BLOCK START

FROM BLOCKCHAIN TO WEB3

BlockStart Startups 3rd Demo Day

24 February | 3pm CET | Online event

brpx Bright Pixel

CIVITTA

F6S

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.

Agenda

15:05 - 15:15 | **Backing visionary entrepreneurs** | Erik Hengmith, EISMEA, European Commission

15:15 - 15:25 | **Takeaways from BlockStart accelerator** | João Fernandes, Bright Pixel

15:25 - 16:10 | **How can Blockchain accelerate the Energy Transition?** | Sabine Brink, Shell

16:10 - 16:42 | **Blockchain startups pitch** | AgeVolt, BlockFrauds

16:42 - 16:52 | **Break**

16:52 - 17:56 | **Blockchain startups pitch** | BlockTac, Comunitaria, Digital Village, HOPU

17:56 - 18:00 | **Wrap-up** | João Fernandes, Bright Pixel

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Backing visionary entrepreneurs

Erik Hengmith, EISMEA, European Commission

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European Innovation Council

Backing visionary entrepreneurs

European Innovation Council and European Innovation Ecosystems

BlockStart 3rd Demo Day

24 February 2022

Erik Hengmith
Project Officer, EISMEA Unit I.01
:

The European Innovation Council and SMEs Executive Agency

European Innovation Council

European Innovation Council

- Pathfinder
- Transition
- Accelerator

Programme Managers
Business Acceleration Services

EU and place-based Innovation Ecosystems

- European Innovation Ecosystems (part of EIC)
- Innosup legacy
- Interregional Innovation Investments (I3 DG Regio)

Single Market Programme

- COSME Pillar
- Internal Market
  - Standardisation
  - Consumers

EIC main instruments and characteristics

European Innovation Council

Pathfinder
- **Early stage research** on breakthrough technologies
- Grants up to €3/4 million
- Successor of FET (Open & Proactive)

Transition
- **Technology maturation** from proof of concept to validation
- **Business & market readiness**
- Grants up to €2.5 million

Accelerator
- **Development & scale up** of deep-tech/ disruptive innovations by startups/ SMEs
- Blended finance (grants up to €2.5 million; equity investment up to €15 million)
- Successor of SME instrument

- Mission to **identify, develop and deploy high risk innovations** of all kinds
- Focus on **breakthrough, market-creating, deep-tech**

1. **Steered by EIC Board** of leading innovators (entrepreneurs, investors, researchers, ecosystem)
2. **Business Acceleration Services** (coaches/ mentors, corporates, investors, ecosystem)
3. **Pro-active management** (roadmaps, reviews, re-orientations, etc) with EIC Programme Managers
4. **Follow up funding for results from Horizon** (ERC, EIT, collaborative) & national programmes

EU Innovation trends (SMEs)

European Innovation Council

- EIC
  - combination of grants and equity
  - Interconnection to other initiatives (EIT KICs, Start-up Europe) with access to « fast track »
  - Better consideration of « deep tech »
  - Enhanced business acceleration services
  - Green & digital as priorities
- Other programmes
  - Same priorities + recovery (COSME)
  - Connection to the EIC
  - Sometimes sub-granting to SMEs (Innosup01 projects still launching calls until 2023 approx)
  - Good essential service coverage by the Enterprise Europe Network (Internationalisation, Innovation management, IP…)

How to find open calls for financial support to third parties ?

European Innovation Council

All calls for FSTP published by EU projects implementing H2020 & HORIZON EUROPE actions (but also some other programmes) are announced on a dedicated webpage on the EC Funding & Tenders Portal :

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/competitive-calls

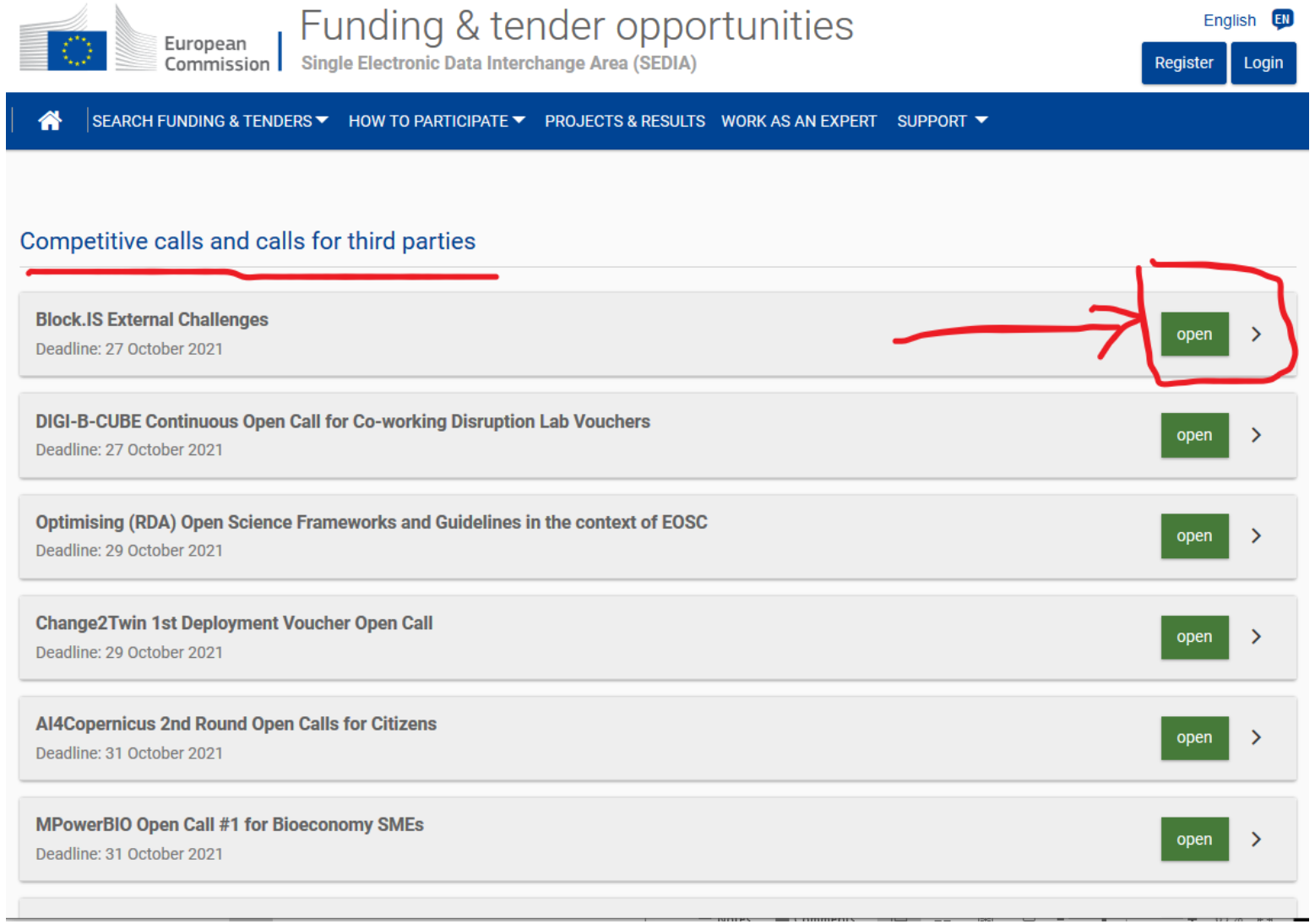
Direct links to the calls applications pages are available in each individual announcement!

ATTENTION:

New site for cascade funding calls

How does the dedicated page for announced calls for FSTPs looks like?

European Innovation Council



Published FSTP calls: examples for current / upcoming opportunities

European Innovation Council

- ✓ **Project MINE.THE.GAP**
  - ➢ **2nd open call FSTP open until 14 March 2022**
  - ➢ direct financial support to SMEs through innovation vouchers. These vouchers are dedicated to **strategic plan preparation**, **validation of ideas** and **proof of concept/ demonstration activities to innovate the mining and raw material value chain**.

- ✓ **Project SecurIT**
  - ➢ **1st open call FSTP open until 26 April 2022** for consortia of min. 2 SMEs, at least one needs to be an IT/ technology provider Open Calls – SecurIT (securit-project.eu)
  - ➢ Proposals to address challenges around **Critical infrastructure protection, Disaster Resilience and Public spaces protection.**
  - ➢ 2 types of vouchers: **prototyping development** (funding up to €74K per project) and **demonstrator** (funding up to €88K per project).

Published FSTP calls: examples for current / upcoming opportunities 2

European Innovation Council

- ✓ **Project Galactica**
  - ➢ **2nd open call FSTP open until 30 March 2022** https://galacticaproject.eu/call-for-proposals/
  - ➢ aims to attract and support the **best cross-sectoral projects** in the fields of **textile, aerospace and advanced manufacturing**. SMEs and Startups from EU Members States and UK can apply for funding **up to €100.000 ("Orbital Projects" -** development and demonstration**) or up to €20.000 ("Pioneer Projects" -** concept validation**)**.

- ✓ **METABUILDING**
  - ➢ **2nd open call FSTP open from 01 March until 25 May 2022**
  - ➢ max. funding per project is €60.000
  - ➢ The overall objective of METABUILDING is to bring innovation to the "traditional" value chain of the construction sector and expand that value chain to other industrial sectors to create an Enlarged Built Environment sector
  - ➢ SMEs are requested to answer to challenges aiming at the integration of knowledge, expertise and technology assets from other sectors (ICT, Nature-Based Solutions, Additive Manufacturing, Recycling and Circular Economy) to the construction sector to increase their performance and productivity

Further opportunities

European Innovation Council

- ✓ **Horizon IP Scan**
  - ➢ Tailored, first-line and free-of-charge **IP support service**.
  - ➢ Specifically designed to help European start-ups and other SMEs to efficiently manage and valorise IP in collaborative research and innovation efforts.
  - ➢ Particular **focus on EU-funded H2020/ Horizon Europe projects**.
  - ➢ Consists of vast network of experienced, local IP experts covering all EU Member States and Horizon 2020/Europe associated countries, the Horizon IP Scan team provides an individual, professional, jargon-free assessment of SME's intangible assets.
  - ➢ Who can apply?

    The service is open to European start-ups and SMEs (according to the EC's definition) that are about to sign a Horizon (2020/Europe) Grant Agreement or have recently signed one (up to six months after signature). In addition, Horizon IP Scan caters to SMEs signposted by the Horizon Results Booster (maximum until half of the project duration). Also, SMEs that are referred to Horizon IP Scan by the Enterprise Europe Network in view of a planned cooperation with other entities on a R&I project are also eligible for the service up to six months after the beginning of a project, but preferably before any agreement is signed.

European Innovation Council

Thank you!

https://eic.ec.europa.eu

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#EUeic

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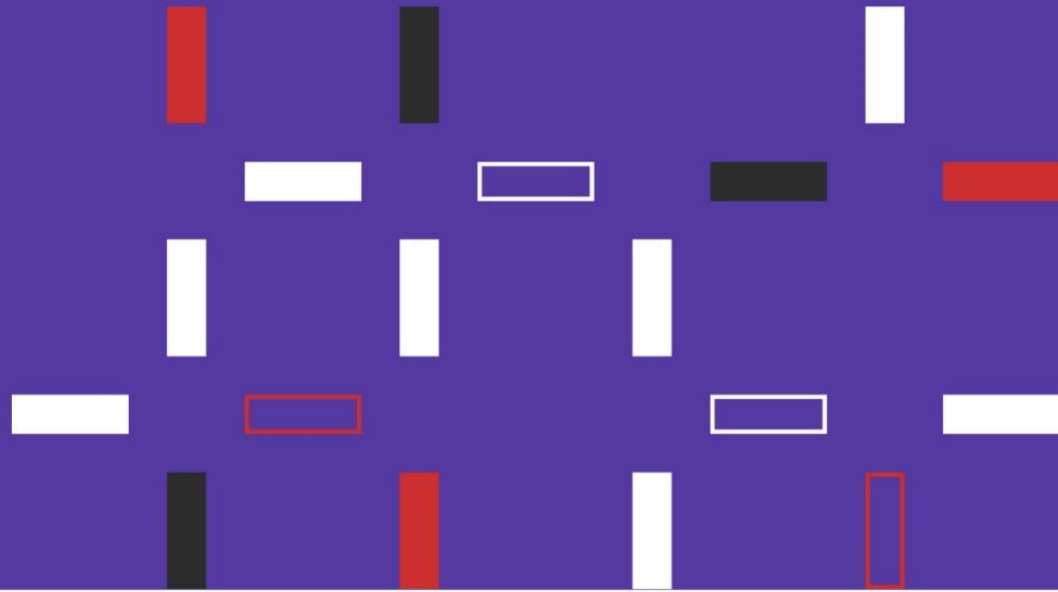


Takeaways from BlockStart accelerator

João Fernandes, Bright Pixel

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.

We are not alone

What is BlockStart

EU-funded **blockchain accelerator**

Supported **60 solution providers** & **67 end-user SMEs**

Retail, **Fintech**, **ICT**

€795,000 equity free

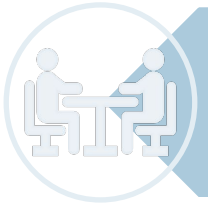
3 acceleration programmes | **2019-2022**

Run by an **early stage VC**, **innovation consultancy**, **startup community**

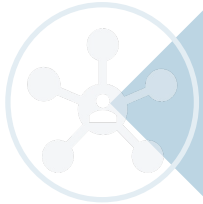
What does it offer

Equity-free funding: up to €20k/startup & €4,5k/SME adopter

Market validation: demos & tests with potential clients



Growth support: mentoring from business & tech experts



Networking: events & matchmaking with investors

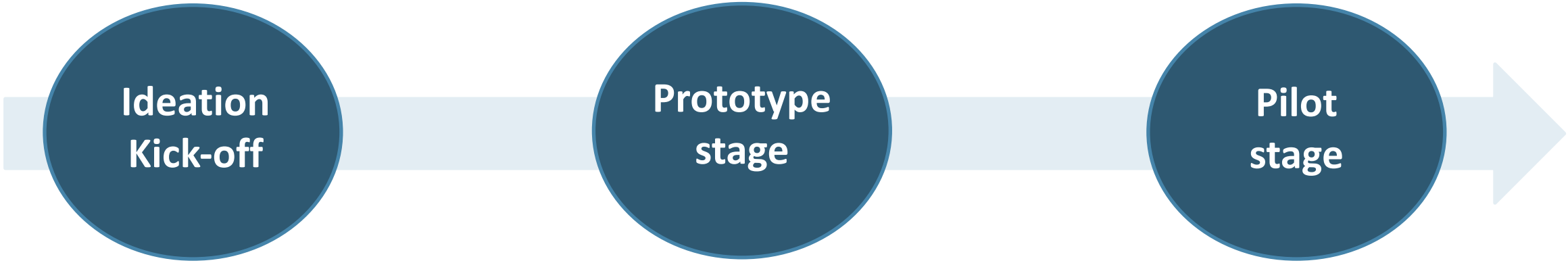
Standing on the shoulders of giants

… among many other **Ecosystem Partners**

External Mentors

Investors, Founders, CTOs, Business Developers

How does it work



2 days

23 Startups
pitch and meet SMEs

4 months

10 Startups
develop and validate MVP

2 months

6 Startups
implement pilots in SMEs and pitch at Demo Day

Ecosystem building

Organized 29 events
Participated in 25 events
www.blockstart.eu/events/

Do you need blockchain?
our tool may help:
www.blockstart.eu/dlt/

Looking back

317 startup applications

173 SME applications

55 countries | 23 in Ideation | 18 in Prototype| 13 in Pilot

200+ mentoring sessions

>90% satisfaction rate

Their words, not ours

ibisa

*Do a full **product cycle fast***

infidia

*Acquire **users to test** and give feedback*

kedeon. SOLUTIONS

*Find the perfect **target customer** segment*

SENSE FINITY

*Led us to **3 new customers***

All projects in
www.blockstart.eu/our-startups/

We’re proud of our startups

DATARELLA

Signs two-year contract with the
European Space Agency

kedeon.
SOLUTIONS

Fundraised €400K
including Techstars

They really deserve it

ibisa

Fundraised €1.5M
including Insurtech Gateway

DV

Fundraised $2M
including Venrex

1st Acceleration Programme Finalists

2bSMART	DATARELLA	infidia	kedeon. SOLUTIONS	rexs.io
IOT for a corona free office	Tracking for supply chains	Invoice verification for invoice financing	Last-mile delivery monitoring	Data notarization
2 pilots	**3 pilots**	**5 pilots**	**5 pilots**	**3 pilots**

All projects in
www.blockstart.eu/our-startups/

2nd Acceleration Programme Finalists

ComeTogether

Ticketing with health passport

2 pilots

ibisa

Platform for agriculture insurance

2 pilots

Knowtary

Digital document certification

5 pilots

LOANXCHAIN

Secondary loan marketplace

3 pilots

MOTOBLOCKCHAIN

Digital identity for motorcycles

4 pilots

All projects in
www.blockstart.eu/our-startups/

3rd Acceleration Programme Finalists

AGEVOLT
NEW AGE OF E-MOBILITY

EV charging digital ecosystem

3 pilots

BlockFrauds

Fraud detection for insurance

2 pilots

BLOCKTAC

Blockchain of Things Devices

3 pilots

Comunitaria.com

Rooftop that feeds

7 pilots

DV

MMO social metaverse

4 pilots

hopu Smart Cities

Industrial emissions monitoring

2 pilots

All projects in
www.blockstart.eu/our-startups/

How can Blockchain accelerate the Energy Transition?

Sabine Brink, Shell

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.

How can Blockchain accelerate the Energy Transition?

Digitalisation

Sabine Brink
Global Blockchain Lead
Shell

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Also, in this presentation we may refer to Shell's "Net Carbon Footprint", which includes Shell's carbon emissions from the production of our energy products, our suppliers' carbon emissions in supplying energy for that production and our customers' carbon emissions associated with their use of the energy products we sell. Shell only controls its own emissions. The use of the term Shell's "Net Carbon Footprint" is for convenience only and not intended to suggest these emissions are those of Shell plc or its subsidiaries.

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Agenda

1. The energy sector is changing
2. Digital tech plays an important role
3. Blockchain changes the paradigm
4. Examples of Energy Blockchain Projects
5. Q&A

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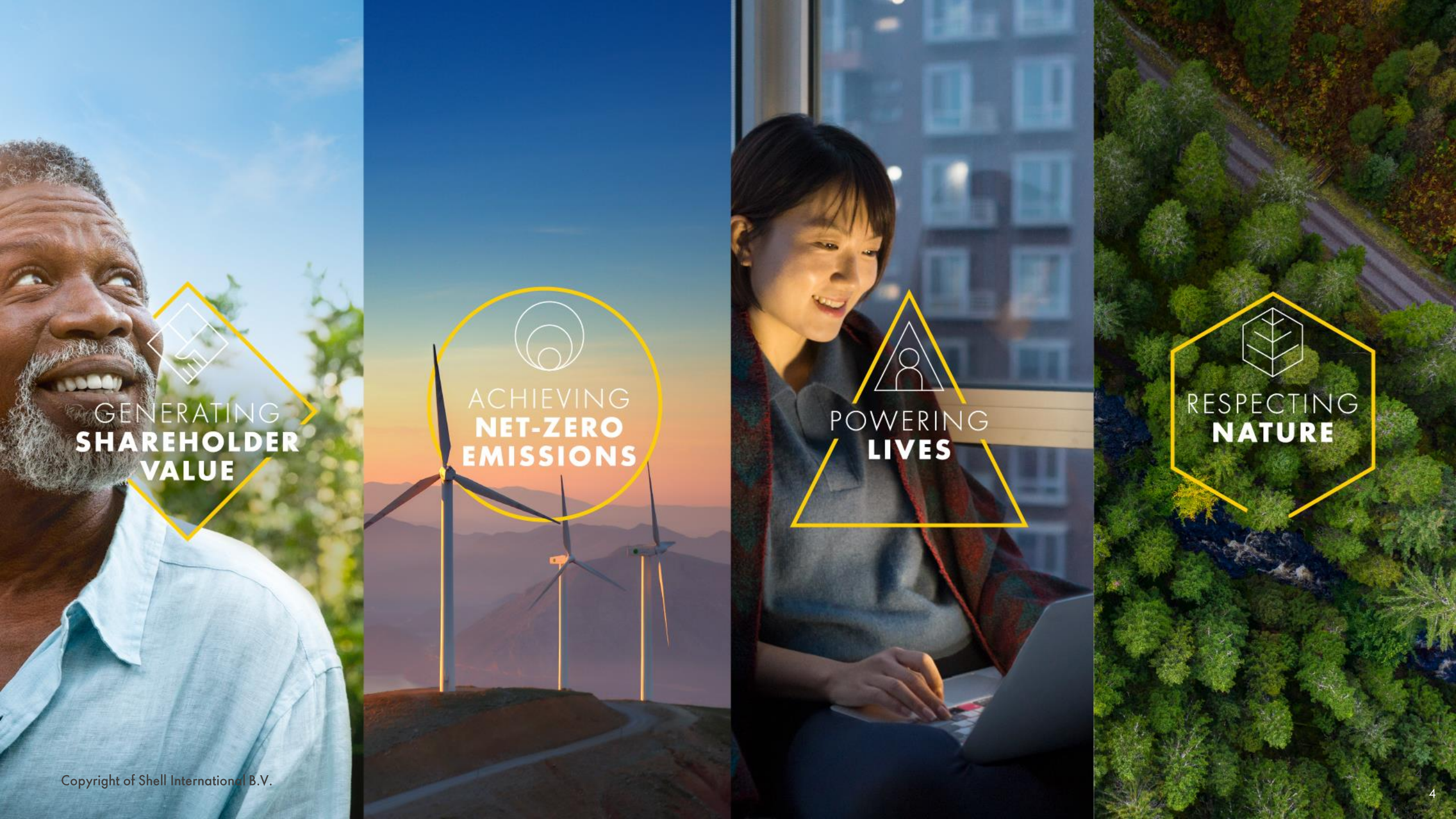

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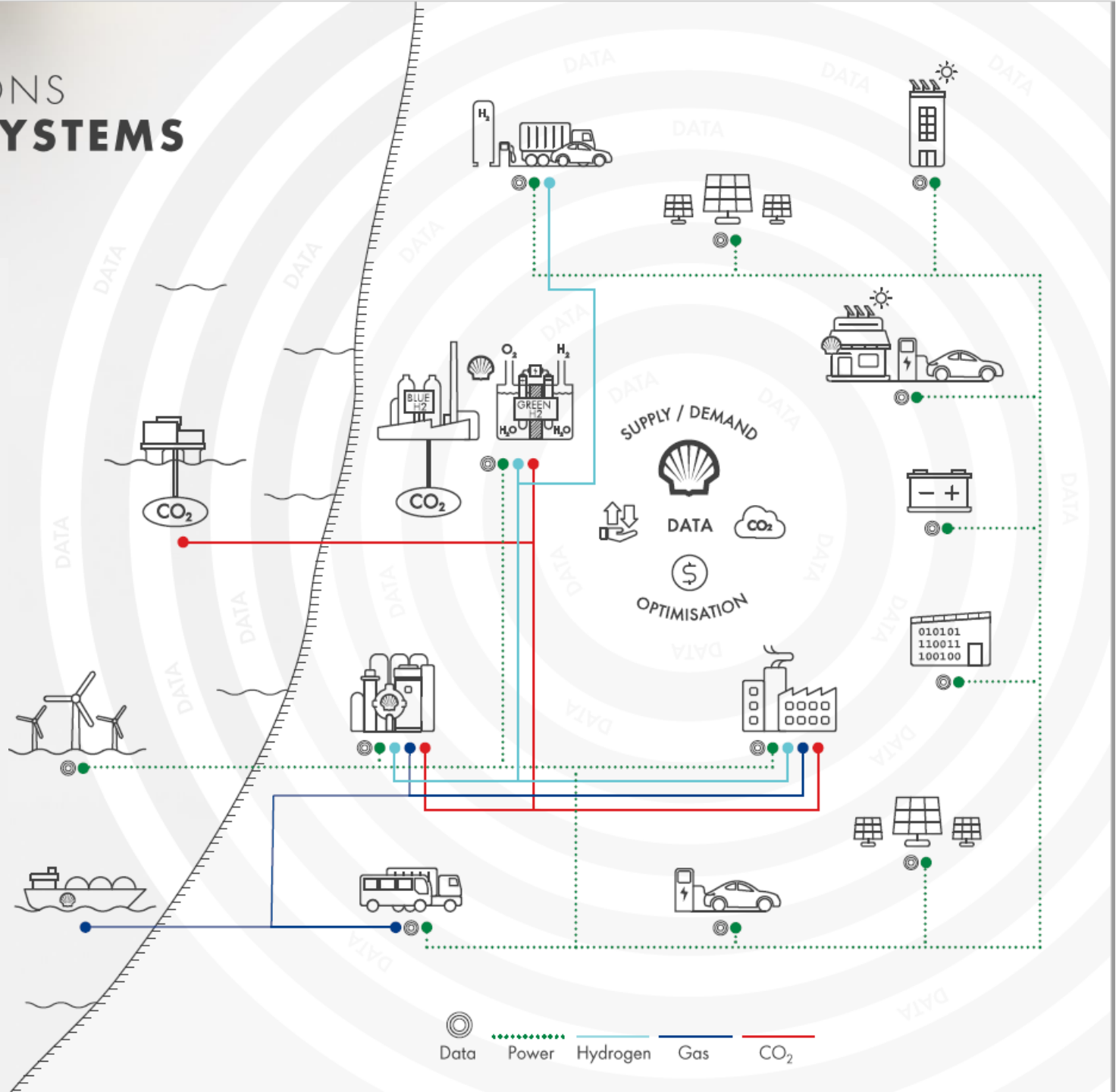
RENEWABLES AND ENERGY SOLUTIONS

