This filing relates to the proposed merger involving Northern Genesis Acquisition Corp. II ("Northern Genesis 2") with Embark Trucks Inc. ("Embark"), pursuant to the terms of that certain Agreement and Plan of Merger, dated as of June 22, 2021.

Embark prepared a presentation in connection with its previously announced Embark Day held on September 22, 2021. A copy of the presentation deck is set forth below.

#### Forward-Looking Statements

This press release includes "forward-looking statements" within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. Embark's and Northern Genesis 2's actual results may differ from their expectations, estimates and projections and consequently, you should not rely on these forward-looking statements as predictions of future events. Words such as "expect," "estimate," "project," "budget," "forecast," "anticipate," "intend," "plan," "may," "will," "could," "should," "believes," "predicts," "potential," "continue," and similar expressions are intended to identify such forward-looking statements. These forward-looking statements include, without limitation, Embark's and Northern Genesis 2's expectations with respect to future performance. These forward-looking statements also involve significant risks and uncertainties that could cause the actual results to differ materially from the expected results. Factors that may cause such differences include, but are not limited to: (1) the outcome of any legal proceedings that may be instituted in connection with any proposed business combination; (2) the inability to complete any proposed business combination in a timely manner or at all; (3) delays in obtaining, adverse conditions contained in, or the inability to obtain necessary regulatory approvals or complete regulatory reviews required to complete any proposed business combination; (4) the risk that the business combination may not be completed by Northern Genesis 2 business combination deadline and the potential failure to obtain an extension of the business combination deadline if sought; (5) the failure to satisfy the conditions to the consummation of the transaction, including the adoption of the agreement and plan of merger by the stockholders of Northern Genesis 2 and Embark and the satisfaction of the minimum trust account amount following redemptions by Northern Genesis 2's public stockholders; (6) the lack of a third party valuation in determining whether or not to pursue the proposed business combination; (7) the risk that any proposed business combination disrupts current plans and operations and/or the impact that the announcement of the proposed business combination may have on Embark's business relationships; (8) the inability to recognize the anticipated benefits of any proposed business combination, which may be affected by, among other things, competition, the ability of the combined company to grow and manage growth profitably, maintain relationships with customers and suppliers and retain key employees; (9) costs related to the any proposed business combination; (10) changes in the applicable laws or regulations; (11) volatility in the price of Northern Genesis 2's securities due to a variety of factors, including changes in the competitive and highly regulated industries in which Embark plans to operate, variations in performance across competitors, changes in laws and regulations affecting Embark's business and changes in the combined capital structure; (12) the possibility that Embark or Northern Genesis 2 may be adversely affected by other economic, business, and/or competitive factors; (13) the impact of the global COVID-19 pandemic; and (14) other risks and uncertainties separately provided to you and indicated from time to time described in filings and potential filings by Embark and Northern Genesis 2 with the U.S. Securities and Exchange Commission (the "SEC"), including those discussed in Northern Genesis 2's Annual Report Form 10-K for the fiscal year ended December 31, 2020 ("Form 10-K") and Quarterly Report on Form 10-Q for the quarter ended June 30, 2021 and those that are expected to be included in the registration statement on Form S-4 and proxy statement/prospectus discussed below and other documents filed by Northern Genesis 2 from time to time. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Embark and Northern Genesis 2 caution that the foregoing list of factors is not exhaustive and not to place undue reliance upon any forward-looking statements, including projections, which speak only as of the date made. Embark and Northern Genesis 2 undertake no obligation to and accepts no obligation to release publicly any updates or revisions to any forward-looking statements to reflect any change in its expectations or any change in events, conditions or circumstances on which any such statement is based.

#### Additional Information About the Proposed Transactions and Where to Find It

The proposed transactions will be submitted to stockholders of Northern Genesis 2 for their consideration. Northern Genesis 2 has filed a registration statement on Form S-4 (the "Registration Statement") with the SEC which includes a preliminary proxy statement to be distributed to Northern Genesis 2's stockholders in connection with Northern Genesis 2's stockholders in connection with the proposed transactions and other matters as described in the Registration Statement, as well as the preliminary prospectus relating to the offer of the securities to be issued to Embark's shareholders in connection with the completion of the proposed merger. After the Registration Statement has been declared effective, Northern Genesis 2's stockholders and other relevant documents to its stockholders as of the record date established for voting on the proposed transactions. Northern Genesis 2's stockholders and other interested persons are advised to read the preliminary proxy statement/prospectus and any amendments thereto and, once available, the definitive proxy statement/prospectus, in connection with Northern Genesis 2's solicitation of proxies for its special meeting of stockholders to be held to approve, among other things, the proposed business combination, because these documents will contain important information about Northern Genesis 2, Embark and the proposed business combination. Stockholders may also obtain a copy of the preliminary or definitive proxy statement, once available, as well as other documents filed with the SEC regarding the proposed transactions and other documents filed with the SEC by Northern Genesis 2, without charge, at the SEC's website located at www.sec.gov or by directing a request to Northern Genesis 2.

