

CO₂Pulse

Transforming
Supply Chain's CO₂ Footprint
into Carbon Neutrality
Profitably



Our Mission



To decarbonize
Supply Chain
into a competitive edge
for our clients



The Opportunity

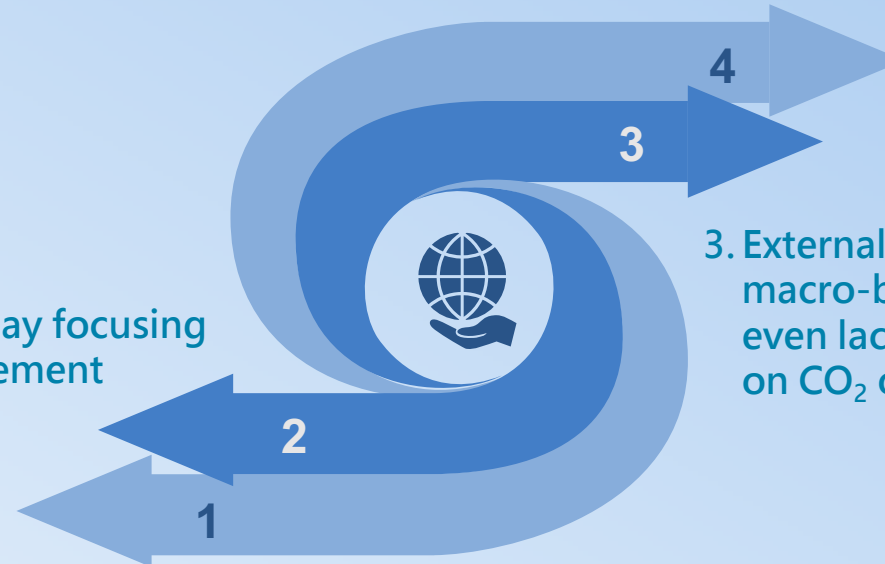
- . In 2025*, Supply Chain Analytics inclusive of AI, is projected, with CAGR over 16% to exceed \$30 Billion
- . SC Intensive Carbon footprint is the 2nd source of World CO₂ Emissions* and rising with 8* billion tons of CO₂e

4. The Post-2020 economic outlook and Regulatory Compliance are top priorities for Governments and business leaders

2. SC Carbon reduction today focusing primarily on fuel management

3. External Carbon Mitigation tools are macro-based data analytics at best or even lack hard metrics when focusing on CO₂ offset programs

1. Growing Data Analytics adoption in SC primarily for productivity gain, visibility and cost reduction but still in early stage



*References available on Demand

The Solution

Objective

Capitalize on Advanced AI Analytics to
Fast Track Supply Chain
Carbon Neutrality and higher profitability
 leveraging
Deep Learning and **Blockchain** software
 delivered via a **SaaS** business model

Metrics

A unique **bottom-up** system built-up on
aggregating each single operation / shipment
 up to the actual total Supply Chain footprint

- Measure Carbon Reduction per dollar spent and deliver **best-in-class Carbon-Neutral Supply Chain**
- Deliver automated efficiency for **best value between cost and time-to-market** adjusted to lowest CO₂ footprint for each operation / shipment
- Build additional **Enterprise Value** generated by new profits **created by carbon-credits**