INTEGRATED CLEAN ENERGY SYSTEMS DRIVING HIGHER RETURNS

- The energy system is becoming more distributed with increasingly diverse energy sources
- Many of the supply chain processes across the energy sector are still manual
- Digital technology is key to help balance supply and demand for future energy systems



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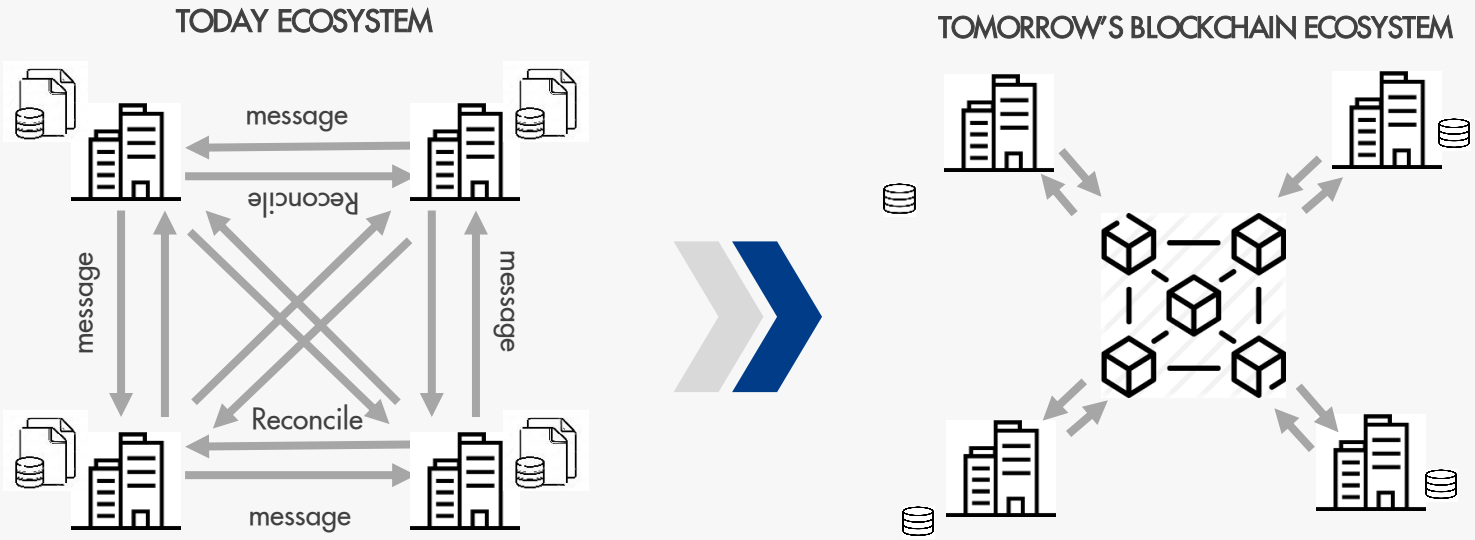
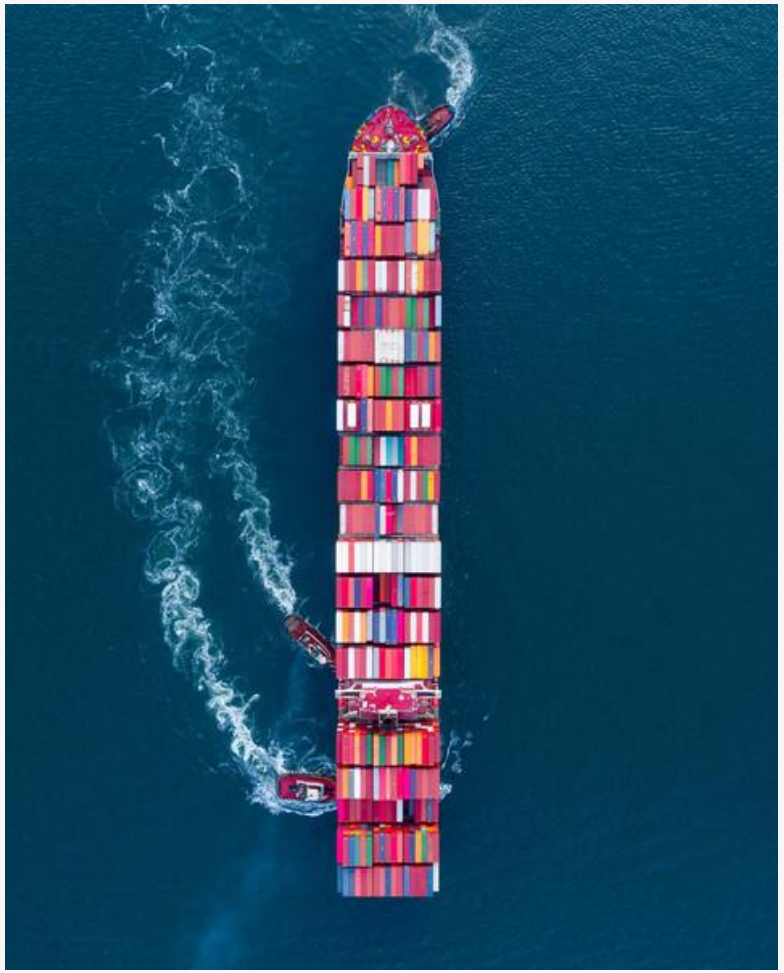
BLOCKCHAIN/WEB3 TECHNOLOGY PROVIDES AN ENTIRELY NEW WAY OF SHARING TRUSTED INFORMATION WITH NEW AND EXISTING PARTNERS





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KEY TRENDS IN THE BLOCKCHAIN SPACE, ENABLED BY TOKENIZATION AND AUTOMATION VIA SMART CONTRACTS, SHOW THIS TECHNOLOGY IS HERE TO STAY

- Blockchain technology has matured and we are focussing on scaling solutions instead of only experimenting
- It is clear that public blockchains win from private blockchains
- There are public blockchains that do not utilize a lot of energy to achieve consensus
- Tokens, decentralized finance and Decentralized Autonomous Organisations are starting to unlock new business models, governance models & revenue streams
- Ethereum is Shell's protocol of choice

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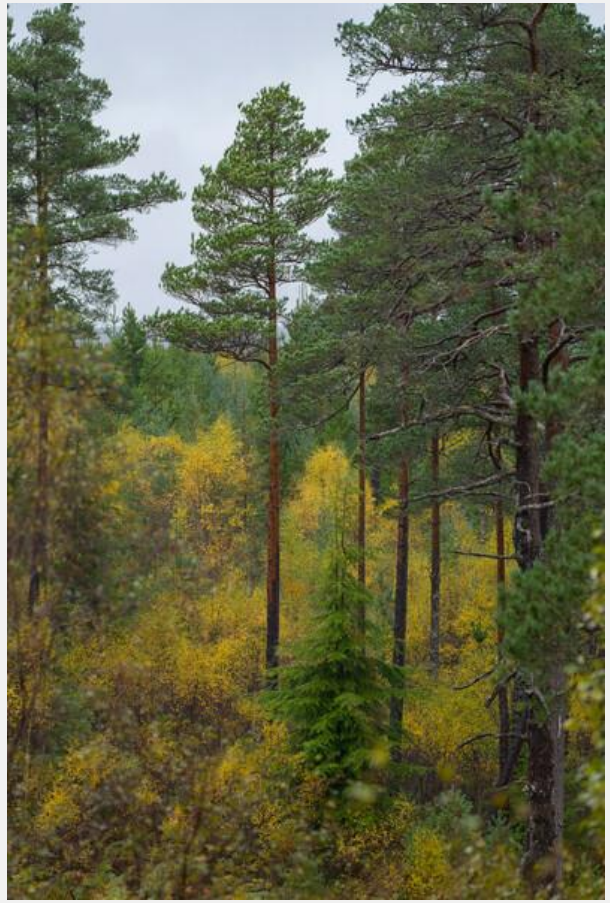
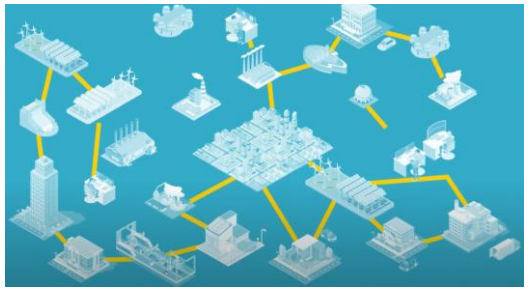
WITH THE ABILITY TO CREATE TRANSPARENCY & AUTOMATE TRANSACTIONS, BLOCKCHAIN/WEB3 HAS THE POTENTIAL TO TRANSFORM THE ENERGY SECTOR



3 key pillars where blockchain adds value in Shell (& the energy sector)

By creating efficient supply chains, bringing verifiable sustainability offerings to customers and by creating new decentralized business models. Decentralized tech will be a key enabler in the energy transition.

OVER THE PAST FEW YEARS, SHELL HAS LAUNCHED DIFFERENT BLOCKCHAIN SOLUTIONS, JOINED ECOSYSTEMS & INVESTED IN START-UPS



Proof of Origin of Low Carbon Energy

As blockchain can track renewable energy from source to consumption it can give customers reassurance of the low carbon attributes.

Digital Passports for Equipment

The passports provides transparency, real-time visibility and the ability for each party to verify its current state.

energy web

Founder and active member of EWF, public live blockchain with +130 members

komgo

AKT

LO3 ENERGY

Shell Ventures invested in Lo3 energy. Micro-girds, p2p energy trading.

Dutch Blockchain Coalition
connect and create

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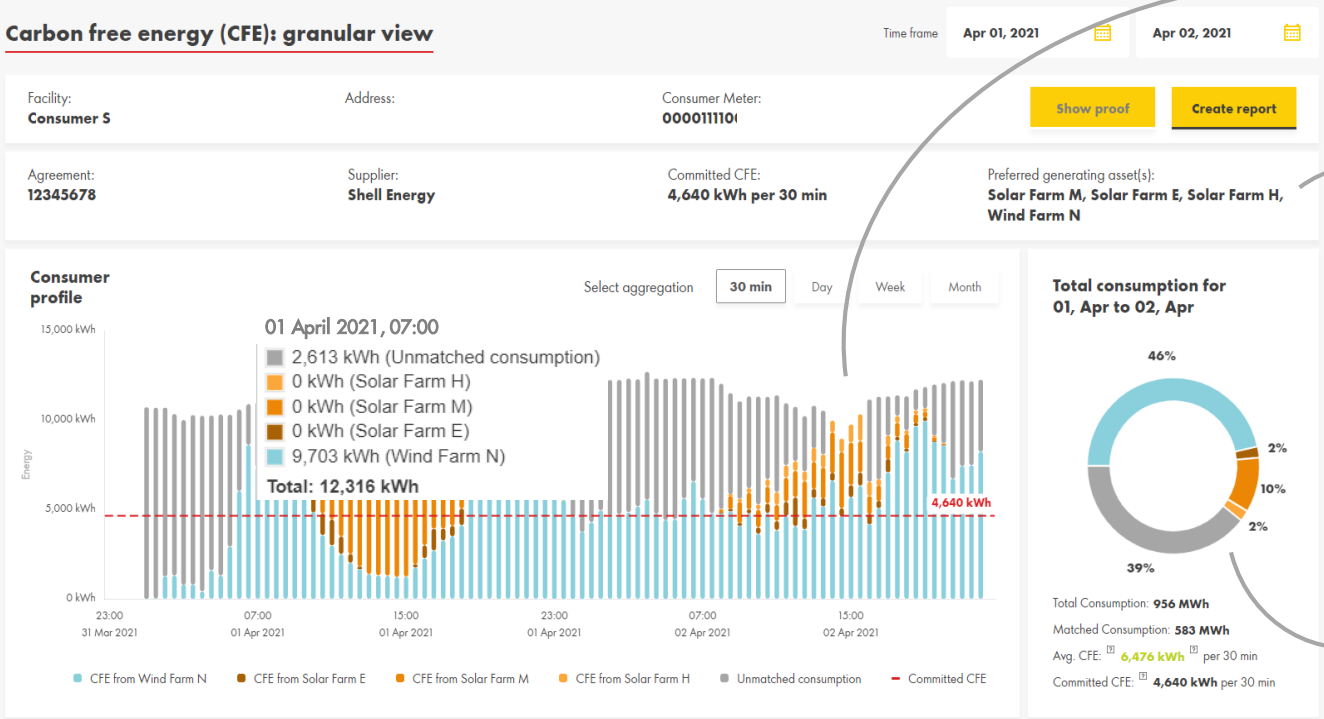
ENERGY TRACE PROVIDES CUSTOMERS INSIGHTS ON THEIR TRUE ENVIRONMENTAL PERFORMANCE; A NECESSARY STEP IN ACHIEVING REAL GRID DECARBONIZATION

Today focusing on power; longer-term expanding to cover other energy products, such as battery storage, and other electricity-derivative products, such as green hydrogen, heat and steam.



Electricity consumption is matched to ACTUAL generation, at 30-min intervals

Per PPA terms and customer preference for energy type & specific assets

Aggregated view and breakdown to help customers compare granular performance to the current EAC setup

energy web

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COLLABORATION IS KEY

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Visit: shell.com/blockchain

Sabine Brink
Global Blockchain Lead
Shell

Let's connect on Linkedin

BLOCK START

Blockchain startups pitch

AGEVOLT
NEW AGE OF E-MOBILITY

BlockFrauds

brpx Bright Pixel CIVITTA F6S

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.

AGEVOLT

accelerating the transition to electric vehicles

BLOCK START

E-mobility Loyalty Management Application

Parag Gogate, Chief Revenue & Operations Officer
Ondrej Sarnecký, Head of Digital Platform

Pilot Stage Demo Day, 24 FEB 2022

Our Purpose

VISION

To accelerate electric vehicle transition by making charging accessible and convenient whilst achieving optimal energy distribution

MISSION

To create a comprehensive Electric Vehicle charging digital ecosystem for open collaboration and contribute towards climate action

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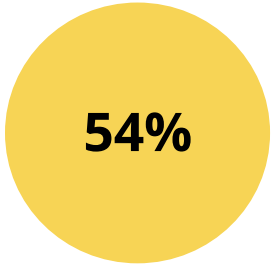
Electric Vehicle Charging Infrastructure is lagging

Electric Vehicles on road in Europe by 2035

(current 3.3 mil)

Public & private charge points needed by 2035

(current 1.5 mil)



EV drivers worry about lack of charging, range & cost

Electrification is going to be the main driver of decarbonized transport in Europe

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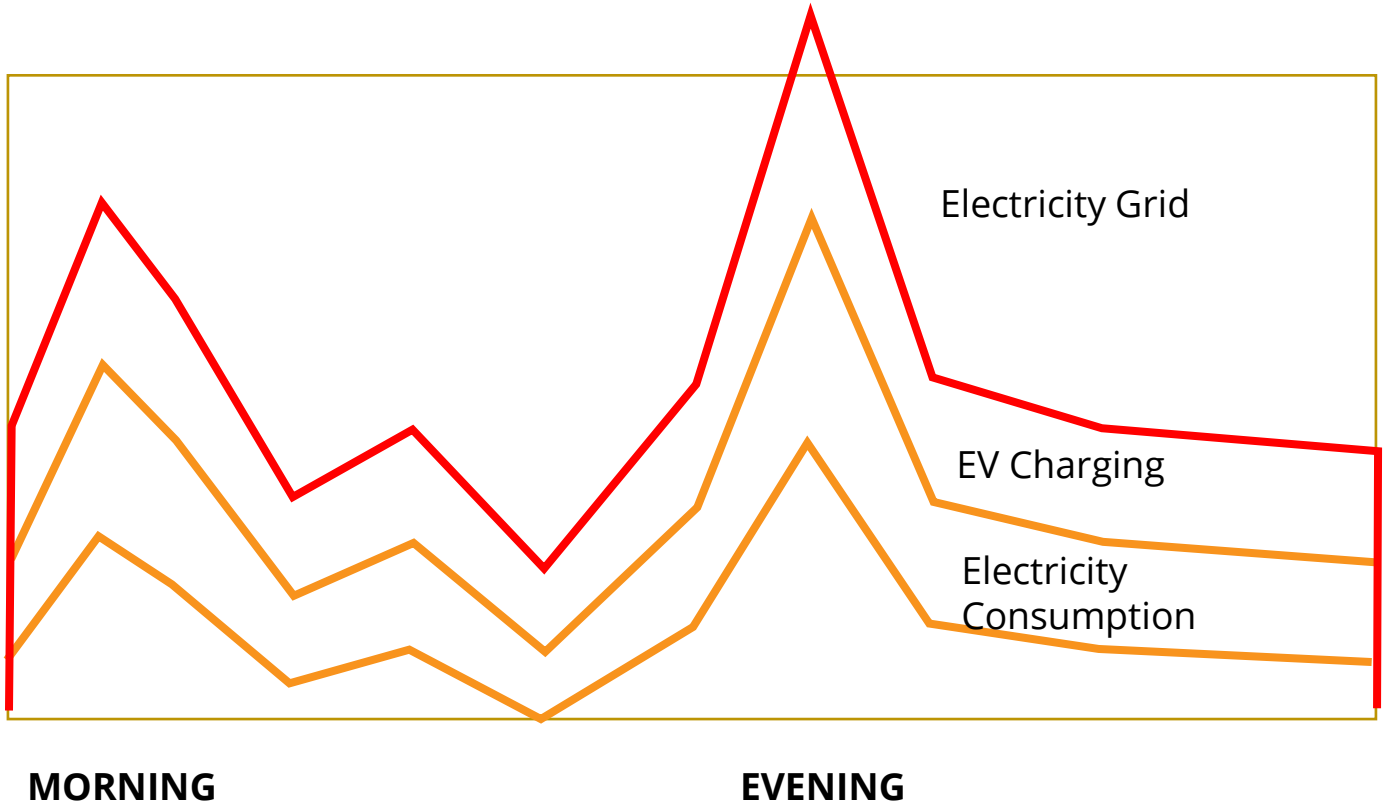
Peak electricity demand will drive grid imbalances



+ 11%

200 TWh

Peak demand surge due to increased Electric Vehicle charging **by 2030**

Solution – *AgeVolt E-mobility Ecosystem*

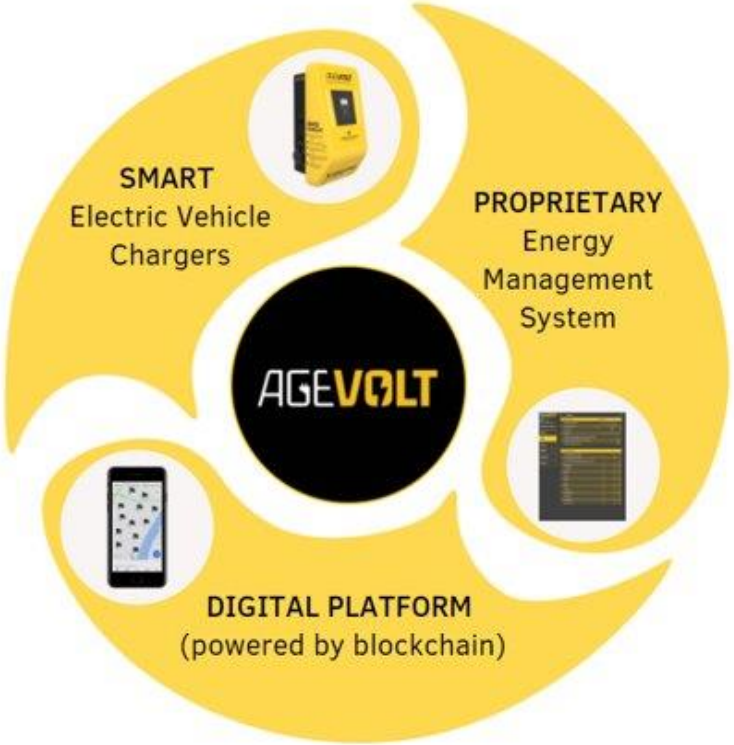
Comprehensive solution
- Smart chargers
- Energy management system
- Digital platform (Blockchain, IOT, AI/ML)
- Mobile app

Reduces TCO (Total cost of ownership) by over 20%

E-mobility marketplace for EV drivers and charger owners –charging and lifestyle needs

Scalable dynamic electricity distribution – site, local, municipal and regional level

Open solution for every charger, charger owners and EV driver



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Creating new 'Value' through digital ecosystem

Generation 1 (Equipment)

- Standalone chargers
- Fixed/ linear pricing

ABB Schneider Electric

Generation 2 (Equipment + Platform)

- Roaming charging
- Charging Operator / Platform managed pricing

driivz greenway IONITY everon

Generation 3

AgeVolt E-mobility Ecosystem

- E-mobility multisided marketplace
- Dynamic energy management
- Peer-to-peer charger sharing
- Dynamic charging pricing
- Lifestyle products & services
- **Loyalty Token**
- Payment Token
- Energy Token (grid balancing)
- Carbon Token
- Crowdfunding

AGEVOLT

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Competitor comparison

☑ Offered by AgeVolt; competitors offer similar features

☑ Competitors offer partial features

✘ Competitors do not offer these features

	Energy Management System (dynamic and scalable)	Loyalty programme integration (Loyalty Token)	EV charging platform & roaming (Payment Token)	Energy grid balancing (Energy Token)	Carbon offset and reduction tracking (Carbon Token)	Multi-side marketplace for emobility services	Charger OEM	Charger installation, maintenance & repairs
AGEVOLT	☑	☑	☑	☑	☑	☑	☑	☑
ABB	✘	✘	✘	✘	✘	✘	☑	☑
Schneider Electric	✘	✘	✘	✘	✘	✘	✘	✘
driivz	☑	✘	☑	✘	✘	✘	✘	✘
everon	✘	✘	☑	✘	✘	✘	✘	☑
IONITY	✘	✘	☑	✘	✘	✘	✘	✘
greenway	✘	✘	☑	✘	✘	✘	✘	☑

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Target Customers

Target segment (B2B):
- Retail
- Hospitality
- Fleet/Logistics
- Automotive
- Energy
- Real Estate
- Government
- Charger manufacturers

Target segment (B2B2C):
- EV Fleet drivers
- EV drivers

- Over 40 customers in Slovakia & Czech Republic

- Ongoing projects in UK, Sweden, Latvia, Poland, Turkey

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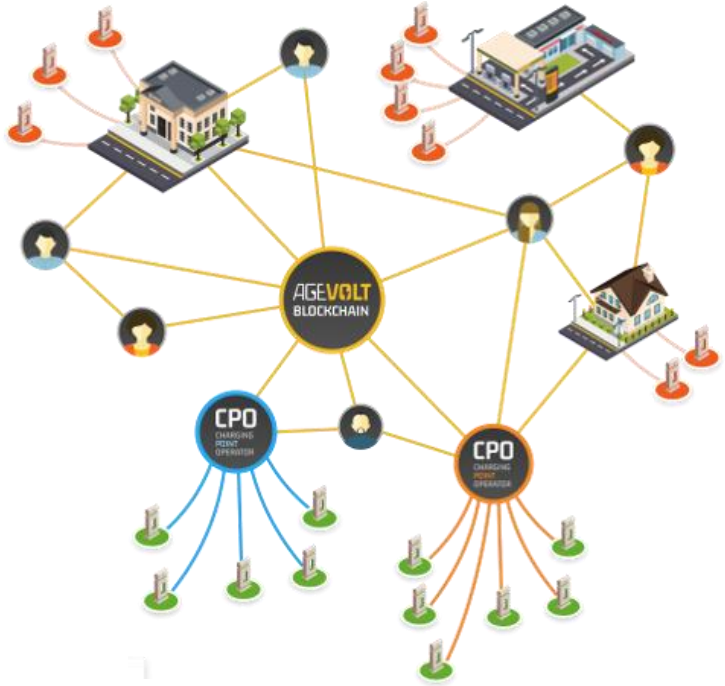
Business model

Multi-sided marketplace for EV charger owners, EV drivers and E-mobility products and service providers

Revenue Forecast (2028):

- **EV chargepoint & EMS – EUR 10 Mil**
- **Marketplace – EUR 20 Mil**

EV chargepoints & EMS (sale, installations, repairs & maintenance) – EUR / chargepoint
Charge point management – EUR per chargepoint connected / annum
Marketplace transactions – EUR / transaction
Digital marketing – EUR per user / annum
Loyalty management – EUR per user / annum



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Why AgeVolt is adopting Blockchain?

