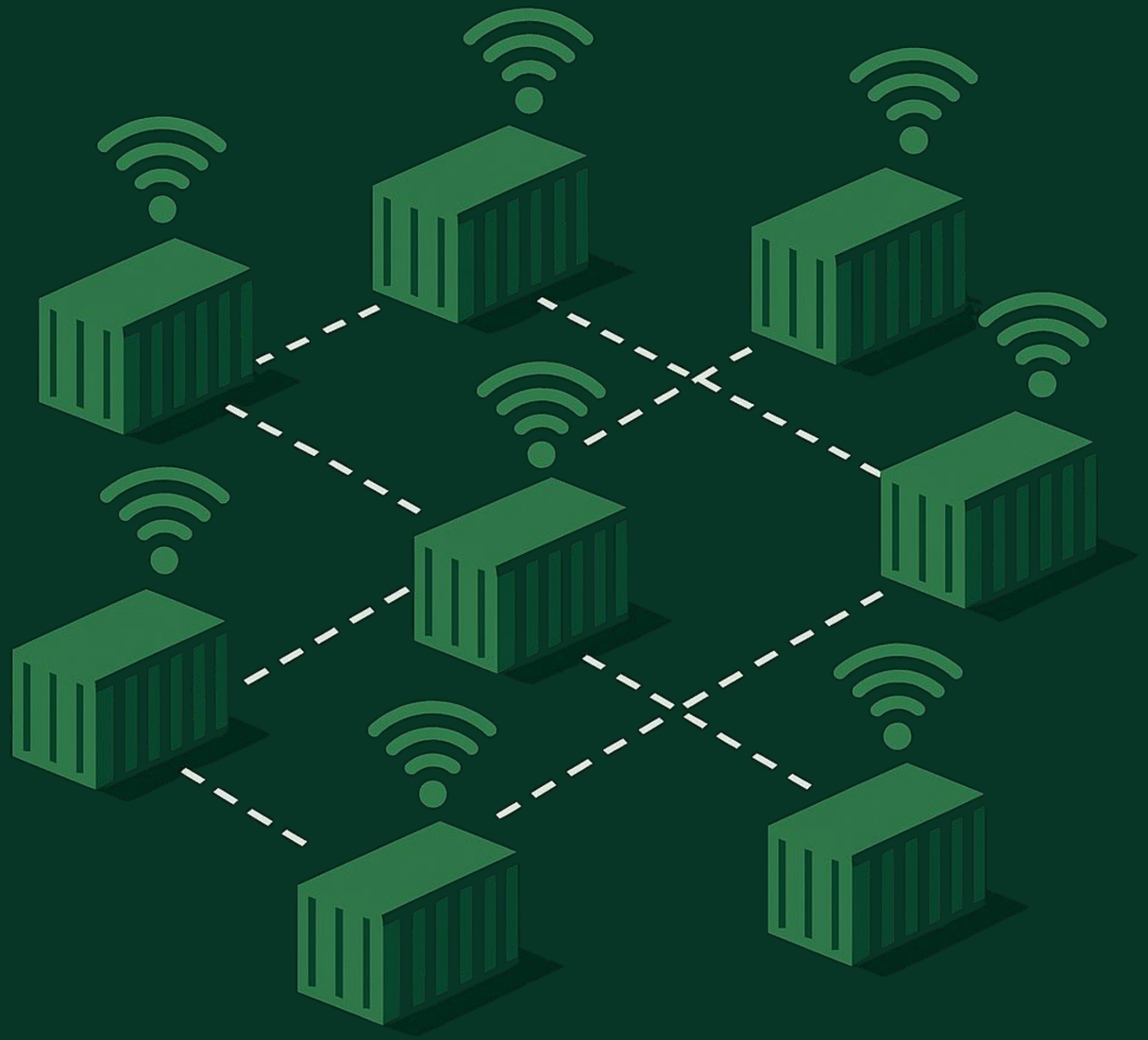
ASICargo

Enabling Intelligence
to Every Shipping Container



The Team

Sílvio Bártolo

Martim Agostinho

Francisco Sá da Costa

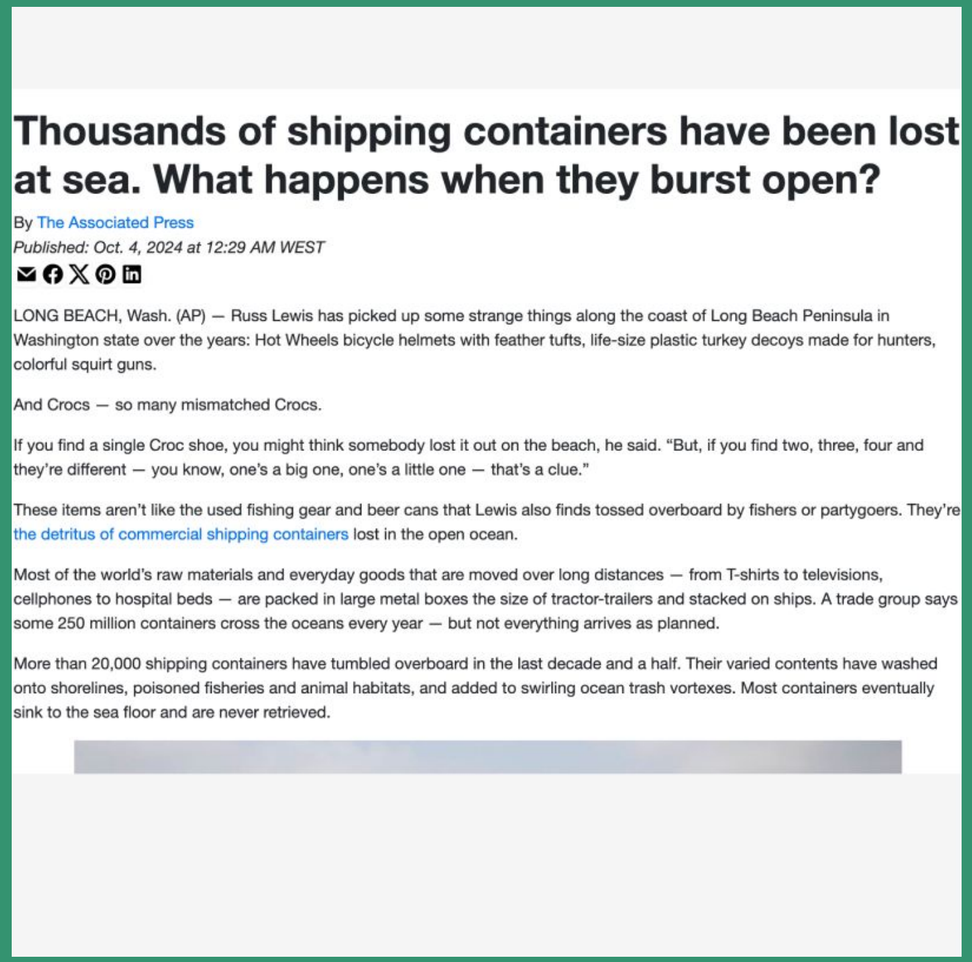
ASICar

Problem Identificatio

- No real-time monitoring of environmental conditions inside containers, leading to product damage and financial losses.
- Absence of real-time location tracking, creating logistics challenges and weakening product security.
- Delayed response to variations inside containers, resulting in increased operational risks and costs.

ASICar

Problem Identification



Thousands of shipping containers have been lost at sea. What happens when they burst open?

By The Associated Press

Published: Oct. 4, 2024 at 12:29 AM WEST

LONG BEACH, Wash. (AP) — Russ Lewis has picked up some strange things along the coast of Long Beach Peninsula in Washington state over the years: Hot Wheels bicycle helmets with feather tufts, life-size plastic turkey decoys made for hunters, colorful squirt guns.

And Crocs — so many mismatched Crocs.

If you find a single Croc shoe, you might think somebody lost it out on the beach, he said. “But, if you find two, three, four and they’re different — you know, one’s a big one, one’s a little one — that’s a clue.”

These items aren’t like the used fishing gear and beer cans that Lewis also finds tossed overboard by fishers or partygoers. They’re the detritus of commercial shipping containers lost in the open ocean.

Most of the world’s raw materials and everyday goods that are moved over long distances — from T-shirts to televisions, cellphones to hospital beds — are packed in large metal boxes the size of tractor-trailers and stacked on ships. A trade group says some 250 million containers cross the oceans every year — but not everything arrives as planned.

