

# A GLOBAL SOLUTION TO REDUCE POLLUTION

February  
2023  
Presentation



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  - The requirement for significant financing to develop and market its technology;
  - The ability to establish and maintain arrangements with industry recognized strategic partners;
  - Market acceptance of the Company's technology and products;
  - Competition in all aspects of its business;
  - The effect of general economic, credit and capital market conditions on its business;
  - The ability to complete product development milestones and progress towards commercialization of product within the contemplated timetable;
  - The ability to attract and keep highly qualified staff and management; and
  - Changes in product profit margins due to pricing changes driven by variations in customer demand, competition, or unforeseen factors.
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# Highlights

Carbon Emission Reduction Technology	International Growth Strategy
Diversification in Trucking, Mining, Oil & Gas	Multiple Vertical Markets
Proprietary know-how & Patents	Leader in Hydrogen Technology
Carbon Credit measurement	Potential Recurring Revenue
High Barriers to Entry	Dominant Competitor Advantage
Compelling Value Proposition to users	< 1 year payback
Strong Margins	Attractive Business Model



# HydraGEN™ Patented Technology

- dynaCERT has developed & commercialized a patented proprietary Electroliser called HydraGEN™
- Produces measured amounts of hydrogen and oxygen gases from distilled water
- Delivers H<sub>2</sub> and O<sub>2</sub> at the air intake of internal combustion engines
- Results in:
  - > More power
  - > Better torque
  - < Less fuel consumption and
  - < Less CO<sub>2</sub>, CO, and NO<sub>x</sub>

# HydraGEN™ Features

- On-demand, no H2 storage, no pressure, safer
- With a low power demand from the engine's battery
- Delivered to the air intake of internal combustion engines
- On trucks, mining equipment, generators, reefers, construction equipment
- < particulate matter
- < black smoke
- < Diesel Exhaust Fluid and < Diesel Particulate Filter

# 2023 Timely Investment Opportunity



OIL PRICES AT DECADE HIGH'S: MAKING  
HYDRAGEN™ COMPELLING FOR USERS



GLOBAL ECONOMY IS LEARNING HOW  
TO REGENERATE IMPACT OF COVID  
SLOWDOWN



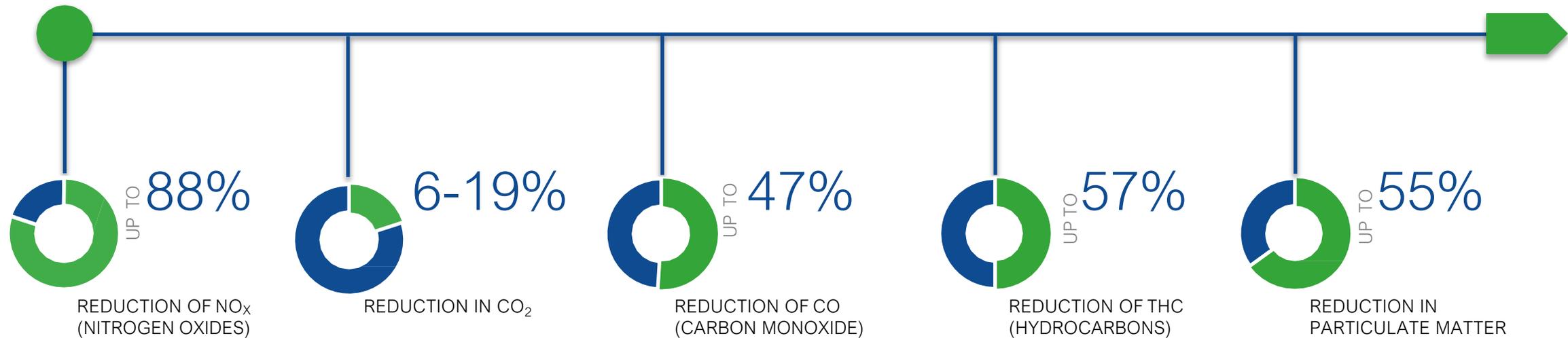
GLOBAL SUPPLY CHAIN IS FILTERING  
THROUGH THE BUSINESS COMMUNITY  
WORLDWIDE

# Emission Benefits



## HydraGEN™ Lowers Emissions Substantially

The following results have been acquired from accredited third party verification performed by PIT Group in Montreal, Quebec, Continental EMITEC in Germany and performance testing at the UOIT ACE in Toronto, Ontario.

