Bitnobi

trusted, data sharing

External Data Sharing Problems

How to engage in third-party data sharing while maintaining control of the data and conforming to security and privacy rules

External end users
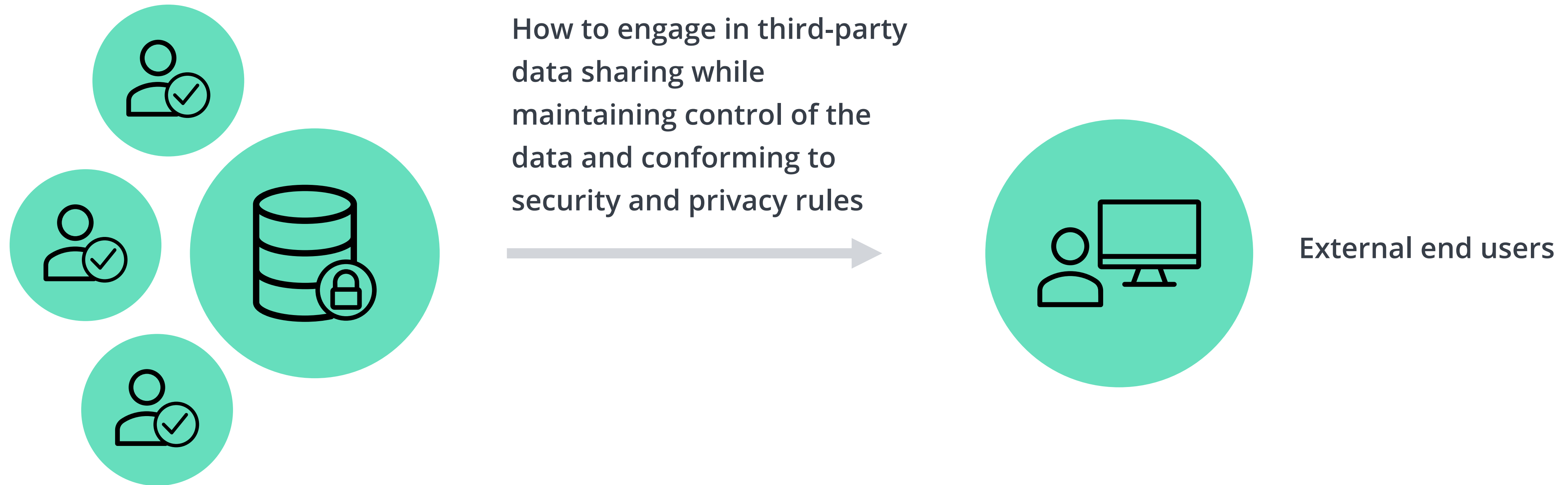
More problems

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
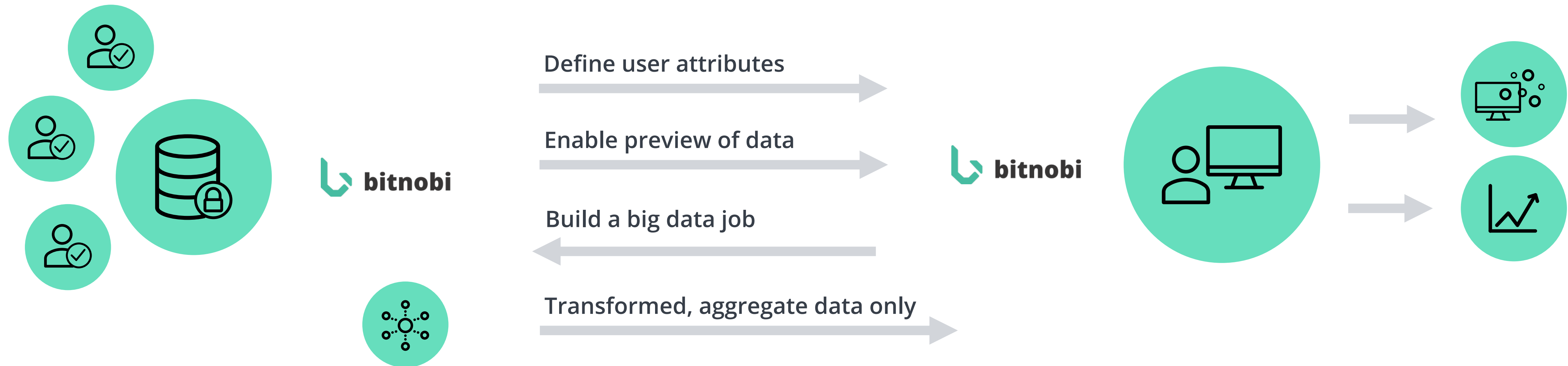
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Key benefits

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
- A 100% web-based platform allows secure access to data from anywhere

Simplified interaction

- Move the end user's query to the data provider instead of moving copies of data to the end user

* 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 other locations.

- Maintain data ownership by providing access to small segments of data as opposed to having end users keep a copy of raw data on their own platforms or machines.

Summary

Bitnobi allows organizations to maintain control of their datasets while enabling safe and secure external data sharing

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!

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Learn more:

www.bitnobi.com/external-data-sharing