AI

Smart Climate DEEP LEARNING



Blockchain

Enhanced SECURED Data



SaaS

Simulate. REDEFINE. Optimize

The Inflection Point

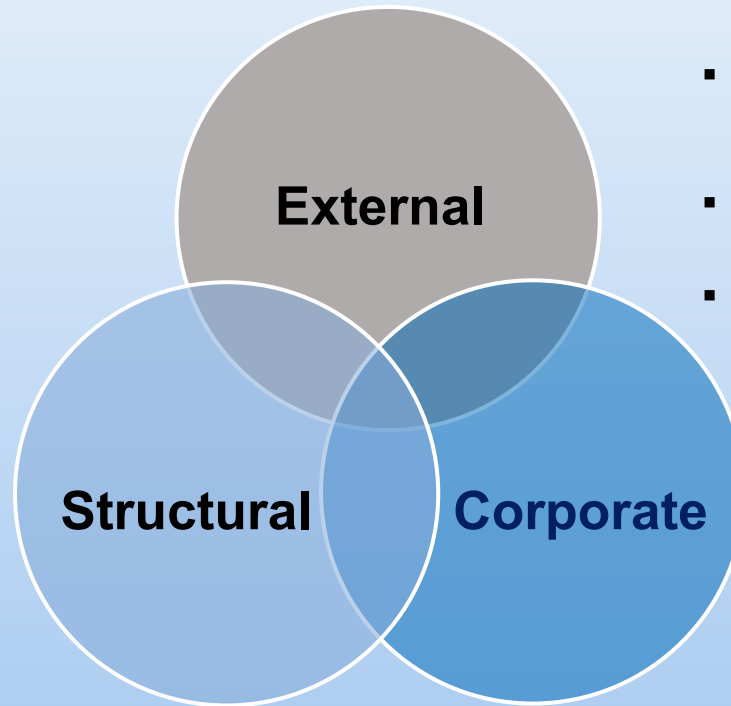


Factors driving Supply Chain
Transformation towards Carbon
Neutrality



Traditional Industry under Siege

- Still Labor Intensive, with low productivity and early stage in Digital Transformation
- Freight Suppliers (Sea, Air, Land) and Logistics Providers struggling to cut CO₂ and comply with regulations
- Due to growing market pressure, Transport Equipment makers are competing to build more Carbon efficient models



Rising Pressure in the World's Largest Economies



- Climate Change Activism among young Consumers & Labor Force
- EU Regulations & Penalties
- UN SDGs & Paris Accords

Shifting Corporate expectations



- Emblematic CEOs & Business leaders championing sustainability
- CSR / ESG push from Investors
- Adapting towards a growing sustainability regulatory framework

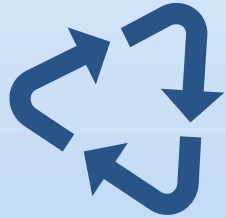
*References available on Demand

The Blueprint



1. Deep Learning

- Multi-Level GANs*
- Volume, Variety, Velocity
- Solving **data incompatibility** from infinite third-party sources and corporate functional silos
- Harnessing the **Automation value of Benchmarking, Live Tracking Simulations** and **real-time Audit** in line with GHG Protocol and the GRI



3. SaaS

- **Decision-making Automation platform** to select most cost-effective CO₂ reduction transactions
- **Empower each employee** to be an active enabler in **Carbon reduction, cost control** and **enhanced productivity for each single shipment / transaction**
- Generate **new profits with Accredited Emission Certificates** in sanctioned Carbon Trade
- Accessible to any employee in any location

2. Blockchain



- **Enhanced Security** against Hacks, Cybersecurity and Data Breach
- **Distributed trust**
- Warranted **Information Transparency and Immutability**
- **Improved Traceability** and **Certified Authentication** of data sets

*Generative Adversarial Networks

Big Data

Low Density and Structured Data



Corporate Data

SC Setup

(Distance and Itinerary, Trip numbers, Seasonality, Locations..)

Activity Profile

(Loading Profile, Behavioral Choice such as Cost, Speed, Convenience..)



Climate Data

Natural Factors

(Seasons, Weather Conditions, Natural Disasters, Sea conditions..)

CO₂ Mitigation

(Consolidation, Emissions factors, Reduction Projection, Climate Targets, Digital Conferencing..)

Industry Data

Supplier Profile

(types, Organizational structure, Data points, Operation Locations..)

Fuel CO₂ Intensity

(Biofuels, Diesel / Gasoline, CHG / LPG, Electricity / Hydrogen)

Modal Energy Intensity.

(International & Coastal Shipping, Air cargo, Light Duty Vehicles, Heavy Duty Vehicles, Railway, Local Waterborne..)

Regulatory Data

Domestic

(Transport Infrastructure such as Ports, Airports, Rail, Roads, Modal Schedule, regulations..)

International

(Standards and norms, regulations..)

