Bitnobi
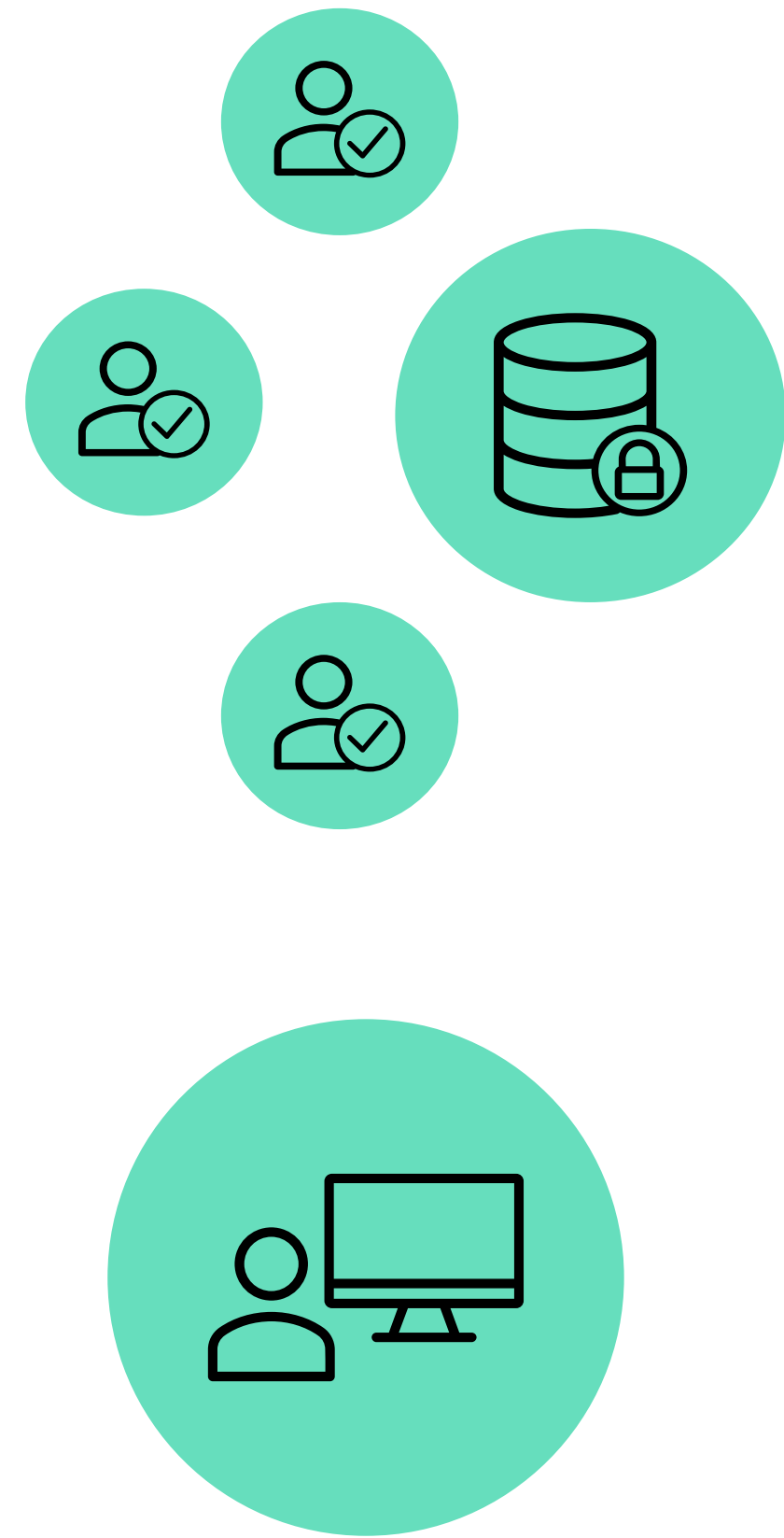