Security & transparency (smart contracts)	• Immutability of records; increasing trust in the 'platform' for participants • Good fit for enterprise security requirements
Permissioned private blockchain (sustainability & security)	• Sustainable carbon footprint (compared to public) • Best of centralisation/ de-centralisation features on Distributed Ledger Technology
Reduced transaction cost & time (Proof of authority)	• Reduced transactions costs by 25% compared to fiat money • Improved processing efficiency (time) by 20%; better user experience
Scalability of platform (network effect)	• Cost effective solution for platform to grow exponentially • Opportunities for new commercial models (crowdfunding)

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Results from Pilot Project

Key Objectives

- Implement Loyalty Token
- Focus on Slovakia – Hospitality & Retail organisations
- Test Blockchain network
- Test use cases with EV charging

Key Lessons Learnt

- SME adopter onboarding took longer then expected
- Positive feedback from SME adopters – all three would recommend AgeVolt's solution
- Agreed to continue collaboration post Blockstart
- 4 out of 5 use cases validated successfully
- Little changes required to the prototype
- Further testing and validation required for QR code printing & API
- Further time needed to test business model viability and return on investment for SME adopters
- Keen interest from existing and new customers

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Pilot Project - SME adopters

Penzión Mara

Spillenberg House

Villa Severka

Prototype – Features & Use Cases

White Label Loyalty Tokens

EV Fleet Management

Direct Token Minting

Analytics Dashboard

QR Code Printing

API

- Installation of AgeVolt charger and energy management system – offering EV charging to customers and employees
- Generate tokens as a loyalty point based on marketing campaigns – as incentivization or reward for their customers.
- Generate unique QR codes for their customers (Print API) or manually by specifying the number of tokens in AgeVolt platform.
- Manage company EV fleet – assign tokens to a specific employee delivery vehicles or personal vehicles

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Demo Video

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Traction outside Blockstart

Interest from the following existing and new customers

- Od Nasich (Supermarket)
- Slovak Post (Retail)

Hotels

- Antiqua Villa, s.r.o.
- Jaroslav Svepes VOLTON
- KEMA SK, s.r.o.
- Skala Pavol
- MAC-Gastro spol, s.r.o.
- W Hotel, s.r.o.
- Benfinal, s.r.o.
- Smartintegra group, s.r.o.
- Forespo LV

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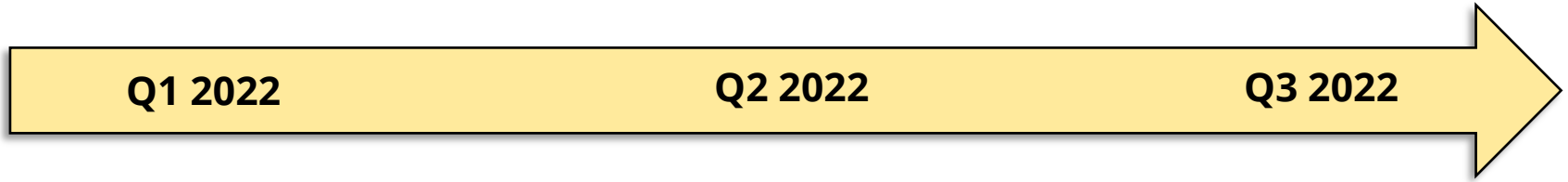
Product Roadmap



- UX/UI improvement to the front-end design
- Complete testing of QR code printing
- Integration with AgeVolt portal for SME offer displays

- Develop marketing campaigns functionality
- Develop emailing functionality (discounts/coupons)
- Develop Carbon Token
- Data models for AI/ML

- Develop Crowdfunding functionality
- Develop Energy Token
- Enhance network stability & security

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Business Roadmap

- Launch Pilot projects with existing customers (Slovakia & Czech)
- Validate business model with current SME adopters

- Launch in Hungary & Poland
- Commence POC for Carbon Token

- Launch in UK & Germany
- Commence POC for Crowdfunding

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Team (40 FTE)

Jan Zustiak
Founder, CEO/CTO
10 yrs Product development experience, ex co-founder home automation start-up

Parag Gogate
CRO/COO
25 yrs international customer service & operations experience

Martin Mrava
CPO
10 yrs people, IT & support services experience

Iveta Griacova
CFO
30 yrs experience in finance & venture capital funding

Ondrej Sarnecky
Head of Digital Platform
10 yrs experience in digital applications & blockchain development

Jozef Tapajna
Head of Product Development
10 yrs experience in systems engineering & energy management

Dana Rusinova
Project Manager
14 yrs experience in project management, public finance and executive roles

ADVISORY BOARD

Ing. Karol Fröhlich, DrSc
Deputy director
Slovak Academy of Sciences

Lukáš Hatala
Regional CTO for Eastern Europe
DXC.Technology

What are we looking for?

Customers/Partners

- POCs for Loyalty, Carbon, Crowdfunding and Energy Tokens
- Test and validate business model

Investors

- For second investment round
- To scale multisided marketplace across Europe
- Enhance product management and development team
- Open new markets

Contact:
Parag Gogate
gogate@agevolt.com
+44 7725652599

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AGEVOLT

www.agevolt.com/en/home-page

gogate@agevolt.com

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.

BLOCK START

BlockFrauds

Blockchain-enhanced intelligent fraud detection for the insurance industry

BLOCKSTART COHORT 3 DEMO DAY – 24TH FEBRUARY 2022

Insurance Fraud

A massive issue that affects us all...

INSURANCE INFORMATION INSTITUTE

>$40 billion

Yearly cost of fraudulent US Property & Casualty alone*

Higher Premiums

FOR ALL

Billions of the most vulnerable left unprotected

Worse Experience

Slower Service
Lower Trust

$3bn** already spent on insurance fraud detection software, **26% growth to $8bn** by 2024

* FBI estimate with Healthcare fraud estimated >$50bn in USA alone

** Marketsandmarkets report

Multiple and ever-evolving challenges

Compliant sharing would help!

MULTIPLE FRAUD TYPES

- Multiple data sources
- Sheer range and scale of data
- Time Sensitivity

RESTRICTED SHARING

- Data Protection
- Commercial sensitivities

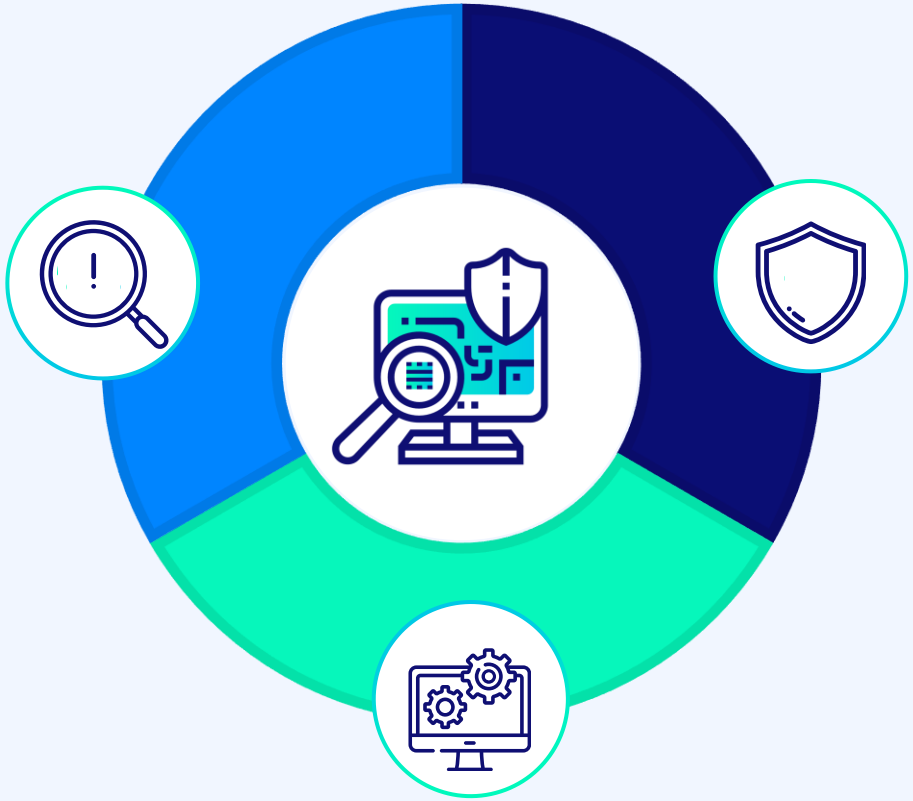
INSURER VS FRAUDSTER

- Stage of Development
- Speed of evolution
- Know the enemy

How we solve the problem...

BlockFrauds focuses on **three fundamental aspects**

BETTER FRAUD DETECTION

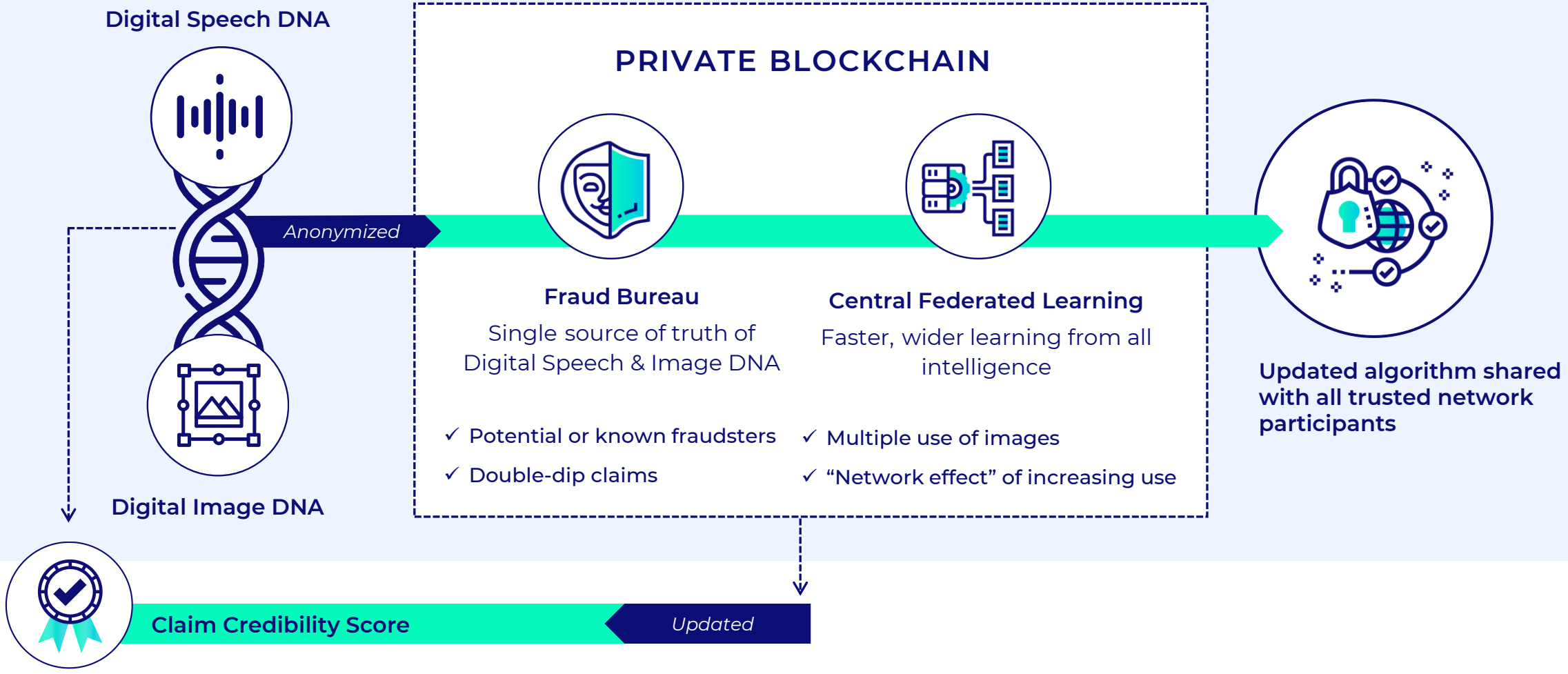


COMPLIANT SHARING

TECH – ADVANCED & EVOLVING

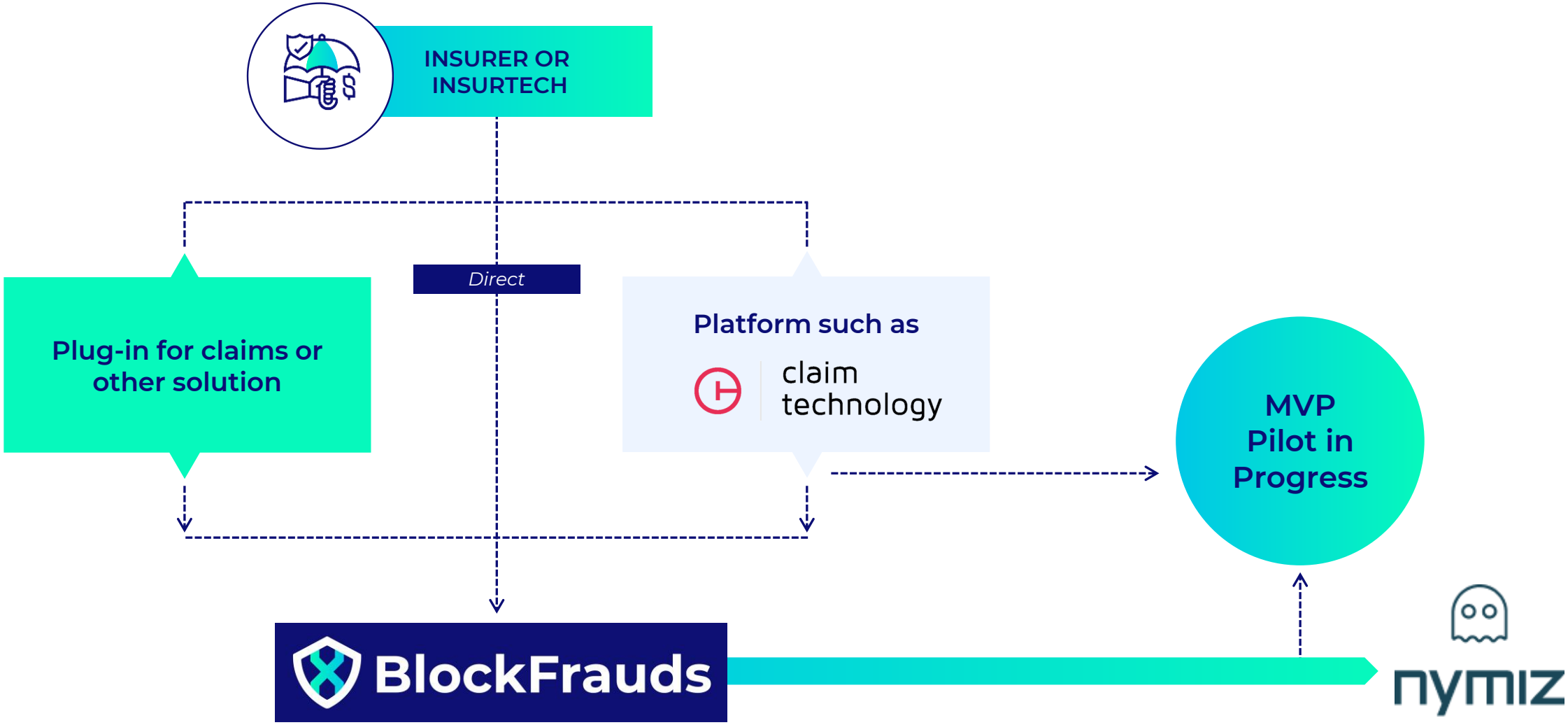
Cutting edge AI and algorithms

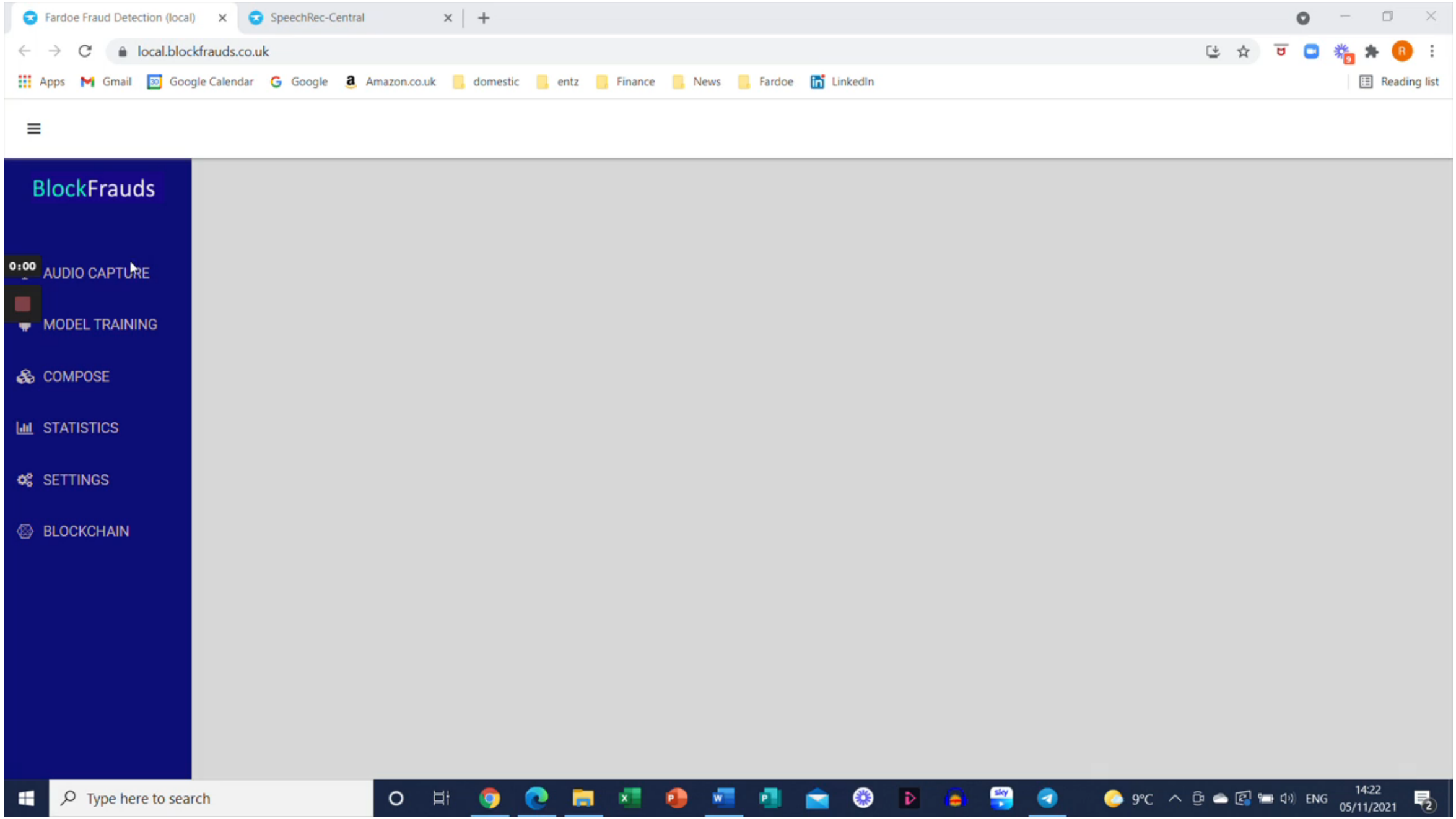
Compliant sharing of anonymized intelligence



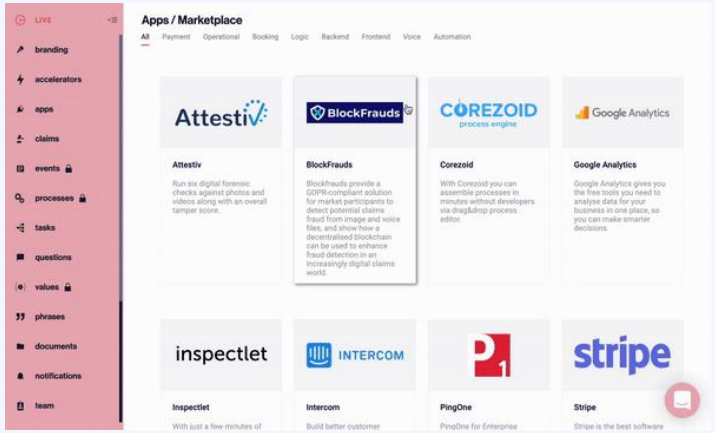
Multiple Routes for access

Pilot in Progress




Fardoe Fraud Detection (local)
SpeechRec-Central
local.blockfrauds.co.uk
Apps
Gmail
Google Calendar
Google
Amazon.co.uk
domestic
entz
Finance
News
Fardoe
LinkedIn
Reading list
BlockFrauds
0:00
AUDIO CAPTURE
MODEL TRAINING
COMPOSE
STATISTICS
SETTINGS
BLOCKCHAIN
Type here to search
9°C
ENG
14:22
05/11/2021

SME pilot testing



claim technology

nymiz

"We were delighted to be part of BlockStart and support BlockFrauds in confirming GDPR compliance, as well as discussing our own blockchain use-case potential."

- ***Oscar Villanueva, CEO, Nymiz***

KPIs achieved

Excellent base to proceed

TECHNICAL GOALS

- Integrated on platform
- Processing as intended
- TRL7 achieved

BUSINESS BENEFIT

- Image detection tests exceeded KPI targets
- Speech tests and wider business cases progressed

COMPLIANCE

- Data protection impact assessment: compliant as advised by external UK lawyer
- Nymiz wider agreement

Learnings

- GDPR / DLT / claims law interactions
- Insurance sector is evolving fast! (at last!)
- Willingness to collaborate, even remotely

Benefits

- Focus on SME user benefits
- Lends credibility which helps traction
- Great mentoring, helpful cash!

"There's a clear value proposition to working with you – let's meet to work through the details."

- ***CEO of post-revenue SME insurtech***

"Blockfrauds provide a GDPR-compliant solution for market participants to detect potential claims fraud from image and voice files, and show how a decentralised blockchain can be used to enhance fraud detection in an increasingly digital claims world."

- Michael Lewis, CEO, Claim Technology

Recognition

R3's Corda: leading enterprise blockchain

B3i blockchain consortium is supported by >21 of the largest re/insurance companies worldwide

B3i

Corda Challenge
Insurtech

- Fraud detection
- 2020 Runner-up

Outlier Ventures base camp

CV VC

Investors

claim technology

- Technology partner
- On-going commercial relationship

- Ready for wider use
- Discussions with insurtechs

Seamless, compliant, collaborative sharing

Advanced speech and image analytics

	BlockFrauds	DIGILOG	INTELLIGENT VOICE	NICE	CLAIMSHARE	FRISS	METROMILE ENTERPRISE	SHIFT	PHOTOCERT
Fraud detection software for the insurance sector	✓	✓	✓	✓	✓	✓	✓	✓	✓
AI processing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Seamless integration with existing sources	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cognitive services	✓	✓	✓	✓		✓	✓		
Advanced speech analytics	✓	✓	✓	✓					
Advanced image analytics	✓								✓
Seamless compliant sharing	✓				✓				
Collaborative federated learning	✓								

Build from pilot to production scale

March — April — May — June — July — August

TWEAKS

Pilot completed

Ecosystem and partnerships expanded, data seeded, model trained

DLT

Update plan for scale and management

Scale, introduce management

OTHER

UI/UX enhancement

User training and manuals

Fundraise and expand

Leverage pilot success and contacts made

March | April | May | June | July | August

FUNDING

Update plan

Raise 18 months runway for launch and initial scale

CLIENTS

claim technology

Marketing drive, expand user / partner network

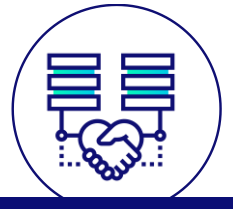
Launch

ADMIN

Legal, financial, practical and other support aspects

Scale

Established Flexible Path to Revenues



B2B SaaS

Free use to seed the data

€/use to establish

Monthly/Annual License

Value Sharing

Plug-Ins, tokens & Other

INTEGRATION SERVICES

FRAUD DETECTION TRAINING

EXTENDED FUNCTIONALITIES

Seasoned founders well placed to execute the vision

Strong team and network for support, ready to scale with plan

Soadad Farhan
Co-founder and CTO

Former CTO and Head of Innovation at Hiscox
Lloyds of London Technology Award Winner
25 + years in insurance and finance sectors globally
First hand knowledge of customers' real needs

Roanna Doe
Co-founder and CEO

Chartered Accountant (Deloittes London)
20 + years leadership in FTSE 100 globally
Strategy, M&A and General Management
New Business Development Director

STRONG TEAM AND NETWORK FOR SUPPORT

Get involved!

INSURER OR INSURTECH

- Learn more
- Partner
- Seed the data
- Train the model

INVESTORS

- Learn more
- Register pre-interest
- Take part in the raise!

TEAM AND MENTORS

- Learn more
- Register interest
- Offer support
- Look out for hiring!

HELP JOIN OUR FIGHT AGAINST INSURANCE FRAUD!

Thank you!

BlockFrauds

www.blockfrauds.co.uk
www.fardoesoftware.co.uk

roanna@fardoesoftware.co.uk
soadad@fardoesoftware.co.uk

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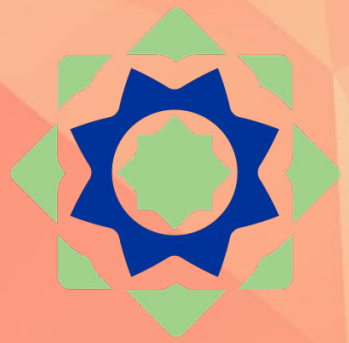
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.