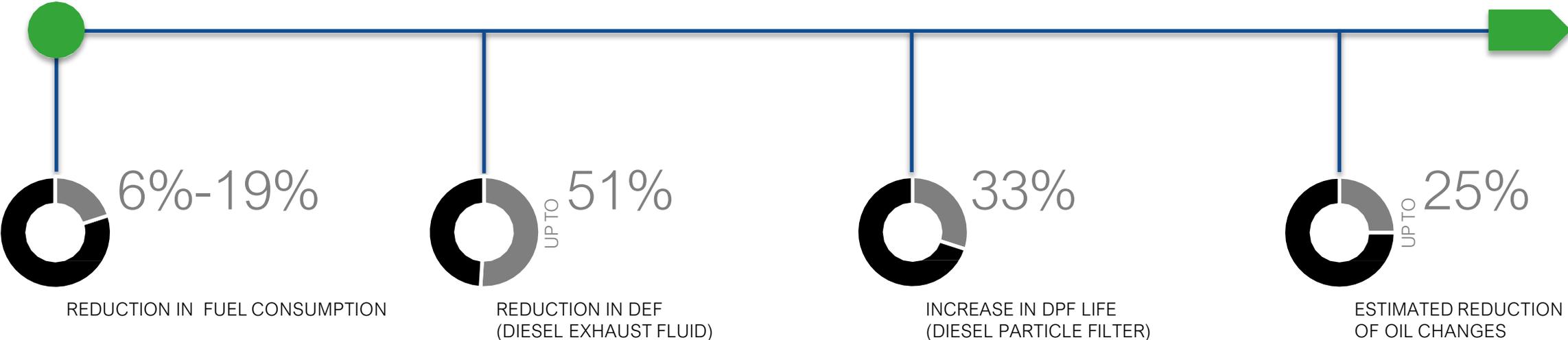


# Economic Benefits



## Lower Consumption and Maintenance

The following results have been acquired from accredited third party verification performed by PIT Group in Montreal, Quebec, Continental EMITEC in Germany, and performance testing at the UOIT ACE in Toronto, Ontario.



# Independent Validations

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UOIT (University of Ontario Institute of Technology)

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PIT Group in Canada

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Continental EMITEC

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iCAT in India

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Independent testimonials by users, globally

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TÜV NORD & TÜV SUD testing for ABE/KBA European Homologation

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Now: user “audit” with HydraLytica™



# Product Line

# HydraGEN™

## HG2 Series

1 to 8 litre engines



## HG1 Series

10 to 15 litre engines



## HG-4C & HG-6C series

40 to 100 litre engines



# HG1 Series

## Greener Transportation

- ✓ Suitable for 10-15 L Diesel Engines
- ✓ Reduces Fuel Consumption up to 10%
- ✓ Transportation, Passenger Transport, Power Generation, Construction, Agriculture, Mining
- ✓ Reduce your Carbon Footprint and meet ESG Goals

Warranty: 1 Year Limited Manufacturer's

Certifications:



# Transport & Logistics Application



# Transport & Logistics Application



# Construction Application



# Transport & Logistics Application



# Mining Application - Underground



# HG2R Series



## Greener Transportation

- ✓ Suitable for 1-8 L Diesel Engines
- ✓ Reduces Fuel Consumption up to 10%
- ✓ Transportation, Passenger Transport, Power Generation, Construction, Agriculture
- ✓ Reduce your Carbon Footprint and meet ESG Goals



Warranty: 1 Year Limited Manufacturer's

Certifications:



# Power Generation Application



HydraGEN™ HG4C unit



Fuel Tank and Containerised Generator

# HG4C



## Greener Mining

- ✓ Suitable for 40-60 L Diesel Engines
- ✓ Reduces Fuel Consumption up to 10%
- ✓ Power Generation, Heavy Mining and Construction Agreement
- ✓ Reduce your Carbon Footprint and meet ESG Goals



