

NEEDS TACKLED BY THE PUR CHAIN

A BLOCKCHAIN SERVICE FOR SUPPLY CHAINS...

... INTEGRATING A GEOLOCATION PLATFORM ...

... POWERED BY RELEVANT PARTNERS

METHODOLOGY & PRICE



PUR CHAIN, A SOLUTION DEVELOPED TO ANSWER THE NEED FOR TRANSPARENCY IN COMPLEX SUPPLY CHAINS



Shortcomings of today's supply chains



INCREASING COMPLEXITY OF SUPPLY CHAINS

Stakeholders from crops to final products are not always clearly identified



STRONGER RESPONSIBILITY OF BRANDS

Brands need to have visibility on the origin of raw materials and the composition of their products to develop them



EVOLVING CUSTOMERS' DEMAND

Customers in various industries are expecting more transparency along supply chains

Tackled by the PUR Chain,

a blockchain dedicated to traceability along supply chains





PUR CHAIN, AN INNOVATIVE BLOCKCHAIN SOLUTION TO THE NEEDS OF SUPPLY CHAINS





Data entered in the blockchain are **decentralized**, **inviolable**, **permanent**:

- > No risk of double counting
- > No risk of alteration of information a posteriori, even by the service Reliability / Security



Supply chain information visible to all stakeholders in accordance with privacy:

Transparency

> Brands and consumers can check the origins of their products up to the level of detail of the production parcel

> Producers can follow the journey of their production along its transformation

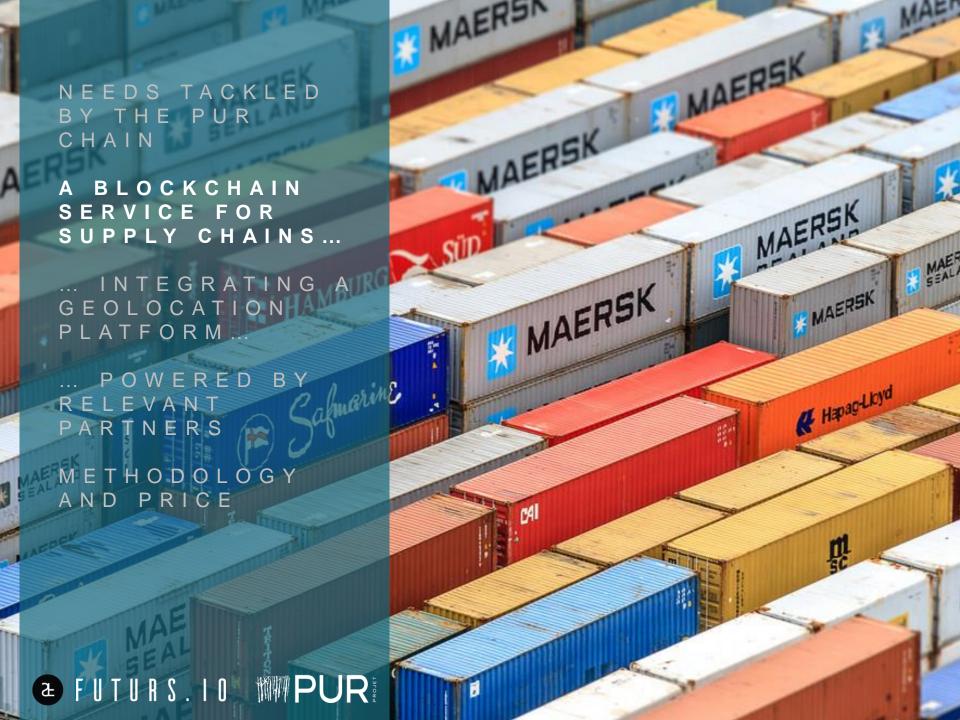


Commitment to **traceability best practices** using the most advanced and complete technological means

Innovation







WHAT IS THE BLOCKCHAIN?



The Blockchain is an **information storage and transmission technology** that is secured, transparent and that works with **no central control device**. Concretely, it is a register that contains informations, data and transactions gathered in 'blocks'.

The features of this register are that:

- It is not stored on a central device but on multiple computers called knots of the network, which makes it **harder to attack**. If one computer stops working, the other ones keep working.
- There is no central control device to manage it: **nobody controls the register**. An algorithm allows all stakeholders involved to agree on the status of the register at any time.



book in which all the stakeholders write simultaneously, each new transaction being written after each other, without the possibility to modify or delete the previous ones.





