#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-K

#### CURRENT REPORT

## Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): February 22, 2022

CYNGN INC.

(	Exact name of registrant as specified in charter	)
Delaware	001-40932	46-2007094
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)
(A	1015 O'Brien Dr. Menlo Park, CA 94025 address of principal executive offices) (Zip Code	e)
(Re	(650) 924-5905 egistrant's telephone number, including area coo	de)
(Forme	Not Applicable r name or former address, if changed since last	report)
Check the appropriate box below if the Form 8-K filing is intended Instruction A.2. below):	to simultaneously satisfy the filing obligation of	of the registrant under any of the following provisions (see General
☐ Written communications pursuant to Rule 425 under the Security	ties Act (17 CFR 230.425)	
☐ Soliciting material pursuant to Rule 14a-12 under the Exchange	e Act (17 CFR 240.14a-12)	
☐ Pre-commencement communications pursuant to Rule 14d-2(b)	under the Exchange Act (17 CFR 240.14d-2(b	))
☐ Pre-commencement communications pursuant to Rule 13e-4(c)	under the Exchange Act (17 CFR 240.13e-4(c)	))
Securities registered pursuant to Section 12(b) of the Act:		
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock	CYN	The Nasdaq Stock Market LLC (The Nasdaq Capital Market)
Indicate by check mark whether the registrant is an emerging grow Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).	th company as defined in Rule 405 of the Secu	arities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the
Emerging growth company $\boxtimes$		
If an emerging growth company, indicate by check mart if the reaccounting standards provided pursuant to Section 13(a) of the Excl		ransition period for complying with any new or revised financial

#### Item 7.01 Regulation FD Disclosure.

On February 22, 2022, Cyngn Inc. (the "Company") updated its corporate presentation. Representatives of the Company intend to present some of or all of the information in the corporate presentation at investor conferences to current and prospective investors. A copy of the investor presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is posted on the Company's website.

The investor presentation shall not be deemed "filed" for any purpose, including for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that Section. The information in this Item 7.01, as well as Exhibit 99.1, shall not be deemed incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act regardless of any general incorporation language in such filing.

This Current Report on Form 8-K and Exhibit 99.1, may include statements regarding the intent, belief or current expectations of the Company and members of its management team, as well as the assumptions on which such statements are based, and generally are identified by the use of words such as "may," "will," "seeks," "strives," "anticipates," "believes," "estimates," "expects," "plans," "intends," "should" or similar expressions. Actual results may differ materially from those contemplated by such forward-looking statements, including as a result of those factors set forth in the Risk Factors section of the Company's most recent Quarterly Report on Form 10-Q for the nine months ended September 30, 2021 or any of the risks described in the Prospectus for the Company's initial public offering filed with the SEC on October 21, 2021. Forward-looking statements speak only as of the date they are made, and the Company undertakes no obligation to update or revise forward-looking statements to reflect changed assumptions, the occurrence of unanticipated events or changes to future operating results over time, unless required by law.

ITEM 9.01	Exhibits
Exhibit	
No.	Description
99.1	Investor Presentation
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

#### SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: February 22, 2022

#### CYNGN INC.

By: /s/ Donald Alvarez

Donald Alvarez
Chief Financial Officer



Autonomous vehicle software for industrial and commercial enterprises



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## 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 ability to generate revenue, 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. Such expectations, beliefs and projections are expressed in good faith.

However, 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 risks detailed in the Company's preliminary prospectus dated September 30, 2021, filed with the SEC as part of the Company's Registration Statement on Form 5-1 (File No. 333) 259278), and documents incorporated by reference therein. 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

## **COMPANY OVERVIEW**

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



• TICKER: NASDAQ: CYN

• RECENT STOCK PRICE: \$1.58 (as of 1/31/2022)

• SHARES OUTSTANDING: 26.4 million (as of 11/17/2021)

MARKET CAP: \$41.7 million
HEADQUARTERS: Mento Park, Calif.
EMPLOYEES: 33 (as of 10/21/2021)
WEBSITE: www.cyngn.com



## 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.





## INVESTMENT HIGHLIGHTS



#### Proprietary software for operating 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).
- Cyngn's technology is capable of operating a wide range of vehicle types, creating unique opportunities for productivity and scalability across sites.



#### Large market opportunity fueled by the need to increase productivity

- 883,000 units shipped by the too 10 material handling vehicle manufacturers in 2019. The labor cost to drive these vehicles for two shifts per day is >\$1198.2
- Cyngn has developed the fundamental building blocks that enable autonomous operation across diverse vehicles, which could open additional market opportunities in the future.



#### 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.



## RECENT MILESTONES



#### SUCCESSFUL PILOT

Successful deployment of EAS at Global Logistics and Fulfillment's Las Vegas facility (<u>link</u>).