BLOCK START

BLOCK START

Blockchain startups pitch

BLOCKTAC



DU

hopu
Smart Cities

brpx Bright Pixel CIVITTA F6S

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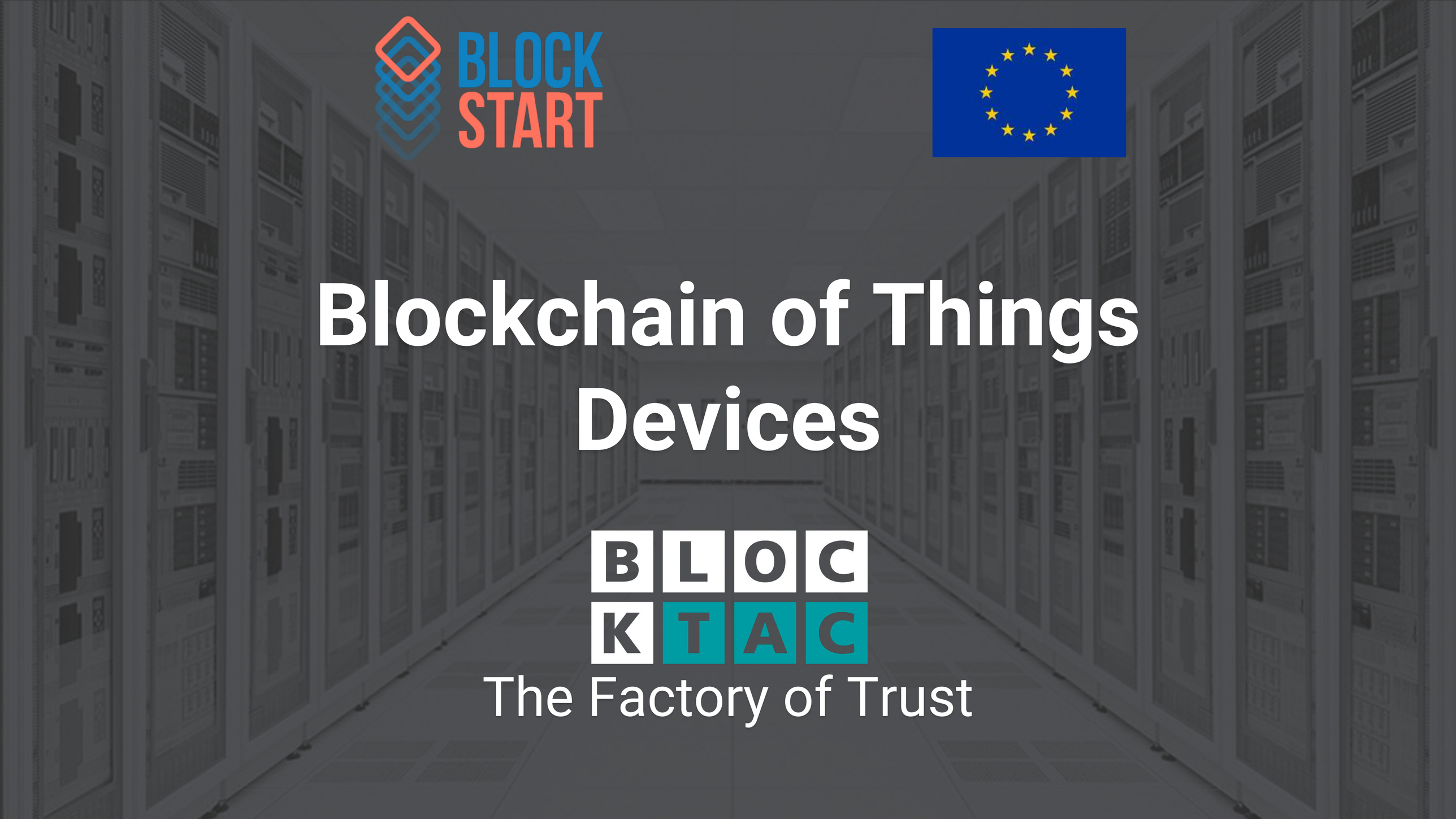


Blockchain of Things Devices

The Factory of Trust

BLOC KTAC

2019 CUATRECASAS ACELERA

2020 ACCIÓ STARTUP CAPITAL

2020 SEAL OF EXCELLENCE

2019 SEAL OF EXCELLENCE

2019 NEOTEC CDTI

OUR MISSION: Fraud Fighting!

HASHED BLOCKTAC, S.L., PRODUCES BLOCKCHAIN CERTIFICATES, DIGITAL SEALS AND BLOCKCHAIN OF THINGS DEVICES TO FIGHT FRAUD

WITH FRANCISCO GUILLÉN AS FOUNDER AND CEO, ENRIQUE LIZASO AS FOUNDER AND R&D,

JOSÉ BARCO AS CSO, MARTA ROMERO AS COO, MAIOL VALENTÍ AS CTO, ELISA SÁNCHEZ AS KAM, CRISTINA CANTÓN AS KAM,

RAÚL CASTAÑÉ AS HWD ENG, AMAIA LIZASO & RICARD CASTELLÁ IT ENG, J.M. MUNTANÉ AS UXM,

RAÚL ARAGONÉS AS HWD ADV, ANDREY KOSTYUK AS INV ADV

RESTRICTED

R

FRAUD ALERT

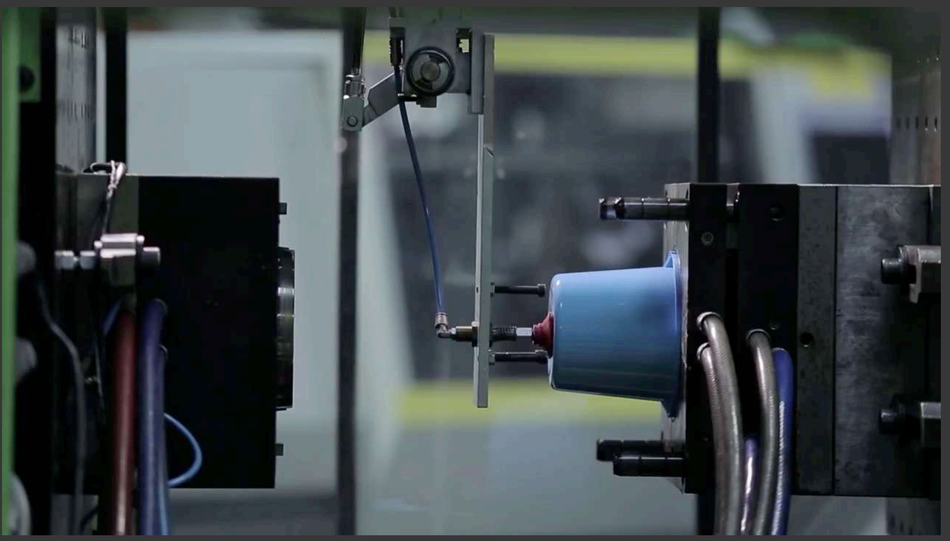
FMCGs, CERTIFICATES, ELECTIONS, ARTWORKS, ID CARDS, MEDICINES, IoT DATASETS

Under 17 Requires Accompanying Parent or Adult Guardian ®

BLOCK START · eurQuity · INVEST HORIZON · newchip · EURONEXT · European INNOVATION Council · EUREKA innovation across borders

Problems in Smart Manufacturing

IoT platforms



Services

- Artificial Intelligence
- Machine Learning
- VR &AR
- Robotics
- Automation
- Artificial Intelligence
- Machine Learning
- Additive Manufacturing

Threats

- ✓ Hacking
- ✓ Phishing
- ✓ Malware
- ✓ Espionage
- ✓ Compromised Accounts
- ✓ Data Disclosures

Breaches Impact

Cost

- ✓ $10.5 trillion /year by 2025
- ✓ 246 ransomware attacks (’17-’20)
  173 million people
  $52.88 billion
- ✓ 197 days to discover the breach
  69 days to contain it

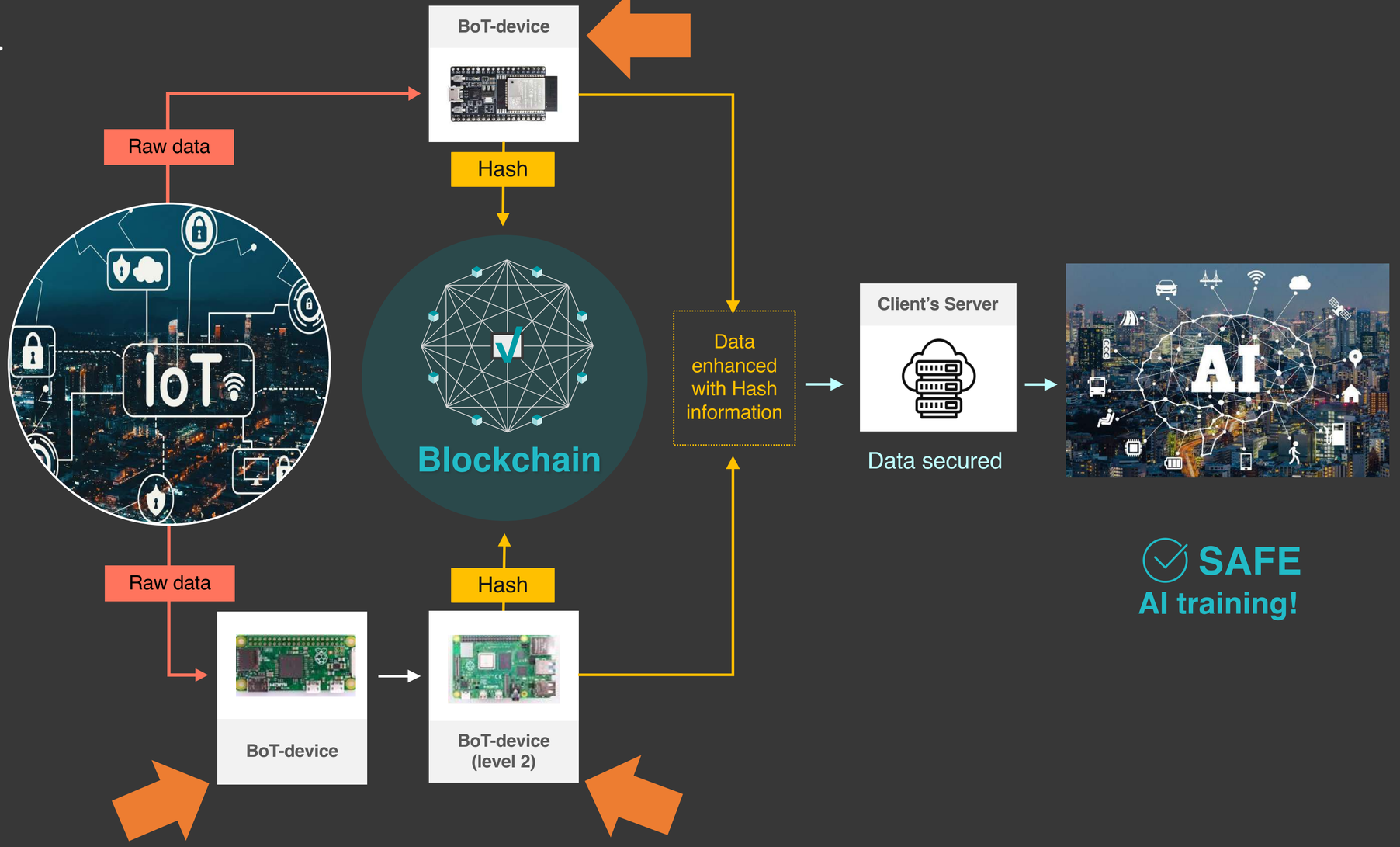
Damages

- Data destruction
- Stolen money
- Theft of IP, personal data
- Fraud
- Business disruption
- Reputational harm

USP: Blockchain of Things Devices (BoT-d)

IoT datasets secured and authenticated in blockchain.

The information becomes
- trusted and traceable,
- impossible to change,
- truly linked to its source.



Pilot Projects

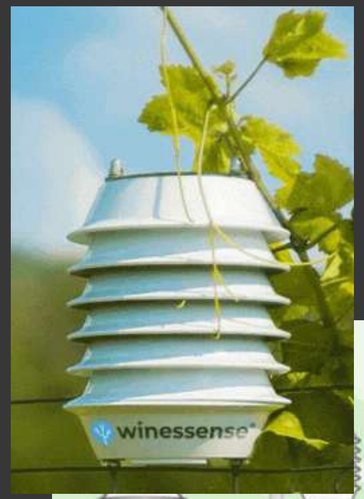
BLOCK START

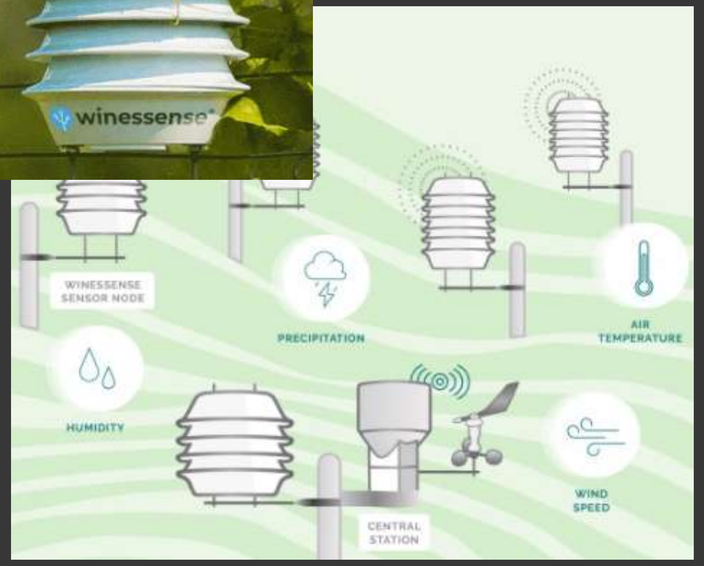
BLOCKTAC

ATFIELD TECHNOLOGIES

ASTI INDUSTRIAL PROCESS AUTOMATION

ADVANCED MICROTURBINES

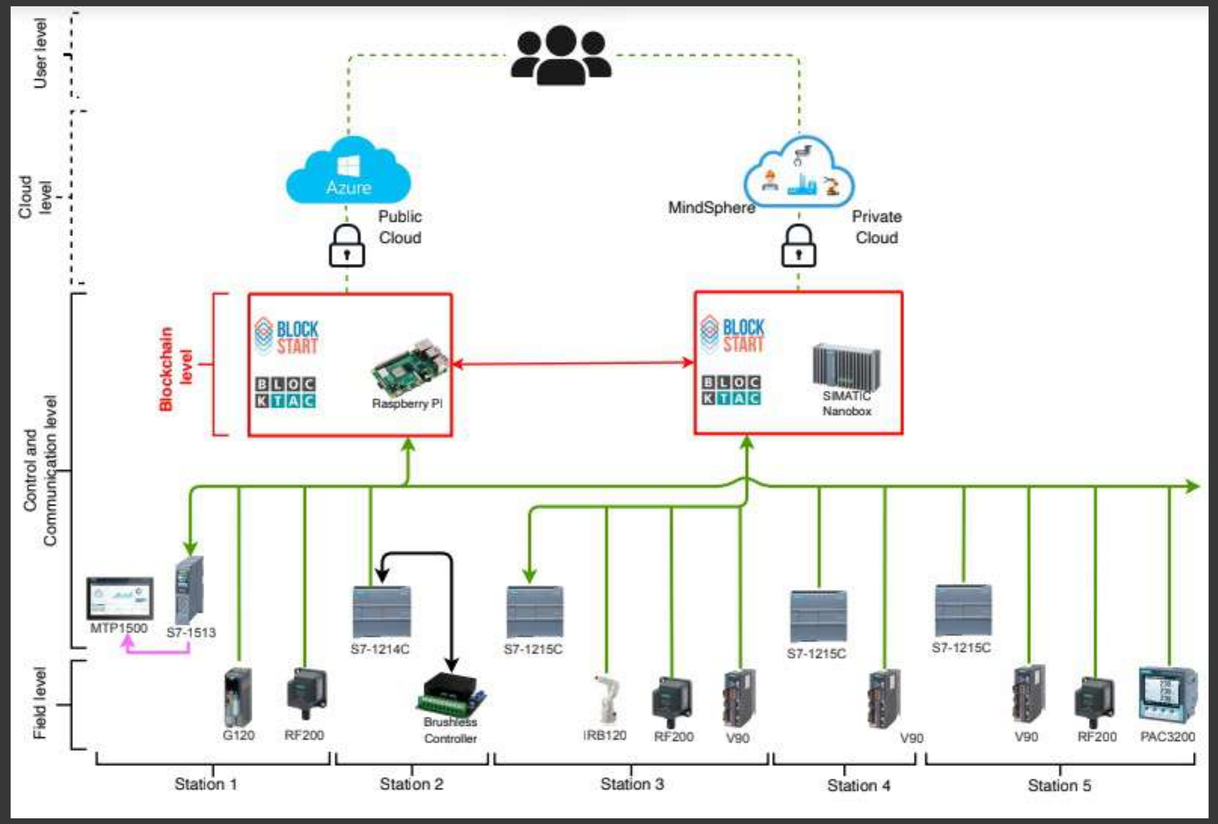




GOALS:

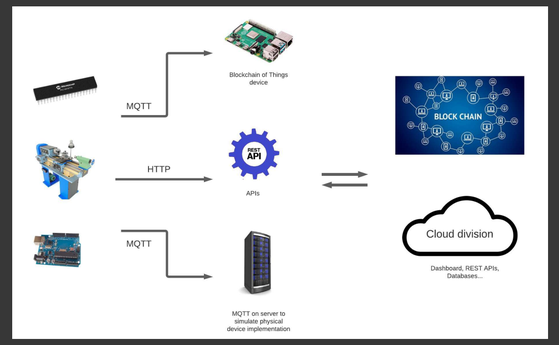
- ✓ Secure datasets
- ✓ Verify authenticity

Pilot Projects

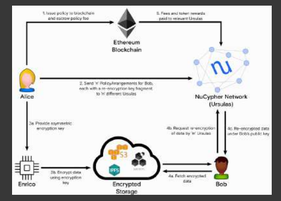


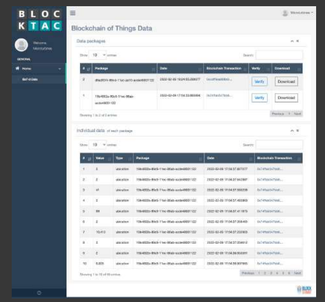
Devices

Communication



Software

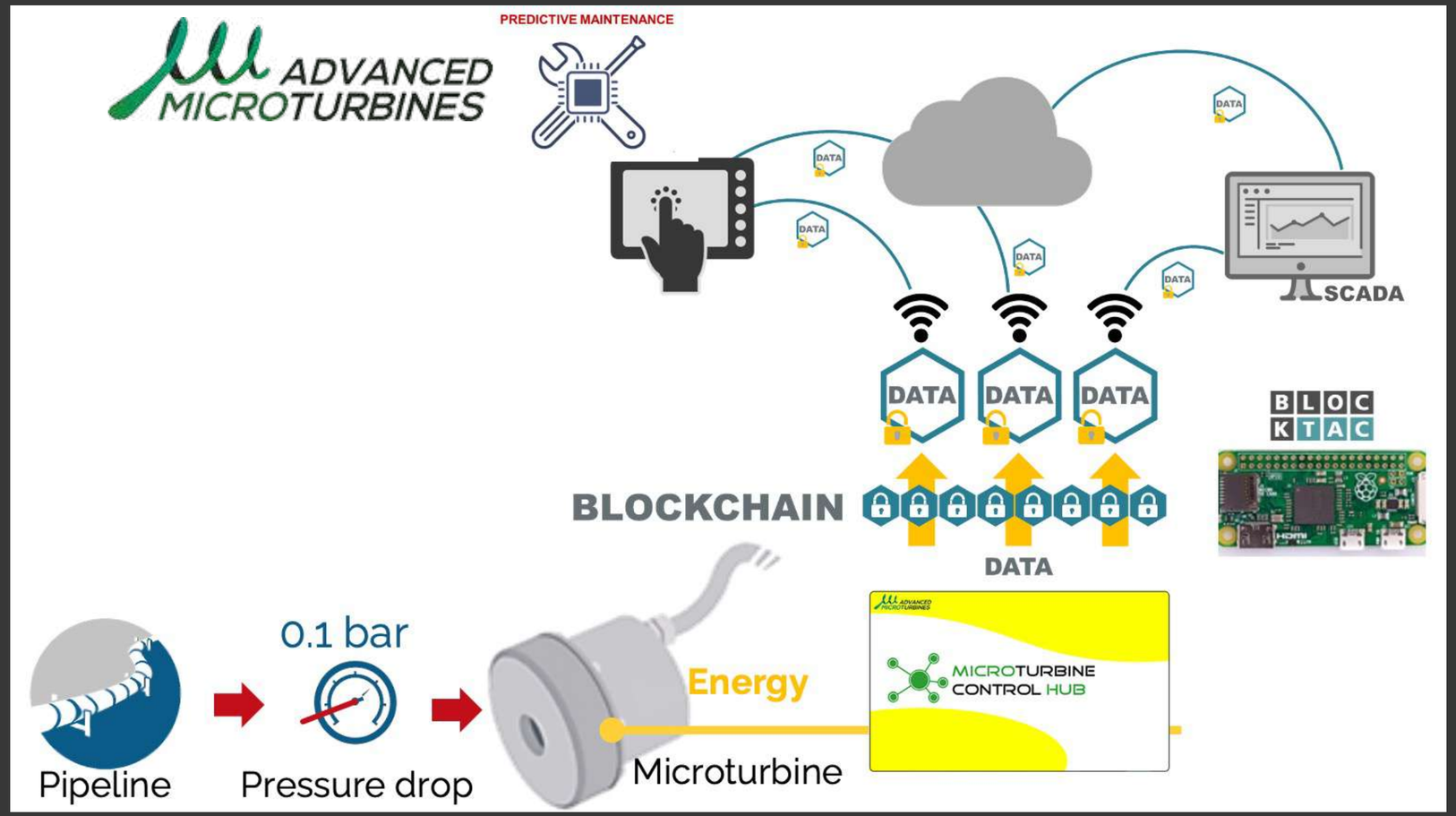




Pilot Projects

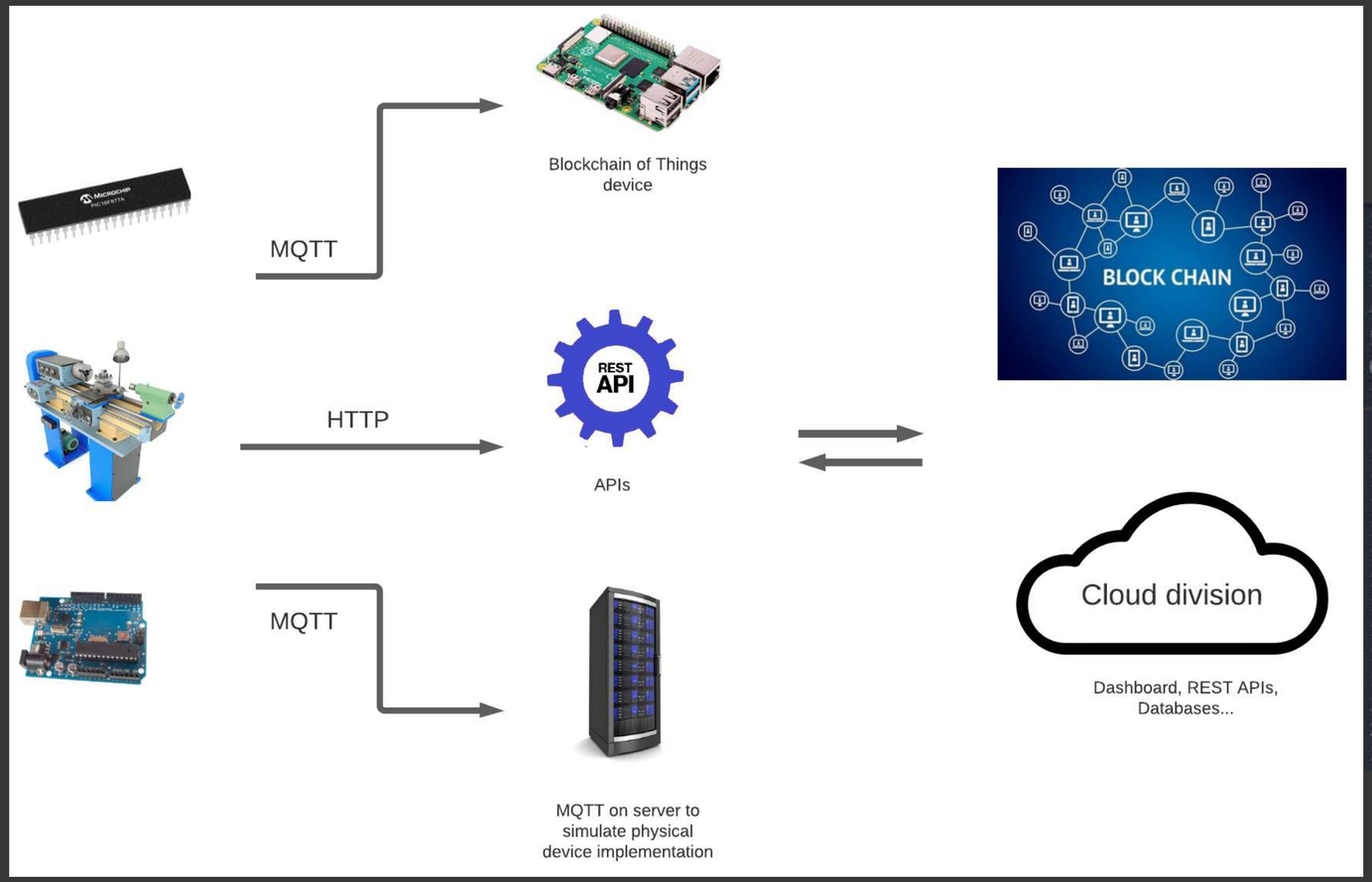
Devices

Hardware devices:
- ID blockchain protected
- High computing power
- Low size
- Low cost
- AI capabilities



