Decentralized Framework for Investment in White Hydrogen (Natural Hydrogen)

INNOVATING INVESTMENT IN CLEAN ENERGY

White Hydrogen

MEET THE TEAM

Andrea van der Haak

With an MSc in Petroleum Engineering and an MBA from Chicago Booth. She is passionate about decentralized investment opportunities in energy. Previously a Deepwater Well Engineer at Shell, an engineer at Google on the Search Engine and Submarine fiber optic cables, and currently working at AWS.

Peter MacDonald

A dual degree student in Computer Science and Business Administration at the University of Waterloo and Wilfrid Laurier University, skilled in Python, Java, Data Science, and Generative AI. Passionate about technology, entrepreneurship, AI, and biomedical sciences, with a love for learning new things.

Samira K Dabo

Computer Science graduate with dual degrees, passionate about AI, blockchain, and the metaverse. Quick learner, equipped with strong analytical skills and attention to detail. Eager to tackle challenges and drive technological innovation.

Kimberly Allison Patton

Software engineer, specializing in transforming legacy systems into modern solutions. Combining a background in Classics and Business, to analyze, design, and code software to meet customer and stakeholder needs. Passionate about collaborating with a diverse team to create software masterpieces.

THE PROBLEM

Access to energy investement opportunities has been closed and limited in the past.

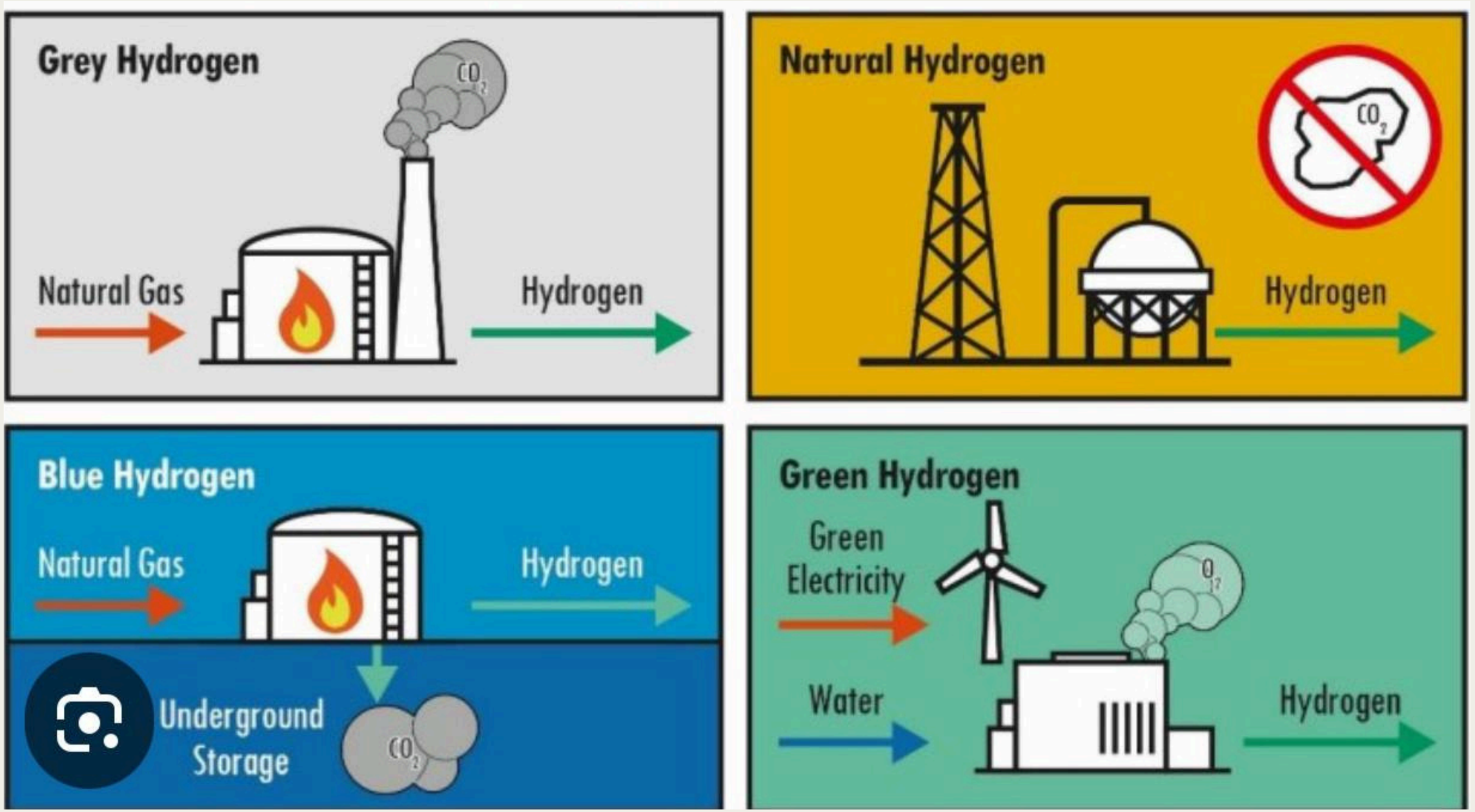
Key participants in the energy production space have been incentivized to maximize profits, but not to do so while mitigating effects of climate change.

