

# COLOMBIA ROUND 2021



**MAY 20<sup>TH</sup>, 2021**

# Blockchain Technology



## Sabra: Who we are



**We are a technology company based in Argentina with offices in Buenos Aires and its software factory in Tucumán.**

We focus on the development of decentralized platforms for companies and governments on Blockchain technologies. We develop and integrate third party components to build solutions focused on solving problems from a decentralized perspective focused on generating benefits to organizations and their social environment.



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**Sabra Group company associated with IOV Labs focused on the development of the Rif Enterprise platform and its ecosystem of Partners and Alliances..**



Rif Enterprise is a Cloud service that makes available the infrastructure and technology components that simplify the process of designing and developing decentralized applications on Blockchain platforms.

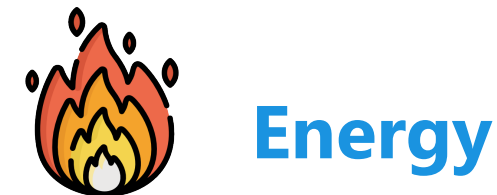
## Projects & verticals

Grupo Sabra started in 2014 to develop components in the world of decentralized applications. From 2017 we started to integrate these components in Enterprise world Clients for specific use cases. Digital onboarding, document certification, tokenization of assets using Digital Identity components, Verifiable Credentials, Tokenization among other components.



**Digital Identity and Certification of documents and processes.**

ANSV: Blockchain Network of Argentina's Road Safety Agency. Securing digital driver's license information. Commonwealth Government: Citizen Identity, verifiable credentials for driver's licenses and other certifications



**Digital Identity and Certification of documents and processes.**

Gasnet Blockchain Network focused on Gas Distributors. PIC - Customer Incorporation Process. Certification of new Gas connections. PER - Network Extension Process.



Capital Markets



**Digital Identity and Certification of documents and processes.**

**Tokenización de activos digitales.** Digital asset market. Electronic promissory notes, electronic checks, electronic invoices. Certification of documents with legal validity for the capital market.