A USE CASE EXAMPLE : FROM CROPS TO FINAL CUSTOMER

















FARMER

Harvests the raw material

COOPERATIVE

Gathers crops from different producers

PROCESSOR

Transforms the raw material into the final product

CUSTOMER

Use of blockchain all along the traceability to notarize flows of raw materials from the crop to the customer in an inviolable and transparent manner





TRACEABILITY LAYS ON THE REGISTRATION IN THE BLOCKCHAIN OF PIECE OF EVIDENCE















FARMER

COOPERATIVE

PROCESSOR

CUSTOMER

Register #1

Register #2

Register #3

Data registered into the blockchain

Date of delivery
Shipment reference
Product
Weight / Volume
Characteristics
Farm and parcel location

Date of delivery
Shipment reference
Batch composition
(with link to register #1)

Date of delivery
Shipment reference
Batch composition
(with link to registers #1 & 2)

Contribution of each stakeholder

The farmer declares the shipment delivered.

The cooperative declares the shipment received. It can stand in for the farmer's declaration.

The cooperative declares the shipment delivered.

The processor declares the shipment received.

The processor declares the shipment delivered.

The customer declares the shipment received.

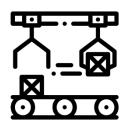
Data are: Timestamped Permanent Forgery proof Decentralized





BLOCKCHAIN-BASED TRACEABILITY FOR ALL KINDS OF SUPPLY CHAINS





Industry



Jewelry



Food and beverage



Cosmetics



Drugs



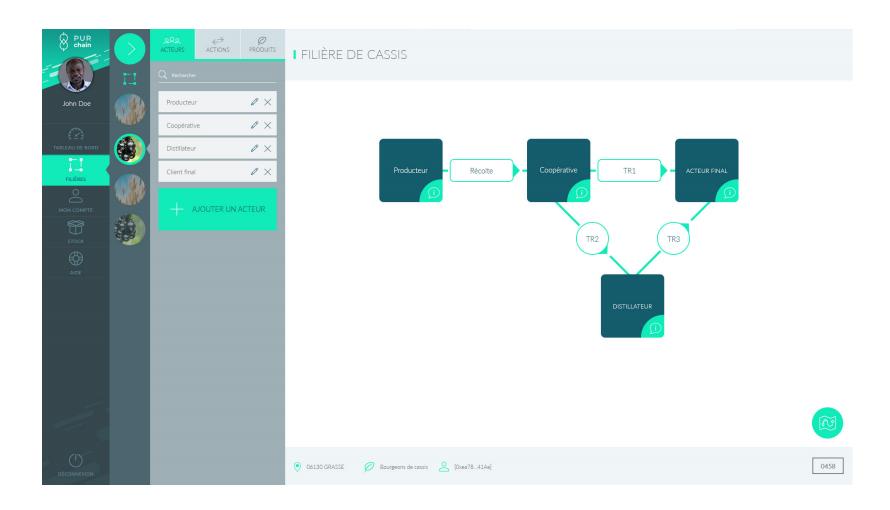
Retail





A USER-FRIENDLY INTERFACE TO ORGANIZE AND MONITOR YOUR SUPPLY CHAINS









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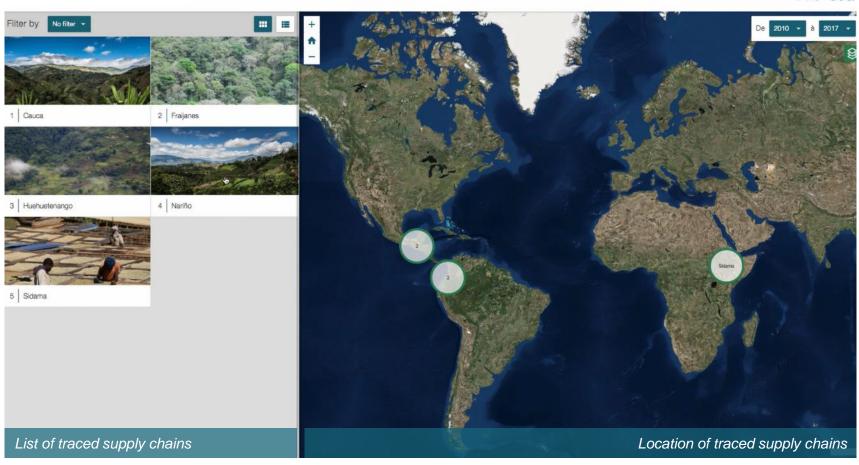
METHODOLOGY AND PRICE