INVESTMENT IN ANY SECURITIES DESCRIBED HEREIN HAS NOT BEEN APPROVED OR DISAPPROVED BY THE SEC OR ANY OTHER REGULATORY AUTHORITY NOR HAS ANY AUTHORITY PASSED UPON OR ENDORSED THE MERITS OF THE OFFERING OR THE ACCURACY OR ADEQUACY OF THE INFORMATION CONTAINED HEREIN. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

#### Participants in the Solicitation

Northern Genesis 2, Embark and certain of their respective directors, executive officers and other members of management and employees may, under SEC rules, be deemed to be participants in the solicitations of proxies from Northern Genesis 2's stockholders in connection with the proposed transactions. Information regarding the persons who may, under SEC rules, be deemed participants in the solicitation of Northern Genesis 2's stockholders in connection with the proposed transactions will be set forth in Northern Genesis 2's proxy statement/prospectus when it is filed with the SEC. You can find more information about Northern Genesis 2's directors and executive officers in Northern Genesis 2's Form 10-K and Forms 10-Q filed with the SEC. Additional information regarding the participants in the proxy solicitation and a description of their direct and indirect interests will be included in the proxy statement/prospectus when it becomes available. Stockholders, potential investors and other interested persons should read the proxy statement/prospectus carefully when it becomes available before making any voting or investment decisions. You may obtain free copies of these documents from the sources indicated above.

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ntation") is being delivered to you by Embark Trucks, Inc. ("Embark") in connection with its proposed business combination (the "Transaction") with Northern Genesis Acquisition Corp. II ("SPAC" or "Northern Genesis 2"), and the future operation ("Combined Co"). ntation (the "pres npany ("Co

This presentation and any oral statements made in connection with this presentation shall neither constitute an offer to sell nor the solicitation of an offer to buy any securities, or the solicitation of any proxy, vote, consent or approval in any jurisdiction in connection with the proposed business combination, nor shall there be any sale of securities in any jurisdiction in which the offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such jurisdiction. propo

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Proverd-Looking Statements
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#### Industry, Market Data and Partnerships

industry, winket beta and rait international processing in the internation in this presentation, Embark and SPAC rely on and refers to certain information and statistics regarding the markets and industries in which Embark competes. Such information and statistics are based on management's estimates and/or obtained from third-party sources, including reports by market research firms and company filings. While Embark and SPAC believe such third-party information is reliable, there can be no assurance as to the accuracy or completeness of the indicated information. Embark and SPAC believe such third-party information is reliable, there can be no assurance as to the accuracy or completeness of the indicated information. Embark and SPAC have not independently verified the accuracy or completeness of the information provided by the third-party sources.

sentation contains descriptions of certain key business partnerships with Embark. These descriptions are based on the Embark management team's discussion with such counterparties, certain non-binding written agreements and the latest available inform is as of the date of this Presentation, unless specified otherwise. This Pres

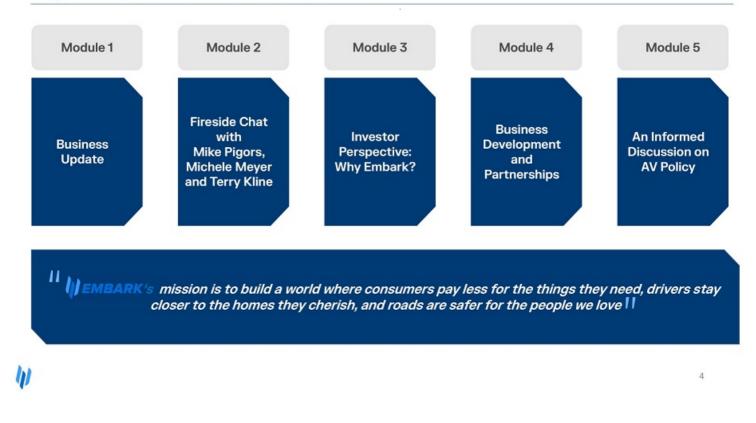
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#### Projections

Projections The presentation contains projected financial information with respect to the combined business of Embark and SPAC, including revenue and gross profit for 2024-2027. Such projected financial information constitutes forward-looking information, is for illustrative purposes only and should not be relied upon as being necessarily indicative of future results. The assumptions and estimates underlying such projected financial information are inherently uncertain and are subject to a wide variety of significant business, economic and competitive risks and uncertainties that could cause actual results to differ materially from these contained in the projected financial information. See "Forward Looking Statements" pargraph above. Actual results may differ materially from the esults contemplated by the projected financial information contained in the presentation, and the inclusion of such information in the presentation should not be regarded as a representation by Embark or SPAC that the results tredicted in sub projections will be achieved, compled, compled, or performed any procedures with respect to the projections for the purpose of their inclusion in the presentation, and, accordingly, have not expressed an opinion or provided any other form of assurance with respect thereto for the purpose of the presentation.

# Agenda for Today's Discussion



# Overview of the SPAC Process

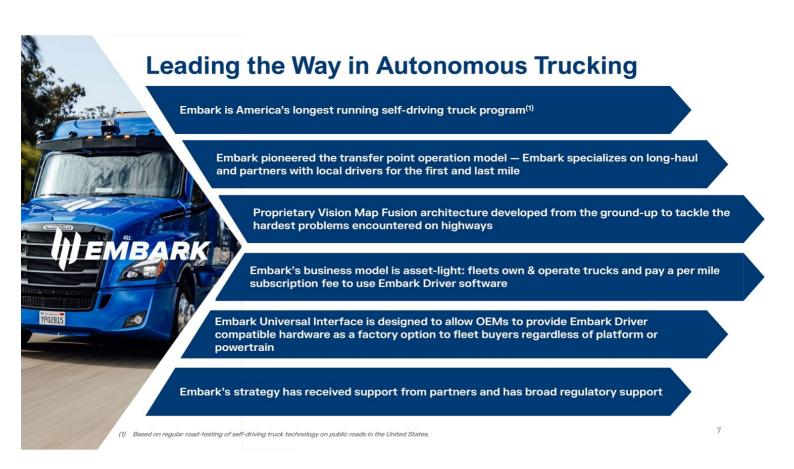
## SPAC Process Overview

- The SPAC process has allowed Embark to engage with more investors over a longer period of time in more depth relative to an IPO process
  - Embark has validated the valuation of the transaction with a \$200mm PIPE from leading institutional and strategic investors including CPPIB, Sequoia and Knight-Swift
- Support from high quality SPAC sponsor in Northern Genesis Acquisition Corp. II (Ticker: NGAB)
  - Strong track record with Lion Electric
  - Owner-operator mindset: the ideal fit for Embark
- Once a business combination is announced, the SPAC files a S-4 registration
   statement, which like a S-1 in an IPO, undergoes SEC review we are in SEC review
- Once the SEC completes its review, the SPAC (in discussion with Embark) sets the record date
  - The record date is the date that a person/entity needs to be a shareholder in order to vote for the items listed above

