A data sharing network allows an organization to generate better insights by enhancing their internal datasets with external datasets. In many cases, in order to participate in a data sharing network, organizations must send their datasets to a centralized repository that is controlled by a third party. Sending data to a third party increases the chances of a data privacy breach and hosting data in a centralized repository requires organizations to relinquish control of their datasets including what data is shared, who can access the data, and what they can do with that data.

Bitnobi, Inc. has designed and developed a patented, privacy protected, data sharing platform that enables a decentralized data sharing network by providing a solution that allows data providers to share access to data in a secure manner without releasing raw data or making copies of them. An organization can establish a secure connection with one or more remote Bitnobi servers to enable access to virtualized segments of approved external datasets so that end users can leverage a preview of data when building a data job. The end user leverages a simple, easy-to-use interface so that they can build and launch data jobs quickly on the data provider's infrastructure. Bitnobi allows organizations to maintain full control of their proprietary datasets while enabling secure third-party data interactions.

Quick Summary

Sector:
Big Data

Product:
Big Data access platform

Global data protection market:
$122 Billion (ResearchAndMarkets 2020 report)

Technology Milestones:
Version 1 available for demonstration. Generic demo video from a UI perspective can be found here: https://www.bitnobi.com/decentralized-data-sharing-network-use-case

Strong customer traction in government & digital health informatics market

Business Model:
Enterprise software license fee the is dependent on the number of users and data sources. Additional charges for maintenance and support

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Features:

- User attribute-based, dynamic access control for data providers.
- 100% web-based platform.
- Visual workflow interface with python and R scripting capabilities for custom queries to execute sophisticated, mathematical analysis.
- Internal data visualization tools and integration with third party, data analytic tools for advanced visualizations.
- Blockchain-based, data audit log available to data provider.

Markets:

- Healthcare (https://www.cphin.ca/lung-kick-start-program/)
- Defense (https://www.prweb.com/releases/tehama_bitnobi.htm)
- Finance (https://fintechsandbox.org/startup/bitnobi-inc)
- Smart City IoT

Benefits:

- Mitigate the risk of data breaches in external data sharing by ensuring copies of data are not being distributed, copied, or misused.
- Facilitate the creation, setup and operation of a data sharing network while providing transparency to all stakeholders.
- Securely access approved external and internal datasets from anywhere with a single Bitnobi account.
- Seamlessly combine datasets from multiple sources.

Intellectual Property:

- US9590992 (Grant), US10185773 (Grant), CA2855136 (Grant), "Systems and Methods of Precision Sharing of Big Data", filed on June 23, 2014.
- CA2931041 (Grant), CN10711383, US2018293283, "Systems and Methods of Controlled Sharing of Big Data", filed on November 13, 2015.
- PCT/CA2020/050006, "Distributed Governance for Shared Big Data", priority date is January 10, 2019.
- US63/240,475, "Federated Bitnobi", filed on September 3rd, 2021

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