More than 20,000 shipping containers have tumbled overboard in the last decade and a half. Their varied contents have washed onto shorelines, poisoned fisheries and animal habitats, and added to swirling ocean trash vortexes. Most containers eventually sink to the sea floor and are never retrieved.

COLD CHAIN LOGISTICS

Why the Pharma Cold Chain Needs Ultra-Low Temperature Tracking & Hyper-Accurate Condition Monitoring

Krenar Komoni CEO AND FOUNDER September 29, 2022 · 13 min read

As the global pharma cold chain market continues to expand, so does the demand for real-time temperature tracking. Worldwide sales of cold chain drugs and biologics will likely top $440 billion by 2024, with the overall biopharma market exceeding $1.58 trillion. According to the MarketsandMarkets research, the cold chain monitoring market is expected to reach $10.2 billion by 2026, up from $4.7 billion in 2021.

Maintaining product integrity is becoming increasingly challenging amid this unprecedented growth. Many cold chain pharmaceutical products must be stored and transported in temperature-controlled environments ranging from minus-50°C to minus-200°C and have a lower tolerance for excursions. GPS devices can be an invaluable resource for tracking these shipments.

ASICar

Food spoilage is an acute problem in the global supply chain. A third of all food produced is lost or wasted, totalling more than $35 billion annually. 12% of global food loss occurs due to ineffective refrigeration and cold chain logistics during transport, amounting to approximately 526 million tonnes of food spoiled annually. (1)

Reefer management is a process of monitoring and maintaining the quality of perishable goods during transport. Reefer units keep goods at a specific temperature, usually cold, to extend their shelf life. Reefer management systems help by providing alerts that keep reefer units in optimal condition and log comprehensive temperature data. This data can be used to identify trends and potential issues, ultimately helping to improve the quality of transported goods.

The **ONE Apus** is a 14,000 TEU container ship. In 2020, it lost approximately 1,816 containers overboard in the Pacific Ocean, the largest loss of containers in transport since 2013.

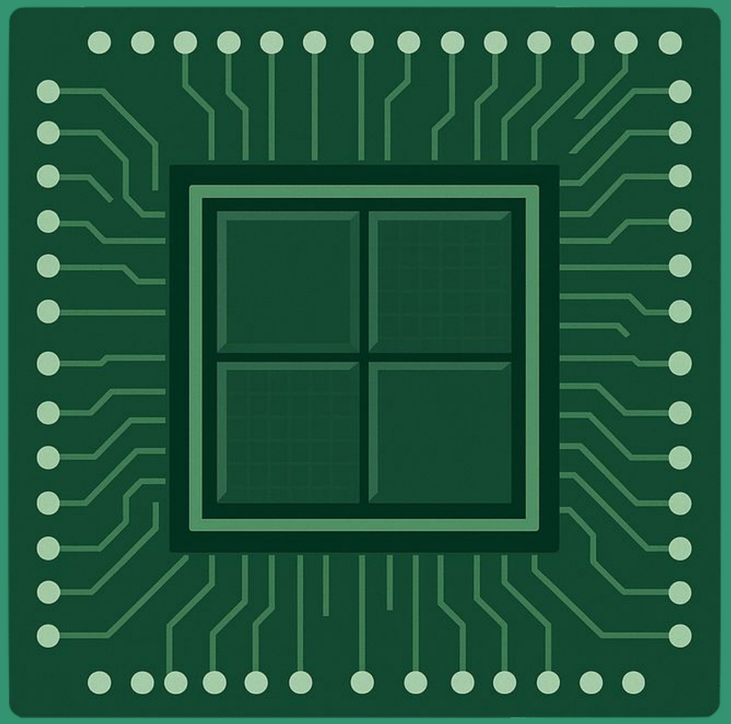
The ONE Apus incident was the largest loss of containers in transport since the MOL Comfort sank in 2013. The cargo loss cost is estimated at $90 million.[9] The ship was delayed for approximately three months. The cost of supply chain disruption for US manufacturers and retailers is not yet quantified. Insurance claims could exceed $200 million.[10]

ASICar

Our

Our Solution gives real time inside knowledge to what is happening in the container.