### BUILDING WITH AN OEM

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



## INVENTION OF DRIVEMOD KIT

Cyngn files for patent of a 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).



## THE PROBLEM: HUMAN ERROR



People are great at handling unpredictable situations and performing tasks requiring creativity.

But people get bored, tired, and distracted when given tasks that require **repetitive accuracy** over an extended time.

People make mistakes.

IT'S HUMAN NATURE.

# BUT COMPANIES NEED CONSISTENCY

Industrial tasks involve repetitive physical activities that require accuracy at high rates.

This applies to a wide range of industries, including warehouse logistics, manufacturing and assembly, construction, mining, and air/seaports.

Vehicles such as tuggers, stock chasers, forklifts, haulers, and various utility vehicles are the tools used to execute these industrial tasks.



## HIGH COSTS ASSOCIATED WITH HUMAN LABOR

#### Massive workforce

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

#### Widespread labor shortages<sup>3</sup>

- 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.

## Significant losses due to accidents

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

<sup>4</sup> National Safety Council: "Mork Injury Costs - Injury Facts" 5. Bureas of Lator Statistics: "Warehousing and Storage InAICS 493"

<sup>\*</sup>Sureas of Later Statistics: "Employer Gosts For Employee Compensation - Jame 2021 \*Statista: "Number of Warehouses in U.S."

## THE SOLUTION IS AUTOMATION

FORWARD-LOOKING ENTERPRISES THAT HARNESS AUTOMATION BENEFIT FROM:









INCREASED PRODUCTIVITY

INCREASED SAFETY OF LABOR

REDUCED DEPENDENCE ON LABOR

Automation enables new forms of competitive advantage

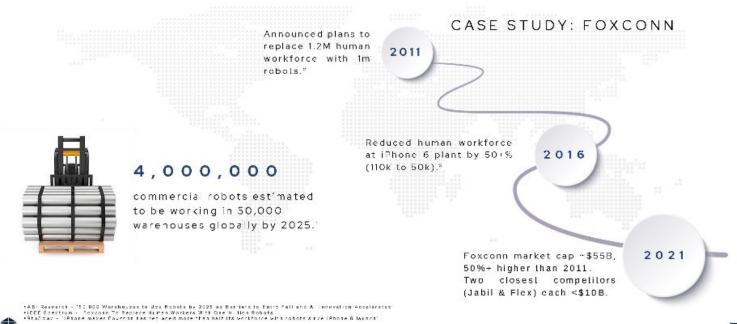
EVOLVE OR BE DISRUPTED



## AUTONOMOUS VEHICLES DRIVE ESG IMPACT



## DISRUPTIVE ENTERPRISES ARE SURGING AHEAD





## CYNGN'S OPPORTUNITY TODAY

## \$119+ BILLION<sup>1</sup>

annual driver labor costs for material handling vehicles



883,000 units shipped in 2019 by the top 10 material handling vehicle manufacturers?



average cost per four for transportation and material moving employees in the US?



4,1/4
hours a vehicle is used per
year, based on typical twoshift per day operation



## "EVERYTHING THAT MOVES WILL BECOME AUTONOMOUS"

- Nvidia CEO, Jensen Huang

-AMR.CKF schules & 7.0-0 houszar a ENZ X4711 - E119K -AMI school of White signs - Chorus is Morpositing Ava Reading Medicin Saturations' - Duras of Libber Castification (Chorus Costs For Employae Companyation - Jase 202'

## WIDE ADOPTION OF **AUTONOMOUS VEHICLES** STARTS WITH INDUSTRIAL APPLICATIONS

Compared to Passenger Vehicles, Industrial Vehicles Offer:



MORE STRUCTURED OPERATION



LOWER SPEED REQUIREMENTS



LOWER REGULATORY HURDLES





LESS COMPLEX ROUTES



MORE COMMONALITY FROM SITE TO SITE



CONTROLLED INTERACTIONS WITH TRAINED T HUMANS





## CYNGN'S ENTERPRISE AUTONOMY SUITE (EAS)\*

CUSTOMER-FACING PRODUCTS



## DRIVEMOD

Full-Stack Autonomous Driving Software System



Successfully tested on 9 different vehicle types



## CYNGN INSIGHT

Intelligent Control Center

- Fleet management system
- Human-machine interfaces: web, mobile, on-vehicle
- Operational analytics
- Teleoperation
- Real-t me diagnostics

INTERNAL TOOLKIT



## CYNGN EVOLVE

Data Optimization

- · Data pipeline
- Performance analytics
- · Simulation
- Machine learning infrastructure



"EAS is currently available usic private buts release to select casioners

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## DRIVEMOD

Robotaxi Brain in an Industrial Vehicle



- 360° perception around the vehicle
- detect 1,000+ objects/obstacles per second
- 1,000- candidate paths per second
- · navigate optimal detailed path



## DECIDE

SEE

- Abstracted behavioral decision framework
- Context-aware prediction

Multi-modal sensor fusion
AI/ML powered perception

• Existence-based virtual bumper

High-definition semantic maps
 Laser-accurate localization

- Thousands of candidate paths proposed per second
- Dynamic routing and motion planning system



#### ACT

Adaptive, intelligent control that is capable of operating a wide range of vehicle types and sizes.