Warranty: 1 Year Limited Manufacturer's

Certifications:



# HG6C



## Greener Mining

- ✓ Suitable for 60-90 L Diesel Engines
- ✓ Reduces Fuel Consumption up to 10%
- ✓ Power Generation, Heavy Mining and Construction Agreement
- ✓ Reduce your Carbon Footprint and meet ESG Goals



Warranty: 1 Year Limited Manufacturer's

Certifications:



# Mining Application – Open Pit



# Target Markets - Industries Served



## CURRENT MARKETS



- Buses



- Refrigerated Trailers



- Small Trucks



- Class 8 Trucks



- Power Generators

- Farming



- Construction



- Mining Equipment



## PLANNED



- Passenger vehicles



- Small Marine Vessels



- Ocean Vessels



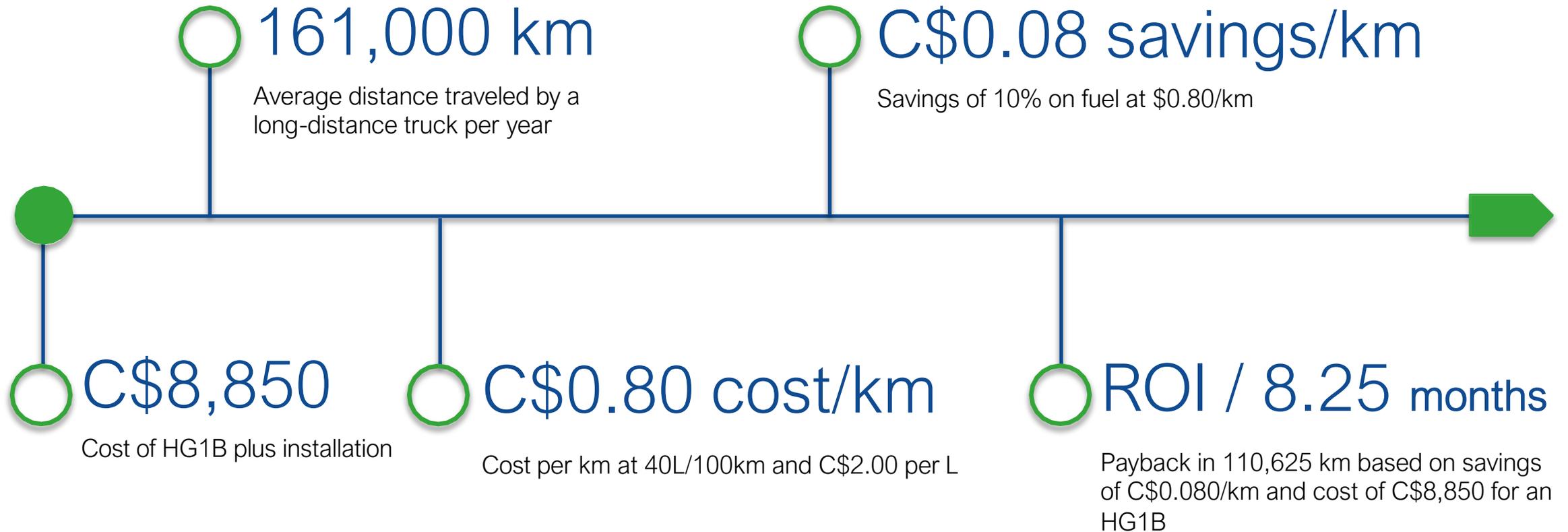
- Locomotives



# Diverse Applications of HydraGEN™



# Value Proposition to End-User



*\*Payback model is only based on fuel savings. End-users of HydraGEN™ Technology may also find cost savings from other areas such as reduction of DPF filters used, less DEF usage and less oil changes.*

# Market Size

- Total ICE Market

- 1 Billion internal combustion engines operate world-wide
- 100 Million new internal combustion engines built world-wide every year

- HG2 Market Estimate

- 20 Million in North America
- 40 Million in Europe
- 55 Million in South Asia
- 20 Million in South America

## Europe

- 145 million trucks

## North America

- 711,000 trucking companies relying on 3.5 million drivers
- 15.5 million class 8 trucks
- 36 million trucks registered for business