Banks

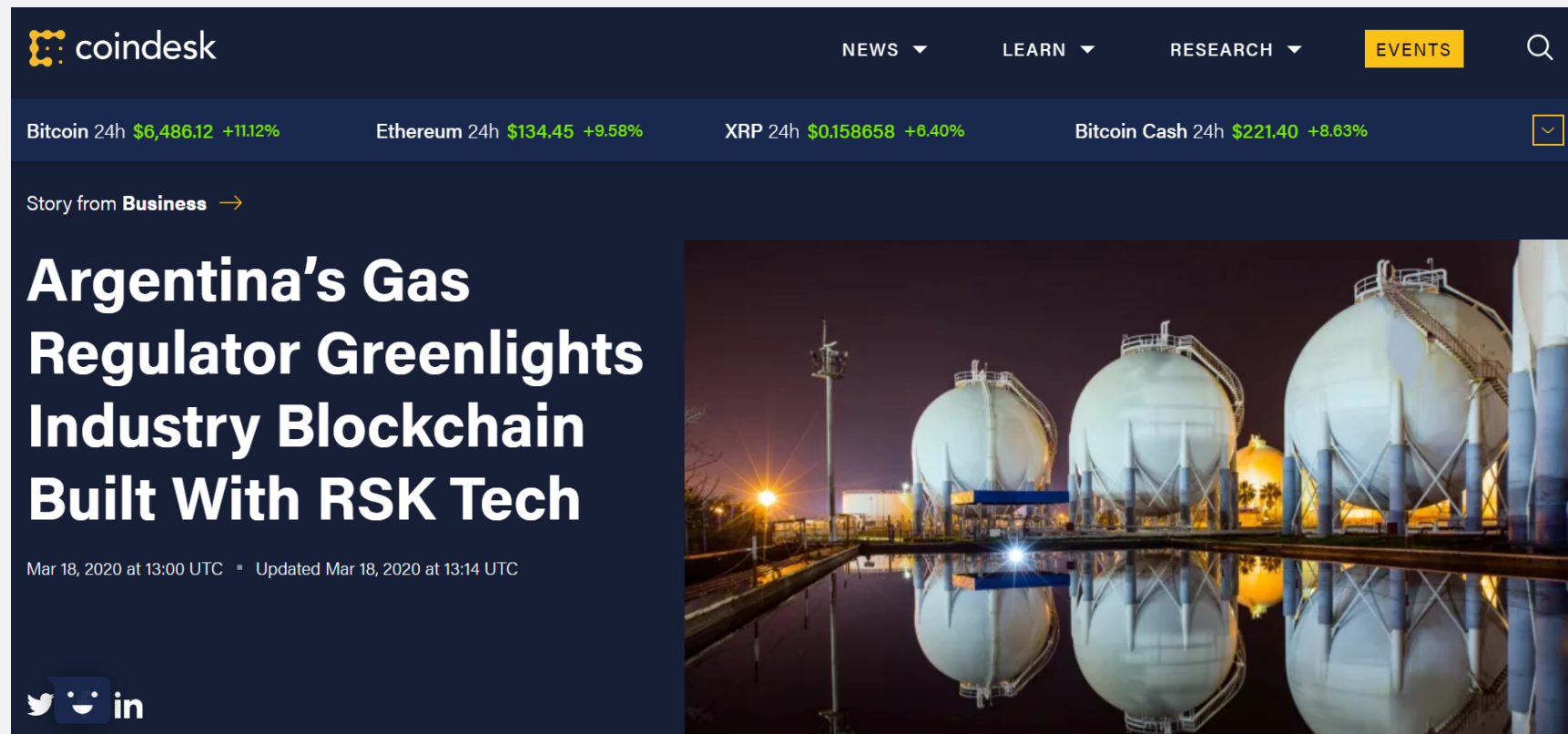


**Digital Identity and Certification of documents and processes.**

Proof of concept of "Direct Debits and Rejected Checks". Permissioned network of 5 nodes that allows the uploading of claims and management through the exchange of information and certified documents between banks in the system.



# Projects with a real impact



Gasnet is a Blockchain permissioned network anchored in the public network of RSK that allows from the certification of the process of new connections (or reconnections of the gas service), national registry of registered gas operators, management of network extension, management of claims with the regulator, exchange of certified documents with the regulator, management of meters, among others in the process of implementation.

**Our implementations are already positively impacting the management of processes involving identity, certifications, secure document management, and digital assets.**



The MIF (Mesa de Innovación Financiera) of the BCRA in 2019 raised the need to evaluate Blockchain technology to be applied in the financial market. The case "Direct Debit and Rejected Checks" was implemented within a permitted network of 5 Banks + Link, Interbanking and Byma.

**The cases implemented in Argentina generated a lot of interest in the Blockchain world due to the value added to processes that were solved in a secure way with positive impact on the Customer.**



Byma implemented several platforms on Blockchain technology that allow from the management of Shareholders' Meetings for companies listed on the Stock Exchange as well as Listadas, an electronic window for the presentation of certified documentation by companies and finally Epyme, a Marketplace of financial assets that in this first stage allows to manage Promissory Notes, Checks and electronic Invoices.



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## Objective of the project

**"To be able to provide a solution by giving technological support to the Permanent Process of Area Allocations, in order to generate digital identity to users and enable the electronic signature that can be used at different stages of the process, using the latest technologies in cryptography and Blockchain, thus making the operation itself more transparent and secure."**



## What is Blockchain?

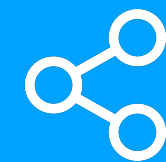
A P2P network that maintains a distributed database and is able to guarantee the integrity of information in an open network, without the need for a central authority to validate and/or approve each transaction.

### Safe



Every transaction recorded in the database **is digitally signed**, which allows to mathematically prove both the authorship and the integrity of the information.

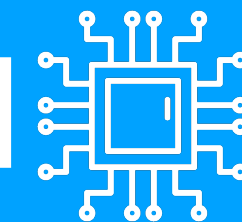
### Shared



The fundamental value of this database is that it is **shared among multiple autonomous entities**.

The more entities that share it, the greater its value.

