competitive advantage in the race to efficiency, safety, and productivity.

Our vision is to be the leading advanced autonomy software solution for industrial and commercial enterprises.

We are applied autonomy.

Case Study: Increased Productivity for Global Logistics and Fulfillment (GL&F)

Cyngn's research found that the deployment of a DriveMod-enabled Autonomous Stockchaser at a Las Vegas 3PL facility led to an immediate increase in efficiency.

64%

A 64% reduction in human labor costs when using Cyngn's Autonomous Stockchaser vs. using a forklift.

33%

A 33% increase in efficiency when using Cyngn's Autonomous Stockchaser vs. using an eletric pallet jack

Cyngn's Opportunity Today

$119+ BILLION[1]

annual driver labor costs for material handling vehicles

883,000
units shipped in 2019 by the top 10 material handling vehicle manufacturers[2]

$32
average cost per hour for transportation and material moving employees in the US[3]

4,174
hours a vehicle is used per year, based on typical two-shift per day operation

1. 883,000 vehicles x 4,174 hours/yr x $32.34/hr=$119B
2. ABI research whitepaper: "Trends in supporting and scaling modern automation"
3. Bureau of Labor statistics: "Employer costs for employee compensation -June 2021"

> **EVERYTHING THAT MOVES WILL BECOME AUTONOMOUS**
>
> — Nvidia CEO, Jensen Huang

Wide Adoption of Autonomous Vehicles starts with Industrial Applications

Compared to open road uses (robotaxi & trucking), industrial applications involve:

- More structured operation
- Less complex routes
- Lower speed requirements
- Lower regulatory hurdles
- More commonality from site to site
- Predictable workflows
- Controlled interactions with trained humans

Material Handling Is Just the Beginning

Industrial and commercial autonomous applications share fundamental technological building blocks.

Cyngn developed these building blocks and integrates them across diverse autonomous driving solutions.

1. Management estimate from Bureau of Labor Statistics data. See slide 10.

Our current focus

$119B[1]

Annual driver costs for vehicles sold by the top 10 material handling OEMs

Our technology

Our technology already applies to additional industrial applications

In the future

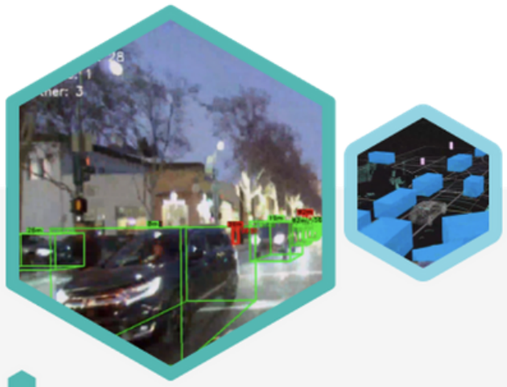
In the future, we can expand our offering to public roadways:

We Bring the Best of Autonomous Driving Technology to Industrial Applications

Billions of dollars in funding and long years of research have focused on robotaxis, trucking, and highway automation, which are not being built to address industrial needs.

We apply best practices and domain knowledge from public road solutions and bring advanced autonomy to industrial vehicles and applications.

Our Competitive Advantage

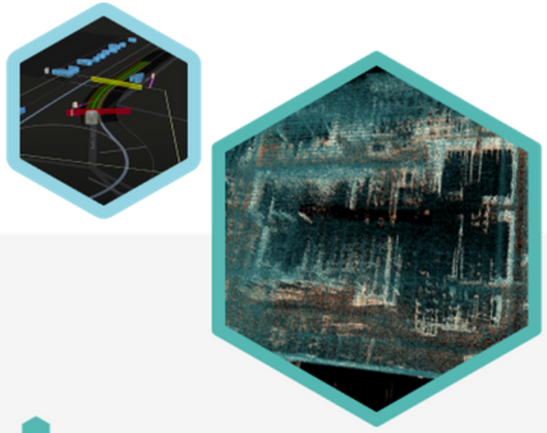


Advanced autonomy

- Developed for robotaxi capability by using leading technology like AI, sensor fusion, and abstract decision making.
- Takes advantage of sensor and computing advancements that are driven by high-volume, high-quality automotive industry.