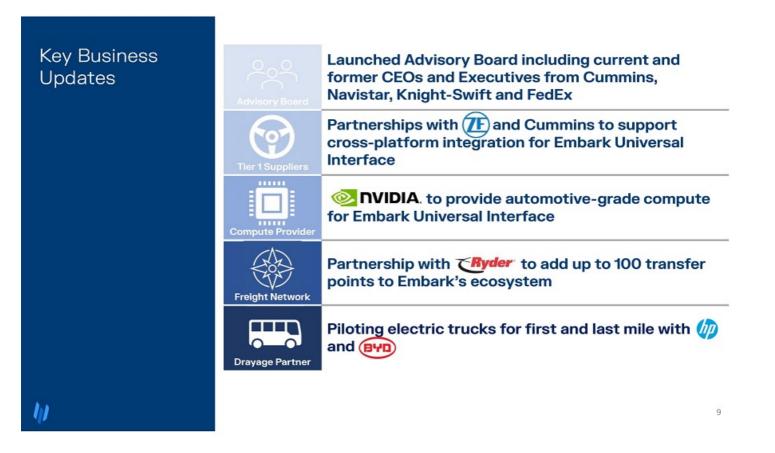
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- · The shareholder vote typically occurs approximately 4 weeks after the record date
- The business combination is expected to close within a couple of days of the shareholder vote
- · Embark will officially start trading the day after closing









# Embark Announces the Formation of Advisory Board

- Overview and Key Highlights
- Embark launches Advisory Board including current and former CEOs and Executives from Cummins, Navistar, Knight-Swift and FedEx
- The team of six leaders will serve as key advisors to Embark as we finalize our commercialization strategy and prepare to enter the market
- Since inception, Embark has understood the importance of incorporating insights from industry veterans to help inform our strategy and we look forward to working alongside our advisors for the years to come



1)



Rich Freeland Fmr. COO Cummins



David A. Jackson CEO Knight Transportation



Terry S. Kline Fmr. ClO Navistar



Michele S. Meyer Fmr. President, Snacks Operating Unit, General Mills



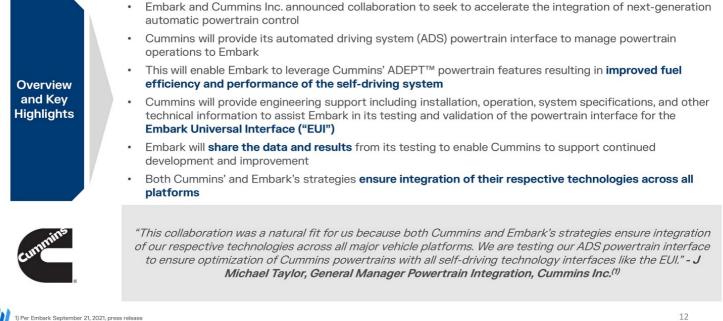
Mike K. Pigors Fmr. Region President for US Domestic and US International, 10 FedEx

# Embark and () Collaborate to Validate Automatic Steering Control in Self-Driving Trucks

Overview and Key Highlights	<ul> <li>steering solution, ultimately leading to a safer and more performant autonomous technology stack.</li> <li>Automated vehicles require some level of subsystem redundancy to allow for continued operation in a faulted state (e.g., under conditions such as loss of communication, ignition, etc.)</li> <li>ZF will provide access to the prototype ReAX steering solution and engineering support to Embark, including installation and operation of the system <ul> <li>Embark will integrate and test ReAX with the EUI and will relay data and results to ZF in order to promote continued development and improvement</li> </ul> </li> <li>Embark has tested ZF equipment for 4 years and this collaboration will take the relationship to the next level</li> <li>Both Embark and ZF pursue an OEM-agnostic approach with the trucking industry</li> </ul> <li><i>"As the autonomous trucking sector grows, it's incumbent upon Tier-1 suppliers like ZF to outfit technology companies and OEMs with next-generation solutions. Our collaboration with Embark provides additional data for critical testing and validation of the ReAX steering solution</i></li>	
	and will ensure that Embark's autonomous trucks are equipped with best-in-class steering innovations as the company pursues its commercialization effort." – Julien Plenchette, Vice President, Americas, Commercial Vehicle Solutions Division, ZF Group	

# Embark Testing Cummins Automatic Powertrain Control

Collaboration to give Embark access to Cummins' next-generation powertrain interface to accelerate integration of the Embark Universal Interface



