
HODLNG

JC FINIDORI, Founder



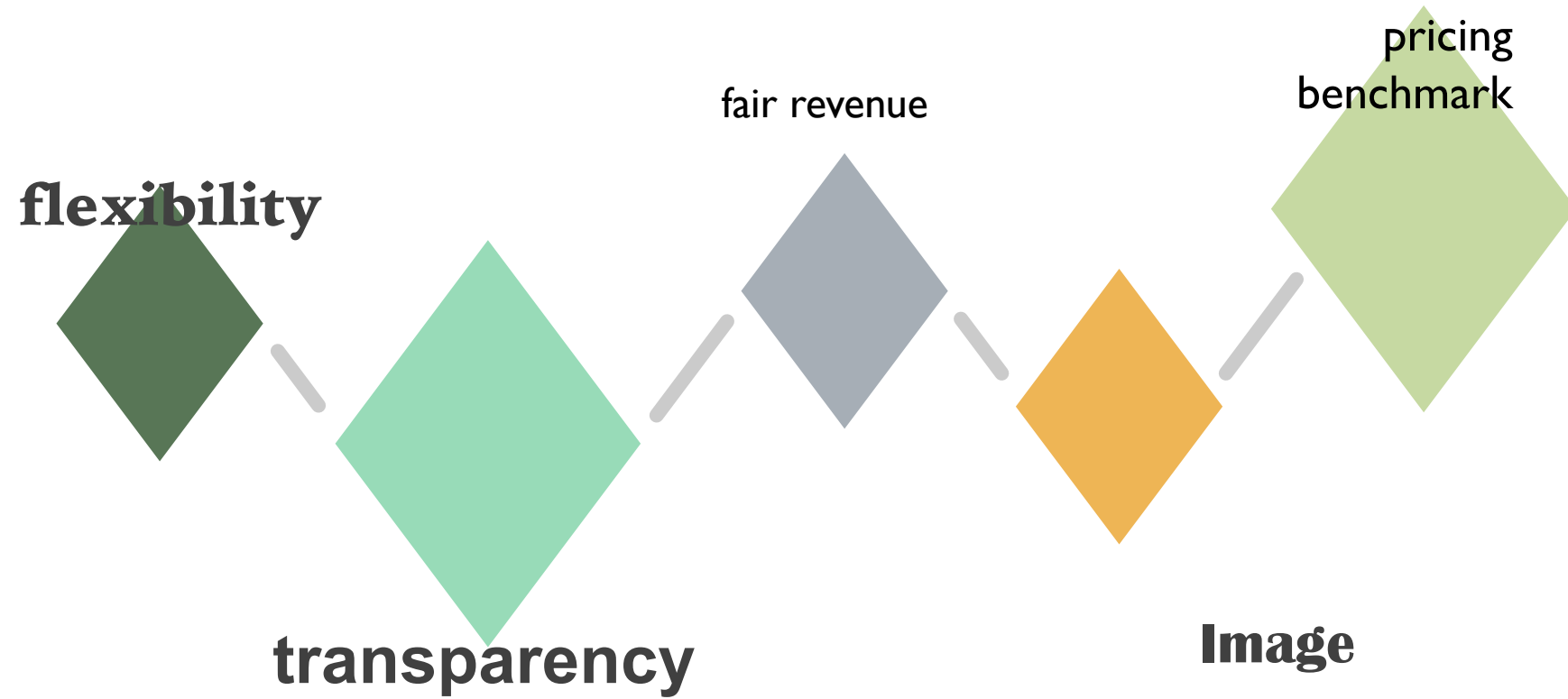
UNCEFACT – 1ST MEETING - ADVISORY GROUP

Geneva 30/01/2020

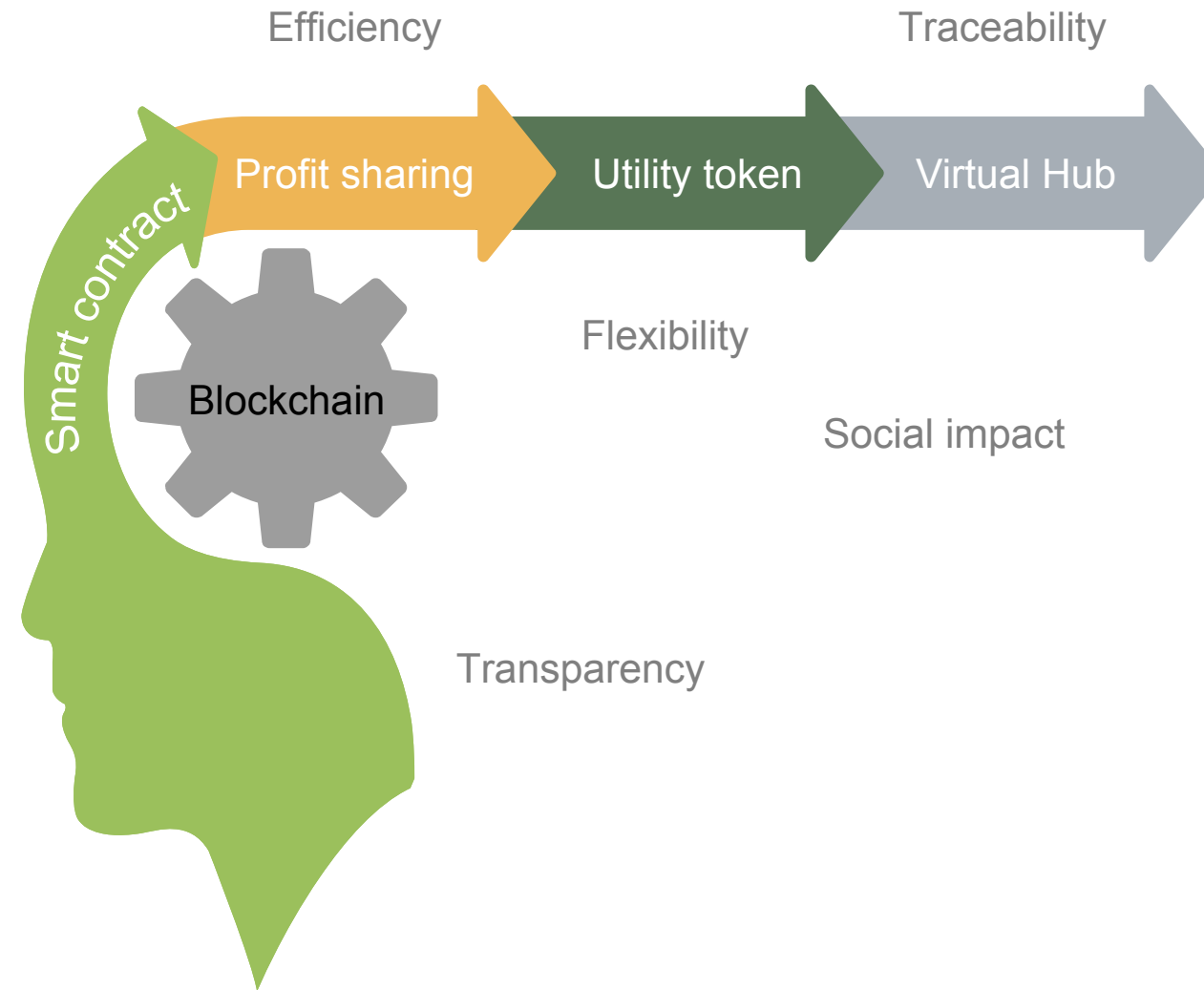
WHAT IS HODLNG?

- A Blockchain solution for liquefied natural gas (LNG); with smart contracts, we address anti-competitive clauses, triggering a fair profit-sharing mechanism. Our utility tokens generate additional revenue and contribute to social impact.

