Alastria is a **non-profit association** that promotes the **Digital Economy** through the development of **decentralized technologies / Blockchain**.

Alastria has the clear vocation to become a pioneering project of reference in the generation of new Digital Economy models. It promotes an innovation methodology that anticipates the needs of our Society regarding the use of products and services based on decentralized technologies.
Inception of Alastria

Alastria was launched as the Lyra Network in May 2017 and formalized as a non-profit organization, adopting its current name, in October that year.

Starting point
The original idea arose from an entrepreneur (Founder Alex Puig)

Birth with multisector spirit
Industry’s main players were involved (Promoter Team)
www.alastria.io

Point of confluence
Promotion of the Digital Economy through the development of Blockchain

Growth comes thru collaboration with innovation technologies
Alastria is a non-profit association that promotes the Digital Economy through the development of Blockchain.

Alastria seeks to democratize access to Blockchain by making available the necessary tools to facilitate the access, adoption and use of technology.

Alastria provides a basic Blockchain infrastructure, the Alastria Network, and a digital identity standard, the Alastria ID, which allows transactions to have legal validity.

Alastria is a pioneering project that encourages innovation, anticipating the possible interest of our Society in the use of Blockchain-based products & services.
**Alastria’s Main Goals**

Promote, pursuit & establish the standardization, at the international level, of methods and tools to support the open source community working on decentralized technologies.

Provide an innovation framework, with an appropriate legal and economic model, that generates clear benefits and impact to the Society, based on the adoption and use of decentralized networks.
How does Alastria work?

Alastria’s strategic approach is based on the methodology of the virtuous spiral of innovation, growing with the collaboration of Private Sector, Government and Academia. The three helices are constantly generating and sharing value. Alastria’s Innovation Methodology adds a fourth helix: the citizen interaction. Citizens are the real driver of change in the Digital Economy.
How does Alastria work?

2018 Sectoral

2019 Multisector

2020 Multisector Ecosystem

Innovation methodology

From sectoral- to multisector ecosystem

Alastria’s working model evolves in the virtuous spiral, energized by its members and understanding technology in a shared way within a dynamic legal and economic framework. Alastria’s continuous membership growth allows to capitalize knowledge promoting interaction, transversally, within different sectors and scaling up internationally. By 2020 the goal is to have boosted a set of new products and services within an International Multisector Ecosystem.
Alastria anticipates the needs of our Society, working collaboratively, based on three pillars.

**THE ASSOCIATION**

**Goals**

Build a multisector ecosystem capable to generate and share knowledge, with a common vision and purpose.

Identify talent and promote methods & tools so that this talent can stand out within local innovation ecosystems (ECO’s).

**THE ALASTRIA NETWORK**

**Goals**

Adopt a unified and approved R&D protocol.

Build a value proposal, shared by all members, for the Network.

Facilitate that the set-up and operation of nodes boosts innovation and research.

**ALASTRIA ID**

**Goals**

Develop a theoretical model to shape the project.

Validate and test the protocol used, as a continuous challenge.

Have a proposal for a European standard.
Operation

Three strategic axes of activity (People, Methodology & Technology) boosted by Alastria’s Management Engine

How is Alastria structured (2019-2020)?

Management Team:
- Membership
- Communication
- Technology/SecDevOps
- Processes/Compliance
- Finance/Legal

1. Alastria PEOPLE Social Impact
   - Strategic Goal: Sustainable Innovation Fundraising
   - Working groups: Innovation+Talent (ECOs) + Public Administration + Third Sector

2. Alastria METHODOLOGY Building the method
   - Strategic Goal: Knowledge: Sharing to Grow
   - Working groups: Identity + Standards + Legal + Technology Transfer & Research

3. Alastria TECHNOLOGY Defining basic technology
   - Strategic Goal: Roadmap: Decentralized technology evolution
   - Working groups: Decentralized Platform + Resilience + Identity
Strategic axe to achieve objectives within 3 key interrelated areas of expertise that impact citizenship.
How is Alastria structured (2019-2020)?

Strategic axe to achieve objectives to establish clear benefits around standardization, applied research and regulatory framework.

Objective and deliverables:
- CRUE Spanish Universities
- Constant interaction with other commissions
- Reach all Universities and Institutions

Management Team:
- Membership
- Communication
- Technology/SecDevOps
- Processes/Compliance
- Finance/Legal

1. Research & Technology Transfer
2. Standards Identity
3. Legal

Objectives and deliverables:
- White Paper for the European Commission CEN / CENELEC
- Spanish UNE Standard based on Alastria ID
- Industry Specification Group (ISG) in ETSI on Blockchain and DLT
- Present in the ISO working groups

Legal
- Legal Support to Alastria Projects
- Legal Support to the Consortium
- International development

Strategic objective: Lead the chain
Strategic axe to achieve objectives related to prompt the maturity of decentralized open source developments & infrastructure considering business continuity requirements from its design.

How is Alastria structured (2019-2020)?

Management Team:
- Membership
- Communication
- Technology/SecDevOps
- Processes/Compliance
- Finance/Legal

1. Platform
   - Objectives and deliverables:
     - Agnostic platform in the choice of decentralized network technology.
     - Development of studies, policies and processes, and deployment of procedures
     - Proof of concept, TESTNET vs MAINNET, ROADMAP

2. Resilience
   - Objectives and deliverables:
     - Defense Lines
     - Validating Nodes
     - Crisis Management

Strategic objective:
Lead the chain
Alastria ECOsystems

Alastria works with a decentralized approach through the strength of its local knowledge ECOsystems.