# Embark Uses NVIDIA DRIVE® to Power its Embark Universal Interface for the Autonomous Trucking Industry

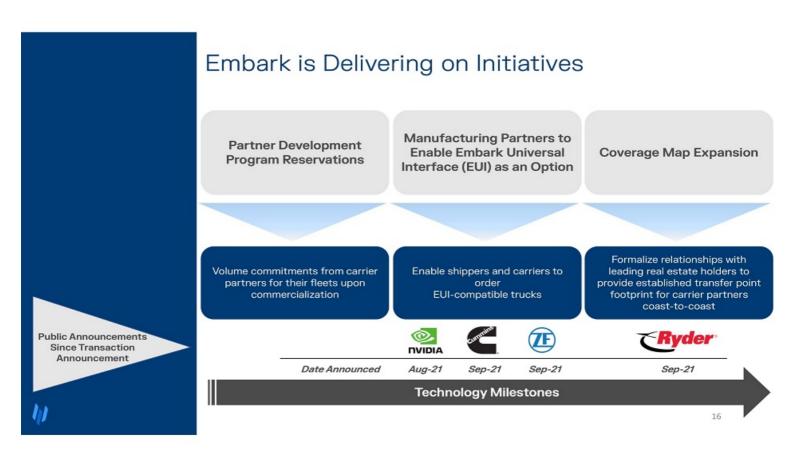
Overview and Key Highlights	<ul> <li>Embark intends to equip its test fleet with automotive-grade, high-performance, and energy-efficient compute by collaborating with NVIDIA and adopting the DRIVE® platform</li> <li>High-performance computing is critical to processing complex AI algorithms and autonomous vehicle software. By using the NVIDIA DRIVE® platform, Embark is adopting best-in-class scalable compute solutions to deploy robust self-driving software, marking the next step in Embark's four-year relationship with NVIDIA</li> <li>The NVIDIA DRIVE® platform is the first scalable AI platform that features co-developed hardware and software that work together to enable the production of automated and self-driving vehicles, combining deep learning, sensor fusion, and surround vision for a safe driving experience</li> </ul>
	<b>NVIDIA</b> . "By selecting NVIDIA DRIVE®, Embark will help accelerate the development of commercial self-driving software-as-a-service for the trucking industry, achieving a safer and more efficient freight ecosystem," Rishi Dhall, Vice President of Automotive Business at NVIDIA

# Embark Partners with *Ander* to Launch Nationwide Network of Up to 100 Freight Transfer Points for Autonomous Fleets



# Embark and 🕼 Introduce EV Drayage with 폐







# Disciplined, Consistent and Sole Focus on Trucking

#### **Embark's Mission-Driven Philosophy**

Embark's software technology is differentiated . because it was designed from the beginning to be commercialized at scale for a sole use case in trucking Urban driving use case presents challenges that are not transferrable to AV Trucking Developing an autonomous software stack is about . time and refining the layers of code Embark has been working on this problem for a long time History and experience focused on safely developing . trucking software differentiates Embark's technical aspects, but also practical aspects in commercializing the technology arden Lab First AV Truck on US Highways<sup>(1)</sup> ) EMBARK tu simple - Plus Aurora July 2020 October 2016 November 2017 May 2018 June 2017 **EMBARK** is the Longest-Running Self Driving Truck Program

1) Embark date based on internal record. All other dates are estimates determined through public records.

# Embark's Seed Pitch Deck (2016)

# Key Aspects of Our Business



# Technology: Vision Map Fusion

#### What is Vision Map Fusion?

- · Vision Map Fusion is Embark's differentiated approach to mapping
- Embark does not treat the map as static, but rather treats the map as a dynamic changing environment
  - · Legacy AV systems rely on HD mapping given focus on the robotaxi market or generally accepted practice of building a firstgeneration system
- · Vision Map Fusion leverages Embark's cutting-edge non-linearoptimization techniques to update the map in real-time using detailed road geometry data from Embark's LiDAR and Camera sensors
- This allows the Embark Driver software to detect and respond to new situations where the map may be outdated and improves the safety of the system
- This technology should also enhance the expansion of Embark's operational design domain for situations like snow, where lack of lane markings or lane closures due to inclement weather are common challenges
- · Vision Map Fusion was designed for trucking given the lack of rerouting capability for highway driving and may not be as applicable for urban driving
- · Vision Map Fusion has been a key catalyst to carrier partnerships given deep understanding of highway construction frequency

rce: YouTube. Company materials. https://aurora.tech/blog/the-atlas-our-hd-mapping-system - (Discussing Aurora's HD map technolog) https://bus.ai/Plus\_Safety\_Report\_2021.pdf https://www.sec.gov/Archives/edgar/data/1823593/000119312521091150/d909743ds1.htm 2) 3)

#### Other AV Companies Rely on HD Mapping

"...HD maps can become a morass of dense, heavyweight data that requires significant time and resources to maintain."(1

Aurora

"Using both our cameras and our lidar, we can localize with respect to our HD maps which contain structured priors that can aid in rapidly and accurately understanding our surroundings."(2) -+) plus.ai

"Our HD digital mapped routes currently span over 3,000 miles across the U.S., and we expect to map the entire 46,000 mile U.S. Interstate System by 2024."(3)

tu simple



and **EMBARK** responding paring to encountering a work zone on the road.

# 📮 Embark Universal Interface

# What is Embark Universal Interface ("EUI")?

- EUI is a standard sensor module and compute module designed to interface with most major steering and braking actuators
- Comprised of cameras, lidars, radars, and GPS in order to perceive the world around the trucks and enable safe autonomous driving
- EUI is intended to enable Embark's carrier partners to purchase Embark Driver-compatible vehicles from multiple OEM integrators
  - Nearly 90% of top 25 carriers run 2+ OEMs and ~50% run 3+ OEMs<sup>(1)</sup>
  - Embark's PDP partners currently run all 4 major OEMs
- Provides flexibility for future integration for a variety of powertrain and propulsion systems
- Designed to be consistent with the way the trucking and logistics industry operates today
- Designed to be a factory option for carriers
- EUI cost bundled into truck cost, paid for by carriers and their customers
- Under the current model, EUI is enabling technology, not a profit driver



Fleet OEM composition based on company analysis of publicly available media and disclosures.