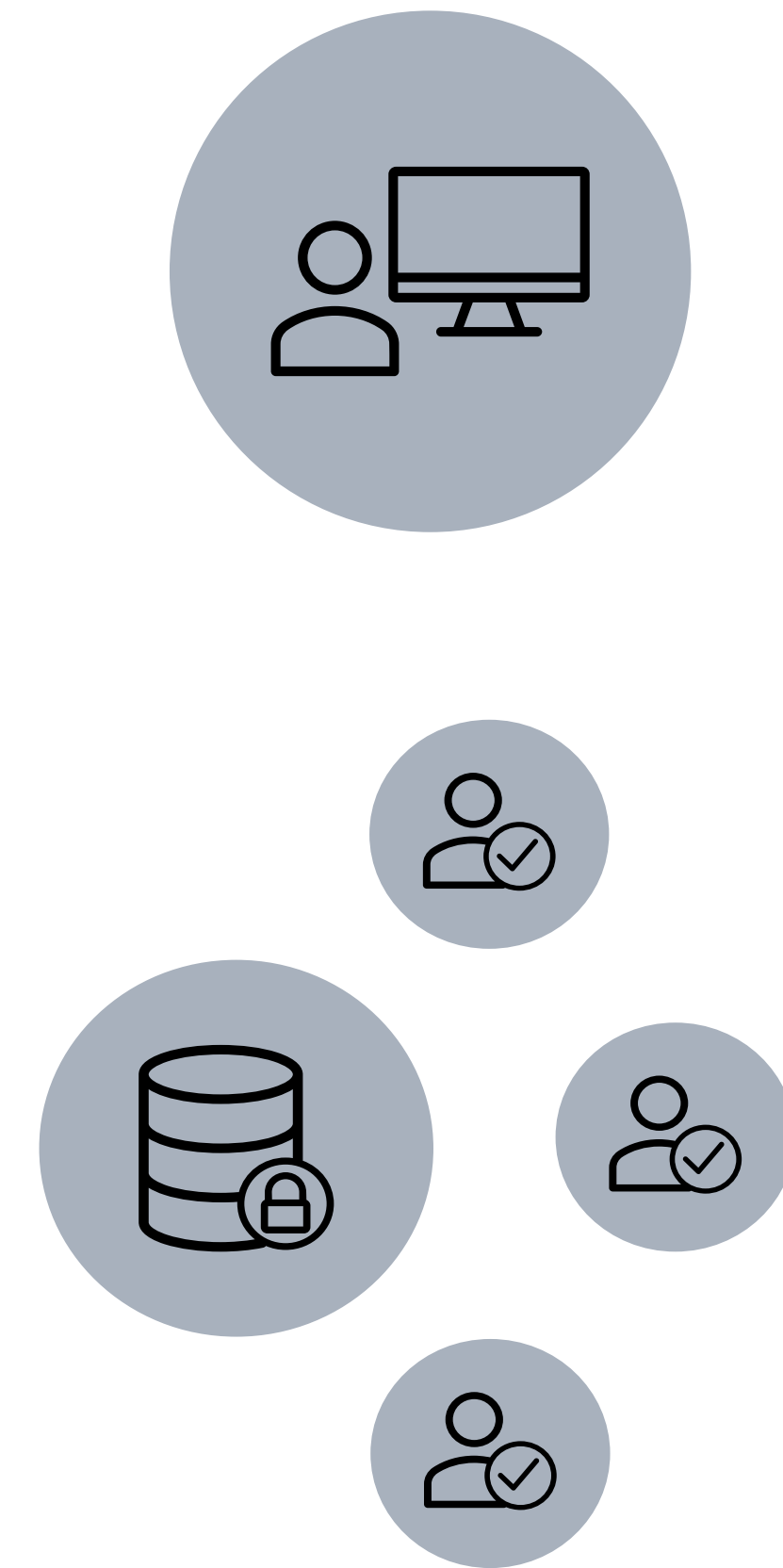
trusted, data sharing