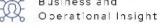


## CYNGN INSIGHT

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













## CYNGN EVOLVE

How Cyngn expands its autonomous vehicle capabilities





Hyprid Simulation & Automatic Grading Frameworks



Machine Learning Infrastructure & Data Pipeline



Autonomous Vehicle Performance Analytics



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## THE COMPETITIVE LANDSCAPE

A FRAGMENTED SOLUTION SPACE



#### **BASIC AUTOMATION**

- Single-frame, record and rerun or free-space navigation robotic systems.
- Existence-based obstacle avoidance
- Limited or no situational awareness and prediction.
- Produces slow systems with minimal ability to react to real-time changes.



#### SINGLE APPLICATION

- Supports a single use case, but industrial customers have diverse vehicle fleets.
- Narrow focus limits opportunity for data collection to advance and expand AI and V2V capabilities.
- Results in duplicate bring up and support cost to the customer.



#### **VERTICALLY INTEGRATED**

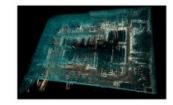
- Doesn't integrate with existing vehicles. Requires customers to purchase a brand new fleet.
- Carry the burden of both hardware and software development.
- Difficult to compete with incumbent players across cost, reliability, and service.



## OUR COMPETITIVE ADVANTAGE







### ADVANCED AUTONOMY

- Developed for robotaxi capability by using leading technology like Al, sensor fusion, and abstract decision making.
- Takes advantage of sensor and compute advancements that are driven by high-volume, highquality 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.

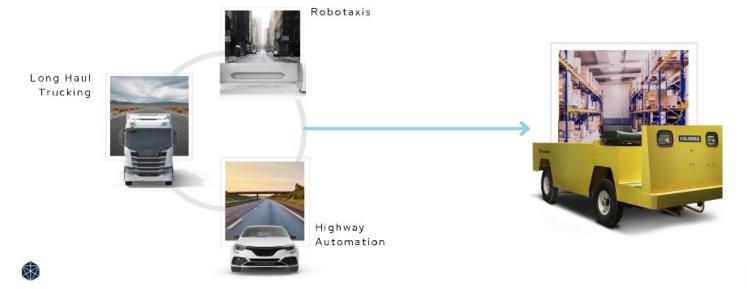
#### YOUR VEHICLE POWERED BY OUR SOFTWARE

- 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.



# WE BRING THE BEST OF AUTONOMOUS DRIVING TECHNOLOGY TO INDUSTRIAL APPLICATIONS

Billions of dollars in funding and long years of research have focused on ropotaxis, 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.



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## INDUSTRY PEERS

	CANCH	tu simple	Aurora	() EMBARK
NASDAQ Ticker	CYN	TSP	AUR	EMBK
Market Cap	\$41.7 M	\$4.0 B	\$5.5 B	\$1.4 B
Business	An autonomous vehicle technology company focused on addressing industrial uses for autonomous vehicles	A global autonomous driving technology company developing a commercial ready, fully autonomous driving solution for long-naul heavy-duty trucks	Develops and delivers self- driving technology, offers a platform that authomously operates passenger vehicles, commercial vehicles and heavy-duty trucks	An autonomous vehicle company offering cloud- based autonomous fleet management solutions
2020 Revenue		\$1.8M		

## 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 busses at the Loblaw corporate headquarters in Canada.



## COLLABORATIVE GO-TO-MARKET APPROACH

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









**ARILOU** 



nerospec









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## CYNGN EAS WILL BE OFFERED AS SAAS VIA ANNUAL LICENSE PER VEHICLE

#### Pricing Factors:

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







## LAND & EXPAND

The path to multi-million dollar accounts

















2022

2023

2024 PHASE 3 2025

PHASE 1

PHASE 2

• Multiple Sites

• Multiple Sites

• Many Sites

- 1 Vehicle Type • <10 Vehicles
- •1 Vehicle Type •10s of Vehicles
- Multiple Vehicle Types • 100s of Vehicles
- Many Vehic e Types
  1,000s of Vehicles

PHASE 4



**Real-world Example:** One of our potential customers, a building solutions company, has 400+ sites that use 20+ offerent fork ift models from 5 different manufacturers, as well as front loaders and yard sweepers.

## BALANCE SHEET HIGHLIGHTS

Following the completion of its IPO in October 2021, Cyngn is well capitalized with \$25.0 million in cash and cash equivalents on the balance sheet.