Multiple applications

- DriveMod can be deployed on a wide range of vehicles, creating a unique offering to support multiple applications across sites.
- EAS collects data that can expand capabilities within the application and grow into adjacent applications.



Your vehicle powered by our software

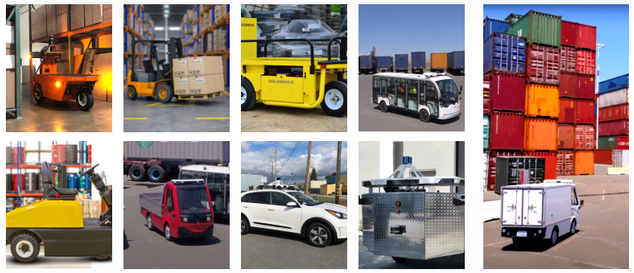
- DriveMod can be retrofitted onto existing vehicles to accelerate adoption, and vehicles can still be driven manually.
- We partner with vehicle manufacturers that are trusted incumbents.
- Customers can take advantage of established distribution and support networks.

Cyngn's Enterprise Autonomy Suite (EAS)*

Customer-Facing Products

DriveMod

Full-Stack Autonomous Driving Software System



Successfully tested on multiple different vehicle types

Cyngn Insight

Intelligent Control Center

- Fleet management system
- Human-machine interfaces: web, mobile, on-vehicle
- Operational analytics
- Teleoperation
- Real-time diagnostics
- Asset tracking

Internal Toolkit

Cyngn Evolve

Data Optimization Tools

- Data pipeline
- Performance analytics

  Simulation
- Machine learning infrastructure

*EAS is currently available as a private beta release to select customers

DriveMod

Robotaxi brain for industrial vehicles

The result is superhuman capability:

360° perception around the vehicle

Detect hundreds of objects/obstacles per second

Calculate hundreds of candidate paths per second

Navigate optimal detailed path

See

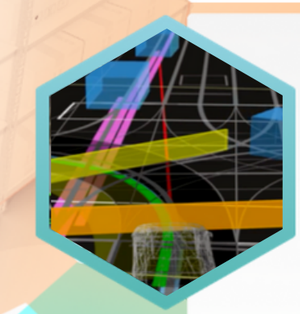
Multi-modal sensor fusion

AI/ML powered perception

Existence-based virtual bumper

High-definition semantic maps

Laser-accurate localization



Decide

Abstracted behavioral decision framework

Context-aware prediction

Hundreds of candidate paths proposed per second

Dynamic routing and motion planning

Act

Adaptive, intelligent control that can operate a wide range of vehicle types and sizes

Cyngn Insight

Fleet monitoring and management to maximize asset utilization: operate, observe, and analyze

- Remote Support and Teleoperation
- Business and Operational Insight
- Fleet Management and Diagnostics
- Infinitracker - Asset Tracking