LNG MARKETS' ISSUES



OUR SOLUTION



OUR VALUE PROPOSITION

- **To facilitate** the interactions in the LNG market.
- **To govern** LNG clauses by smart contracts
- **To manage** fair profit-sharing mechanisms
- **To support** projects with social impact
- **To improve** transparency
- **To serve** as an LNG pricing benchmark
- **To enhance** the natural gas industry image
- **To catalyze** industry stakeholders efforts in a virtual LNG hub
- **To participate** in a more secure, flexible, fair LNG trade system

CHALLENGES AND OBSTACLES

- Main chain, Private/Public/Consortium; and contracting languages
- Off-chain and Side chains (merger mining); Virtual Chains (VMs)
- Utility tokens: it's an unit of gas; and an unit of valuation & exchange for beneficiaries
- Stacking – exchanges & Security tokens; and Stable coins
- Oracles: garbage in / garbage out

APIs integration:

- UNCEFACT LOCODE APIs
- IMO LNG Cargos # APIs

TRUSTED NEGOCIATION ENABLER (OFF-CHAIN SOLUTION)

Functionalities expected

- Integrity
- Authenticity
- Tracing and tracking (timestamping)
- Non-repudiation

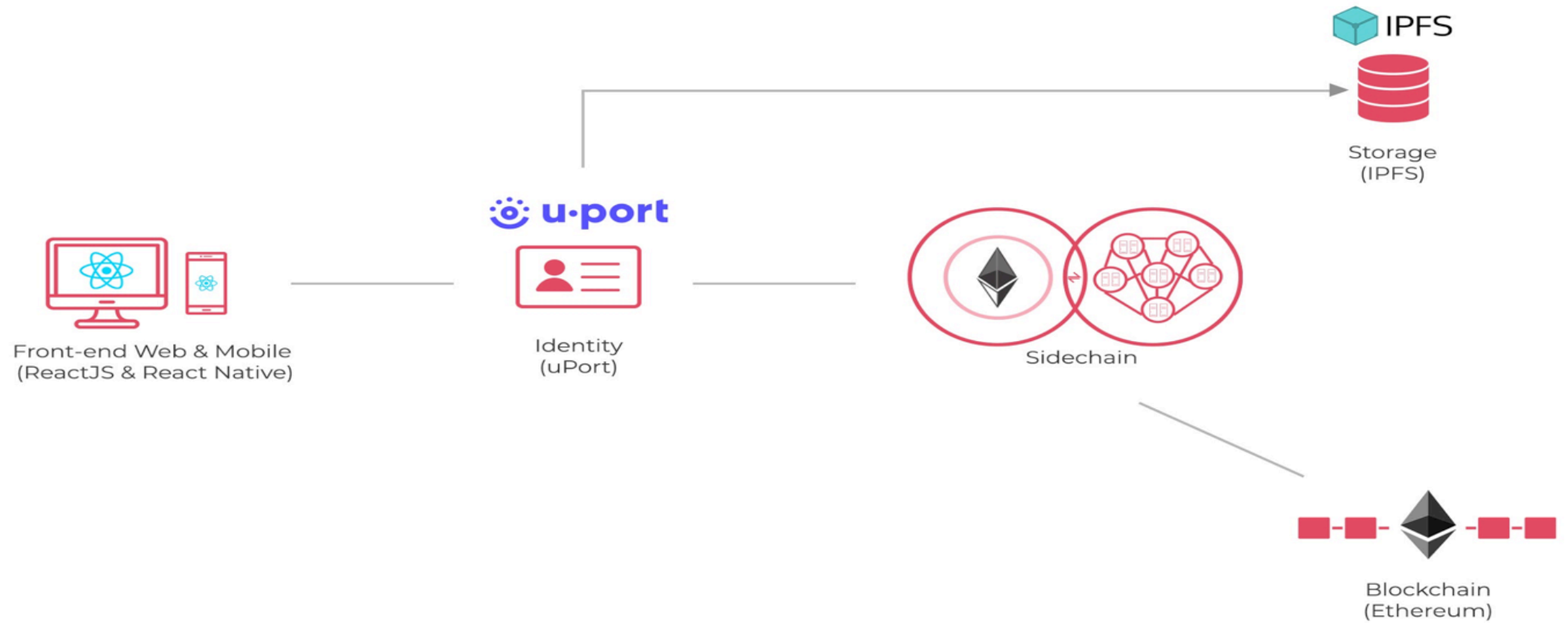
The Trusted Negotiations enabler provides:

- Set of Distributed Applications (DAPPs) supporting the critical marketplace processes
- Set of DAPPs supporting the secure storage of the relevant agreement terms.
- Activation of external services when a DAPP event

Functionalities delivered Off-chain

- Runs on top of Ethereum and aims to make smart contracts scalable, fast, and private.
- A minimum of on-chain work to ensure correct execution: only a cryptographic hash of the VM's state is stored on-chain.
- Allowing to push services, dApps, and tokens from ethereum to arbitrage, with privacy and scalability.
- Handling disputes cheaply and at low cost without significant load on the main chain.

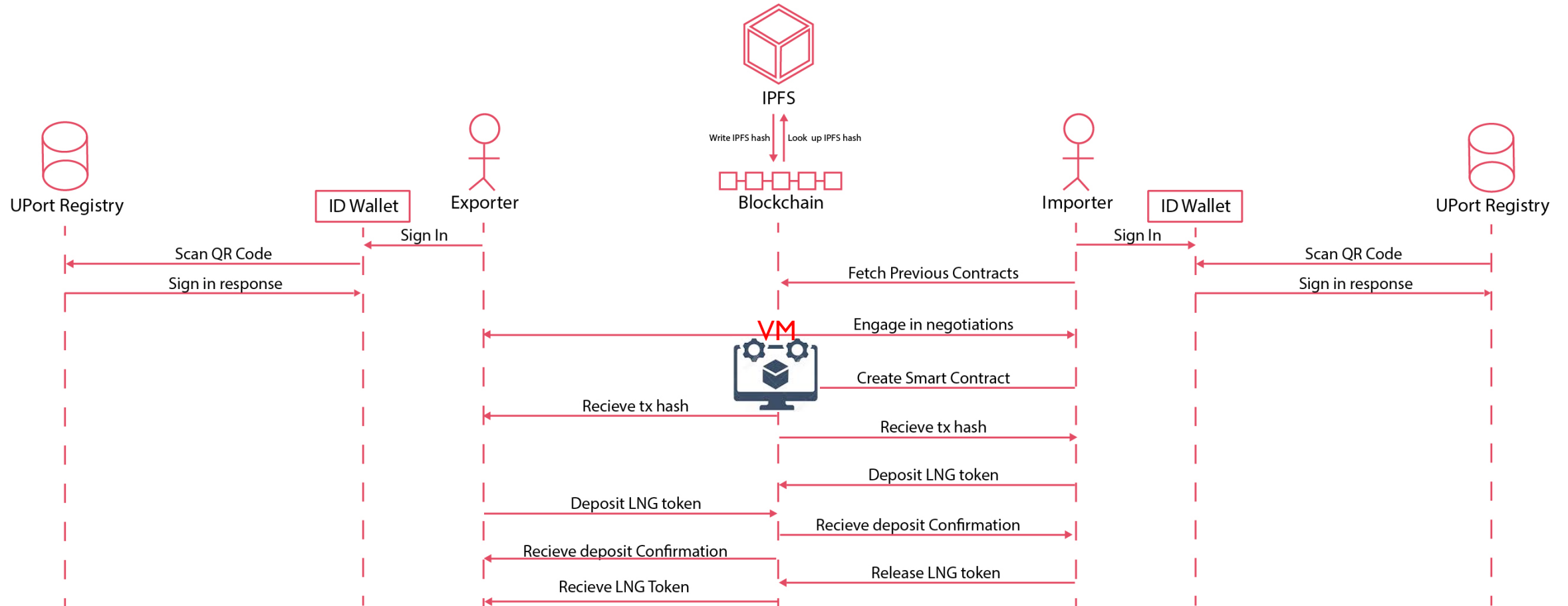
SYSTEM ARCHITECTURE



MANAGEMENT OF DEPLOYED SMART CONTRACTS

- Ways of implementing smart contracts: compiled Solidity codes and creation of VMs:
 - Send-receive funds & messages as well as perform calculations and store data offline according to their code; capability to receive data from Ethereum smart contracts
 - Manage the smart contracts, to be deployed; and management after the deployment
- We tackle many of known attacks on Ethereum and if bug occurs in smart contracts:
 - Timestamp dependence
 - Access and privilege control vulnerability
 - Integer overflow and underflow
 - Transaction-ordering / Front-running dependence

WORKFLOW



SEMANTIC OF THE SMART CONTRACTS

What is in a smart contract? There are two aspects:

- Contractual elements implemented: volume, price, cargos, destinations; and managing Notice of Diversion (in case of changes of destinations, or re-export).
- The current paper contract: this should result in on transaction on the network, and storage on IPFS; we need a smart contract that contains:
 - "deal = publishGasDeal(seller, buyer, conditions)";
- The re-export:
 - "createOfferBasedOn(deal)", "createDemand,..."

NEXT STEPS - PRIORITIZATION OF EPICS

- High priority (essential features)
 - Digitally-signed contracts by contracting-parties
 - Management of users (ID and prerogatives)
 - Notice of Diversion (changes of destination)
 - Compilation of Solidity code by Off-Chain solution
 - Profit-sharing mechanisms
 - Utility LNG tokens & Wallet
 - Integration of NGOs and local communities as beneficiaries