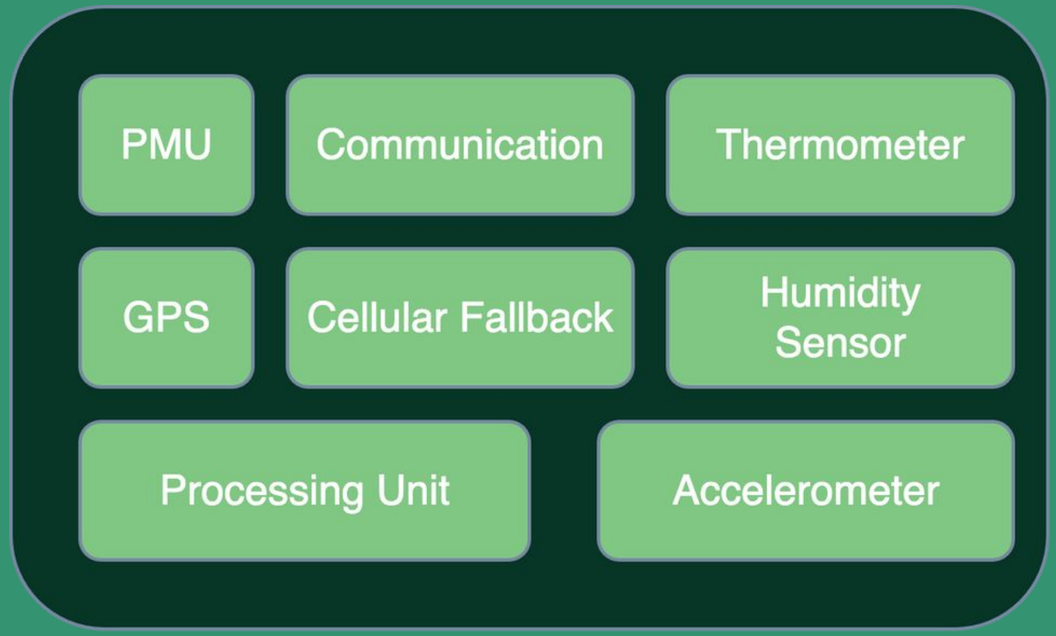
- Scalable Container Tracking
- Environment Data Acquisition
- Location Tracking
- Ultra Low Power