	12.31.20	9.30.21	9.30.21 Pro Forma
Cash & Cash Equivalents (including restricted cash)	\$6.5 m	\$1.7m	\$ 2 5 . O m
Working Capital	\$6.1m	\$1.5 m	\$24.8m
Total Stockholder's Equity	\$5.6m	\$0.03 m	\$23.3 m

## MATERIAL HANDLING IS JUST THE BEGINNING

Industrial and commercial autonomous applications share fundamental technological building blocks.

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

Our current focus

\$119B





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



Our technology already applies to additional industrial applications











expand our offering to public roadway:







Management estimate from Bureau of Labor Statistics data. See slide II.

## **EXECUTIVE TEAM**



Lior Tal

Previously: Director of international growth and partnerships at Facebook, collisional VP of business development at Snaptu (acquired by Facebook), partner at Barzem, Tel, Lerer Attorneys at Lee and Faton. Attorneys. Hold leadership to be at Actin to (acquired by NICF). DiskSites (acquired by FYC), Odigo (accuired by Comverse).



Donald Alvarez

CHO SINCE 2021

Previously: VP of Finance of the International Council of Shopping Centers, VP of Finance of OuVa Pharma, Inc., National managing partner, COO and CI O of Tatum, a Randotad Company, Has held devoid other some financial and operations, roles in both private and public companies.



Biao Ma

VP OF ENGINEERING SINCE 2017

Previously: Softward architect for autonomous driving and senior software engineer at Baldu, software engineer at Carnegle Mellon University. MS Computer Spence at Carnegle Mellon.



Ben Landen

VP OF BUSINESS DEVELOPMENT SINCE 2019

Proviously: Company's Senior Director of Product & Partnerships, Head of Product & 30 at DeepScale (acquired by Tesla), managed \$100M automotive semiconductor product line as Senior Business Vaneger of Maxim integrated, MBA at UC Berkeley's Haza School of Business, and 35 Electrical Engineering at California Polytechnic University SLO.



Marc Brown

VP OF R

Previously: Executive Vice President and Chie People Of Idea at 70V O. Head of People, Corporate Communications, and Hacilities at Provide Commerce, Key Operational Leadership toles at Petco, Incore Capital Croup, United Healthcare, Best Buy, and Hondywell.



## **BOARD OF DIRECTORS**



Colleen Cunningham

INDEPENDENT DIRECTOR

Proviously: Member of board of A CPA. SVP-Controller of Zoet's, Inc., Global Managing Director RGP, CFO of Financial Managing Director Math. CHO or Finance Executives Internet cond CFO Havas Advertising, Chief Assourting Officer AT&T. Prior mender of FASD Advisory Committee (FASAC) and IASD Advisory Committee (IASC).



Jim McDonnell NDEPEND-N DIR-C OR

Currently, SVP of Sales & Marketing at Vispero, Previously, VP of sales excellence HSM and Commercial excellence for HSP as Honeywor, 3VP excellence for HSP as Honeywor, 3VP Global Saley & Marketing as Internec, and hold several senior roled at Howlott Packand over more than 28 years, Prior member of Astakia board.



Karen MacLeod

IND+ PENDENT DIRECTOR

Currently: Market Leader - Interim Currently: Market Leader — Interim So utions of Kern Perry, Previously, CEC of the Arete Group, Board member FMA of Now York, member and chair of Track Group India and Leading the President of Laturi, Handatand Haldings NV Company onesident of Resources Connection, Inc. North America. BOD member Resources Connection, Inc., audit committee of FWA



Mitch Lasky

DIREC OR

Currently: Partner of Banchmark Capital, co-owner of LA Football Club Serves on BOD of various companies including: Discord, Manticore Carres Inc., UbicultyS Inc., hatgareed spany Previously FVP, Mobile 8 Chilled Carres Arte, CEO and charmen of the boar of DAMDAT Mobile. Inc. Member of board Snap, Inc., Inc., PlayFab. Inc., Engine Yard, etc.



Lior Tal

DIRECTOR & CHAIRMAN OF THE BOARD

Proviously: Director of internations Proviously: Director of internations growth and partnerships at Facebook, co-founder and VP of business development at Shaptu (anglited by Facebook), partner at Barazam. To , lear Attorneys at Law and Palen. Attorneys, led leadership to as at Act mize (acquired by NICC), DiskSites (acquired by EMC). Os go (acquired by Comive seit



## 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**.





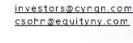
## THANK YOU



#### IR CONTACTS

At Cyngn Don Alvarez, CFO 831.239.5625 dalvarez@cyngn.com

At The Equity Group Carolyne Sohn, VP 415.568.2255 investors@cyngn.com





www.cyngn.com