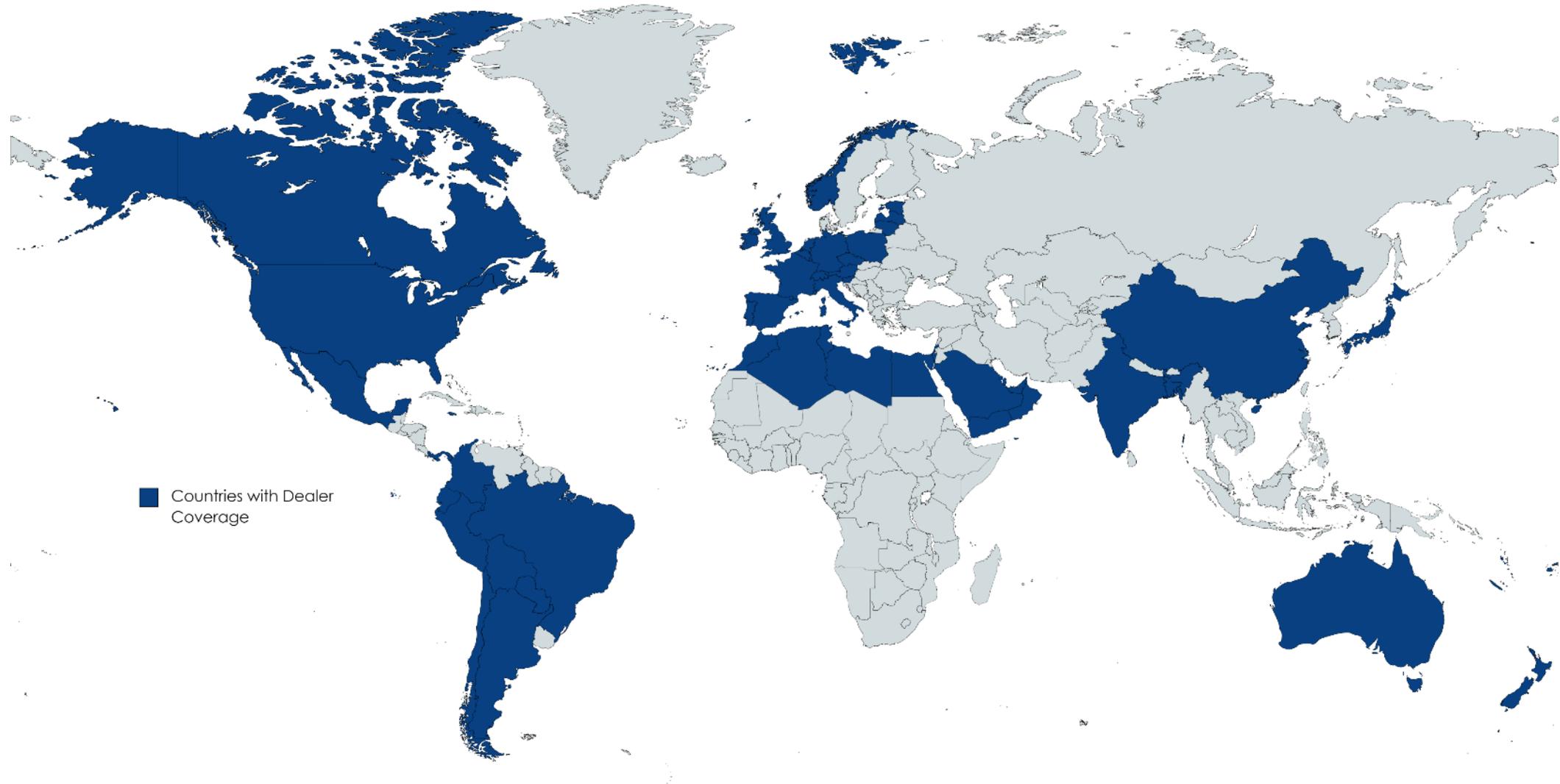
## South America & India

- 210 million trucks

# Dealer Network – September 2022



48 Qualified Dealers & Agents Globally that Service 55 Countries:



# HydraLytica™ Benefits



Automated Reporting & Analytics



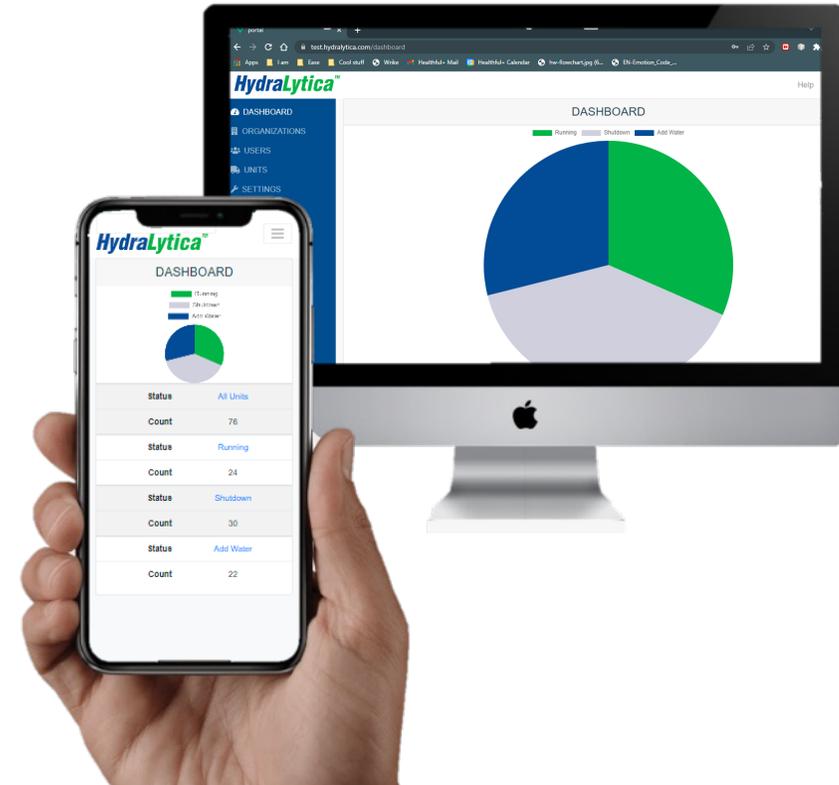
Automated fleet-wide tracking of fuel savings, emission reduction, & carbon credits generated.



Reduce Maintenance Cost



HydraLytica™ also automates fleet management for the HydraGEN™ system.



# Business Model

CAD 90,000,000 expenditures to develop and design	18 Years of R&D
dynaCERT assembles product in Toronto, Canada	newly upgraded assembly facilities
Cost of production: 50% of wholesale price	Profit Margin: 100%
Products sold through global dealer/agent network	In Europe dynaCERT GmbH
Dealer network insures local sales, marketing & service	Reduces sales & marketing Overhead
Multiple Target Markets	Using dealer network Strategy
Multiple Product Versions	Adaptation to client Requirements
Continuous R&D	Maintain market & product Leadership



# Comparable Technology = Trailer Skirts

## Trailer Skirts

- 90% of long-haul trucks have added skirts since their launch 9 years ago
- Skirts cost C\$3,000 can save 1% fuel

## HydraGEN™ Technology

- Cost the end-user ~C \$10,000 and can save approximately 10% fuel, 1% for C\$1,000