### Distributed



**Each node in the network has a copy** of the database.

There is a **consensus mechanism**, which ensures that each copy **is an exact replica of the other copies**.

### Unalterable



It is a "transaction log" that maintains a **complete history** of all transactions.

The records that are entered **cannot be modified**.



## Main principles of solution

### Onboarding companies

- Provide a mechanism for registering individuals and companies with digital identity.

### Certification documents

- Apply cryptographic signatures on all documents and processes.
- Provide a signature validation and certification tool.

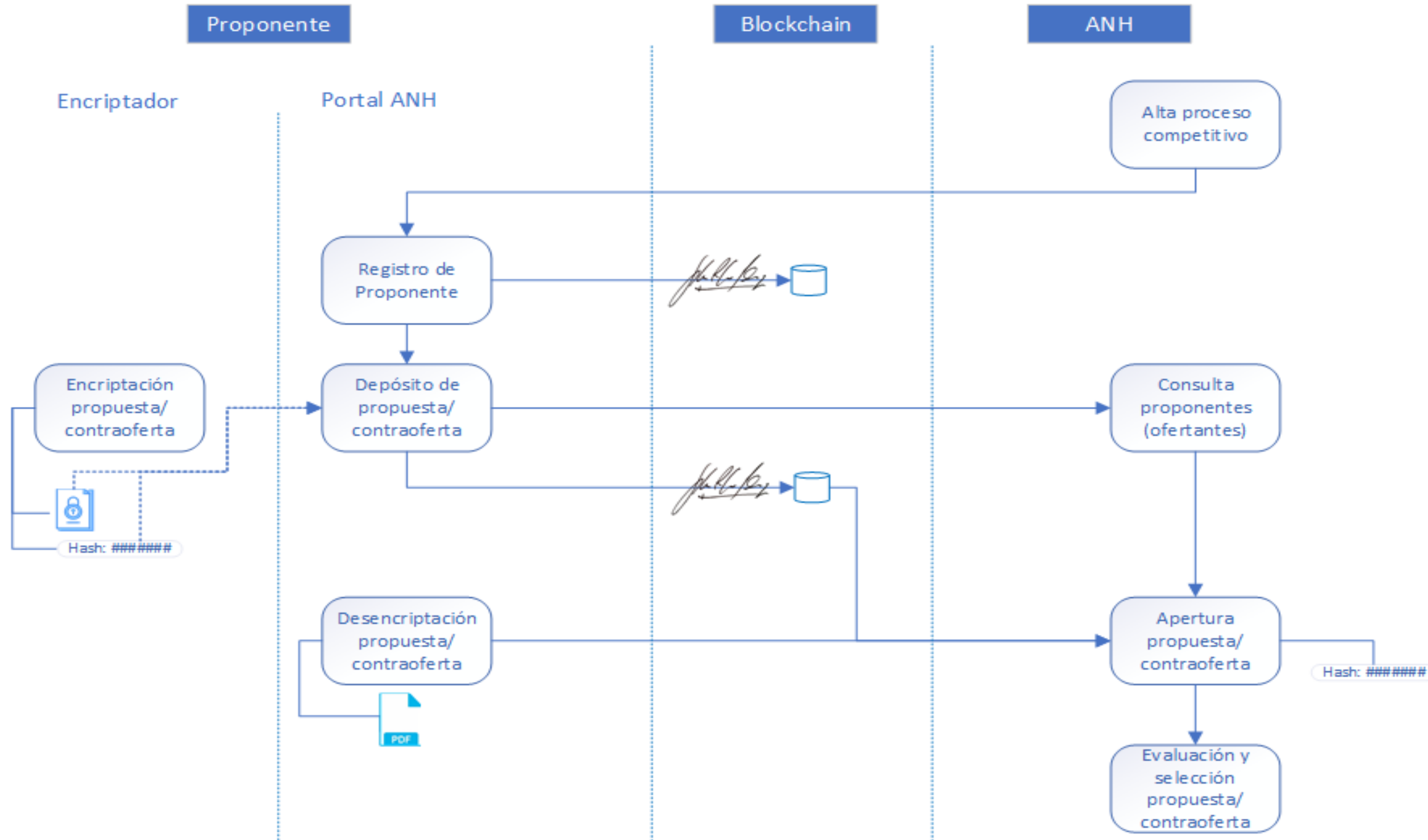
### Document Encryption

- An open source encryptor is provided to run locally on the bidders' infrastructure.