# Asset Light Go-To-Market Strategy

## What is Embark's Asset-Light Go-to-Market Strategy?

- Embark will commercialize its technology in a manner that is consistent with how the trucking and logistics industry already operates today
- Embark's customers are the carriers and shippers, who may license Embark's technology for a per mile subscription fee
  - Embark does not build trucks and does not intend to create
     its own carrier network
- In-depth analysis network analysis with current carrier partners designed to bring the technology to market at a commercial scale
  - Leverage the capital spend and economies of scale carriers have with OEMs to enhance the overall ecosystem in a capital efficient manner
- Work with Tier I suppliers to integrate and work with OEMs, consistent with the way trucks are built today
- Embark will look to partner with real-estate partners to expand its coverage map and build a transfer point network that can be scaled

#### **Complementary Asset Partnerships**



Robust Partnership Model Allows Embark to Remain Asset-Light, Focus on on its Core Competency of Software Development and Leverage the Existing Ecosystem as it Exists Today.

23

1) Replacement figure based on the total fleet of the top 100 carriers (https://www.ttnews.com/top100/for-hire/2021) and assumes 25% of the total fleet is replaced annually at \$125k replacement value per truck



# Embark is Differentiated Versus Competitors

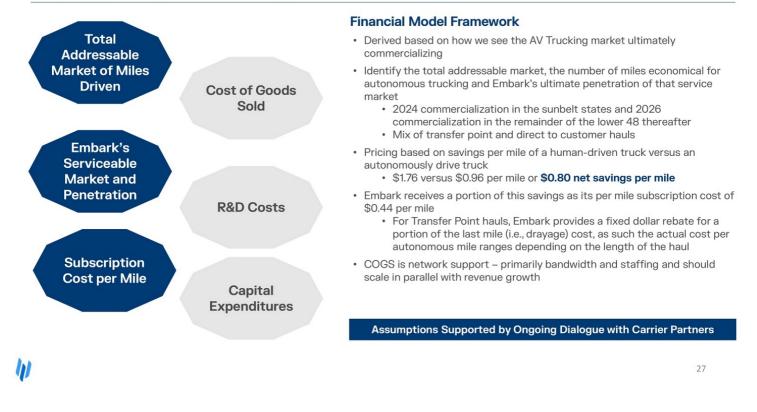
	) EMBARK	WAYMO	tu simple	Aurora
First AV Truck on US Highways <sup>(1)</sup>	October 2016	June 2017	November 2017	July 2020
Solely trucking focused	$\checkmark$	8	$\checkmark$	8
Freightliner			8	8
PACCAR Volvo			8	
Volvo		8	8	
A Navistar		8		8
Vision-Map Fusion	$\checkmark$	8	$\bigotimes$	8
Asset Light?		8	$\otimes$	8
U.S. Shipper Partnerships	ABInBev		MOLANE	
U.S. Carrier Partnerships		UDS STREEHUNT	WERNER U.S. NYRISS	

h

Source: Company filings and public announcements. 1) Embark date based on internal data. All other dates estimated based on public records.

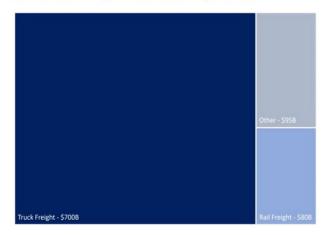


# **Financial Model Framework**



# Reviewing the Domestic Freight Market

# Domestic Freight Modalities by Revenue<sup>(1)</sup>



Embark is entering a nearly \$1.0T domestic freight industry, of which \$700B is derived from truck freight.

5)

# **Truck Freight: By the Numbers**

2.0M semi-trucks in operation<sup>(2)</sup>

60k truck driver shortage expected to increase to 160k by 2028<sup>(3)</sup>

1 in 5 shippers have their electronic shipment requests rejected by carriers<sup>(4)</sup>

~70% of goods shipped (by value) are transported by trucks<sup>(5)</sup>

300B miles travelled annually<sup>(6)</sup>

\$700B total truck freight revenue

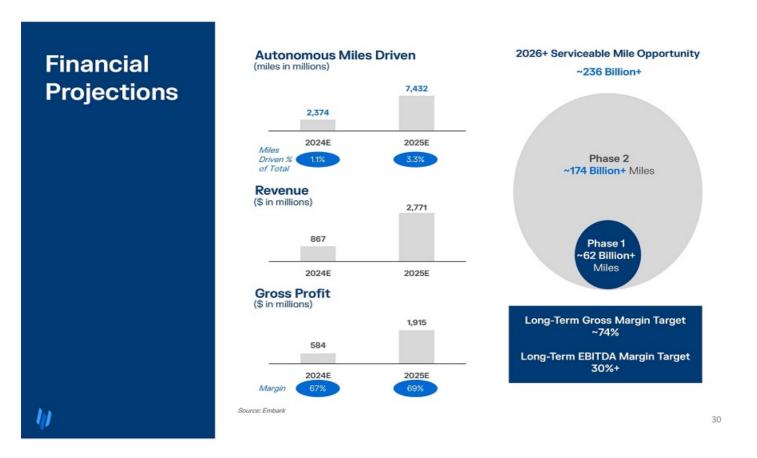
Truck Freight (2018 data):https://www.trucking.org/news-insights/new-report-finds-trucking-industry-revenues-topped-700-billion Rail Freight (2017 data): https://railroads.dot.gov/rail-network-development/freight-rail-overview (2014 data) https://hdstruckdrivinginstitute.com/blog/semi-trucks-numbers/ (2018 data) https://www.truckdrivinginstitute.com/blog/semi-trucks-numbers/ (2018 data) https://www.truckdrivinginstitute.com/blog/semi-trucks-numbers/ (2018 data) https://www.treightwaves.com/news/rejection-rate-down-meaningfully-but-spot-rates-at-al-timme-high-what-gives https://www.treightwaves.com/news/rejection-rate-down-meaningfully-but-spot-rates-at-al-timme-high-what-gives https://www.treightwaves.truck-first-passed-on-the-highway.html Based on Freight Analysis Framework from the US DOT: https://ops.fhwa.dot.gov/freight/reight\_analysis/faf/ 1) 2)