Pilot Projects

Communication



- ✓ Different protocols (MQTT - R-PI, HTTP - APIs, MQTT-Server)
- ✓ 1/n to 1
- ✓ Continuous or recurring flow
- ✓ Timing at will
- ✓ No intermediate servers

```python
import paho.mqtt.client as mqtt

client = mqtt.Client()
client.username_pw_set(username="blockstartuser",passwor
client.connect("192.168.1.73", 1883, 60)
client.publish("dev-test/blockstart/microturbines", "99#
```

```python
def get_temperature():
    t = hat.get_temperature()
    return t

def get_humidity():
    h = hat.get_humidity()
    return h
```

```python
def save_data_via_api(url, headers):
    response = requests.post(url,
                             headers = headers)

    print(response
    print(response

issuer='microturb
value='31#tempera
url = "http://bot.
headers = {'conter
           'x-ac
save_data_via_api
```

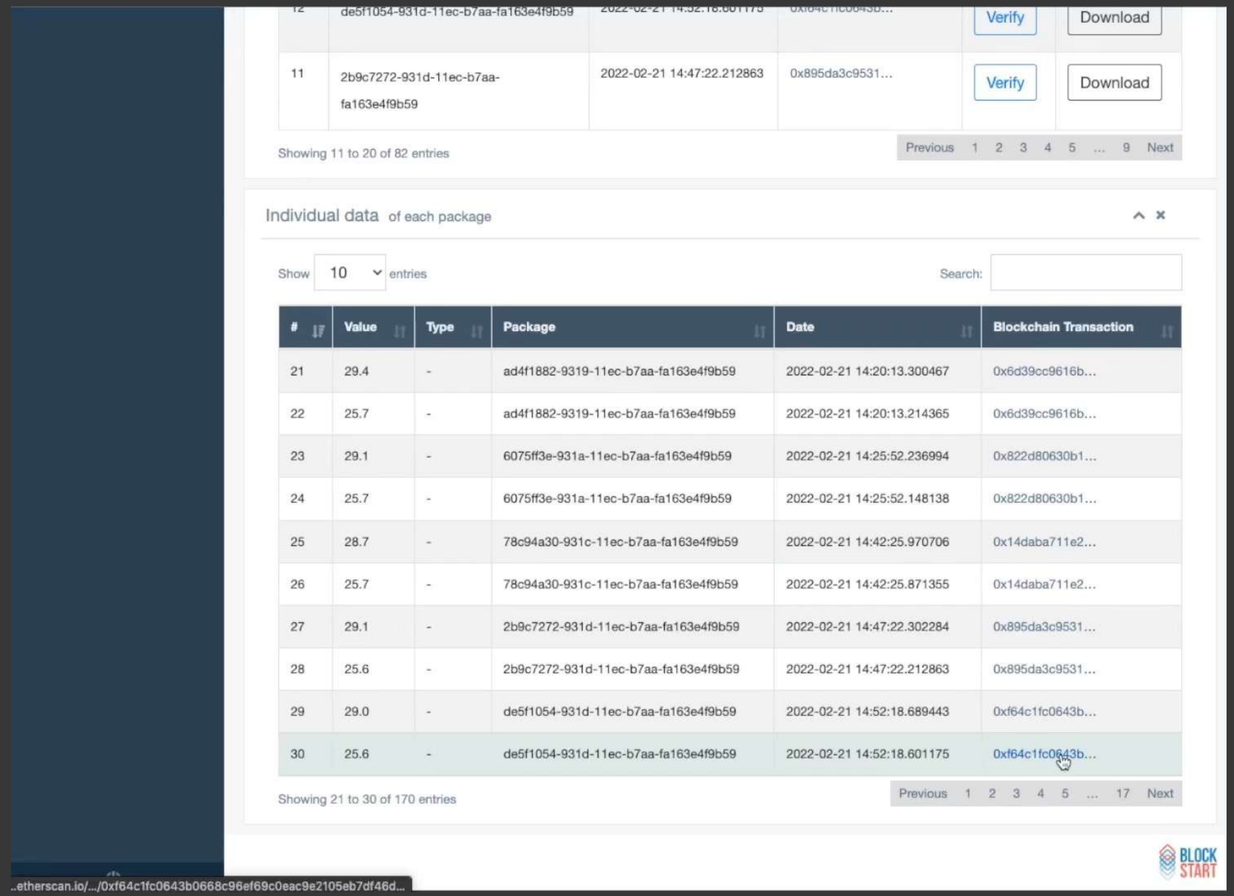
```python
if  get_balance_response>0:
    '''not empty'''
    try:
        prepared_tx = eth_bot.manager.create_transaction(conf, data)
        signed_tx = eth_bot.manager.sign_transaction(conf, prepared_tx)
        eth_bot.manager.verify_eth_transaction(conf, signed_tx, data)
        txid = eth_bot.manager.broadcast_transaction(conf, signed_tx)
        print ('OK, txid: ', txid)
        lg.INFO_log('OK, txid: ' + txid)
        return txid
    except Exception as err:
        lg.DEBUG_log('Error')
        print (err)
        return err, 'Error'
```

Pilot Projects

Software

Tools:
- ✓ Decentralized Key Management System
- ✓ APIs
- ✓ Dashboard

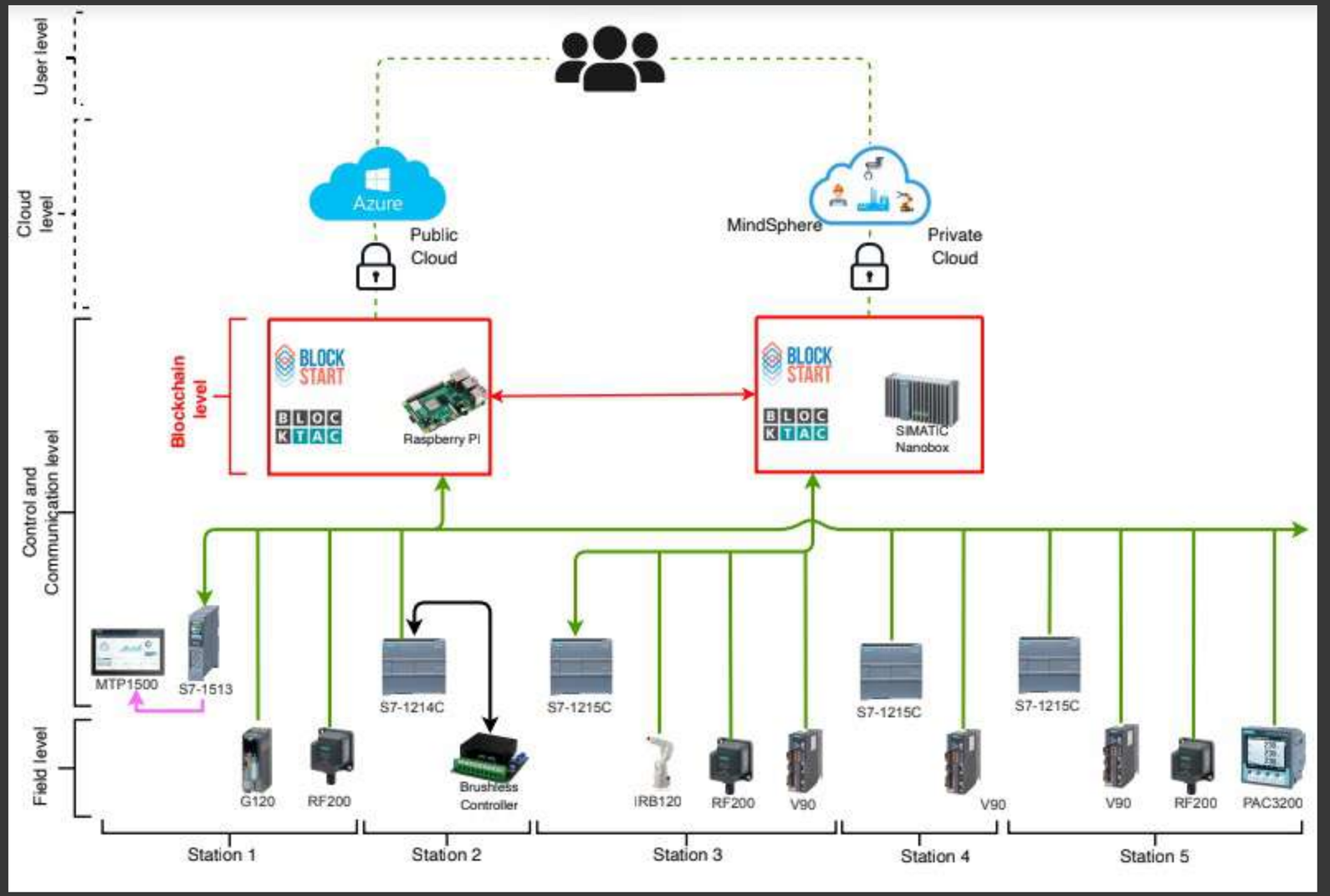
Dataset management:
- ✓ Identification
- ✓ Verification
- ✓ Access
- ✓ Audit
- ✓ Automatic processes



Pilot Projects

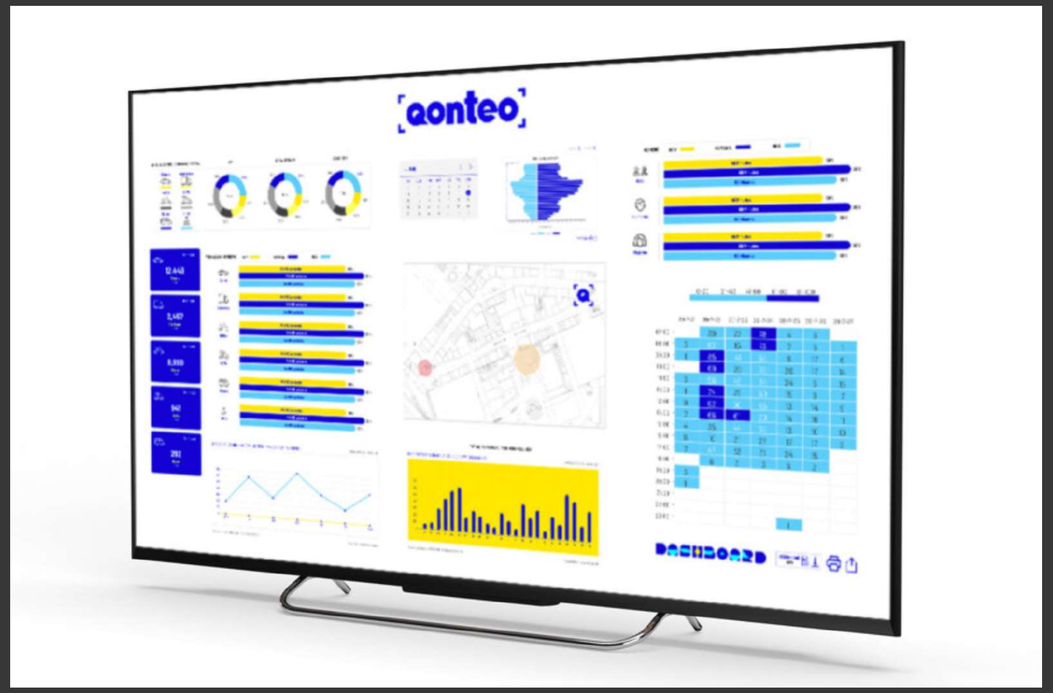
Milestones:

- ✓ Any equipment
- ✓ Any setting
- ✓ Battery-powered or plugged
- ✓ Communications networks
- ✓ Low and high latency
- ✓ Data secured and verifiable



Pilot Projects

Smart and secure analytics for Smart Cities

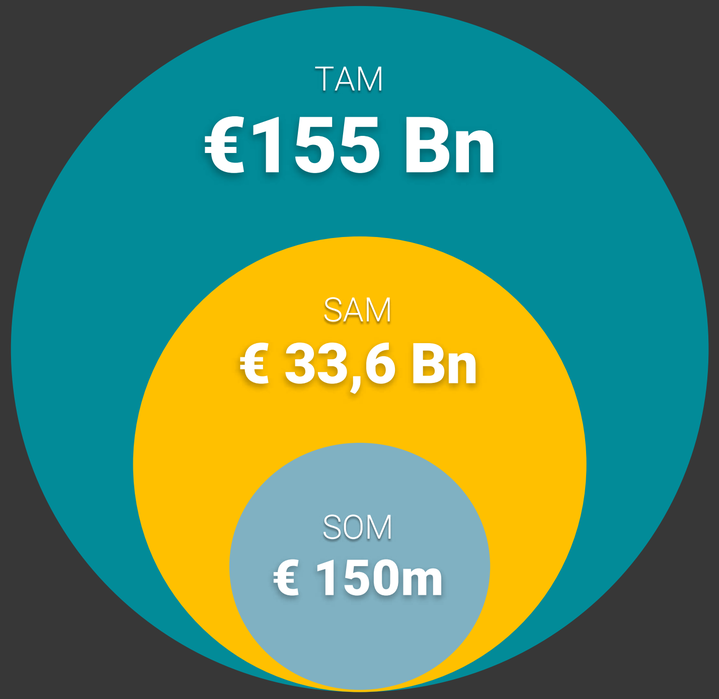


- ✓ 4 Cities
- ✓ 3 Countries

eHealth data Secured & Trusted

- ✓ 30 Hospitals
- ✓ 5 Countries

Market



Intended
IoT Industries

(2021, € Bn)	TOTAL		
	Other	US	EU
Smart Homes	70,5	19,3	16,2
Energy	17,6	4,8	4,1
Retail	12,8	3,5	2,9
Smart Building	11,9	3,2	2,7
Healthcare	15,5	4,2	3,6
Smart Manufacturing	30,9	8,4	7,1
Automotive	33,8	9,2	7,8
Smart Cities	115,1	31,4	26,5

IoT Cybersecurity
growing @ 22%+

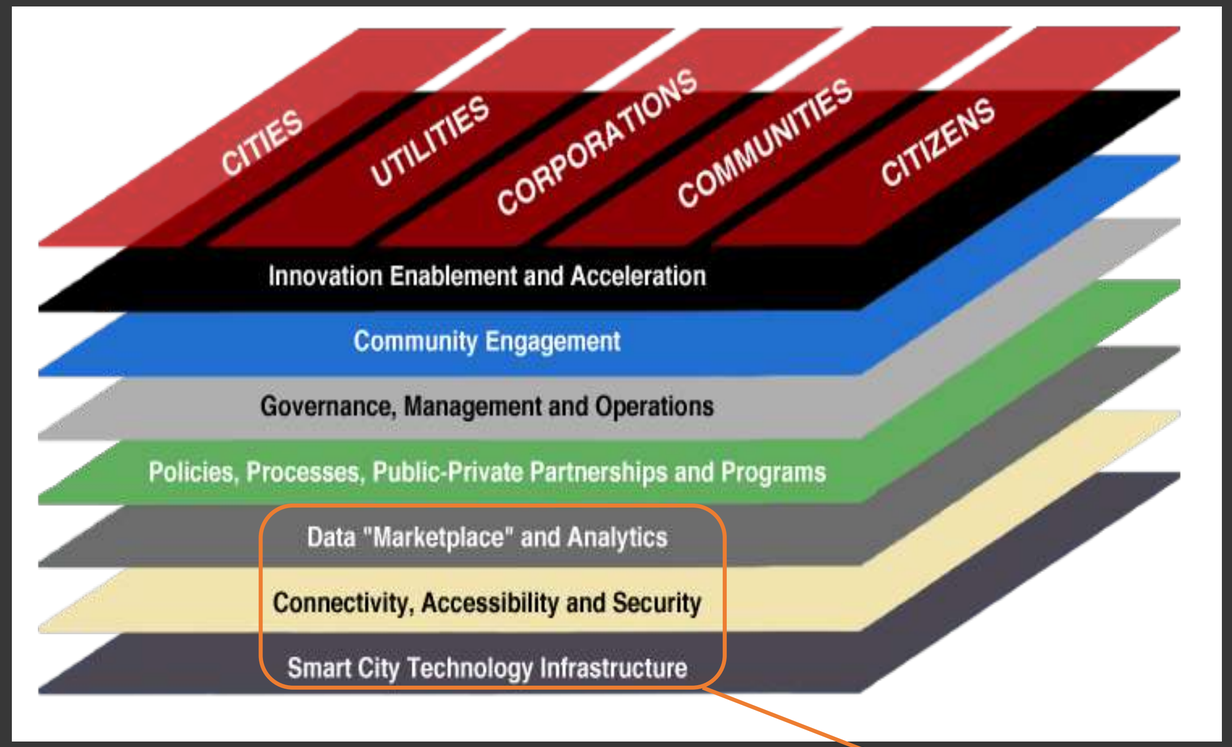
“ Aiming only at
IoT Smart Cities and
Manufacturing market ”

Competitors

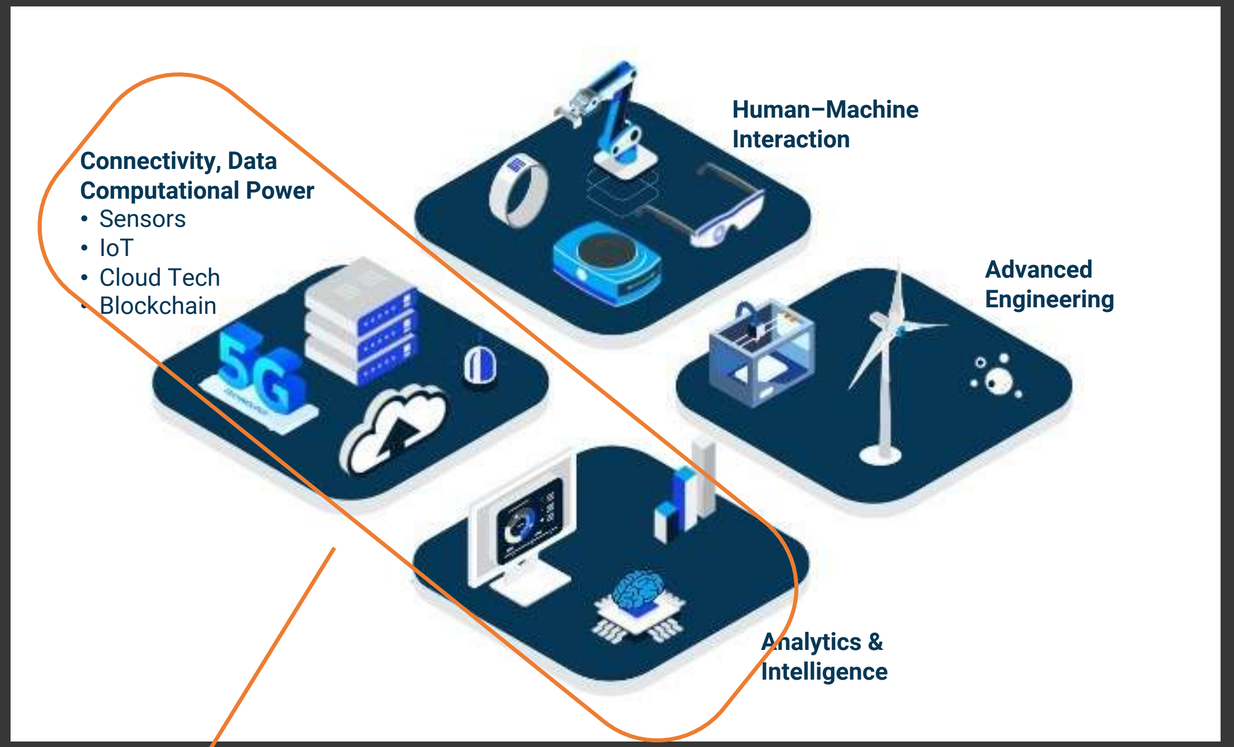
	BLOCKTAC	THALES		SAMSUNG Exynos i		
	BoT-d	Encrypting data in origin	Encrypting data in Smartphones	Encrypting data in PC devices	Dedicated blockchain data-loggers	Dedicated blockchain applications
Computing power	🟢	🔴	🟡	🟢	🟢	🟢
Hacking protection	🟢	🔴	🔴	🔴	🟢	🟢
Authenticity	🟢	🔴	🔴	🔴	🟡	🟡
Low Cost	🟢	🟡	🔴	🔴	🔴	🔴
Compatibility	🟢	🟢	🟡	🔴	🟢	🟢
Small Size	🟢	🟡	🟡	🟡	🔴	🟡
Functionality	🟢	🟡	🟡	🟡	🟡	🟢

Business model

Smart Cities Value Chain



Smart Industries Value Chain

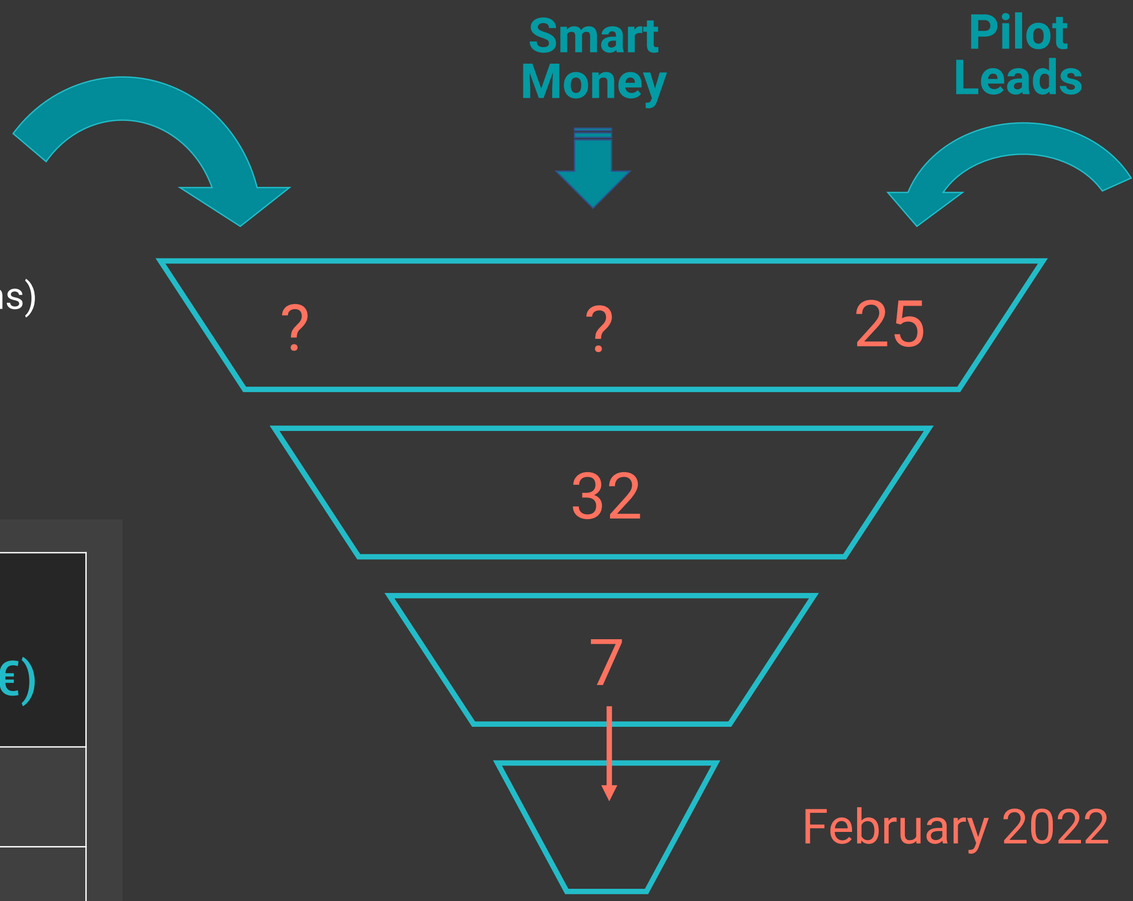


BoT Devices

Business model

Client Sources

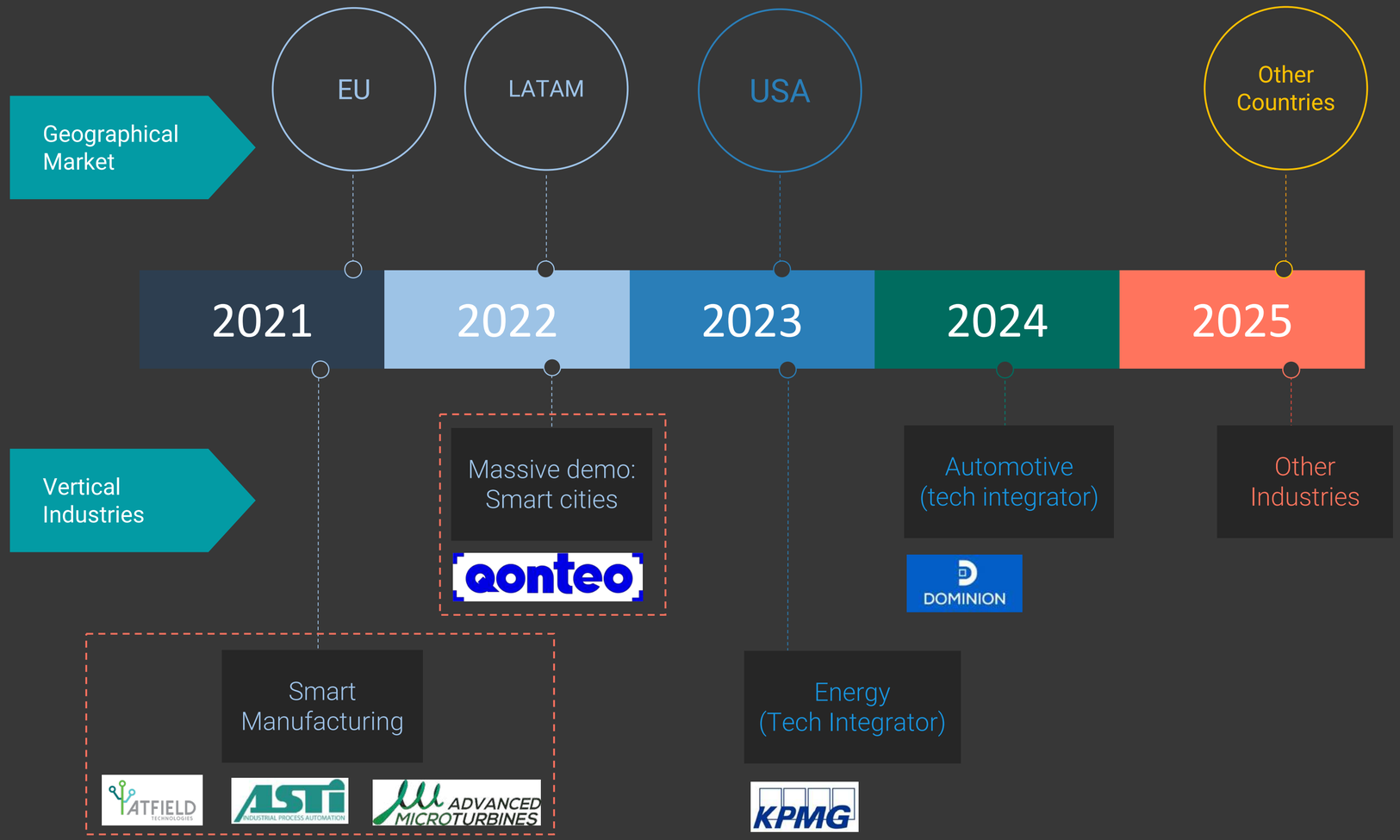
- ✓ System Integrators (IBM, Accenture, Siemens)
- ✓ Network Providers (Cisco, Verizon, Ericsson, AT&T)
- ✓ Product Vendors (Eaton, Honeywell, ABB, Schneider, Siemens)
- ✓ Service Providers (IBM, Serco, SAIC, Infosys)



Licenses	License fee	Per Device fee (€)	Per GB secured fee (€)
Silver	€ 55K	0.2 €	0.01 €
Gold	€ 175K	0.1 €	0.005 €
Platinum	€ 235K	0.05 €	0.0025 €

February 2022

Marketing & Sales Strategy



Team

Pilot Phase

Post Pilot Phase

FRANCISCO GUILLÉN
CEO

MARTA ROMERO
COO

MAIOL VALENTÍ
CTO

ENRIQUE LIZASO
R&D

RAUL CASTAÑÉ
Hardware Engineer

RAUL ARAGONÉS
Hardware ADVISOR

ELISA SÁNCHEZ
Account Manager

CRISTINA CANTÓN
Account Manager

RICARD CASTELLÁ
IT Engineer

J. Mª MUNTANÉ
Webmaster

AMAIA LIZASO
IT Engineer

ANDREI KOSTYUK
Investor advisor

BlockTac Experience

Expertise

Brand Protection &
Consumer Engagement

- FMCGs
- Id Cards
- Pharma
- Luxury Goods
- Artworks
- On-line voting

⟶ Born in 2018

⟶ **€ 1.1 m In founding**

ISO
Member, Blockchain Workgroups

Telefónica
INTERNET OF THINGS
Member, IoT

INVEST HORIZON

newchip

EURONEXT

Anti-Fraud

Official elections in CNC Bolivia
Wining proposal against USA competitors

Prizes

CUATRECASAS ACELERA

expoliva

GSMA MWC Barcelona

Awards

Digital Seals
Phase 2.

