



nansen

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About



Co-Found and director of Nansen.io. Following a 19-year career in law enforcement, across two Australian jurisdictions, Rose took up a position with the Australian Public Service before co-founding Nansen.io a company focused on the development and use of emerging technologies to overcome some of our biggest global challenges.



Co-Founder and director of Nansen.io. Prior to Nansen, Andrew was a CIO, CSO and CTO in a variety of Federal Government departments and commercial enterprises in Australia and New Zealand and has led a variety of organization wide cloud migrations and digital transformations.

Nansen.io (Nansen) was established in Australia in 2019 by a small group of technology leaders who were determined to leverage emerging technologies to improve peoples' lives. Our think big, contemporary attitude ensures we look beyond traditional models to generate creative, sustainable and effective solutions that solve both existing and emerging global problems.

For organisations, Nansen provides a private blockchain solution that enables organisations to cost effectively integrate immutable blockchain storage into their existing IT services and workflows; providing the benefits of blockchain without the risk of large scale system deployment.

Blockchain

Blockchain allows transactions to occur with integrity and confidence, while not requiring personal knowledge or trust of the other party. Blockchain achieves this because it manages the trust within the system making third party trust models redundant.

Blockchain and a related technology called SmartContracts, allows for a transactions between two parties that do not implicitly know or trust one another, to occur without the representation of a third party escrow service. The system provides the required assurances for a transaction to take place. Blockchain achieves this by only allowing transactions to occur, by validating that the parties involved actually have the assets they are transferring and using technical controls to ensure that a transactions cannot be 'reversed' or altered at a later date.



Opportunity in the Resources Sector

Compliance & Transparency

Engineering, construction and handover of mining sites and their operation. Makes transactions traceable during the complex process of managing compliance with regulations, social trust and workplace compliance.

Mining Supply Chain

OECD Due Diligence Guidance around the ethical sourcing of minerals is driving the adoption of blockchain solutions to trace mineral supply from its origin to avoid human rights and conflict abuses. Ford and Volkswagen are leaders in this field.

Efficiency

Tracking of vehicles, automated preventative maintenance to avoid downtime and unnecessary replacements.

Provenance

Providing end users with clear and accessible information on the source and supply route raw materials have followed to reach them. Unique code tracking of diamonds and digital tokens for Cobalt mining are examples.

Ethical and Sustainable Mining

Unfortunately there are unethical miners out there, blockchain provides a way of monitoring compliance and workforce behaviour to ensure leases are only awarded to those who operate within the law.

Cross-Border Efficiency

Cross border funds transfers are notoriously inefficient and governance rules vary dramatically between countries. Blockchain provides a mechanism to manage all global operations in the parent companies regulatory framework.

Reserves Management

Company value is often tied to the reserves estimate. Blockchain provides for transparent management and reporting of reserves reporting to shareholders and the ASX.

New Approaches to Mining

Concepts such as 'Green Gold' where resources are left in the ground but traded on exchanges requires a solution such as blockchain that is immutable to minimise fraud risks.



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