# Embark's Mileage Framework

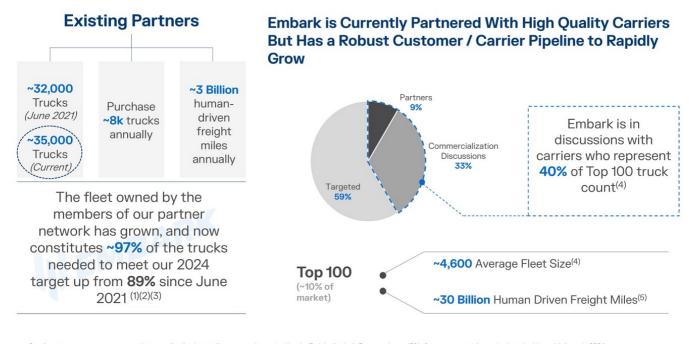
# Autonomous Truck Miles Driven<sup>(1)</sup> Total Addressable Market of ~300 Billion Miles Annually Today Transfer Point Direct to Customer >300 Miles >100 Miles 86% of miles are on routes that are > 100 miles %0-90% of miles are within Embark's ODD Directed Embark Penetration as a % of 2024E 2025E 11% 3.3%

Mile Detail <sup>(1)</sup>		
(miles in millions)		
Phase 1	2024E	2025E
Total Freight Miles	96,677	98,224
Total Serviceable Miles	56,970	59,455
300+ Mile Routes	52,421	53,425
100 – 300 Mile Routes <sup>(2)</sup>	4,550	6,029
Embark Miles Driven	2,374	7,432
Phase 2	2024E	2025E
Total Freight Miles	218,008	221,496
Total Serviceable Miles	164,064	169,081
300+ Mile Routes	157,603	160,519
100 – 300 Mile Routes <sup>(2)</sup>	6,461	8,562
Embark Miles Driven		

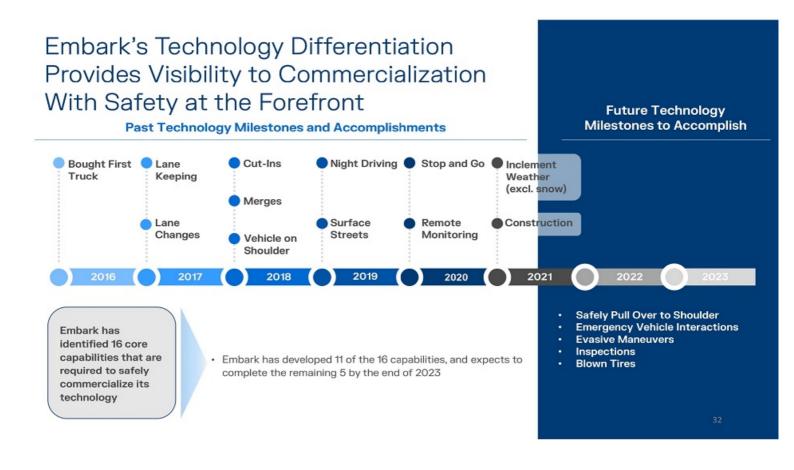
1) Analysis based on the Freight Analysis Framework, produced in partnership with the Bureau of Transportation Statistics and the Federal Highway Administration and additional data from the Bureau of Transportation Statistics Link: https://ops.fiwa.doi.gov/freight/freight\_analysis/fat/ 2) 100-300 mile trips only economical in Direct to Customer model (i.e. orgin/destination within operating domain)



# Existing Partner Data Supports Mileage Targets



sumes our partner routes are the same distribution as all routes, as determined by the Freight Analysis Framework, or ~18% of our partner trucks are in phase 1 addressable lanes in 2024 sumes each autonomous truck can run 360K miles per year recast requires ~6,500 autonomous trucks to meet 2024 mileage targets and estimates that the 5 existing partners have ~6,300 trucks on lanes deployed in 2024 based on Sep-21 figures sed on Top 100 For-Nire carrier data from Transport Topics. https://www.tmews.com/top100/for-hire/2021 lculated based on top 100 total tractor count of ~342K (Transport Topics) and ~94K annual miles per truck (Trucking Research - https://truckingresearch.org/wp-content/uploads/2020/11/ATRI-erational-Costs-of-Trucking-2020.pdf) 31



# **Operational Overview**

# Safety

#### Industry-Leading FMCSA Stats<sup>(1)</sup>

- Zero failed DOT inspections .
- Zero DOT crashes

# - Testing

## Public Road Testing<sup>(2)</sup>

- 4.5+ years of public road testing
- Longest running self-driving truck program in America

#### **Efficient Fleet Utilization**

60,000 miles/truck-year on . average since 2018(3)

#### **Ready for Scale**

400%+ expected internal AV testing fleet growth by end of 2023<sup>(4)</sup>

# **Commercial**

## **Shipper & Carrier Partners**

- Current partners own ~35,000 trucks<sup>(5)</sup>
- 3x YoY growth in the number of shipper and carrier partners we work with<sup>(6)</sup>

#### Service

• 100% on time delivery rate 2018 to date

# **EMBARK** Ultimately Defines Success by Safely Commercializing our Technology

Based on Federal Motor Carrier Safety Administration Company Snapshots: https://safer.fmcsa.dot.gov/CompanySnapshot.aspx Based on earliest available publicized information of public road testing with a Class B truck in the US Based on average miles per truck-year for Embark's autonomous truck filed from Jan 12018 to August 51 2021 Minimum expected autonomous truck fileet count growth from September 2021 until the end of 2023 based on current forecasting Based on public reports of Embark's current shipper and curring partners. Based on public reports of Embark's current shipper and curring partners.