European Commission
Horizon 2020
European Union funding for Research & Innovation
SEAL OF EXCELLENCE

Blockchain of Things
Phase 2.

European Commission
Horizon 2020
European Union funding for Research & Innovation
SEAL OF EXCELLENCE

Digital Seals
Phase 1.

HORIZON 2020

Digital Seals
€77K

r3. corda

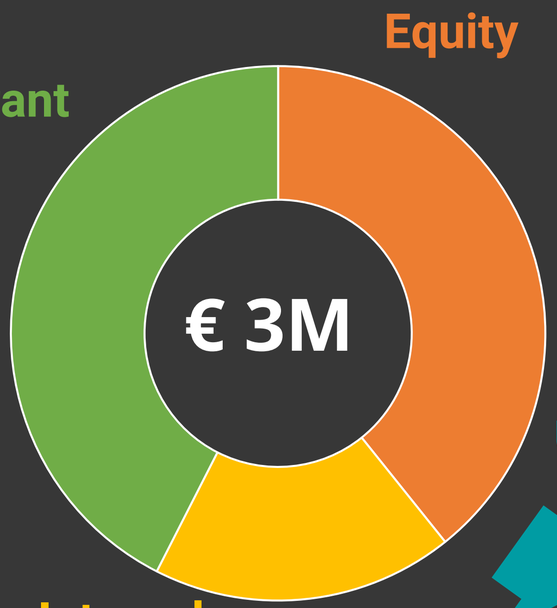
BLOCK START

BoT
€250K

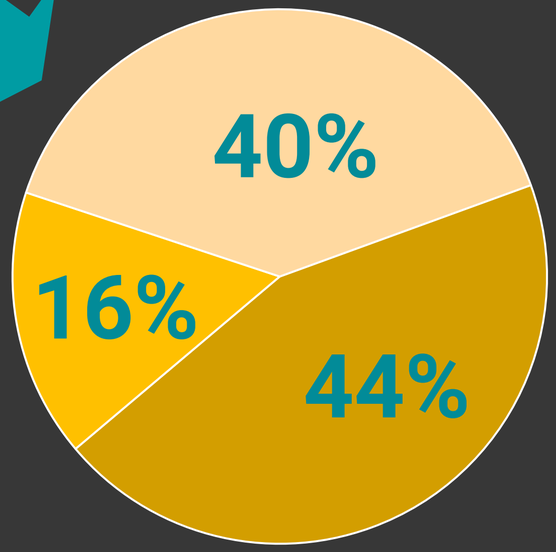
CDTI INICIATIVA neotec

DEEP TECH
hello tomorrow
PIONEERS

BoT-d case



Use of funds



Investments R&D
- Biometric Blockchain
- Federated AI

Operations

Marketing & Sales:
- Europe
- USA
- Colombia
- Ecuador
- Perú

In five years:
- ✓ 8 industries
- ✓ 8 countries
- ✓ 500 clients

For your peace of mind...

BLOCK TAC

BLOCK START

Francisco Guillén
CEO BlockTac
fguillen@blocktac.com

Comunitaria.com

BLOCK START

"Rooftop that feeds"

THE PROBLEM

Comunitaria

The cycle of poverty perpetuates itself

Capital inflow

Barrio de "Los Pajaritos", one of the two poorest neighborhoods in Spain, both in Seville.

Capital outflow

ROOFTOPS THAT FEEDS

Comunitaria

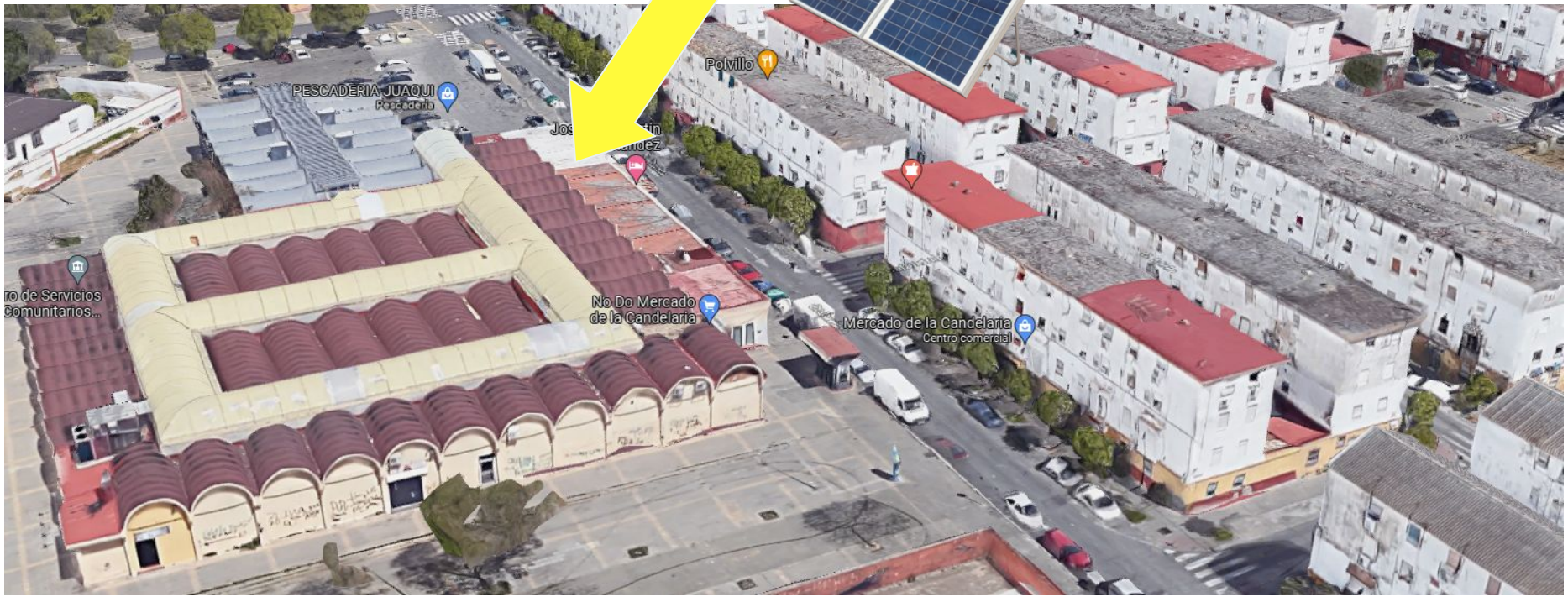
Use solar energy from deprived neighborhoods to buy food at local shops.

unicef

LAB | Innovación Comité Español

The solar energy produced by neighbours is sold to local shops,

Comunitaria



Comunitaria

local shops pay it with a Community Currency

(an ERC-20 sidechain token)

Comunitaria

Neighbours use the Community Currency to buy at local shops

As simple as installing solar panels and receive a Community Currency

Buy in local shops with your Community Currency

Expected payment method

ILLA (fuse)

Description	Qty	Unit price	Discount	Tax	Amount
Pago energía consumida enero 2020	5	€10.00	/	% 10	€55.00

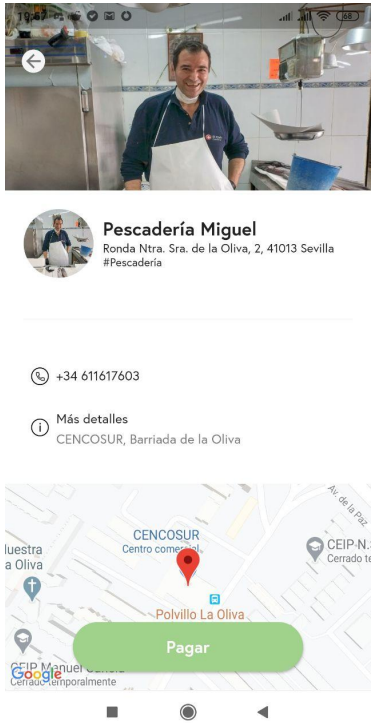
Amount without tax	€50.00
Total Tax amount	€5.00
Total amount	€55.00
Total amount crypto	ILLA 55.00
Due	**€0.00**

Why the local commerce trust us?

Channel donations to local shops

Comunitaria

1) We channel donations (currently Caritas.org and private) for pre-purchases of fresh products at designated local shops



2) Vulnerable families receive our Community Currency on their mobile phone to redeem fresh products from these local shops

Food banks

✗ Only non perishable food

Pre-paid debit cards

✗ Money goes to big supermarkets chains

Food paper vouchers

✗ Costly handling and management

Comunitaria.com

- ✓ Fresh food
- ✓ Local stock
- ✓ Local benefit
- ✓ Easy handling
- ✓ Low cost
- ✓ Traceable
- ✓ Secure

Comunitaria

- Dashboard
- Shops
- Products
- Done
- Freeze wallets
- Map
- Support
- SDGs Goals

🔍Search by wallet address / transaction hash

We measure and certify the impact

💁 We currently help 100 families
We want to reach 1,200 in July 2022

We have provided more than 1,500 kg of fresh food, we want to reach 10 tons.

We have provided 3 stable jobs, we want to reach 40

We want to reach 100 energy-rehabilitated homeowners' communities

Multiplication of local consumption up to 35% of income (food + electricity).

We want to reduce 6,000 tons of CO2

Communitaria: technology

- Multiplatform mobile application (for iOS and Android).
- Open source blockchain compatible with Ethereum Virtual Machine (sidechain). All current DeFi and Dapp development is compatible (swap, yield, lending, insurance, DAOs….).
- Comunitaria obtains commissions from transactions as a node.
- Solar production metering using IOTA streams.

Our proposal to entities

1) Comunidades Energéticas are formed

Comunitaria

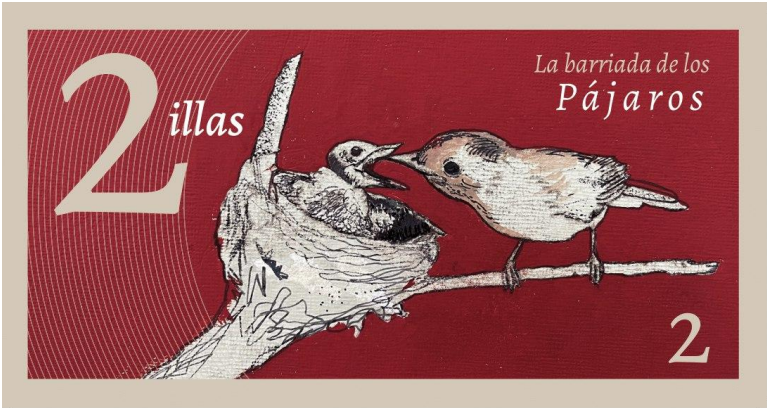
2) Solar cells are bought

3) Impacts are measured:

- Fresh food rations provided
- Affordable renewable energy
- Generate new local jobs
- Measure CO2 reduction

Cultural integration

- Locals choose the community currency denomination (like our ILLA).
- We'll also issue printed notes/bills "banknotes" (for those without mobile phone).



Design donated by NFT artist Javier Arrés. https://makersplace.com/javierarres/

Notes/bills "banknotes" will be auctioned as Nfts and the proceeds will be donated to the neighbourhood

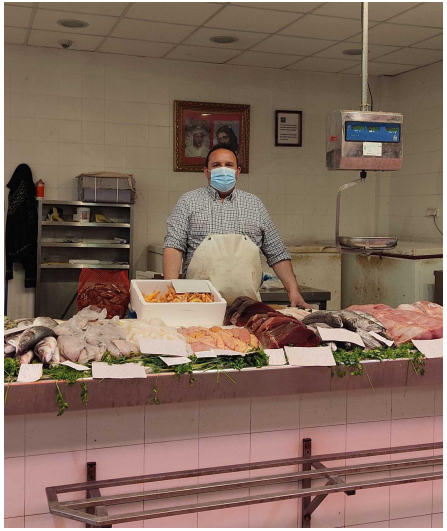
Cuerva*

cactus 2e®
EFICIENCIA ENERGÉTICA

BLOCK START

thunder hunter.
busca tu energía

TuComunidadAhorra



3 BARRIOS
ASOCIACIÓN HUMANITARIA Y SOCIAL

Comunitaria: awards & collaboration

- UNICEF winners of “disruptive social impact projects” July 2021.
- B4H Blockchain for Humanity winner 2020.
- Blockis.eu H2020 grant.
- NGI Ledger H2020 grant.
- Collaboration: Emvisesa, AAE, divaircity.eu

unicef

LAB | Innovación Comité Español

blockchain for humanity

Block.IS

NGI LEDGER

Comunitaria.com

Miguel Prados, CEO
MBA, Msc Engineering
Ethical finance
(Social Banking Institute)
MIT AI, Oxford Blockchain

Luciano Silvi, CTO
Former Space Agency
Software Research
MSc in Computer Science,
AI, Blockchain

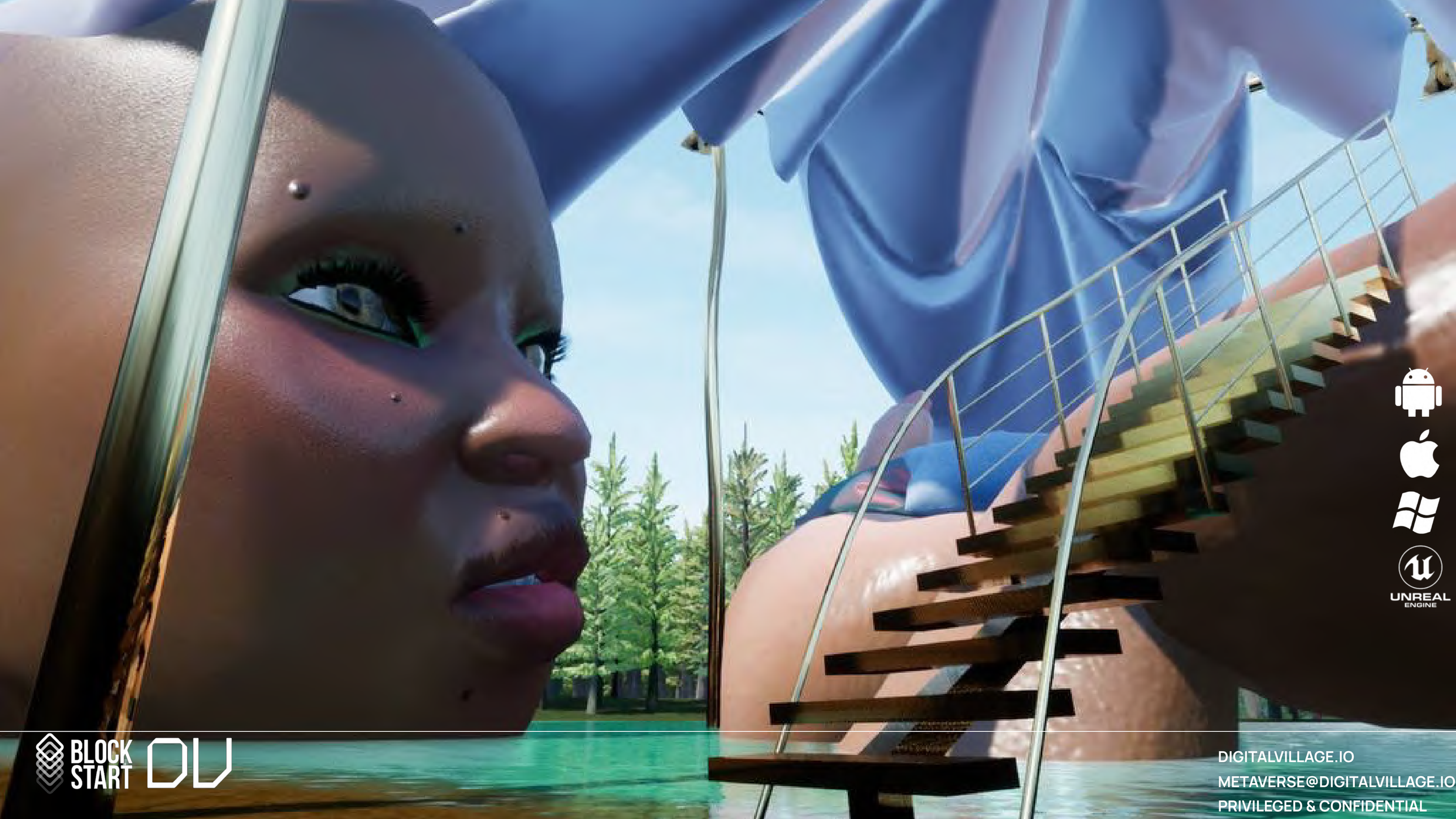
Charo Gómez
Faculty of Economics US.es
Research on Economy
for the Common Good

Carmen Morillas
Faculty of Economics US.es
Research on Economy
for the Common Good

Luciana Vaggione
Frontend
EXPERIENCE

Adriana Cubel
MSc Marketing and
Social Media

Elena Silva
Operations and
Social Impact



BLOCK START DV

DIGITALVILLAGE.IO
METAVERSE@DIGITALVILLAGE.IO
PRIVILEGED & CONFIDENTIAL

RECOGNIZED GLOBALLY REACHING **417 MILLION GEN Z** AUDIENCE

Bloomberg ELLE BUSINESS INSIDER

NonFungible Forbes VOGUE

Harper's BAZAAR BOF WWD

EVELYN MORA
"THE TOP 30 MOST INFLUENTIAL PEOPLE IN THE METAVERSE"
–READWRITE.COM

ABOUT

The Digital Village's mission is to redesign our social understanding, and sustainable and ethical integration of Web3 in Art, Design, and our Culture.

The DV is a real-time Sustainability focused MMO Multiverse, connected to its Social Marketplace, which merges the physical and digital world through its own social blockchain technology, the Village Protocol interface enabling interactive transparency, security, and traceability for digital assets.

The Village Protocol enables users to connect environments and assets connecting physical and digital through their digital footprints applying human-centric design enabling seamless real-time access and utility.

PRODUCTS

THE MARKETPLACE

Mint NFTs
Crowdfunded projects (auctions)
Exchange of assets
Export of assets to the Metaverse

With the in-game currency and tokenomics, brands can engage with their communities - creating a direct, measurable impact around economic, social, cultural, and environmental sustainability.

THE MULTIVERSE

The DV Multiverse is built on Unreal Engine
DV COLONIES
DV MAIN LAND

The DV's virtual multiverse visualizes and immerses with blockchain technologies in real-time through the Village Protocol social gate connecting the Marketplace with the DV Multiverse enabling true interoperability. The DV is a Blockchain agnostic, which enables scalability and utility for NFTs.

← Go back

1 /2

Setup the Auction

Fill up all the details to start the auction on digital village marketplace

Select your Blockchain

Select on which chain you want your NFTs to get minted, after, that NFT will stay on that blockchain

Blockchain

- Ethereum (selected)
- VeChain

Confirm Blockchain

Marketplace Discover Meet the creators

Join us on Discord

Sign out

Upload your artwork

Drag and drop files here, or

Supported file formats: JPEG, PNG

Selected Item will be Minted as NFT

Upload Artwork

Upload 3d Artwork

Supported file formats: FBX, OBJ

This file will be used to review your artwork by admin team

Upload 3D Artwork

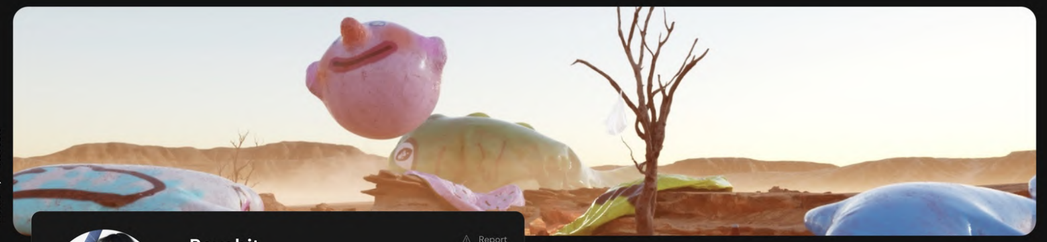
Embed 3D artwork link

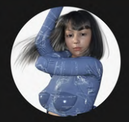
https:// Add link here (Optional)

DV

Marketplace Discover Meet the Creators Start a Project

Home > Revobit





Revobit

Report

REVOBIT aims to became a support in the NTF world among artists, collectors and art lovers. @SAMUELE06029067(Twitter).

121 Followers

Follow

Value of Artworks
1500 DVC
3000 USD

Community Participants
1.2k

Raised in Crowdfunding
1.45M

Created 18 Collectibles 0 On Sale 0 Liked 0 Activity 0

Created

+ New Project

Moon Dog Shirt and Traditional Suit

Marleah Eagleston
Artist

Pending Approval

START AUCTION

START CROWDFUNDING

Colorful Kongz #741 - Limited Edition

Marleah Eagleston
Artist

Approved

Spell Caster Card: Energy Magic

Marleah Eagleston
Artist

Not Approved

Resubmit

Moon Dog Shirt and Traditional Suit

Marleah Eagleston
Artist

$ 12,562
pledged of $ 158,000 goal

10 Days Left

434

Moon Dog Shirt and Traditional Suit

Marleah Eagleston
Artist

$ 12,562 HIGHEST BID

10 Days Left

34

PROBLEMS

SOCIAL MEDIA

SUSTAINABILITY

BLOCKCHAIN

SOLUTION

SPATIAL SOME + AGENCY

CURATION OF TECH & HUMAN-CENTRIC DESIGN

VILLAGE PROTOCOL

teenVOGUE

"I ENTERED THE DIGITAL VILLAGE AS AN AVATAR!"- K.BATEMAN

Ecosystem

The DV users on the marketplace grew 900% in December 2021

THE DV COIN

1.PHYGITAL

2.INTERACTIVE

3.CLIMATE CHANGE / COMMUNITY EFFORT

4. EXPERIMENTAL ECONOMY

FEEDBACK

Digital Village collaborated with four SME adopters, all with a wide range of expertise and solutions.

FEEDBACK

"Although considering time aspects, - a well curated and promising future collaboration is a big, likely possibility."