Data Sharing Network Problems

How to engage in a data sharing network but still maintain ownership and control of the data

More problems

IT Administrators

- Requests to provision data
- Direct access or sandboxing data
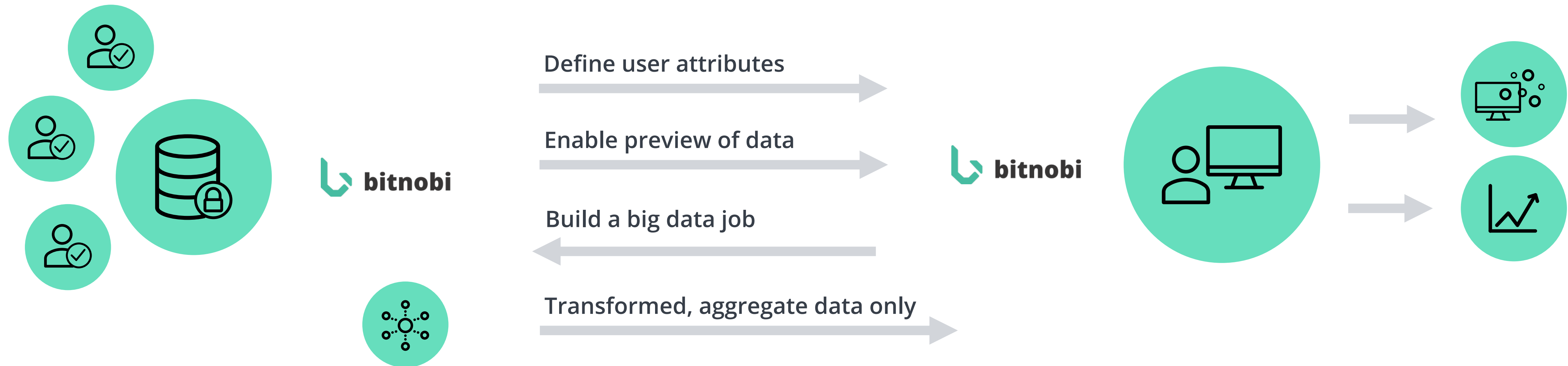- Very worried about data sovereignty

Business Analysts / Data Scientists

- Inadequate data access credentials
- Waiting long periods of time for data (inefficient)
- Too many data sets to sift through

How it works
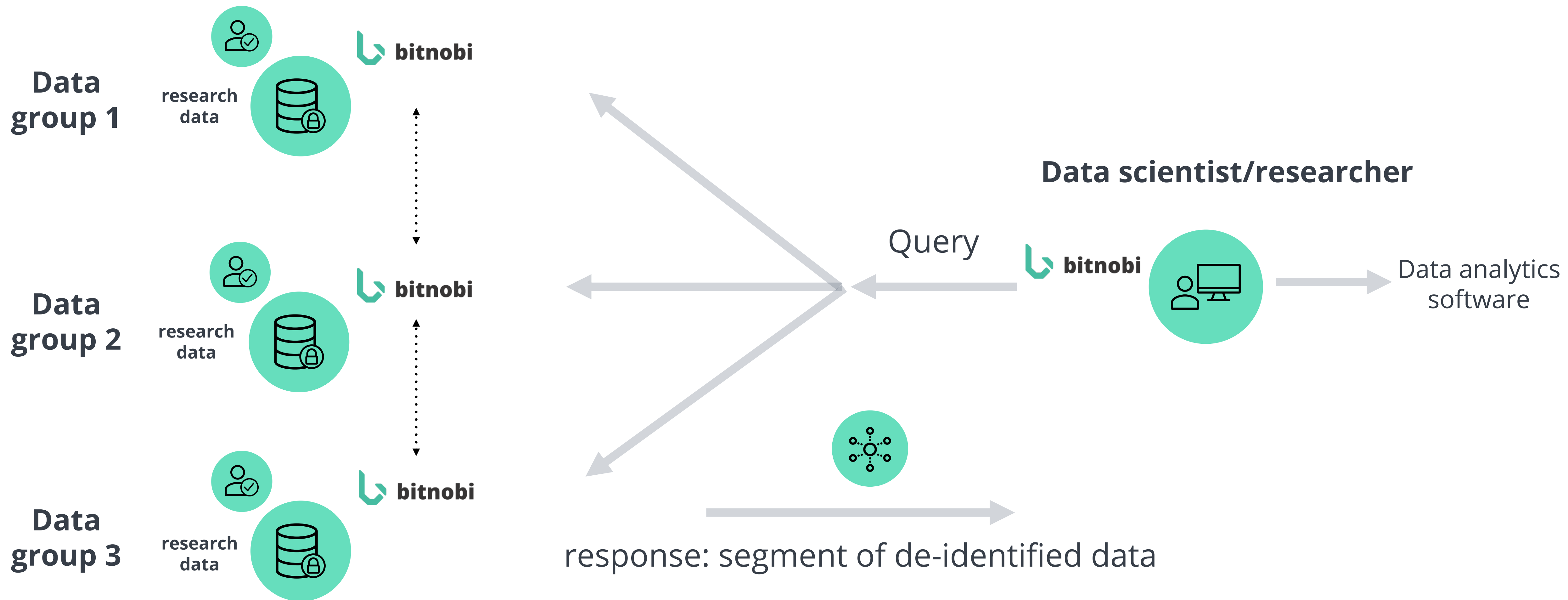
A privacy-protected, data sharing platform which keeps raw data at the source and sends aggregate data only to end user