# **Concluding Perspectives**

# Embark has established itself as a leader in the autonomous trucking industry



Focused on a market with a clear commercial and business use-case: commercialization is expected in the near-term and tangible

Disciplined, consistent focus from the start on AV trucking, which has enhanced technology leadership



Commitment to building a product that places the safety of its end users as its top priority



Partnership model allows Embark to focus on core competency of software development and deploy its capital efficiently

Embark seeks to enhance and help evolve the overall industry, not disrupt or break the industry



### Advisory Board Presenters



Mike K. Pigors Fmr. Region President for US Domestic and Intl, FedEx



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Michael "Mike" Pigors spent his 40-plus year career at Federal Express (FedEx), where he most recently served as Regional President and Executive Vice President for US Domestic and US International

- Began his career at FedEx in 1979 as a Ramp Agent, and has since worked throughout the organization, holding senior leadership positions since 1990
- Previously served on the board of directors of the Intermodal Transportation Institute, a program at the University of Denver's Center for Transportation Management founded to promote sustainable transportation systems worldwide

Michele Meyer has spent the majority of her 30-plus year career in the CPG industry at General Mills. She most recently served as President and SVP for General Mills' Snacks Operating Unit, a position she held from 2017 to 2019

- During her tenure at General Mills, she oversaw national product launches, restructured and optimized global supply chains, and spearheaded major business growth initiatives
- Currently serves as an Operating Partner at Newroad Capital Partners and as a board member at the SPOON Foundation, the National Association of Corporate Directors (Minneapolis Chapter), and Woman Corporate Directors (Minneapolis Chapter)

Michele S. Meyer Fmr. President, Snacks Operating Unit, General Mills



Terry S. Kline Fmr. CIO Navista

- Terry Kline is a seasoned technologist and automotive and trucking industry expert, having served as an IT leader at major global OEMs during his career
- Senior Vice President and Global CIO of Navistar International from 2013 to 2018
- Held senior leadership roles at GM from 2000 to 2012, including serving as Vice President and Global CIO from 2009 to 2012
- Currently the MD of TSK Technology Group, a consulting firm he founded in 2012 specializing in the connected vehicle industry





### An Investor Perspective: Why Embark?

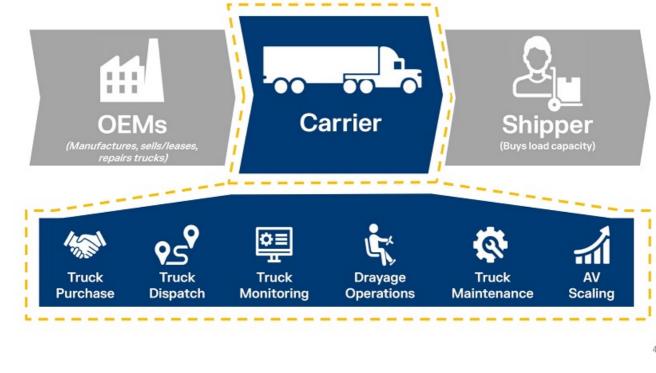


Pat Grady Partner, Sequoia Capital

Pat Grady is a Partner at Sequoia Capital, which he joined in 2007, and is responsible for the partnership's growth-stage investment business in the U.S. and Europe. He is a Director of Amplitude, Attentive, Cribl, Embark Trucks, Namely, Okta (OKTA), and Pilot. He has also had the privilege of working closely with Drift, Gather, HubSpot (HUBS), Jive Software, MarkLogic, Medallia (MDLA), Neeva, OpenDNS, Qualtrics (XM), ServiceNow (NOW), Snowflake (SNOW), Sumo Logic (SUMO), Sunrun (RUN), and Zoom (ZM), among others. Pat holds a B.S. from Boston College, grew up in the Powder River Basin of Wyoming, and lives in Portola Valley with his wife and two daughters.



### Embark Freight Ecosystem



### Embark partners represent over 35,000 trucks and \$22B in freight<sup>(1)</sup>

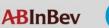
### Embark Partner Development Program

A systematic approach to preparing the nation's leading carriers to deploy, operate and scale autonomous trucks across their existing networks









#### **Strategic Planning**

Embark is working with shippers and carriers to analyze their nationwide freight networks at a lane level and **develop detailed rollout plans** for converting portions of these networks to autonomous



Based on public reports of Embark's current shipper and carrier partners

#### **Operational Testing**

Embark is **hauling with carriers and shippers** to refine operational details such as dispatching, maintenance and monitoring, establishing a scalable autonomous trucking operating model



#### **Ecosystem Building**

Embark is collaborating with carriers and shippers to **define and establish** the transfer point, regulatory, insurance and technology **infrastructure** necessary to efficiently scale autonomous trucking





## Strategic Planning

Embark is working with shippers and carriers to analyze their nationwide freight networks at a lane level and develop detailed rollout plans for converting portions of these networks to autonomous

#### **Network Assessment**

- Benefits: Quantify carrier benefits at a lane level across savings, speed, sustainability and safety
- Clusters: Cluster lanes based on attractiveness for conversion considering factors such as region of operation, lane length, frequency, lane density, growth potential, through a host of Embark proprietary measures
- Sequence: Sequence lane clusters for rollout, factoring in carrier business objectives and operational adaptations needed



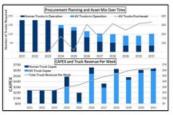


Where are my high-density shuttle lanes, can I grow them?

