



HYDRO-E BLOCKS

A BLOCKCHAIN-BASED SOLUTION IN THE HYDROGEN INDUSTRY

HYDROGEN MARKET GROWTH



7.8%

The Compound Annual Growth Rate (CAGR)

Source: MarketsandMarkets

Green Hydrogen Market Evolution

H1 2024

531

Hydrogen & Synthetic Fuel Projects

411

Electrolyzers Projects

500 GW

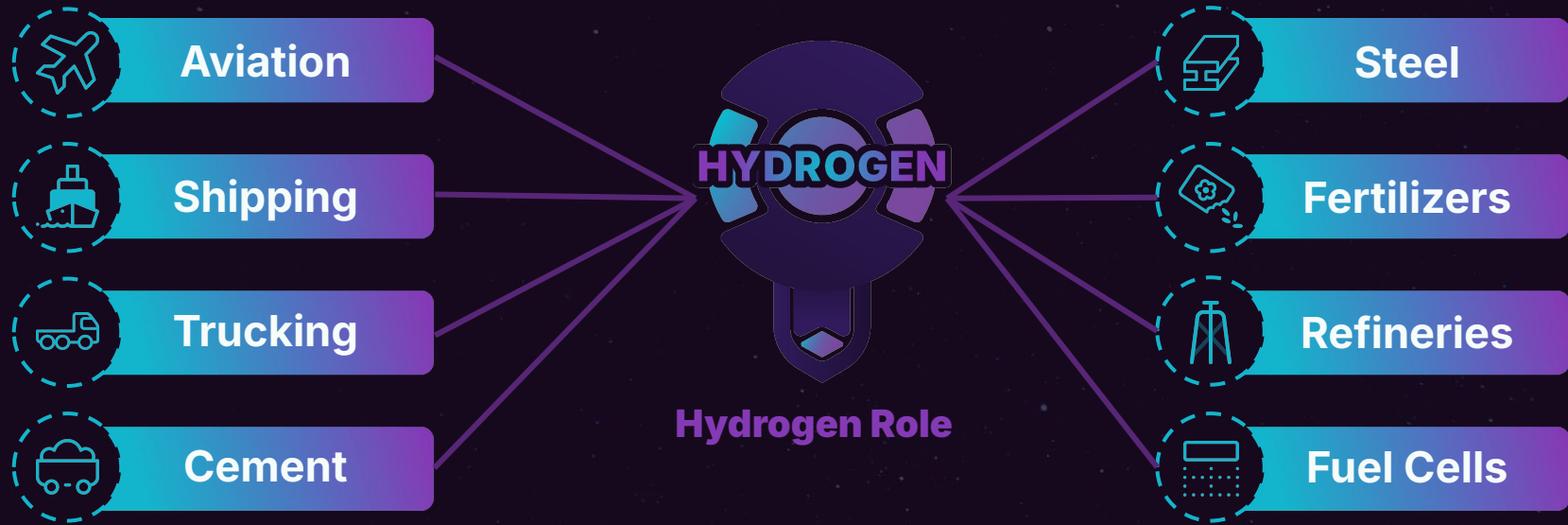
Total Added Electrolyzer Capacity

1.2 GW

Hydrogen & Synthetic Fuel Projects

Source: Delphi Data Labs

CARBON INTENSIVE INDUSTRIES



20% global CO2 reduction by 2050

Ranging from 22% CO2 reduction for refineries to 95% reduction for steelmaking

Source: McKinsey & Company

BLOCKCHAIN SOLUTION-FIT

A need for :



Blockchain technology innovation potential is well-suited to respond to this **need**

BOOK AND CLAIM SOLUTION

A simple way to track Hydrogen within the supply chain

Streamline the **verification** and **allocation** of low-carbon intensity hydrogen **credits** using blockchain technology