With Exponential Sources



SaaS Functionality

3. TRANSFORM

"Transition to new Value Chain model and investment program both for 2030 or 2050 Milestones"

- ✓ Adopt the New SC Strategic map within the migration to the Value Chain
- ✓ Assess Carbon Trade vs Decarbonization investment
- ✓ Optimize Carbon Neutrality transition
- ✓ Monetize gains from CO₂ savings

Stage 1

Stage 2

Stage 3

2. OPTIMIZE

"Capitalize on Low-Carbon SC Best practices"

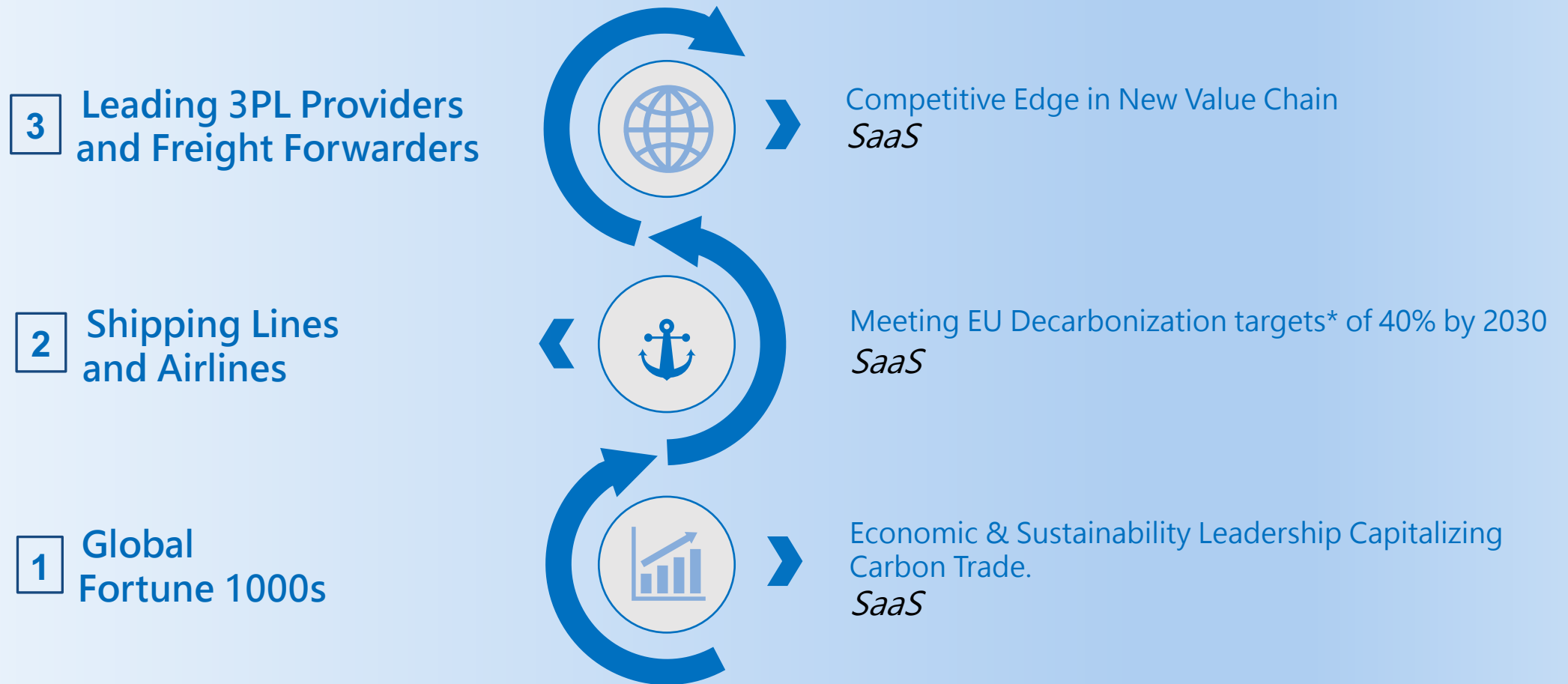
- ✓ Create AI-Certified **Authoritative Carbon Rating** to be the "de-facto standard" scoring the effectiveness of the dollar spent on CO₂ reduction
- ✓ Capitalize on Carbon Accounting
- ✓ Re-assess end-to-end turnaround and schedule for each trip
- ✓ Manage cost effective and green modal solutions for each shipment

1. Compute

"Build a true AI-based Carbon Audit"

- ✓ End-to-End Smart Climate mapping.
- ✓ Internal & External Carbon Benchmark
- ✓ Quantify Carbon saving value for Carbon Trade