Define user attributes

Enable preview of data

Build a big data job

Transformed, aggregate data only

bitnobi

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Federated data access sharing network

Data group 1

research data

bitnobi

Data group 2

research data

bitnobi

Data group 3

research data

bitnobi

Data scientist/researcher

Query

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Data analytics software

response: segment of de-identified data

With Bitnobi, a data owner has an opportunity to connect with other proprietary, research data repositories in order to expand the types of data sets made available to end users. Likewise, an organization's end users can be end users in the same scenario when trying to access data from other third party data providers.

Key benefits

Access to data in minutes instead of months

- Data providers set rules of engagement and rely on Bitnobi to move queries to their infrastructure for execution
- End users only see a preview of data while building their data query which is verified against data provider's privacy rules in run time

Enhanced security

- **20%* of data breaches happen because of copies of data being transferred to end users**
- With Bitnobi, end users leverage a segment of data for further data analysis instead of receiving copies of big data

User-friendly interface

- Enable end users of all skill levels to prototype, build and launch data queries
- Seamlessly combine datasets from multiple sources

Simplified interaction

- Facilitate the creation, setup and operation of a data sharing network
- Securely access approved external and internal datasets from anywhere with a single Bitnobi account

* see figure 13: https://www.f5.com/content/dam/f5/downloads/F5_Labs_Lessons_Learned_from_a_Decade_of_Data_Breaches_rev.pdf

Key Security/Privacy protocols and processes

- Bitnobi was designed and developed based on NIST standards.

- The solution is a prime example of "Privacy of By Design" wherein no raw data is stored, privacy is enforced in run-time as end users build out data queries.

- Penetration tests have been executed by Hitachi via Bitnobi's partner, Replica Analytics (RA) (https://replica-analytics.com/home). RA is using the Bitnobi solution as an integration point between their clients and RA's proprietary synthetic data generation technology.

- Roche's Global IT group has deemed the Bitnobi platform to pose no risk at all to Roche's IT infrastructure. Documents provided to Roche Global include a security risk assessment and a data classification report.

- Diabetes Action Canada successfully executed a pilot project test using Bitnobi in March 2021 for internal data sharing (using their NDR) and external data sharing (by accessing NFLD health data at Memorial University).

- Privacy protection in run-time is a key piece of Bitnobi's intellectual property portfolio. https://ieeexplore.ieee.org/document/7014180

Key Benefit of keeping data on site

- Mitigate the risk of data breaches since copies of data are not being moved to a centralized repository.

- Maintain data ownership by keeping data on site and providing access to small segments of approved data

Summary

Bitnobi allows organizations to maintain ownership and control of their datasets while enabling secure third-party data interactions

Big problem being solved for data providers, business analysts/data scientist

Bitnobi is a simple, easy to use tool that can be deployed quickly

Strong team bringing this technology to market

Thank you!

Learn more:

www.bitnobi.com/decentralized-data-sharing-network