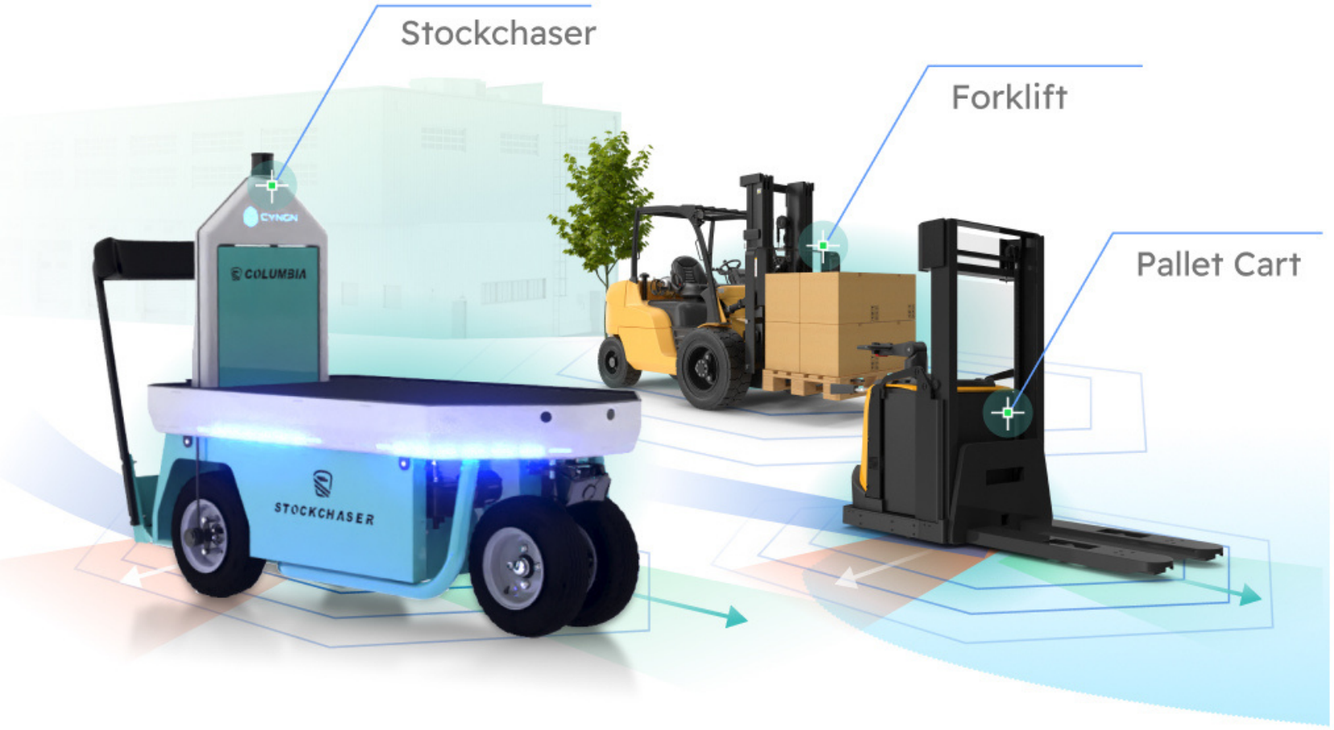
Cyngn Evolve

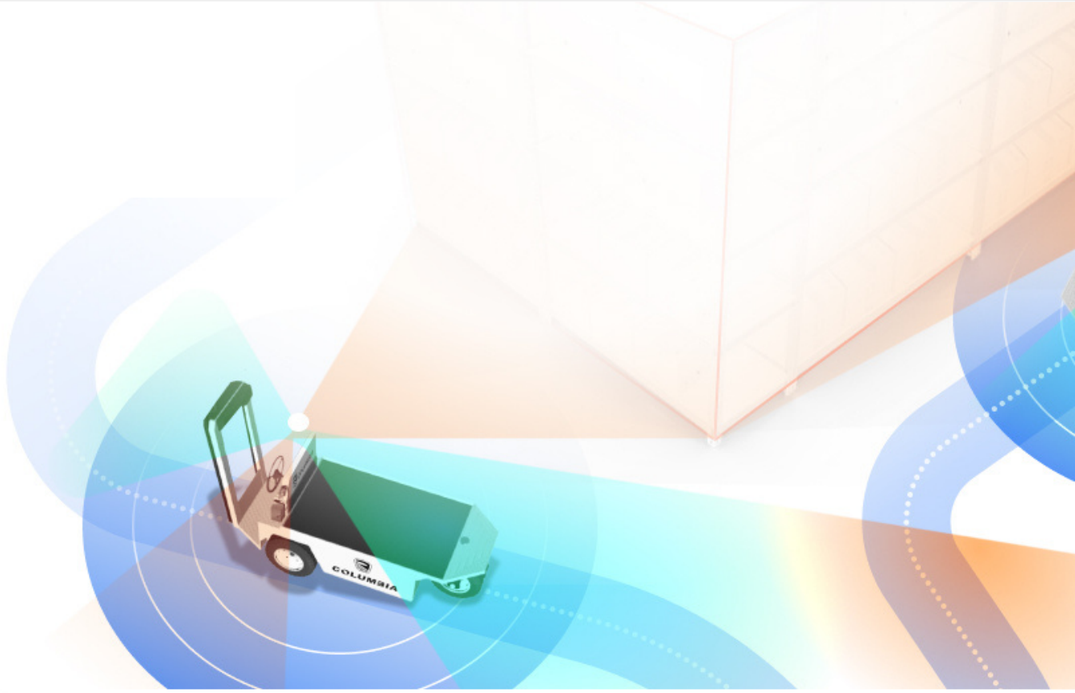
How Cyngn expands its autonomous vehicle capabilities

- Hybrid simulation & automatic grading frameworks
- Machine learning infrastructure & data pipeline
- Autonomous vehicle performance analytics

Cyngn's EAS Underpins Three Industry 4.0 Pillars

- Human-machine interaction: Robotics and automation
- Connectivity, data, computational power: Sensors and IoT
- Analytics and intelligence: Advanced analytics, machine learning and AI





The role of Industry 4.0 becomes even more critical in the backdrop of a crisis such as COVID-19. Players utilizing digital solutions are better-positioned to weather the storm, having moved faster and further than their peers during the crisis.