"Teaming up in Blockstart had us seeing our product in new dimensions, seeing new possibilities, solutions and new costumer bases."

SME adopters

Harddiskmuseum
Binare
D-visor
Vertliner

-KPIs

Digital Village agreed on KPIs with all SMEs. This includes roadmaps and strategies for each adopter.

LESSONS LEARNED

- The unlikeliest matches can lead to the strongest results and broadened visions.

- Diving deeper into other industries' challenges enables companies to find solutions outside their "box".

- New perspectives and shared visions are incredibly important for a nuanced picture.

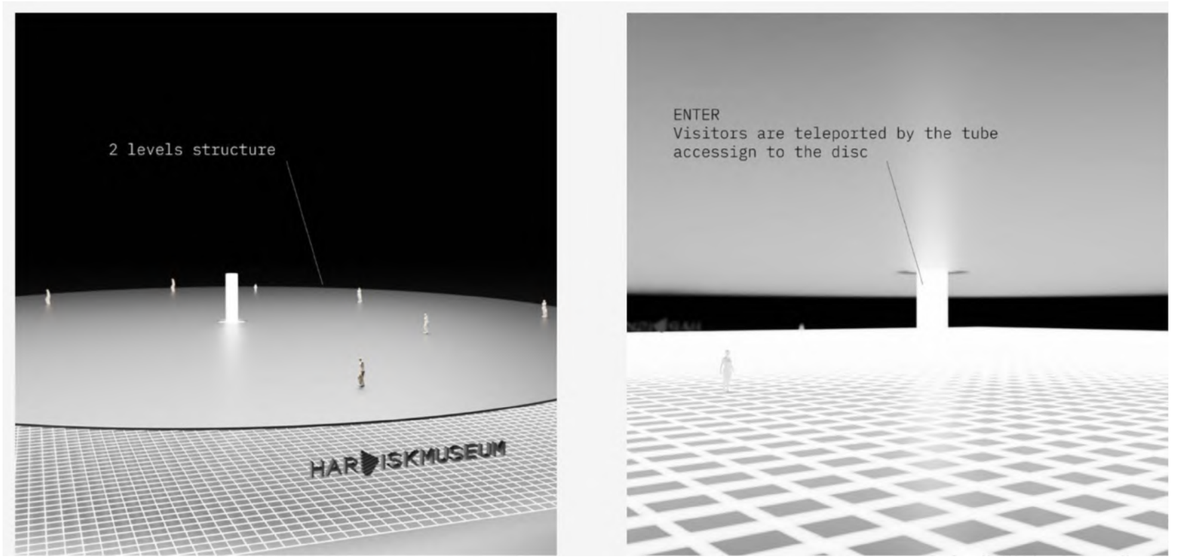
DV's BlockStart journey

Harddiskmuseum

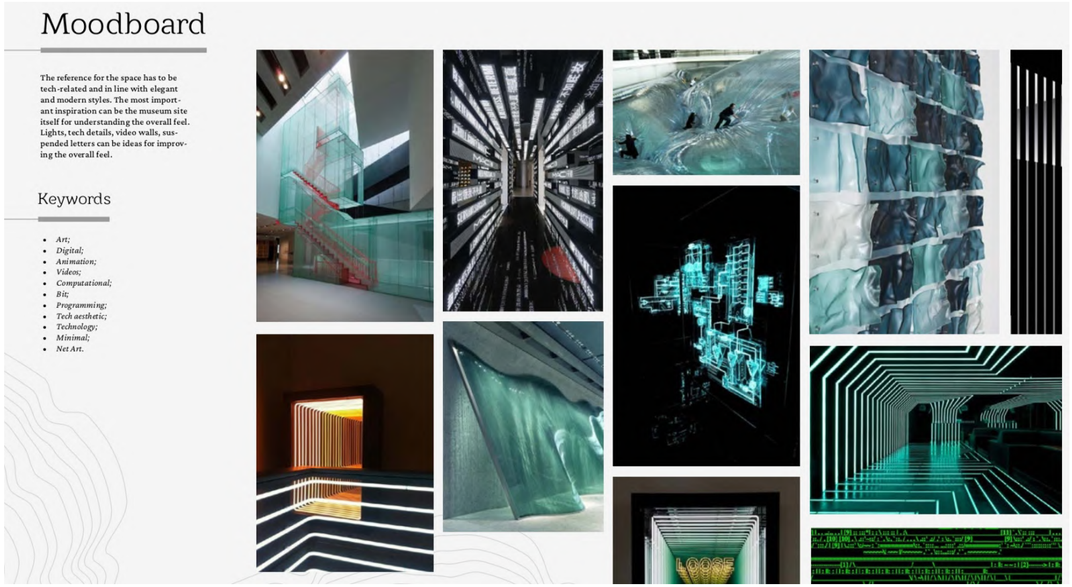
- A unique art repository that answers the questions arising from the new temporal codes of humanity, artistic production, and cultural heritage.

KPIs

- A museum will be built on the DV, based on HDM's preferences
- Ten various artists will be exhibiting in the museum
- The DV team will build the museum on Unreal Engine, in Zone 3, based on the sketches and references provided
- Each artist's 3D files/videos will be uploaded on the DV Marketplace and connected to the HDM museum (Metaverse)
- The goal is to enable a virtual museum for everyone, with no limitations in terms of imagination or creativity.



HDM's reference/sketch



HARDDISKMUSEUM

Binare

- Automating IoT Firmware Cybersecurity.

KPIs

- NEW CYBER SECURITY STRATEGIES + IoT
- Ethical aspect (utility and ownership) in terms of NFTs/assets.

D-Visor

- *A smart security platform for public, digital, physical, and social spaces.*

KPIs

- Moving D-Visor services towards digital/hybrid events.
- Connecting physical events with digital virtual worlds.
- Long-term community activation.
- Collaborative Data collection and use-cases.

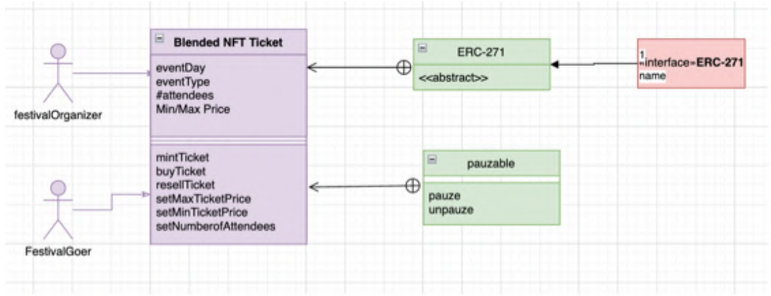


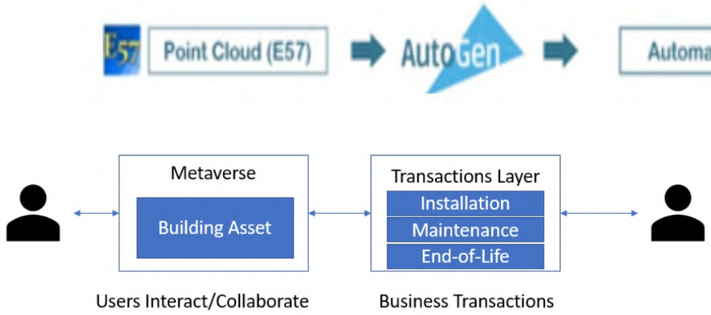
Figure 2 Hybrid NFT Tickets

Vertliner

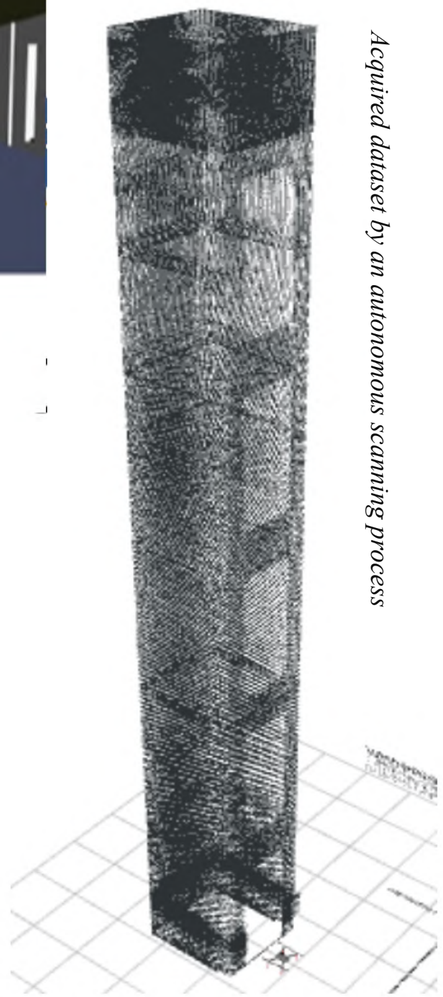
- *Vertliner is a field robotics company, developing autonomous robotic systems for the precise indoor assessment of building assets.*

KPIs

- Testing and expanding the Vertliner products on the Digital Village
- Vertliner 3D files on the DV Marketplace to be minted as NFTs.
- Showcasing information and the condition of each system/product connecting digital products, physical spaces and the Metaverse.



Autonomous UAV scanning an indoor environment.



Acquired dataset by an autonomous scanning process

VERTLINER

EVELYN MORA
FOUNDER & CEO

SHAUN OGILVY
PM

AGATA AZDAJIC-GORJACKOVSKI
COO

RONAK SHAH
HEAD OF ENGINEERING

SAURABH SHARMA
UNREAL ENGINE DEV

ALESSANDRO CONTI
HEAD OF 3D

DUSTIN RODEN
LEAD UE DEVELOPER

ASTRID RÖNNBORN
BUSINESS DEV

ADNAN AERANPURWALA
HEAD OF UX

RICCARDO DI PALMA
3D DESIGN

The DV team

DV

21 UPDATES

- The Digital Village was awarded the **Epic Games** Unreal Engine MegaGrant!
- The DV was awarded two **Vechain Foundation** Grants for the Village Protocol blockchain interface.
- The **BlockStart** backed by the EU Horizon 2020 innovation fund selected the DV as the top 6 Blockchain Companies to receive a grant and mentorship connecting the DV to SMEs for prototyping.
- The Digital Village won the **BLOCKROCKET** Start-Up of the Month, though public pitching competition to an audience of 60+ and jury members inc. Wolfgang Männel , Pranav Sharma and Sarah Finegan.
- The Digital Village was selected as the top 11 companies to the finals of the **ClimateLaunchPad**, the world's largest competition for tackling climate change run by the European Institute of Innovation and Technology (EIT), Climate-KIC, and supported by the European Commission.
- The DV solo female founder, Evelyn Mora was recently included in the Top 30 voices influencing the Metaverse.
- The Digital Village was incorporated in the USA as the parent company of the French subsidiary.
- The Digital Village raised 2+ million USD for its pre-seed round.(Investors inc. Venrex, VR Fund, NOIA Capital)
- Received +150K USD in grants.
- The DV team featured in a global documentary around technology and innovation, release early 2022. **TBA**
- The DV partnered with other Metaverse projects including The Sandbox Game to promote interoperability and digital sustainability.

THANK YOU

metaverse@digitalvillage.io
www.digitalvillage.io

Industry gas emissions monitoring

"Enabling trust and reliability of IoT-based continuous monitoring by integrating certificacion via blockchain"

DEMO Day

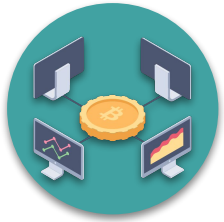
Antonio Jara
jara@hopu.eu
www.hopu.org

Problem being solved

Common need in the Regtech sector

Need for an **effective monitoring** based on **reliable** and **certified** air quality and health-related **data** in industrial environments

Regulatory monitoring, reporting & compliance for industry sector



Blockchain as a key enabler to enable a new industry concept driven by **digitization of processes**

Missed opportunities for **monetisation** of **carbon emissions**

Technology utilized

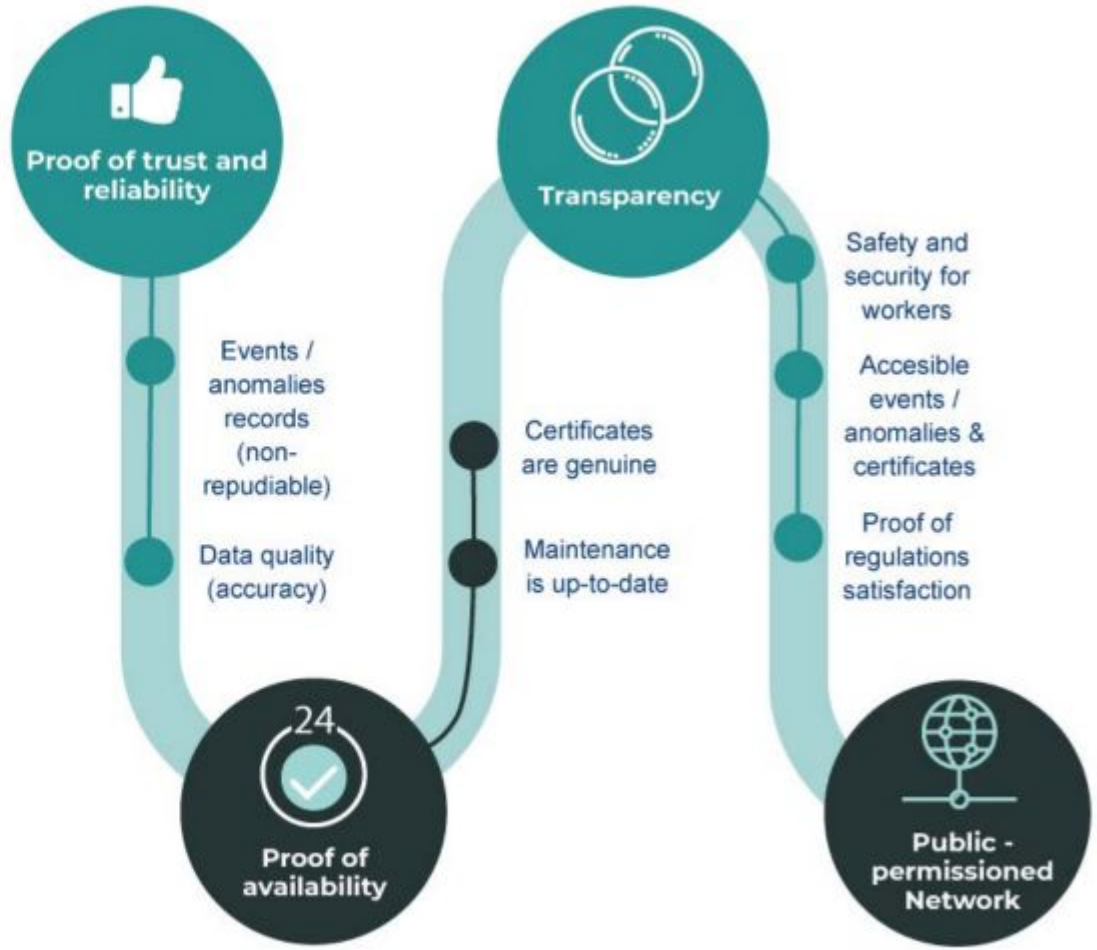
RegTech = (IoT + AI) * Blockchain

(Certified gas monitoring equipment + data-quality) * Trustable medium =

Trustable and reliable gas emission monitoring

Regulatory monitoring & compliance for industry sector

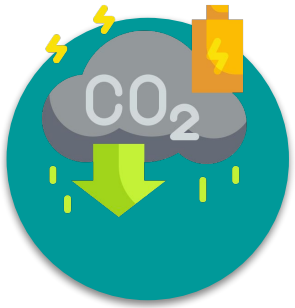
Blockchain as a key enabler



Functionalities of the solution

Integration of an alert register service based on blockchain based on 3 main goals

Emissions control
(regulatory compliance)



Emissions Reduction / Compensation

Monetization of carbon emissions (Tokens)

<< The approach selected for the prototype is, specifically, to **handle authentication and authorization through a Policy Based Framework (PBF)** >>

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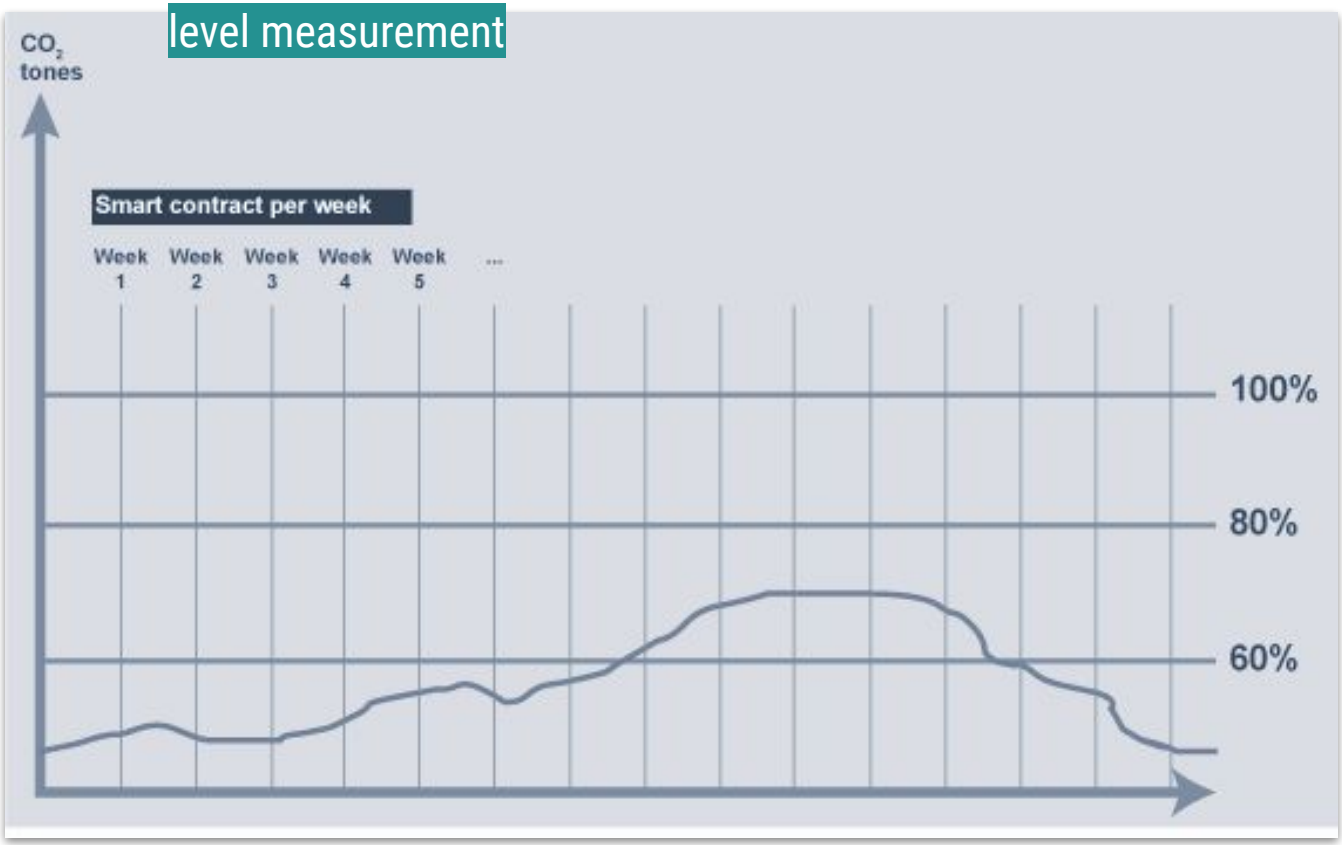
Scenario assumed

1. Real-time emission level measurement
2. Environmental authorisation obtained
3. Generation of **Tokens** that as CO2 credits with an economic value on the market
4. Weekly exceedances are recorded on a weekly basis via **Smart Contracts**
5. levels have been defined by writing policies in the **PBF**
6. Use of **Solidity (Smart Contracts programming language)**



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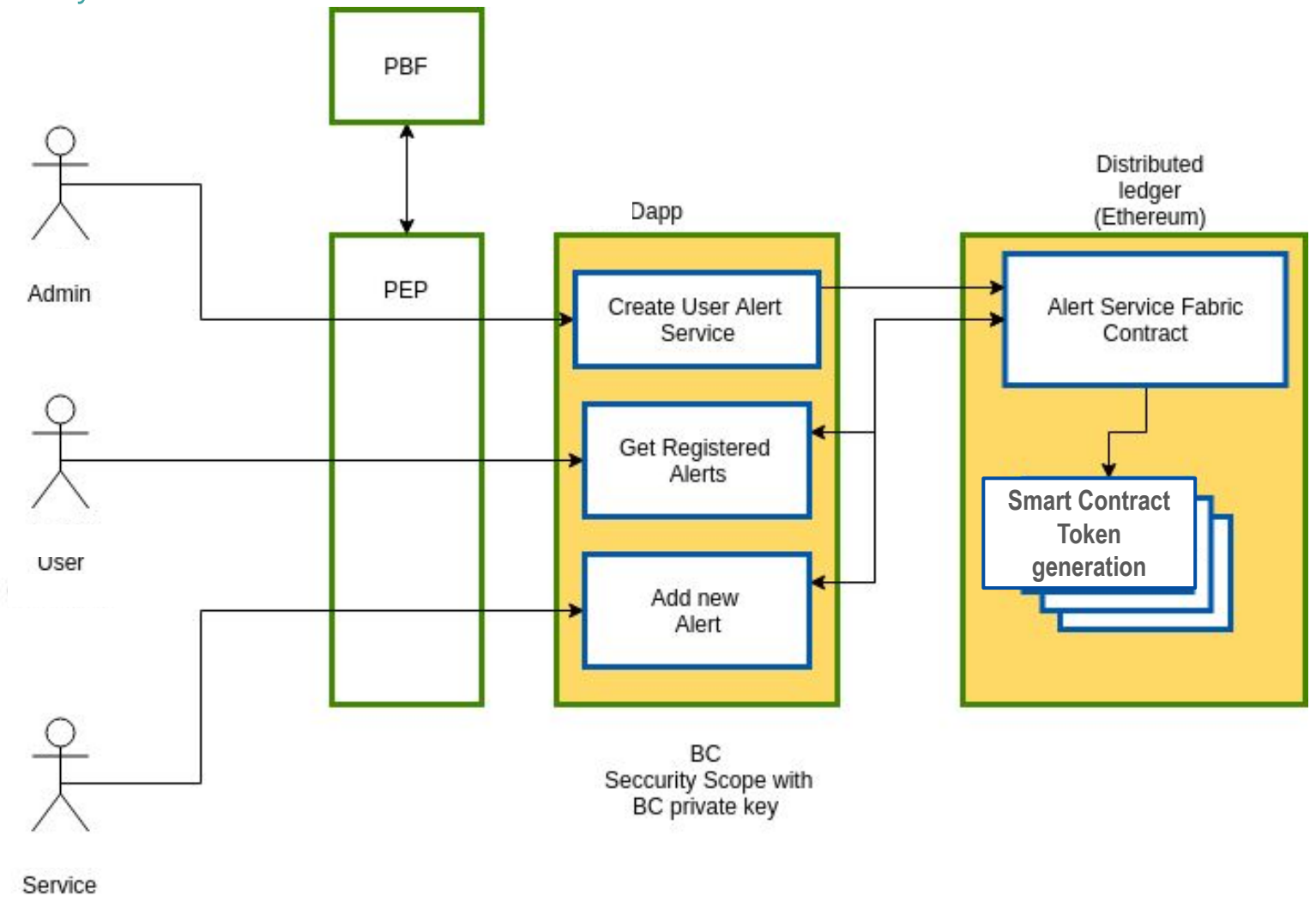
Key features defined

Authentication and authorization through a Policy Based Framework (PBF)

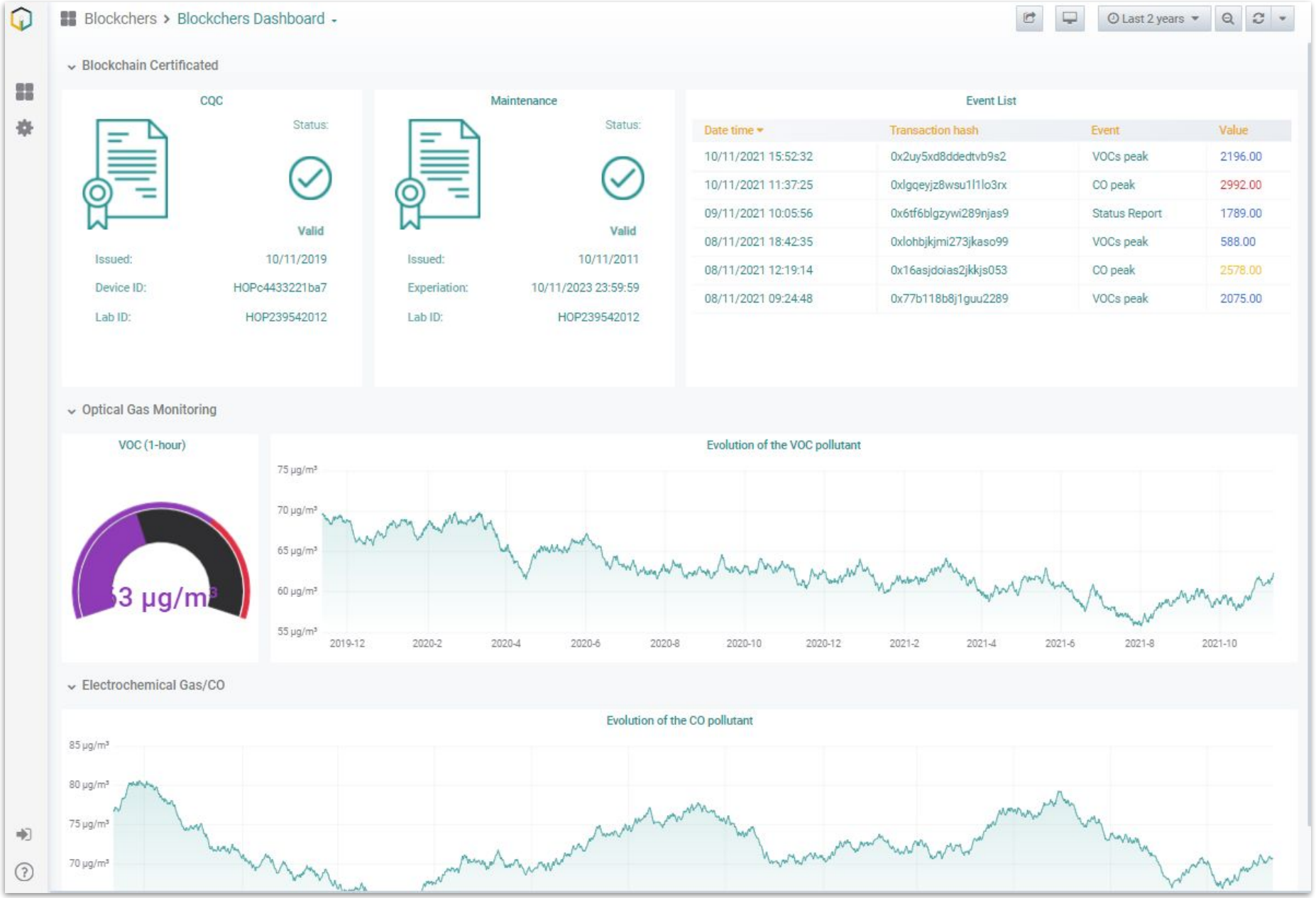
- ➔The **administrator profile** will generate and program the Smart Contract and Token system
- ➔The **Service profile** could set new exceedance levels, improving the grid and amount of tokens to a finer grain
- ➔The **PBF** collects the concentration of emissions associated with each level of the graph
- ➔**Policy Enforcement Point (PEP).** Authorisation and user identification entry element, which serves as a gateway to the system.