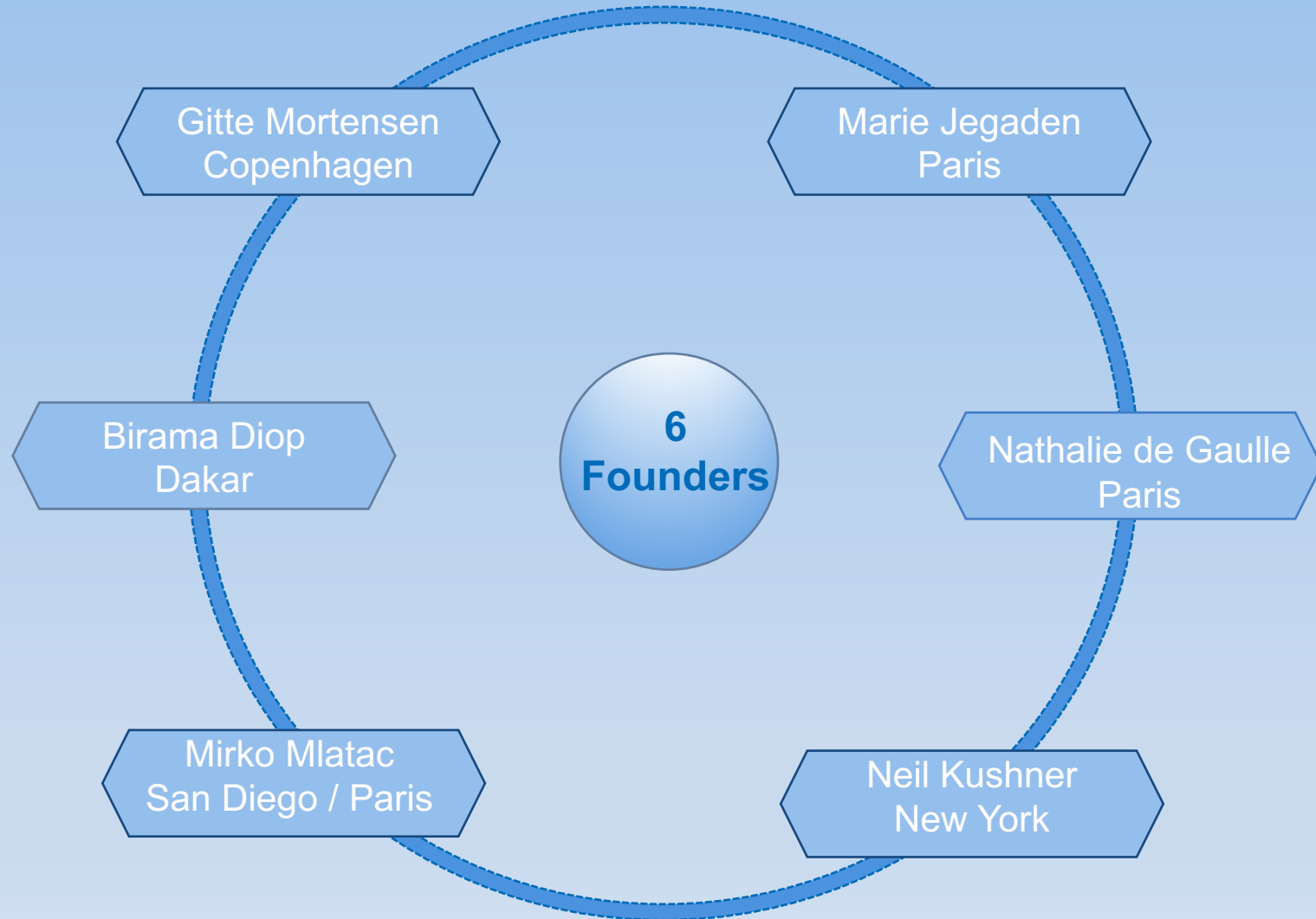
3 Target Markets



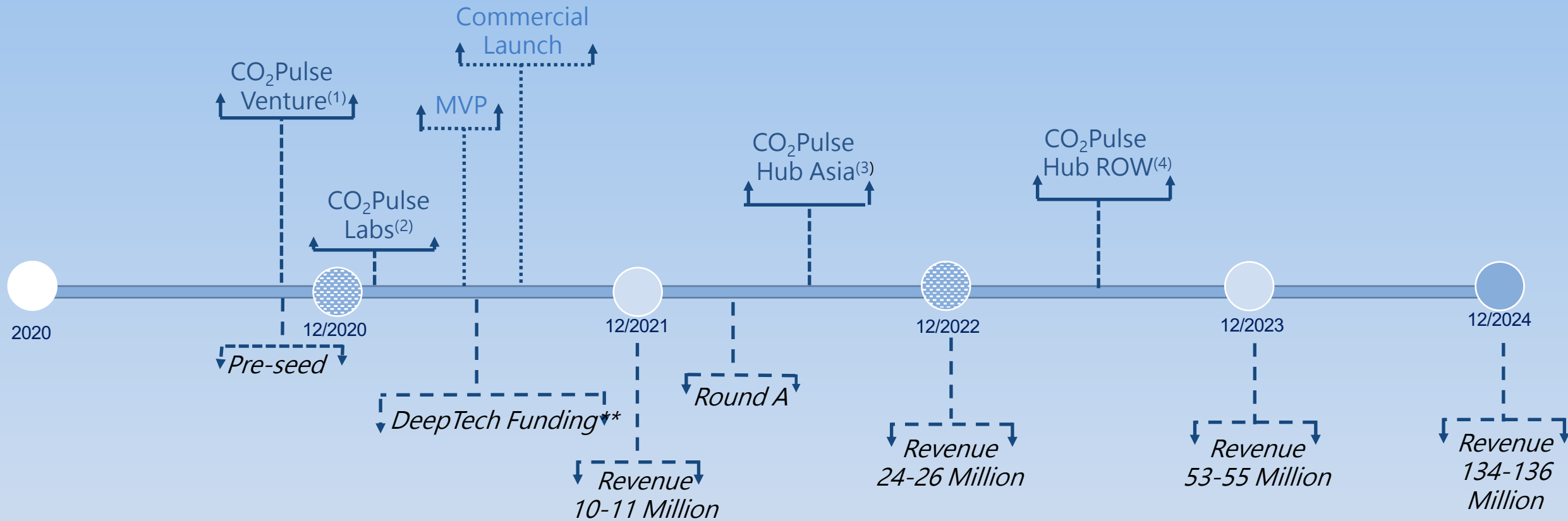
*References available on Demand

The Team

- ✓ Over 120 years of combined senior management experience in Fortune 100 & Start-ups
- ✓ Extensive International practice (USA, EU, Asia, Africa & Middle East)
- ✓ Multi-industry competence
- ✓ Global Supply Chain expertise
- ✓ AI and Blockchain practice
- ✓ Go-to-Market specialists



The Road Map



* France Innovation Funding
(Preferential Debt)

(1) HQ in the **USA**

(2) Research Center in **Paris**

(3) Operations in **Singapore**