– McKinsey&Company
https://www.mckinsey.com/business-functions/operations/our-insights/industry-40-reimagining-manufacturing-operations-after-covid-19

Collaborative Go-To-Market Approach

An ecosystem designed to support scaled, high-quality autonomous fleet deployments

COLUMBIA

nerospec

here

Airbiquity

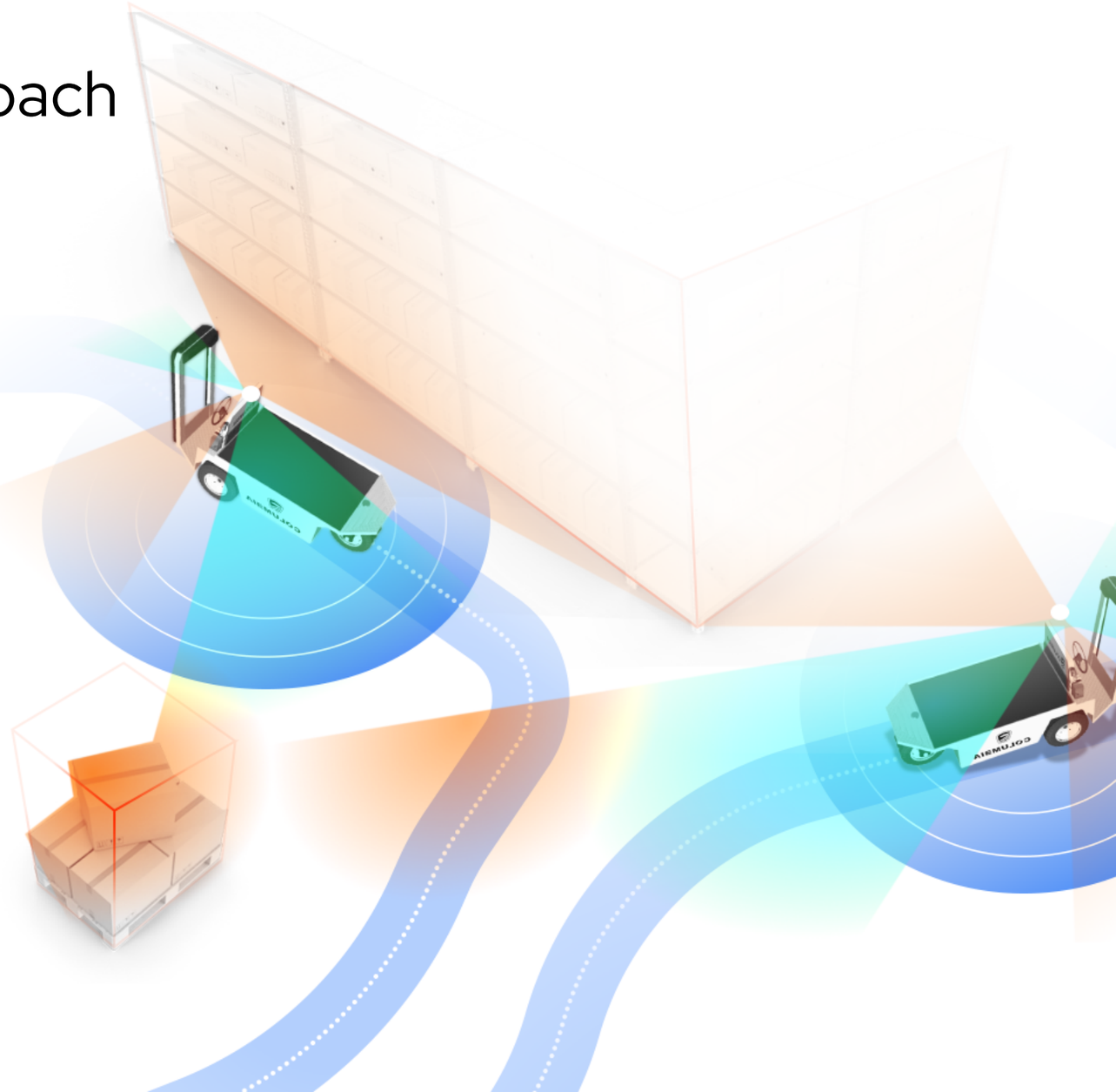
GREENLAND

First Transit

ARILOU

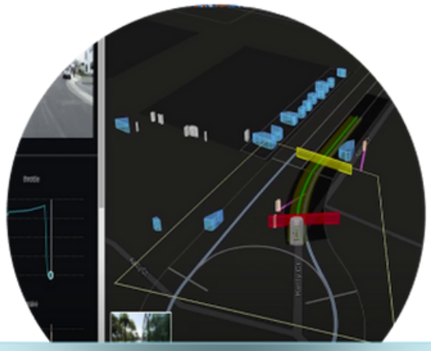
Symboticware

Formel D



Train Hard, Drive Easy

Stress tested under extreme conditions to ensure commercial readiness



2016

- Began developing AV solutions in complex mixed traffic to overshoot the requirements of industrial sites.