ASICar

Core Functional Blocks

- Chiplet Design
- GPS
- LoRa
- Sensors for Data Acquisition
- Mesh Network



ASICar

Value Proposition

tracking

+

monitorin

cheaper

+

Long-lasti

ng

scalable

+

add-on

ASICar

Target Market

Supply Chain

Containers

- Pharmaceutical
- Food
- Automotive

Strategy Approach

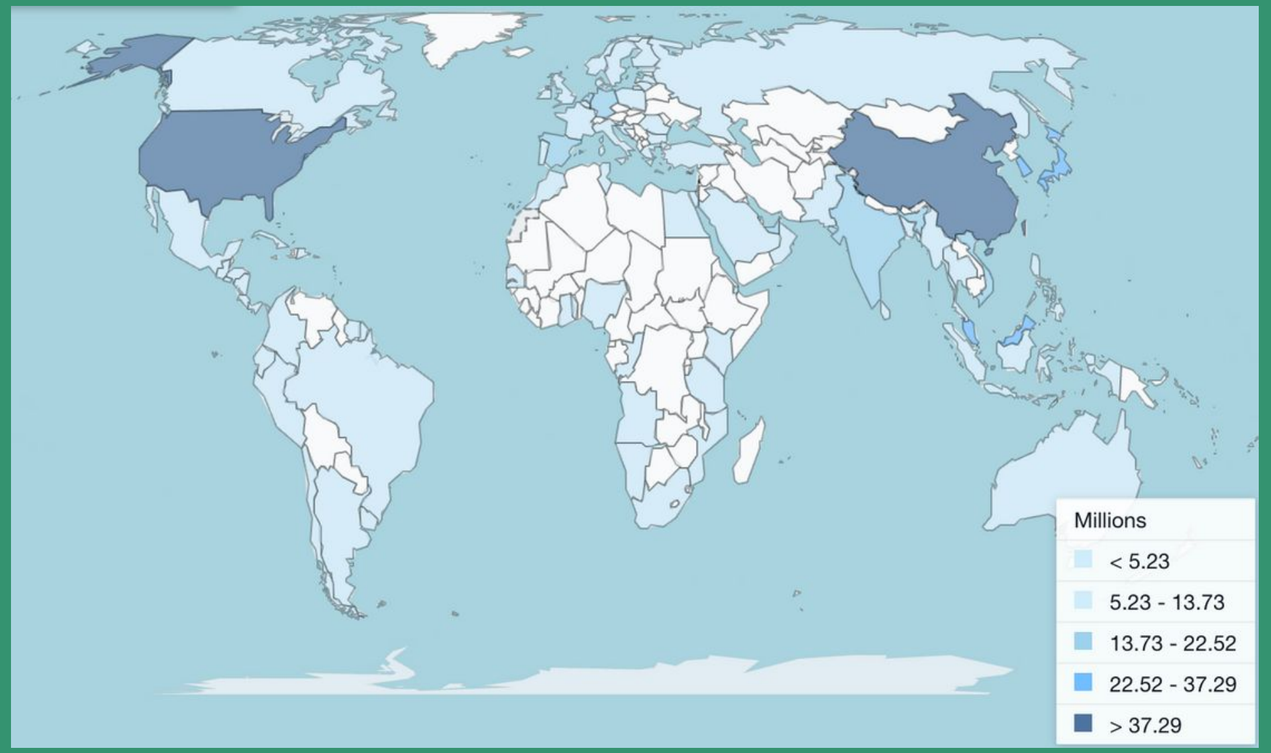
Business to Business

ASICar

Market Size

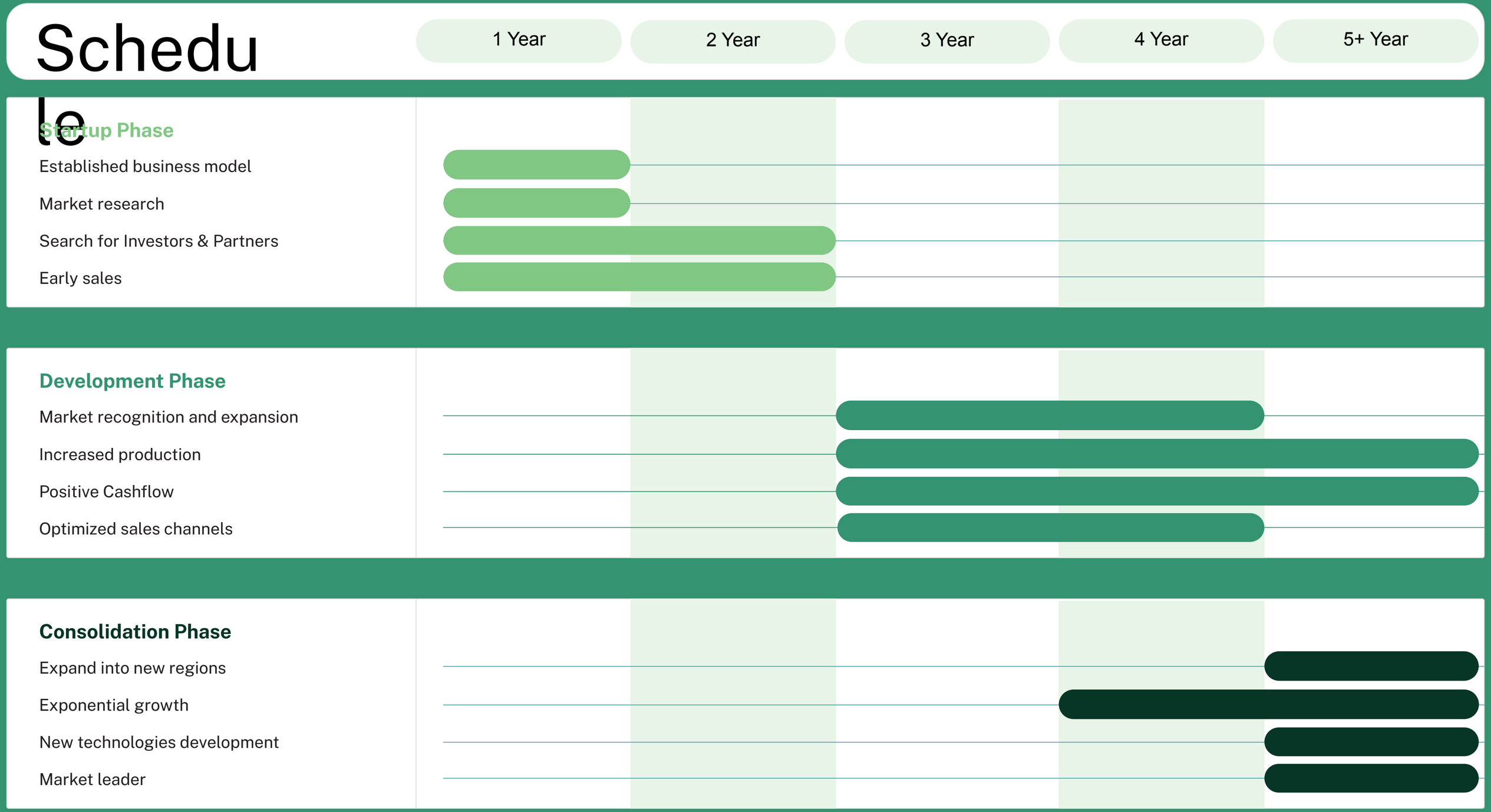
Container port traffic in TEUs:

- China ~ 270 M
- EUA ~62 M
- Singapore ~37 M
- South Korea ~ 28 M
- Malaysia ~27 M



ASICar

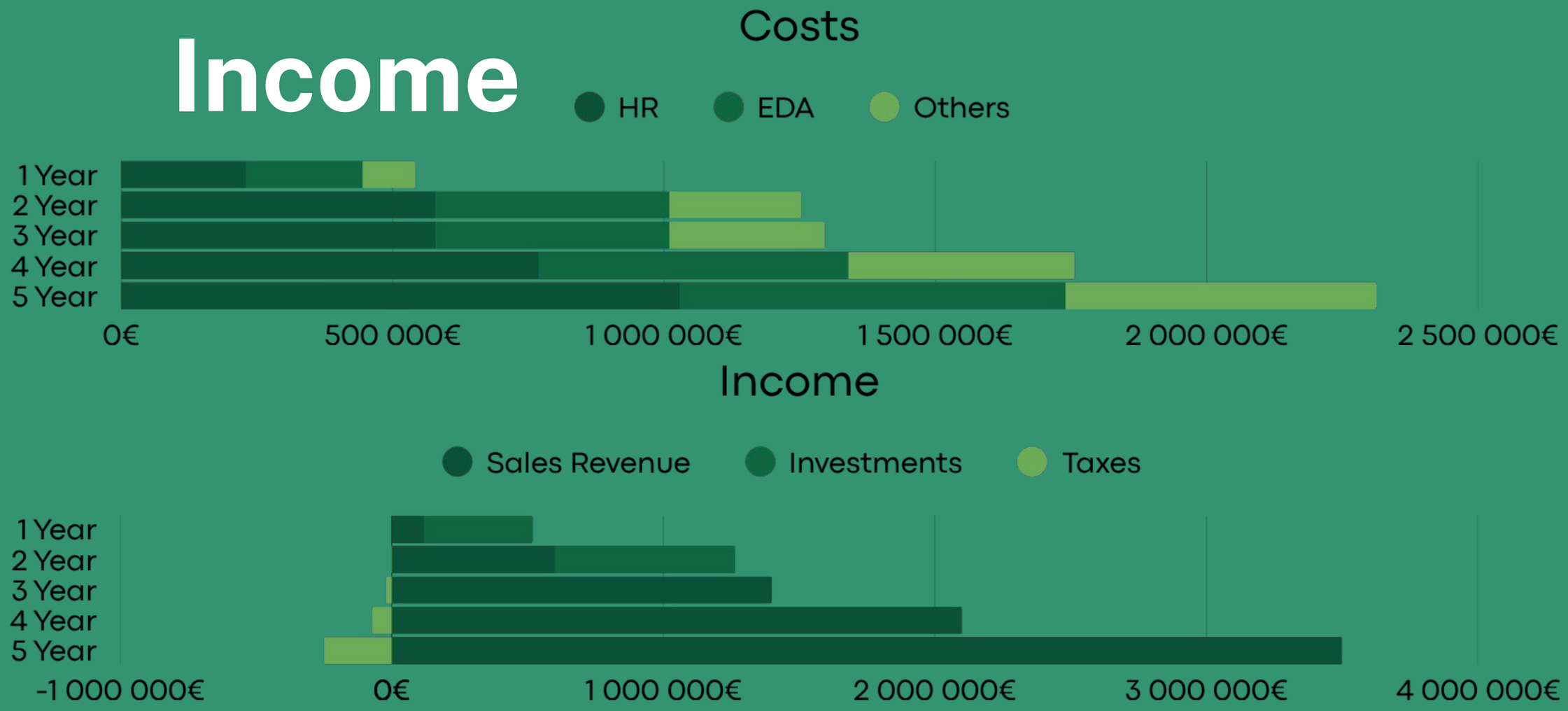
Schedule


1 Year
2 Year
3 Year
4 Year
5+ Year
Startup Phase
Established business model
Market research
Search for Investors & Partners
Early sales
Development Phase
Market recognition and expansion
Increased production
Positive Cashflow
Optimized sales channels
Consolidation Phase
Expand into new regions
Exponential growth