## Comparison

- HydraGEN™ is a 3 x Better Proposition than trailer skirts



# Verra Carbon Credits

Verified Carbon Standard (VCS)  
by Verra

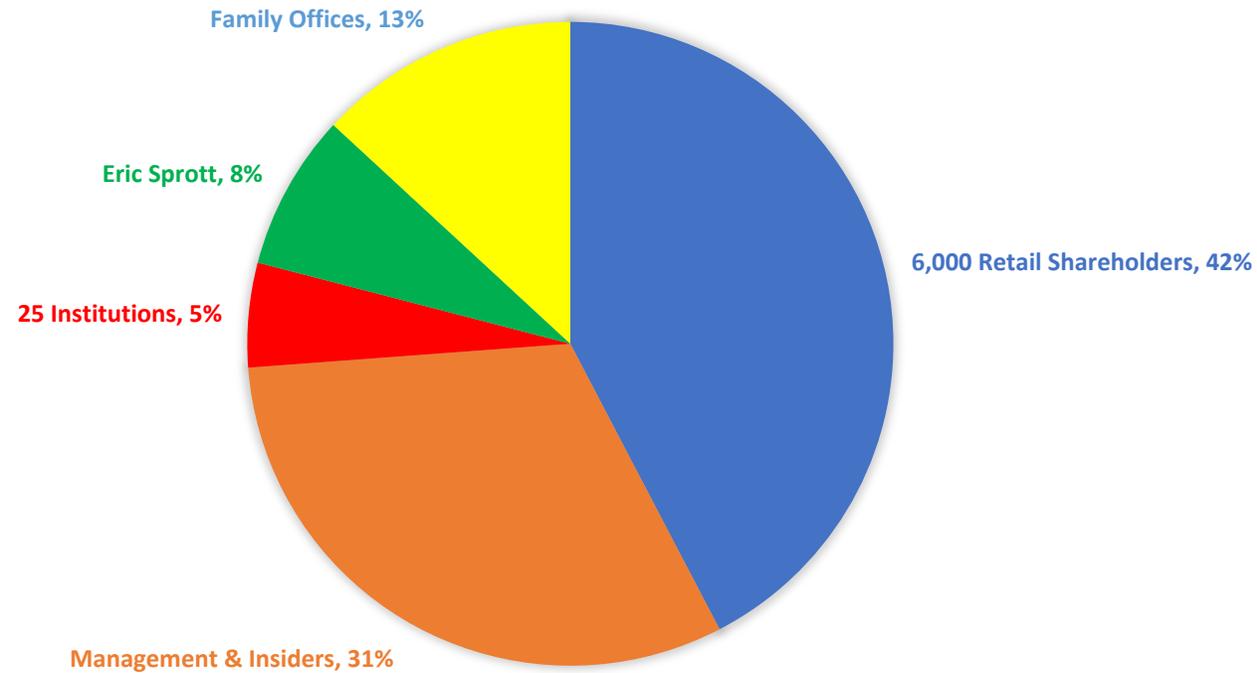
The VCS Program is the world's  
leading voluntary program for  
the certification of GHG emission  
reduction projects

dynaCERT obtained Verra VCS  
Methodology approval in 2021



# Strong Shareholders

APPROXIMATE VALUES



# High Barriers to Entry



Worldwide Patents + Unique ECU (Electronic Control Unit)



Technological advantage: e.g., weather robustness, separation method of H<sub>2</sub> and O<sub>2</sub>,



Lead Time advantage: \$90 million & 18 years to develop the Technology



Regulatory advantage: Certification in global jurisdictions takes years



Distribution Network advantage: e.g., 47 qualified dealers globally



First-to-Market advantage: across many verticals, e.g., transportation, mining, oil & gas, generators, construction



# Significant Progress in 2021 & 2022



Robust Product: New 2021 Redesigned  
HydraGEN™ Electroliser



User-Friendly Operation: New 2021 Water  
Delivery System & HydraLytica™



Encouraging 2022 Trial Data from Customers



Trials with Large Clients in major vertical  
markets



2021-2022 Plan to focus on R&D to better  
understand the science



Hiring outside expertise such as Martin  
Technologies



Hiring new Talent internally



# Management



Jim Payne  
President, CEO &  
Director

- CEO of dynaCERT since 2013
- Previously CEO of privately held consulting, project management and real-estate development company
- Successfully built and managed his own private companies for more than 38 years providing experience in accounting, business leadership, and the legal aspects of governance



Wayne Hofmann  
Chairman

- Chartered Accountant
- Former business executive with Deere & Company responsible for mergers and acquisitions; Vice President, Finance and President of John Deere Credit
- Treasurer of Christians For Israel, Canada, responsible for Planning and Development



Jean-Pierre Colin  
Executive Vice  
President & Director



Carmelo Marrelli  
CFO



Khoa Tran  
Director of Finance



Enrico Schlaepfer  
VP of Global Sales



David Bridge  
Technical Advisor



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# Thank You

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