The talented teams of all Alastria members spread out geographically. Those teams -the ECO’s- meetup, physically or remotely, on a regular basis.

Sharing knowledge and collaborating are a must-to-do to reinforce the generation of new ideas with social and economic impact, and to compete fairly within the new Digital Economy.
How to get “actively” involved within Alastria?

### Governance

- General Assembly
- Board of Directors

### Management

### Operation

#### Ethics Commission

- Public Administration Commission
  - Working groups
- Third Sector Commission
  - Working groups
- Talent & Innovation Commission
  1. Andalusia ECO
  2. Aragon ECO
  3. Asturias ECO
  4. Balearic Islands ECO
  5. Canary Islands ECO
  6. Cantabria ECO
  7. Castile & Leon ECO
  8. Catalonia ECO
  9. Galicia ECO
  10. Madrid ECO
  11. Murcia ECO
  12. Navarre ECO
  13. La Rioja ECO
  14. Basque Country ECO
  15. Valencia ECO

#### Legal Committee

- Standards Commission
  - Identity Working group
- Identity Commission
  - Implementation of reference Working group
- Research & Tech Transfer Commission
  - Academia Working group

#### Technology Committee

- Tech Platform Commission (Core Team)
  - Arrakis/Telsius Working group
  - Parity Working group
  - Hyperledger/Fabric Working group
- Resilience Commission
  - Policy Working group
  - Digital Security Working group

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CO-OPETITION as a participation formula, in Alastria!

The Alastria Network

Partners compete on the applications

In Alastria the applications of the Partners concur in the market.

Partners collaborate on the infrastructure

In Alastria the partners collaborate among themselves to build the Blockchain infrastructure.

Services developed by Alastria partners

Self-Sovereign Identity

Resilience

Permissioned

Privacy

Blockchain

Suppliers

Logistics

Factories

Retailer

Social networks

Customers

Final product

Usage data
What kind of decentralized technology/Blockchain is Alastria?

A PUBLIC PERMISSIONED NETWORK

- Public Networks (Bitcoin, Ethereum)
- Public Permissioned Network
- Private Consortium
- Enterprise Systems

DECENTRALIZED

 << TRUST Flow

Alastria
Public Permissioned Network compatible with current regulation

CENTRALIZED

 << TRUST Flow

- No embedded cryptocurrency => low and predictable transaction cost
- Greater performance and scalability (> 1,000 tx/s)
- "Transaction finality" in a block, with legal validity (legal identity)
- Set of validators => "Sufficiently good"
What is the Alastria Network’s architecture?
How is the Alastria Network evolving?

2018 – March 2019: Ethereum, Quorum
TestNet 1: Arrakis, Active nodes: 51, Validating: 7 (+10)

Jan 2019 - April 2019: Every week new nodes.
1. **Evolving Arrakis to Testnet 2: Telsius, Ethereum Quorum**, Active nodes: 49, Validating: 7 (+1), Permissioning: 5, Record Speed: >1000 tx/bl/sg
2. **Parity**: Network under construction (basic gas/Faucet, permissioned nodes Whitelist, Quorum governance aligned)
3. **HyperLedger (support of Linux Foundation)**: Network under construction (4 Working Groups focusing on processes and tools, Interoperability)

May 2019 – July 2019:
Planned new nodes in Europe (Italy, Portugal, Hungary, Germany, ...).
What is the Alastria ID model?

Ten key concepts focused on 3 pillars

**PILLAR 1**

**SECURITY**

Information about identity must be stored safely.

- PROTECTION
- PERSISTENCE
- MINIMIZATION

**PILLAR 2**

**CONTROLABILITY**

The user must have control over who can see and access their data.

- EXISTENCE
- PERSISTENCE
- CONTROL
- CONSENT

**PILLAR 3**

**PORTABILITY**

The user must be able to use their identity data wherever they want and not be subject to a single provider.

- PROTECTION
- PERSISTENCE
- MINIMIZATION

Legally binding
April 2019: 196 SMEs are partners of Alastria
46% of total partners
**How to become an Alastria member?**

Visit: alastria.io,
Read all legal documentation.
Fill in and send the Membership Application Form and indicate your interest in joining Alastria, by informing about:

1. # of employees, main activity, and location of your organization;
2. experience on Blockchain technologies, and interest for your business;
3. which Alastria’s commissions or working groups are you interested in;
4. who, representing your organization, will join those working groups;
5. who, within your IT shop, will act as point of contact in order to start deploying a node within the Alastria Network;

and, last but not least …

6. ... **Be part of the Chain! Be part of Alastria!**
What will Alastria’s next steps be?

Working globally to achieve:
Inter-operability, Scalability, Governance Model, Sustainable operating model, Privacy of Data and Transactional Activity, Low Transactional Cost.

Blockchers Program is fully aligned with Alastria Next Steps Strategy.

Are you a startup working with Blockchain/DLTs? Be part of the Chain, Be part of Blockchers!

https://blockchers.eu/open-calls/