A COMPLETE FEATURE TO LOCATE AND EXPLORE THE DETAILS OF SUPPLY CHAINS



MPUR

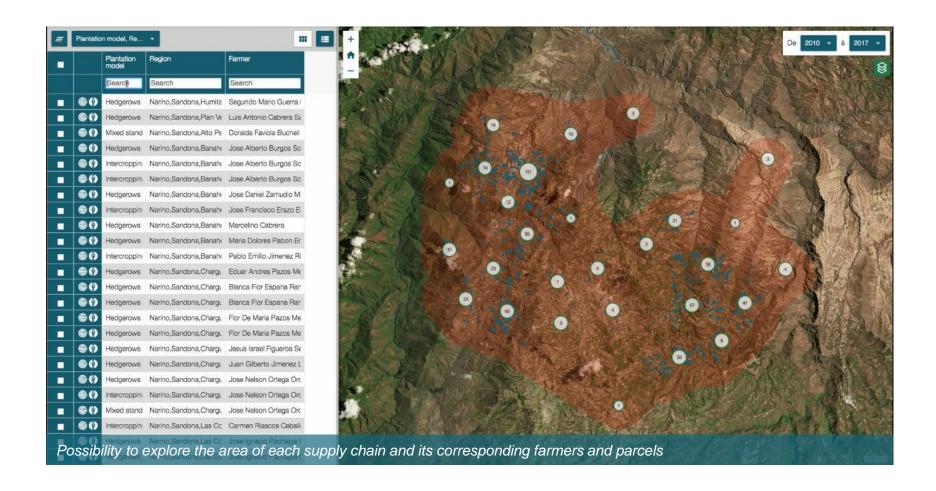






AN INTERACTIVE MAP TO LOCATE YOUR TRACED SUPPLY CHAINS



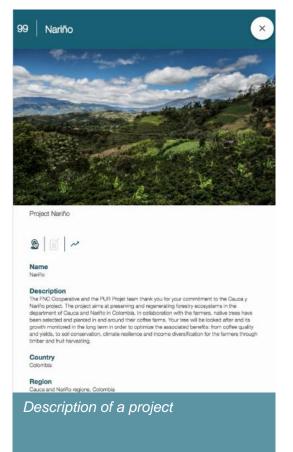






A DESCRIPTION WINDOW TO GET DETAILED INFORMATIONS ON PROJECTS AND PRODUCERS













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METHODOLOGY AND PRICE



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A SERVICE OFFERED BY EXPERIENCED PARTNERS GATHERED AROUND SHARED VALUES





Social business dedicated to support livelihoods and promote the conservation and regeneration of ecosystems

- Commitment to strengthen the integrity of supply chains
- Strong field experience in close proximity to all stakeholders of agricultural supply chains



Consulting, production and communication agency dedicated to innovative technologies and uses

- Development of blockchain projects in Paris, Brussels, Luxembourg and Singapore since 2015
- Strong experience in IT projects

Together, PUR Projet and Futurs.io opted for a **private blockchain**: the transactions registered in the blockchain are verified by a limited number of stakeholders defined upstream during the construction of the blockchain. They are not based on algorithms performed in energy intensive mining farms.

→ The needs for transparency and security are addressed while limiting energy consumption.







A 3 STEPS METHODOLOGY FOR THE DEPLOYMENT OF THE PUR CHAIN





Know



Show

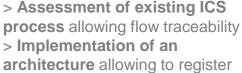


PROCESS

> Preliminary study on the field Variable amount of work depending on baseline situation

> Assessment of existing data collection systems and resources in place

> Data collection at producer level



flows under blockchain technology through the PUR Chain platform

CONTENT

Interaction with all supply chain suppliers to get full visibility on raw material origin

(Parcel geolocation)

Producer's identification data:

name, land size, picture

Procurement data: volumes and prices

Technical data: social (labor contracting, housing), socio-economic (diversification, age, family) ...

ICS process (codes, receipts, batch numbers) at the upstream level of the supply chain (harvest, first processing steps)

OUTPUT

Supply chain mapping

Producers registry and GeorGIS platform

Data visualization related to producers and raw material sourcing

Blockchain platform

Full visualization of product flows from parcel to processed raw material accessible to all supply chain stakeholders





PRICING MODEL



	0- Know	1- Show	2- Prove	COMMUNICATION (optional)
Non-specific (corresponds to the		Yearly subscription to GeorGIS: € 15,000	Yearly subscription to full PUR Chain including GeorGIS: € 30,000	
	_	\	R	_
yearly subscription cost of the IT solution)	_	Yearly price per active supply chain on	Yearly price per active supply chain: € 5,000	
oost of the TT coldiony		GeorGIS: € 2,000	Yearly price per active wallet: € 12	
Specific	X man days / supply chain	X man days / supply chain	X man days / supply chain	
(corresponds to "consulting costs"	AND		Video production,	
necessary to adapt the solution)	Field or desk, interaction with procurement teams,	Desk / Field diagnosis Management of data collection with local	Field diagnosis on several sites, training of local stakeholders.	support to press releases, participation to internal and external conferences.
Minimum / Usual / Maximum: indicative ranges reflecting the	suppliers, formalization.	technicians.		
history, existing knowledge and level of complexity for a given supply chain	Min: € 0 to € 10,000 Average: € 10,000 to € 20,000 Max: > € 20,000	Min: € 0 to € 10,000 Average: € 10,000 to € 20,000 Max: > € 20,000	Min: € 0 to € 10,000 Average: € 10,000 to € 20,000 Max: > € 20,000	€ 10,000 to € 20,000







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