OUR MISSION

To revolutionise access to capital to build clean energy sources with defi powered natural hydrogen production

Introduction

- **White Hydrogen**: Naturally occurring hydrogen, also known as natural hydrogen, which can be harvested with minimal environmental impact.
- **Decentralized Investment Framework**: Utilizing blockchain and DeFi technologies to streamline and democratize investment in white hydrogen projects.


Grey Hydrogen
CO_2
Natural Gas
Hydrogen
Natural Hydrogen
CO_2
Hydrogen
Blue Hydrogen
Natural Gas
Hydrogen
Underground Storage
CO_2
Green Hydrogen
Green Electricity
O_2
Water
Hydrogen

KEY COMPONENTS OF THE FRAMEWORK

- **Investors**: Provide funds for white hydrogen projects.
- **Operators**: Entities producing and distributing white hydrogen.
- **DeFi Protocols**: Platforms for decentralized financial transactions.
- **Smart Contracts**: Self-executing contracts that automate transactions.

Operator Launches H2 Well Campaign to Raise Funds

Users Buy H2 Defi Tokens

Operator Exchanges XLM to Fiat

MoneyGram

Physical Execution

Operator Drills Physical H2 Well with Fiat Currency

Operator Turns H2 Well on to Production

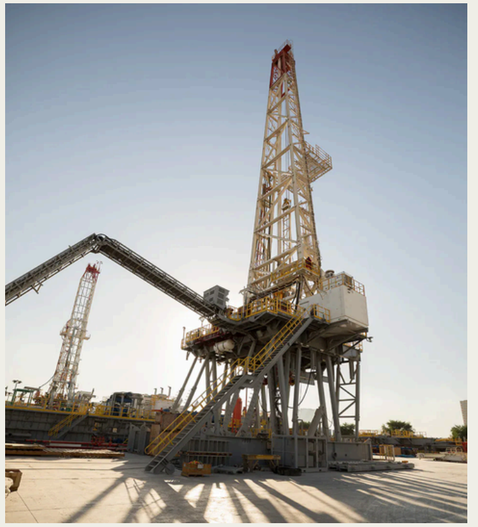
H2 Generated Power Sales Result in Fiat

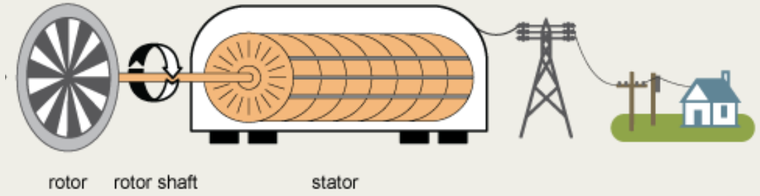
Users then get original investment back + dividends for as long as they hold the token.