Frontend

Demonstrator of the solution developed to be validated during the pilots

Demo



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Collaboration with adopters

Publication of success cases of these early adopters in different means of communications.

IoT air quality monitoring devices (context and real time data)
Pollutant gases, noise, PM, temperature and weather

Smart contracts
Monetization in form of Tokens system via carbon trading marketplace

Free use of the SaaS service for 1 year after the pilot to continue testing the solution and providing feedback.

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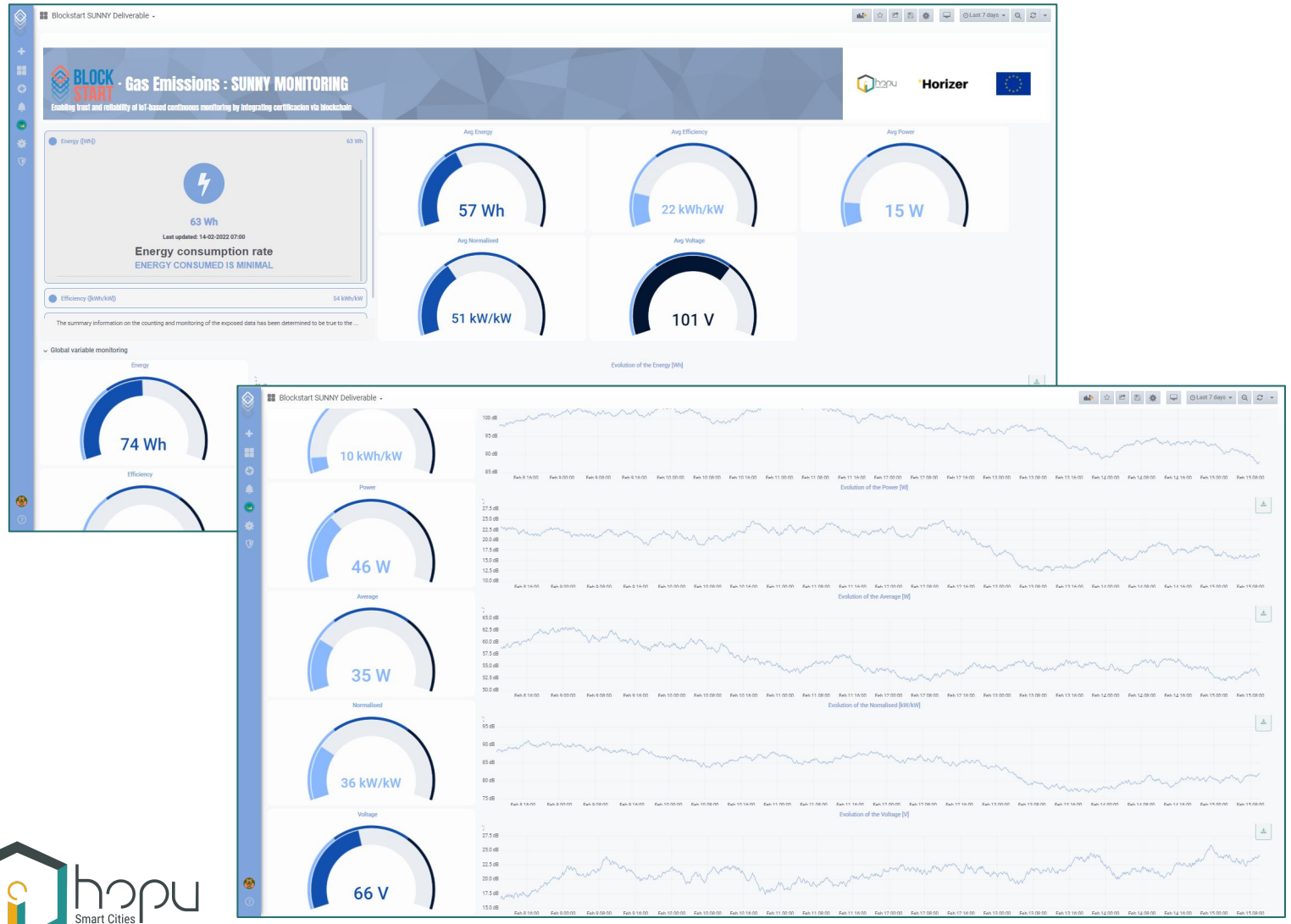
BERSEY CONSULTING & HORIZER - Monitoring Service



➔The solution provides **specific recommendations** to the user depending on the consumption in the consulted period.

➔A service has been created that monitors the **average consumption** of all data to date.

➔The user can view and download in .CSV, .JSON and .TXT format the **history of the monitored data.**

➔The user can **search for the monitored data of interest** in the history graph and check the **exact value** to which it corresponds.

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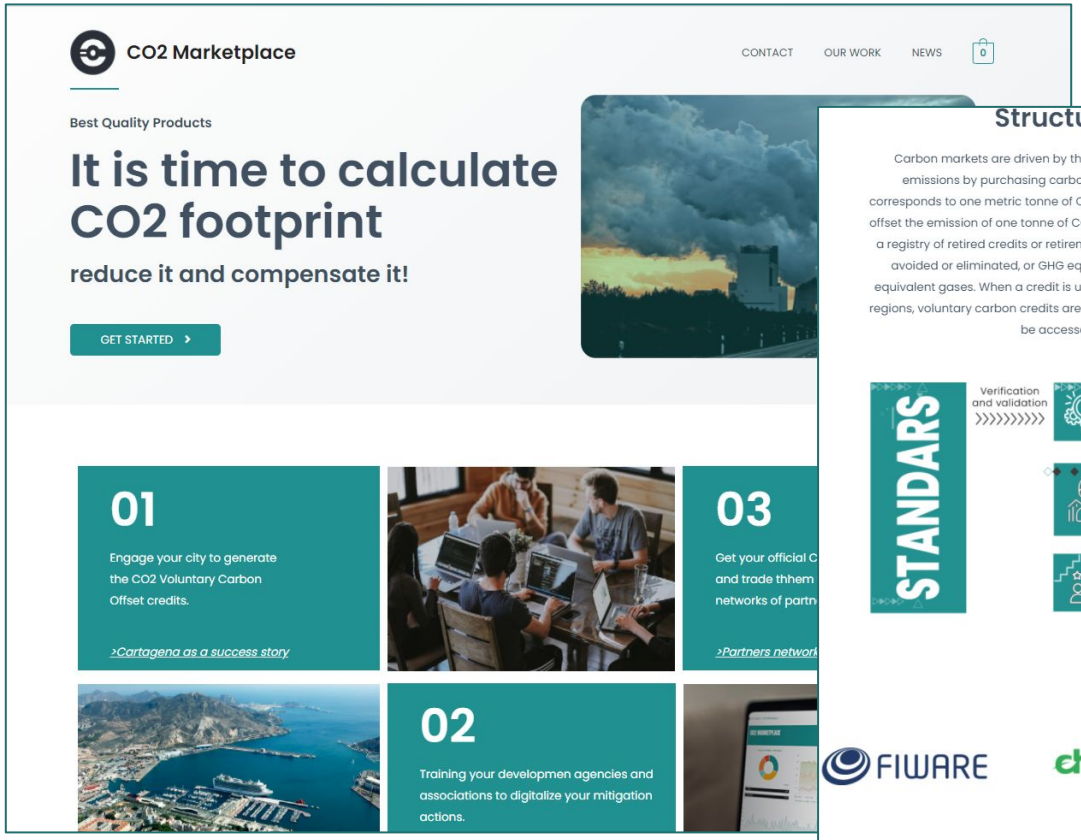
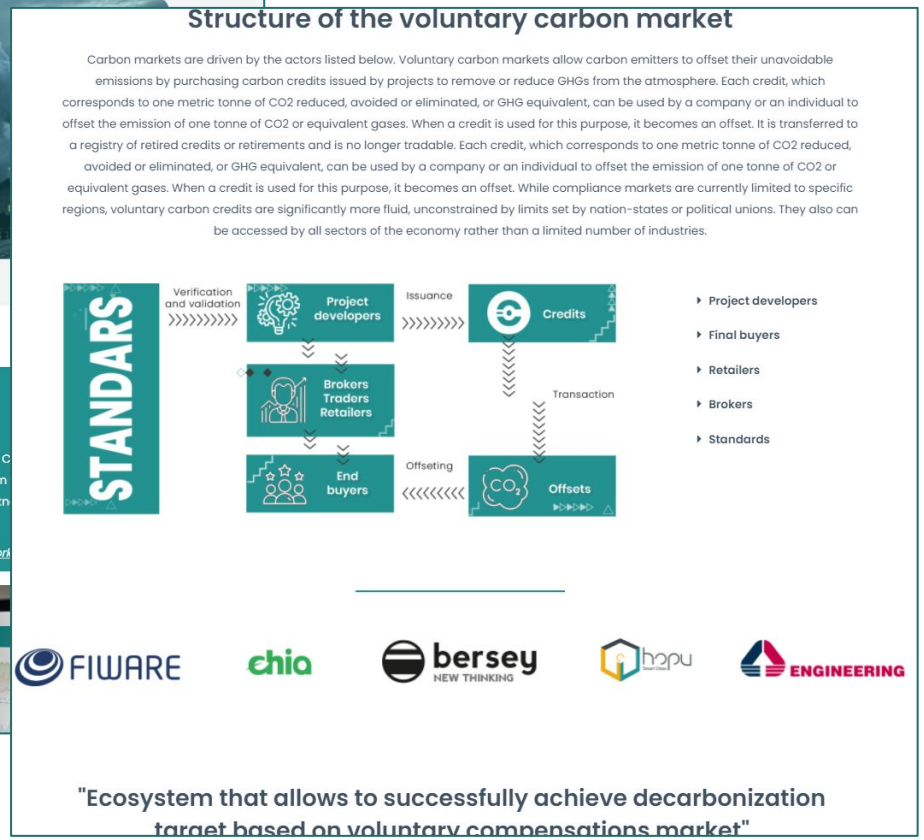
BERSEY CONSULTING & HORIZER - CO2 Marketplace





Worldwide Shipping: a website thats allows buying and selling CO2 simply

Best quality: CO2 Marketplace guarantees the reliability and availability of data to all CO2 buyers

Secure Payments: Pay securely for your CO2 purchases thanks to the SCA protocols and SSL certificates offered by our payment gateway

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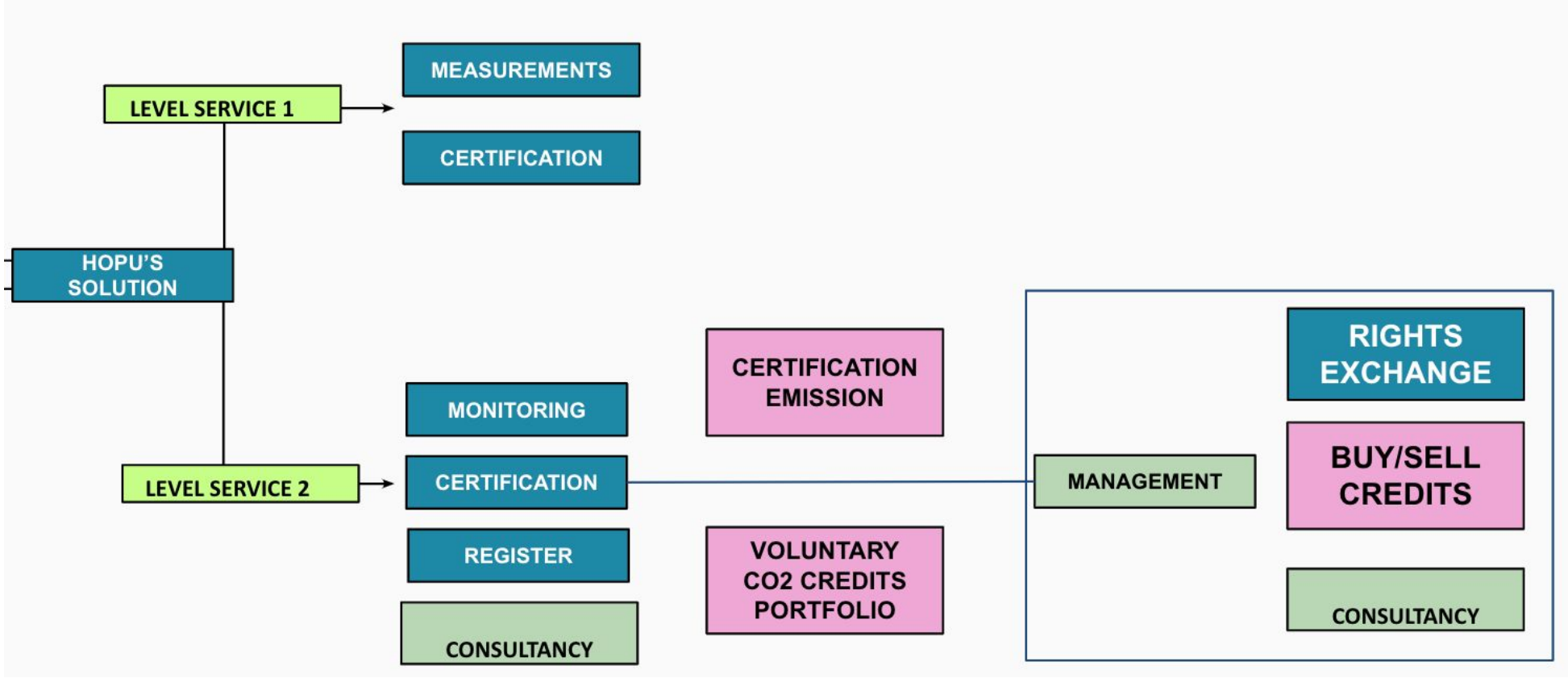
BERSEY Consulting



Team involved

3 AI & Big Data Experts

35 Workers

5 PhDs

10 Engineers

Gender balance

Multidisciplinary team

DAVID FERNÁNDEZ

Chief Technology Officer

Master in embedded software

+9 years

experience in embedded IoT.

IRIS CUEVAS

Quality control expert

Industrial Engineer

+4 years

experience in quality control and new materials

DR. ANTONIO J. JARA

Chief Executive Officer

PhD SOFTWARE/ MBA

+11 Years

experience in industry & +5 entrepreneurship awards

EVA VALENCIANO

Multimedia developer

Master in multimedia design

+3 years

experience in web applications development

GERMÁN MOLINA

Full stack developer & cybersecurity expert

Master in Cybersecurity

Awarded

with **Telefonica chair**.

CAROLINA SEMINARIO

Strategic market analyst

MBA International

+4 years

experience in management

THANK YOU

Antonio J. Jara
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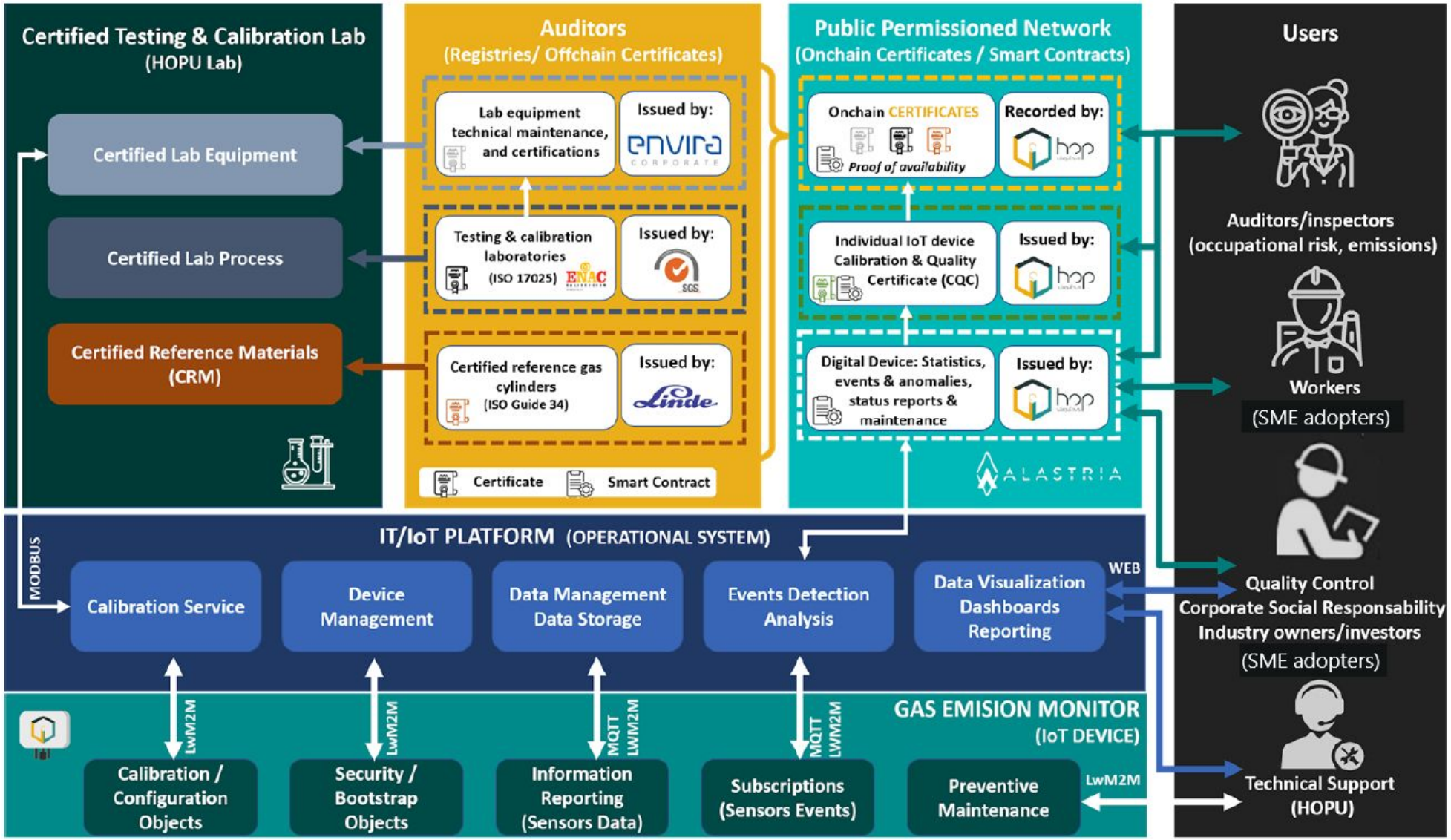
Backend



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Wrap-up

João Fernandes, Bright Pixel

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.

3rd Acceleration Programme Finalists

AGEVOLT
NEW AGE OF E-MOBILITY

EV charging digital ecosystem

3 pilots

BlockFrauds

Fraud detection for insurance

2 pilots

BLOCKTAC

Blockchain of Things Devices

3 pilots

Comunitaria.com

Rooftop that feeds

7 pilots

DV

MMO social metaverse

4 pilots

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Industrial emissions monitoring

2 pilots

All projects in
www.blockstart.eu/our-startups/

Next week we'll send you

Video of the event

Blog post with main takeaways

All **presentations**

Startups' profiles

Call for meetings with the startups

Thanks!

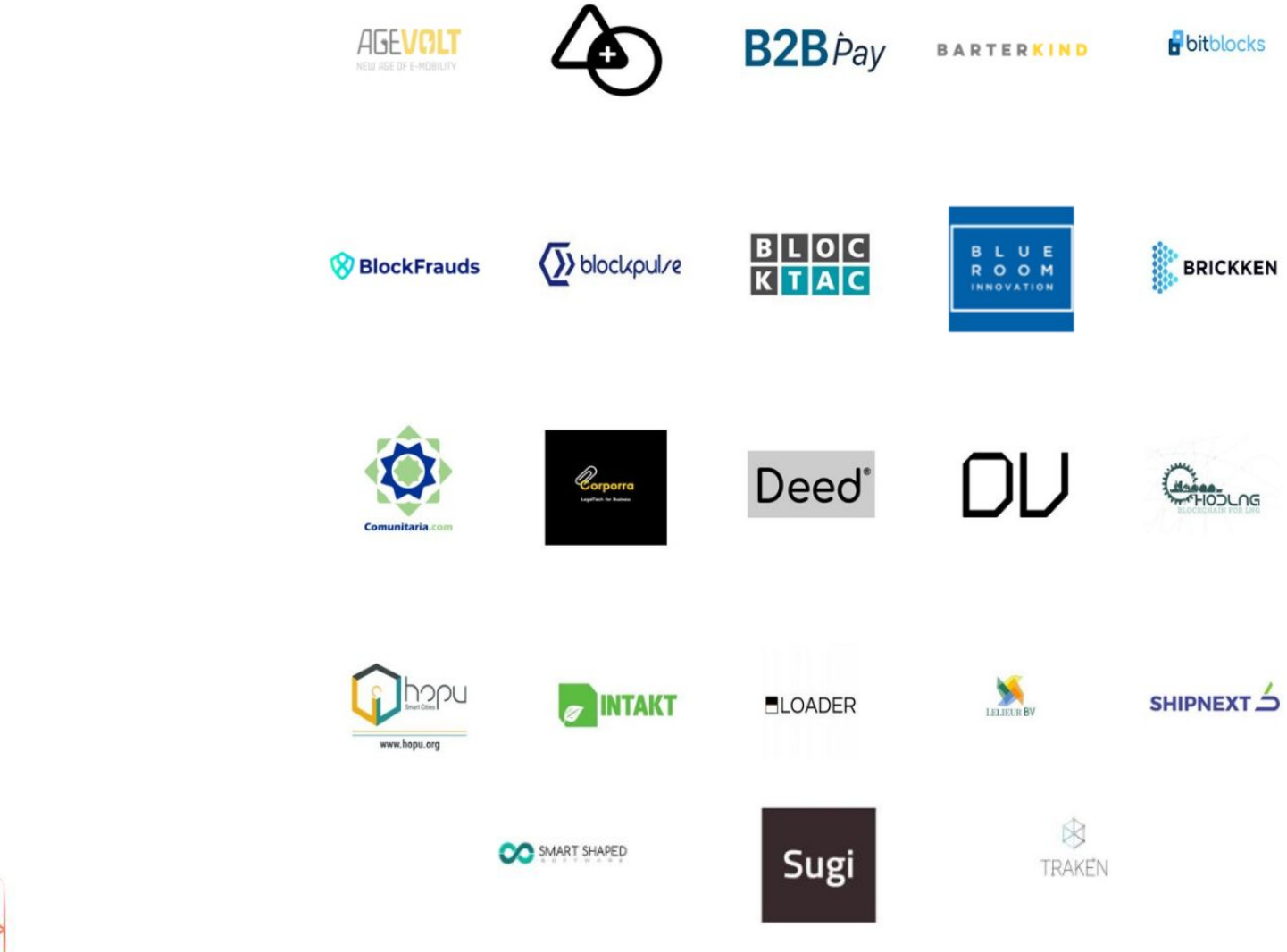
Erik Hengmith
EISMEA, European Commission

Thanks!

Sabine Brink
Shell

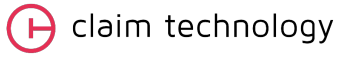
Thanks!

23 DLT Developers



Thanks!

21 SME Adopters



Thanks!

BlockStart Consortium

BLOCK START

FROM BLOCKCHAIN TO WEB3

BlockStart Startups 3rd Demo Day

24 February | 3pm CET | Online event

brpx Bright Pixel

CIVITTA

F6S

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 828853.