 - Redistribution mechanisms (tokens distr., donation)
- Medium (mid-term)
 - Integration of APIs for Ports and Cargos
 - Chat module for traders
 - Visibility of LNG volume available
 - Bidding on contracts for traders
 - Pricing benchmark and formation of price
- Low priority (long-term)
 - LNG asset-backed Stable coin
 - Algorithm for profit-sharing
 - Market data (LNG digital hub)

@hodlngOfficial



company/hodlng



THANK YOU FOR YOUR ATTENTION

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ANNEXE

CONFERENCES AND SPEAKING OPPORTUNITIES

- **BLOCK.IS. H2020 Programme** – Innovate event, (28-29 January, Istanbul)
- **AESCON** Asia-Europe Connectivity Scientific Conference (26-28 February, Sg)
- **IGRC** International Gas Research Conference (26-28 February 2020, Oman)
- **IGU** Deep-dive session: “Blockchain applications for the natural gas industry”
- **UNECE** - 7th Session of the Group of Experts on Gas (26-27 March, Geneva)





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- Smart Contrats
- Wallets
- Market Data
- Token Donations
- Contracting Partner
- Cargo
- Ports

Smart Contracts

Search X + Add Contracts

Smart Contract	Date	Contracting Partner	Amount	Cargo IMO	Destination	Status	Timeline	Action
Contract 1	10-12-2019	Alex	5MMbtu	Cargo 1	Changa Manga	Validated	<div></div>	View Notice of diversion
Contract 2	10-12-2019	Ricky	5MMbtu	Cargo 2	Dera Ghazi Khan	Delivered	<div></div>	View Notice of diversion



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Smart Contracats

Wallets

Market Data

Token Donations

Contracting Partner

Cargo

Ports

Smart Contracts

Smart Contract	Date
Contract 1	10-12-2019
Contract 2	10-12-2019

Create a new contract

User Id

12231

Transaction Date

12/21/2019

Volume

5

MMbtu

Price

100

\$/MMbtu

Unloading Port

A

B

Country Of Port

Australia

Contracting Partners

NGC Group

Idemitsu Kosan Co, Ltd

Cosmo Oil Marketing Co

Cargo IMO#

A

B

C

Transaction Fees

Percentage of transaction

LNG Token

Create

Search

X

+ Add Contracts

Status	Timeline	Action
Validated	<div><div></div><div></div></div>	View Notice of diversion
Delivered	<div><div></div><div></div></div>	View Notice of diversion

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