Operator Exchanges Fiat to XLM

MoneyGram

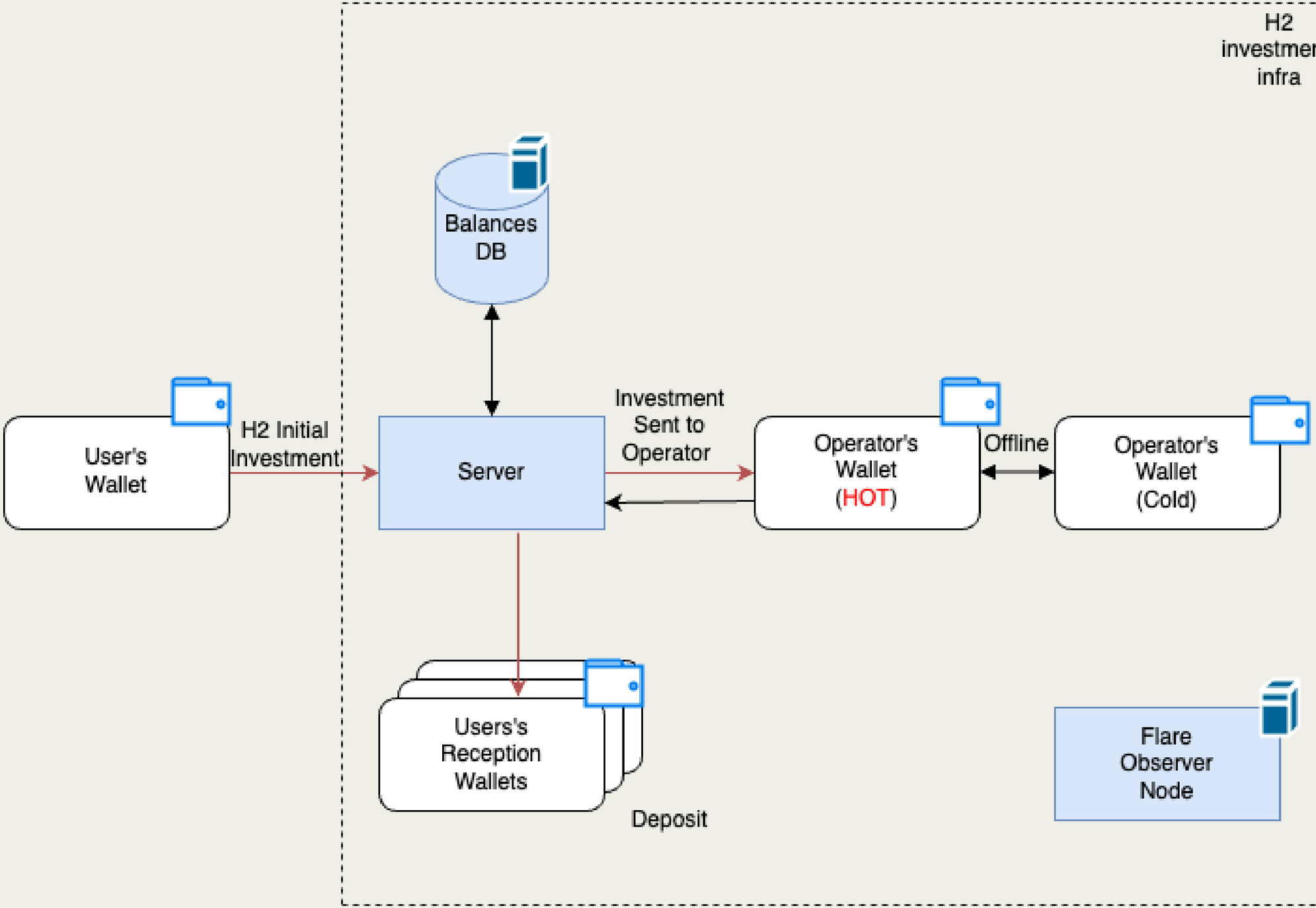
DeFi Asset Management on Stellar Ecosystem





KEY DEFI / CONTRACT FEATURES

- Standard contract framework for identifying contributors, establishing tokens & sharing them, and initalizing & hosting an active campaign
- Hydrogen Defi Investment Specifics:
  - Creating a deadline
  - Establishing the finite list of investors in a single H2 well token
  - Recovering deposits


H2
investment
infra
Balances
DB
User's
Wallet
H2 Initial
Investment
Server
Investment
Sent to
Operator
Operator's
Wallet
(HOT)
Offline
Operator's
Wallet
(Cold)
Users's
Reception
Wallets
Deposit
Flare
Observer
Node

BENEFITS OF THE FRAMEWORK

- Transparency: Open and verifiable transactions.
- Efficiency: Automated processes reduce administrative overhead.
- Access: Democratized access to investment opportunities.
- Sustainability: Support for clean energy initiatives.
- Security: Blockchain technology ensures secure transactions.

FUTURE PROSPECTS

- Growing interest in sustainable investments.
- Increasing adoption of blockchain and DeFi technologies.
- Potential for significant impact on global energy markets.
- Continuous innovation in hydrogen production technologies.

Q&A

Thank you!