New technologies development
Market leader

Financial Plan

ASICar

Costs and Income



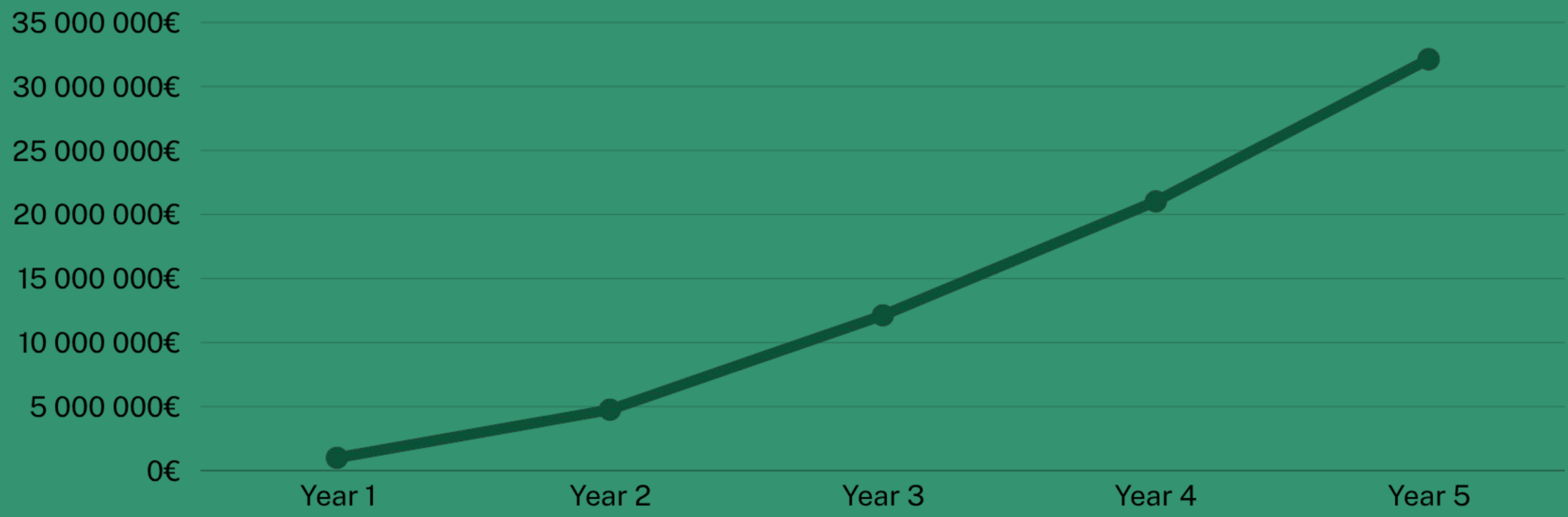
ASICar

Investment

1st year	2nd year
320 000 €	665 000€
32,0 %	46,0 %

ASICar

Company Valuation



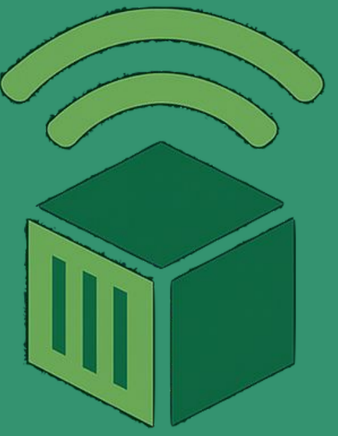
ASICar

Thank you very much!

Contacts Us

ASICargo.IOT@gmail.com

www.linkedin.com/in/ASICargo



ASICargo

Revolutionizing Global Shipping

with Smart Container Technology