Where can I remove one or more days of delivery time?

### **Deployment Planning**

- Trucks: Utilize Network Assessment to define specific truck needs during early years of deployment (supply constrained years)
- Capital: Model CAPEX, NWC and vehicle lifecycle implications for carriers to begin financial planning today
- Operations: Determine geographic operational requirements to support rollout including drayage truck capacity, drayage drivers, site mapping needs (shipper facilities, LTL DCs, Transfer Points, etc.).





How will truck count, CAPEX and NWC change over time?

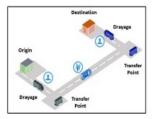
Where will I need drayage drivers and how many?

## **Operational Testing**

Embark is hauling with carriers and shippers to refine operational details such as dispatching, maintenance and monitoring, establishing a scalable autonomous trucking operating model

### **Process Testing**

- Industry Vertical Exposure: Embark has hauled loads for most industry verticals, including retail, food and beverage, ecommerce, durable goods and automotive, providing a range of insights
- Process Learnings: Embark's testing informs autonomous truck specific process flow changes related to site turn around time, weigh scale processes, onsite maneuvering and trailer quality requirements



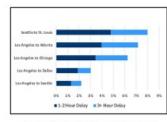
What information will shippers need about AV trucks?

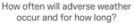


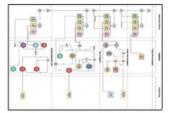
What can be done to support quick repairs onsite?

### **Process Development**

- Adverse Weather Process Flow Development: Embark received feedback from carrier weather teams, carrier dispatch teams, airlines and data scientists to develop a sophisticated dispatch logic that approves AV vehicles for missions
- Adverse Weather Assessment: Embark analyzed over 100M datapoints to determine the probability of adverse weather events occurring on specific lanes, providing Embark and carrier partners insight into which lanes to target from an operational ease perspective







What logic should be followed for dispatching days ahead and realtime?

### **Ecosystem Building**

Embark is working with partners across the ecosystem to develop a virtual coverage map (Embark Coverage Map) that includes the physical locations (transfer points) between which fleet partners will be able to run Embark trucks.

#### **Embark Coverage Map**

Planned Embark Coverage Map will consist of three types of nodes, each serving a specific use case.

- Dedicated Transfer Points, like those that Ryder should operate, will be placed in major freight nodes to support the high throughput that a shared site cannot
- Shared Transfer Points, like truck stops and maintenance facilities, will provide additional density in major markets and help serve secondary markets
- Shipper Transfer Points, like distribution centers, manufacturing facilities and LTL cross-docks, will enable AVs to run directly doorto-door

Partnership Approach: Embark is working with a host of real estate operators (industrial REITs, truck stops, maintenance providers, etc.) who have existing footprints in order to be capital efficient



Which locations should Embark prioritize in support of large carriers and shippers?

### **Transfer Point Operations**

- Onsite Operations: Through the Embark/Ryder partnership, Ryder plans to operate certain purpose-built transfer points within the Embark Coverage map, intended to provide fleet partners a comprehensive, efficient and consistent onsite experience for activities ranging from gate-access to pre-launch inspection to tire changes to sensor cleaning
- Direct to Shipper Process Flows: Embark is beginning to work with select shippers to map their facilities into our network and define how their site staff will interact with AVs onsite

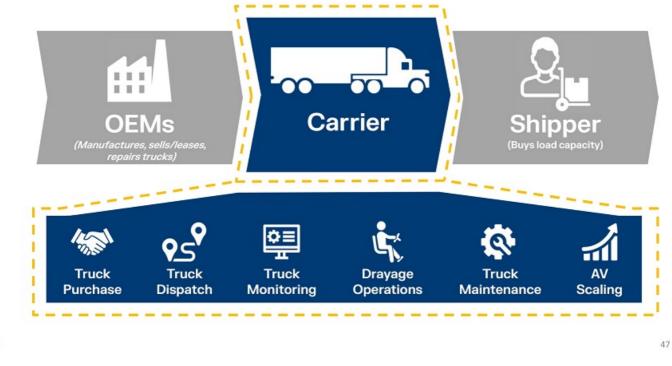


How do we most effectively and safely utilize transfer point space?



How do carriers currently perform similar onsite services?

## Embark Freight Ecosystem





# **EMBARK** is Leading the Way on Policy





#### **Elaine Chao**

- U.S. Secretary of Transportation (2017-2021)
- Oversaw development of first-ever regulatory guidance on autonomous trucking
- U.S. Secretary of Labor (2001-2009)
   Past board positions at Dole Foods, Wells Fargo Bank, Harvard Kennedy School

Trucking is the backbone of the American economy. I believe Embark's technology will strengthen U.S. economic competitiveness by making trucks safer, dramatically improving productivity, and solving the real and growing driver shortage. — Elaine Chao

#### Jonny Morris



 Joined Embark in June 2017
 B-year veteran of autonomous vehicle policy issues in automotive, trucking, and insurance industries
 Served as technology and policy adviser in the Obama White House, U.S. Department of Defense, and U.S. Department of State

Early on at Embark, we knew we had to lead on autonomous trucking policy. Helping shape the regulatory framework is the right thing for our company and will ensure the safety and efficiency benefits of Embark's technology are not delayed. — Jonny Morris