1

PRODUCTION & CERTIFICATION

2

BOOK

3

CLAIM

4

OPTIMIZATION

BOOK AND CLAIM **WORKFLOW**

1

PRODUCTION & CERTIFICATION

Estimate Carbon Intensity and provide a digital certificate

2

BOOK

Logging certificate in a blockchain based registry

3

CLAIM

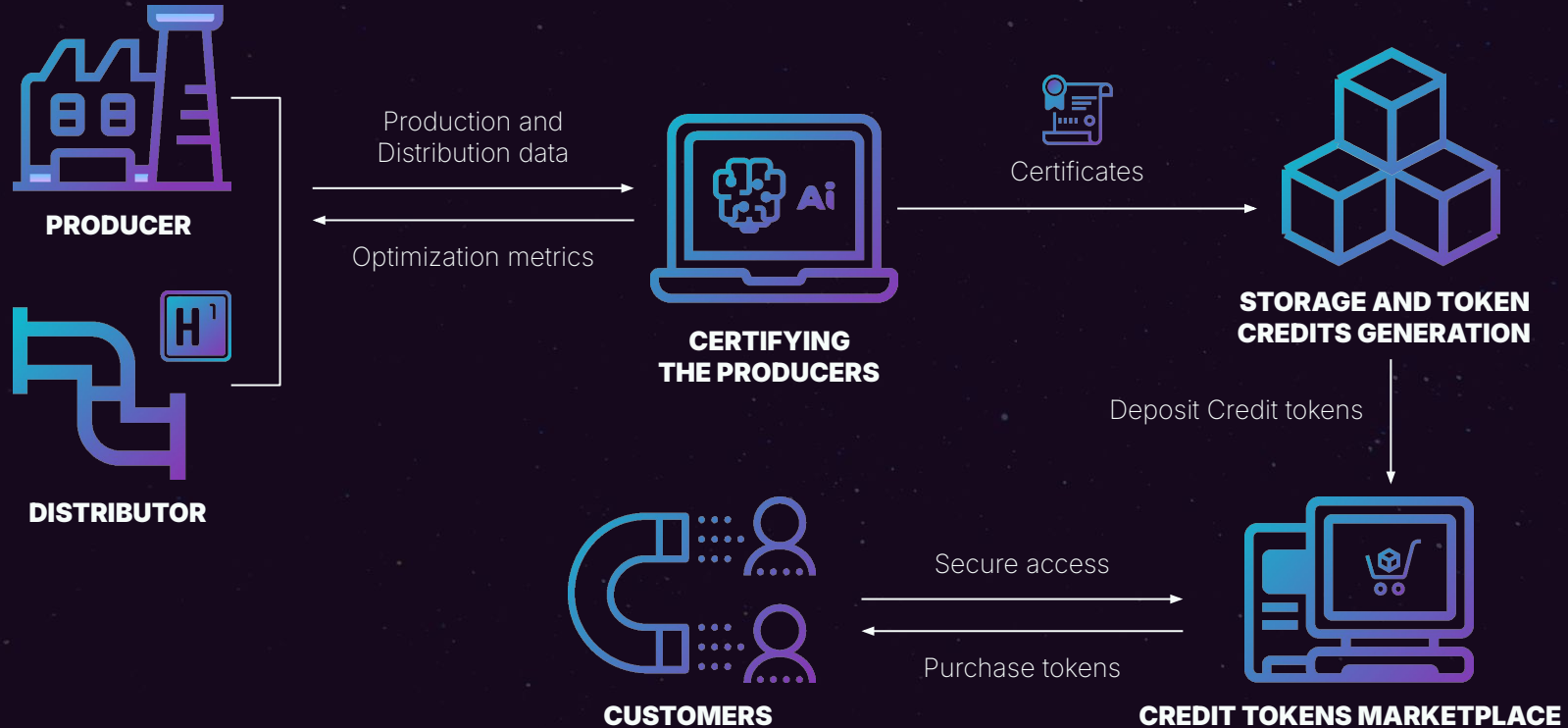
Businesses and consumers buy **hydrogen credits** from the registry

4

OPTIMIZATION

We optimize Carbon intensity decisions within the value chain

SOLUTION GENERAL **ARCHITECTURE**



OUR **VALUE PROPOSITION**

Ensures **Optimization**
of the value chain for a
less **GHG emissions**



We work with **Auditors**
and Certifiers to
ensure **confidence**
within the supply chain

Through **Blockchain technology**, we connect actors
within the hydrogen industry in a **Peer to Peer System**.

TEAM PRESENTATION

Driving Innovation



Marwen Chaabouni

Energy Specialist



Islem Hamzaoui

Data Analyst



Mohamed Ben Kedim

Blockchain Engineer



Ranya Ouni

Web Developer



Stefan Kermer

Business Advisor

TRACTION



We won a **Web3 Hackathon** with over **100 students** and **25+ teams**



We Received a grant from **Dione Protocol** to **develop a Blockchain Solution**



Dione Protocol

CALL FOR ACTION - PARTNERS



Pilot Projects and Partnerships



WE ARE LOOKING FOR :

- Partners in Green/Blue Hydrogen industries or Sub Industries looking for means to decarbonize their value chain
- Research Labs eager to collaborate on specific use cases and develop an innovative solution



WE OFFER :

- A test solution to track and optimize the value chain within a pilot project
- A well-suited blockchain solution for a specific use case developed by a dynamic research team

CONTACT



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Hydro-E Blocks