2017

- Autonomous electric utility vehicles at an International Container Terminals Services (ICTSI) container port in the Philippines.

2019

- Autonomous electric shuttle buses at the Loblaw corporate headquarters in Canada.

Recent Milestones

Launch of EAS 8.0

- This latest release of EAS includes 138 new features, a 33% reduction in component complexity, and a 75% reduction in cloud computing costs (link).

Building with an OEM

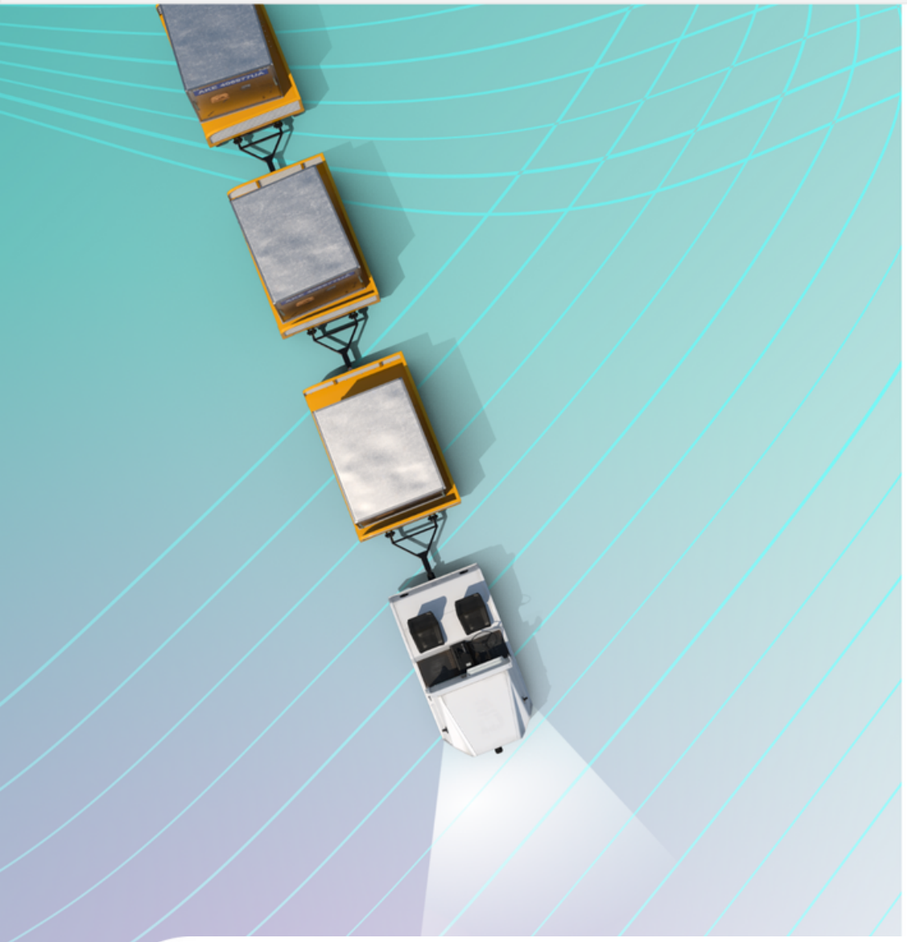
- Columbia Vehicle Group announces it is building a fleet of autonomous industrial vehicles that use Cyngn's AV technology (link).