(4) Operations in **Copenhagen**

Investment Commitment:

- ❑ Seed Round of USD 1 Million
- ❑ This USD 1 million Seed financing is the condition to obtain France Innovation Public Funding matching 100% of the seed capital

Use of Funds:

OPEX:

- Salaries
- Administration
- Travel

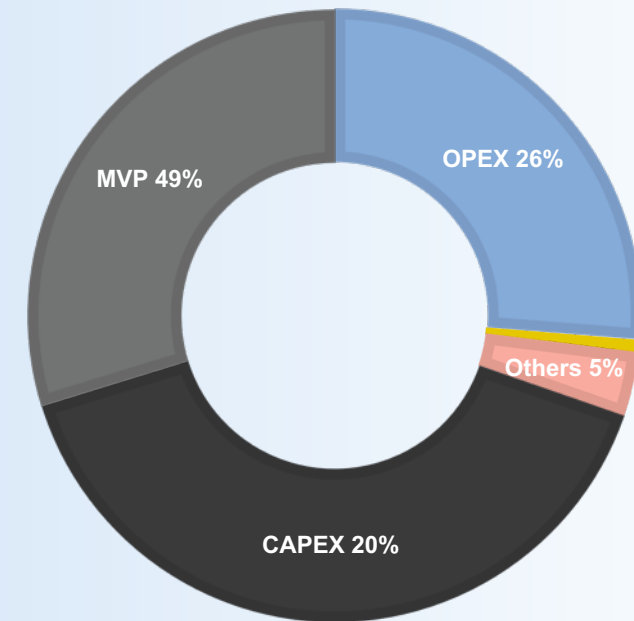
CAPEX:

- Digital Infrastructure
- Network Equipment

MVP

Others:

- Website upgrade
- Digital Media
- Marketing



Contact

Mirko H. Mlatac
Managing Founder

FR: +33 6 58 02 54 33
US: +1 858 214 75 78

mirko.mlatac@co2pulse.com

SaaS

Deep Learning

Blockchain