### Blockchain

- Saving evidence in Blockchain.
- Generate Smart contract that determines rules of the area assignment process.







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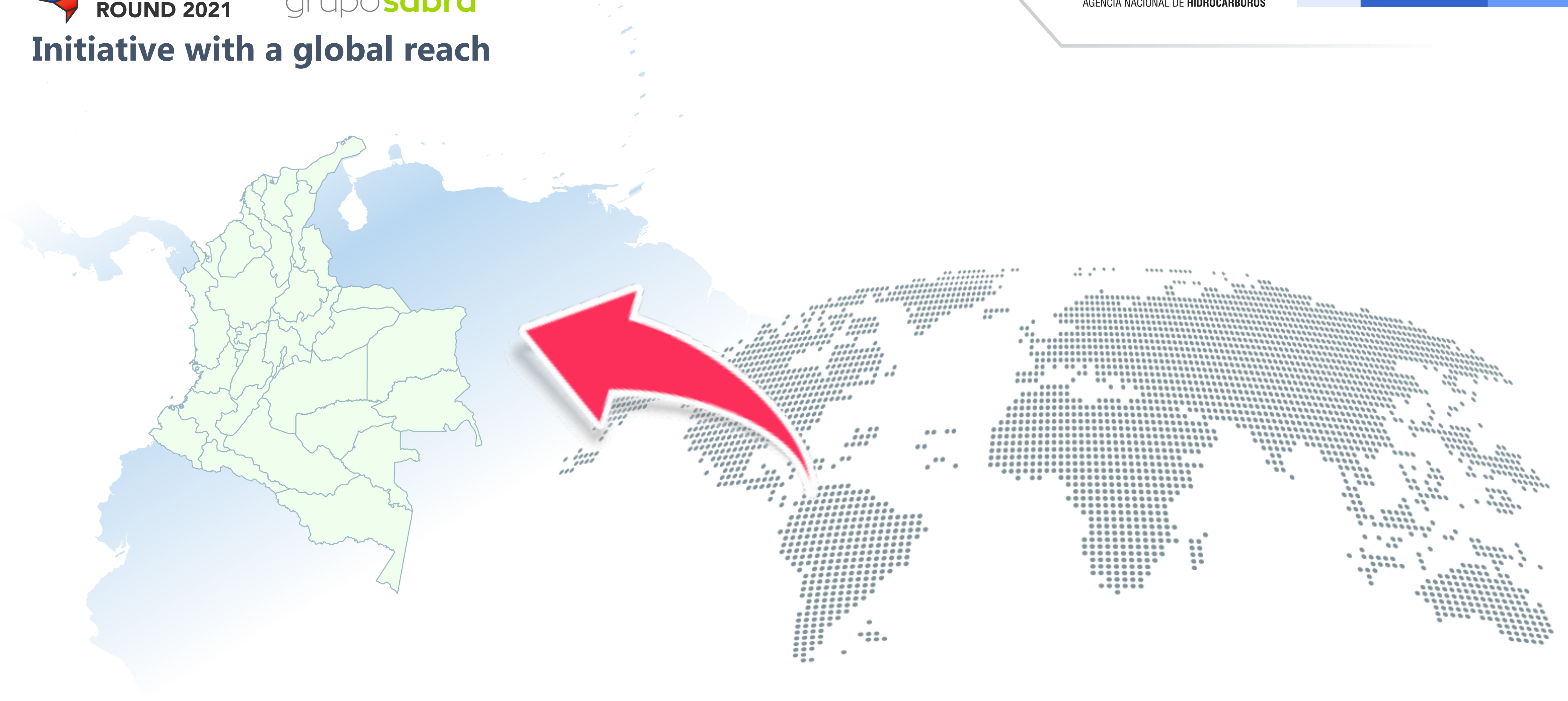


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and business impact**

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