Launch of DriveMod Kit

- Cyngn begins to build patent-pending sensor module that streamlines deployment of DriveMod's self-driving technology at scale (link).

Expanding to Forklifts

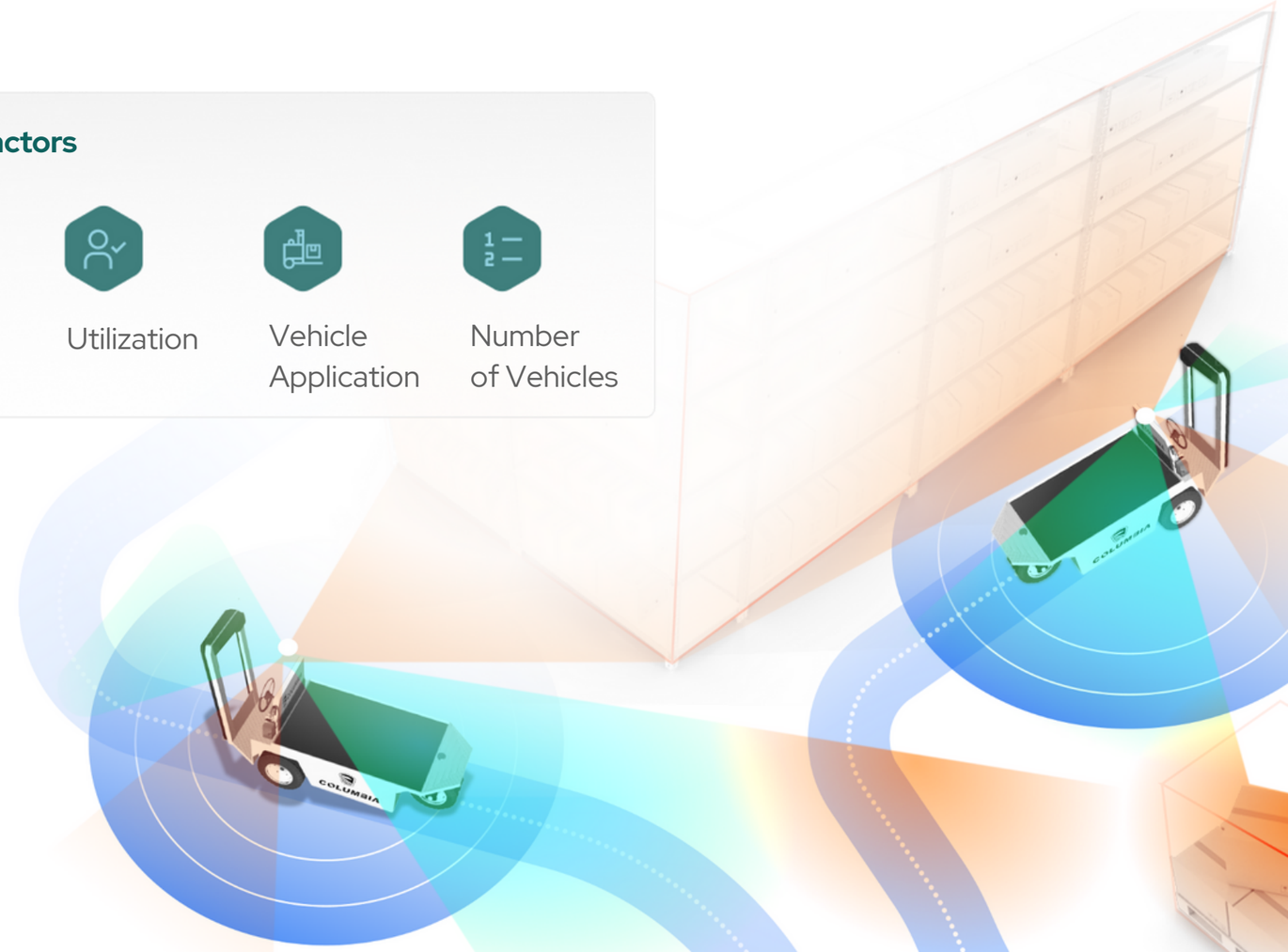
- Greenland Technologies chooses Cyngn to provide AV technology to their electric forklifts (link).



Cyngn EAS is offered as SaaS via annual license per vehicle

Pricing Factors

- Target Vehicle
- Utilization
- Vehicle Application
- Number of Vehicles



***Remember**

The top 10 material handling manufacturers shipped 883,000 units in 2019.

Land & Expand

Our vehicle-agnostic AV capability opens more opportunities and creates data moats

Phase 1 — 2022

- 1 Site
- 1 Vehicle Type
- <10 Vehicles

Phase 2 — 2023

- Multiple Sites
- 1 Vehicle Type
- 10s Vehicles

Phase 3 — 2024

- Multiple Sites
- Multiple Vehicle Types
- 100s Vehicles

Phase 4 — 2025

- Many Sites
- Many Vehicle Types
- 1,000s Vehicles

Key Takeaways

$119 Billion Market

An opportunity to invest in a company focused on practical applications in the growing automation market that addresses the very real problem of dependence on a human workforce, particularly in an ongoing pandemic environment

Advanced Autonomy

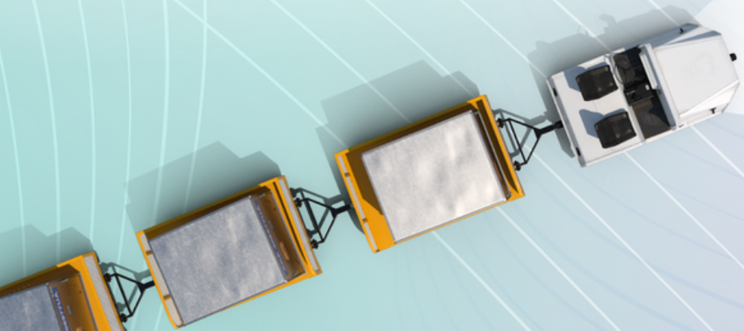
Proprietary, innovative technologies for operating various industrial vehicles autonomously within a flexible, scalable framework

Key Strategic Partnerships

Product and go-to-market strategies supported by partnerships with reputable global firms in mobility, logistics, and industrial markets

Winning Team

Experienced leadership backed by best-in-class R&D team



CYNGN

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Thank You!

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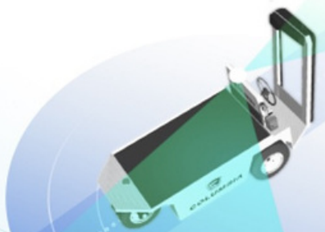
Appendix



Autonomous Vehicles Drive ESG Impact

Productivity

Centre for Economic Performance study found:

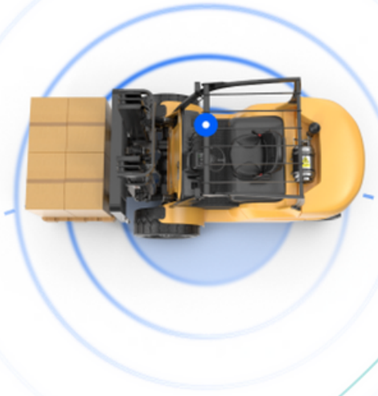
- Investment in robots contributed 10% of growth in GDP per capita in OECD countries from 1993 to 2016.[1]
- The impact of adding robots to industrial productivity is assessed to be higher than introducing steam technology was in the 19th century.[2]

Sustainability

- Our fleet is comprised of all electric vehicles
- Autonomous vehicles can be programmed to drive with more conservative throttling and braking

1. Information Technology & Innovation Foundation: "Robotics and the Future of Production and Work"
2. Centre for Economic Performance: "Robots at Work"

Balance Sheet Highlights



	12.31.21	6.30.22
Cash & Cash Equivalents and Investments in Marketable Securities	$21.9m	$32.7m
Working Capital	$22.1m	$32.2m
Total Stockholders' Equity	$22.2m	$33.3m