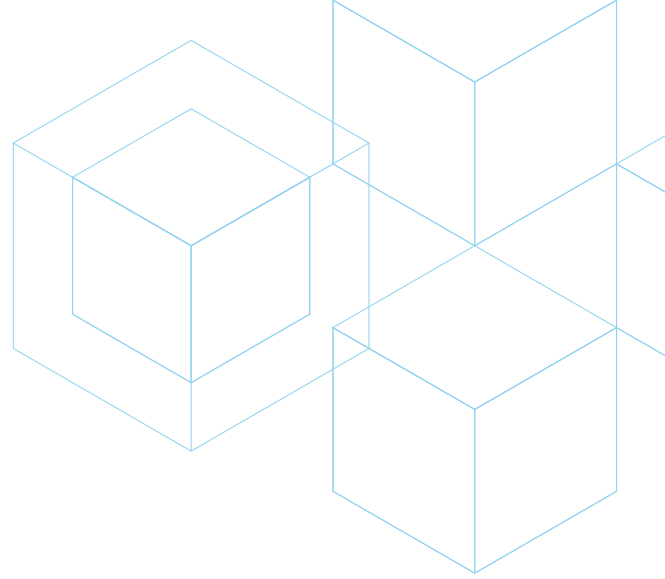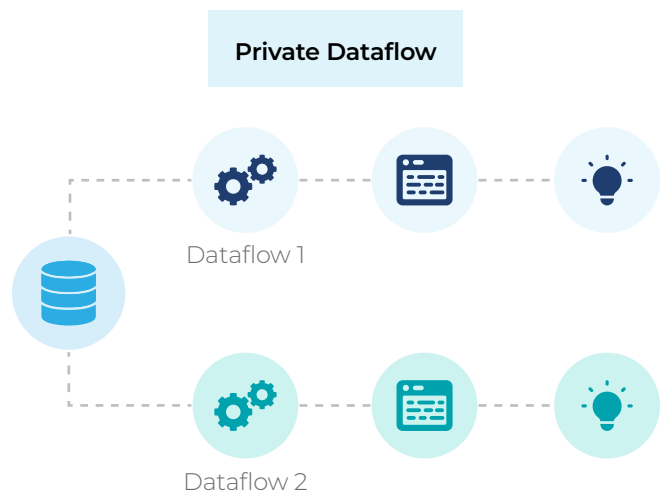# Bring **Compute** to Data

Protect proprietary and sensitive data, meet regulatory compliance, reduce operational costs, and protect IP.

Controlling Data Access Across Business Functions and Data Domains

As data becomes a strategic asset, companies need to audit access to data by applications and provide policy driven enforcement of compliance and governance rules. This need becomes more urgent when data contains private and confidential information. Moving copies of data endangers it and violates the principle of data locality which proposes moving the computation to the computer where the data resides. Data locality helps minimize network congestion, computation throughput, and often reduces cloud operational costs.

Using SafeLiShare's PDAAD (Policy Driven Access to Applications and Data) technology, data is made accessible to multiple dataflows running on designated compute environments while enforcing all compliance and governance policies. Additionally, data and applications are always encrypted and are only made accessible within secure enclaves built using confidential computing technology. Auditability, visibility and traceability of all accesses to data by applications is enabled.

Data Governance Policies

Private Dataflow

Dataflow 1

Dataflow 2

"Bring compute to data" with Policy Driven Dataflows ensures compliance, protection, and auditability.

Using Policy Driven Dataflows on public clouds to transfer cumulative results enables the ability to run modern applications on third-party infrastructure in a scalable way while protecting intellectual property and privacy.

Privacy, performance, and protection are never compromised as computation scales up or down.

Keeping Data Protected: Your Data Never Moves

Policy Driven Dataflows keep data protected without ever having to move data to a different network domain. Instead, encrypted applications are brought to the data, mitigating data leakage risks while preserving data locality.

In ML use cases, encrypted models are provided to the data partner. Re-training of models while preserving privacy of data elements is achieved using proprietary SafeLiShare technology.

Improved Learning through Data Aggregation

Another variation of "bring compute to data" occurs in use cases where data is aggregated into larger datasets, leading to improved analytics. However, in many sectors (e.g., in healthcare and finance) the ability to aggregate data is significantly hampered by compliance policies and regulatory measures that prevent data from being moved across jurisdictions.

SafeLiShare Brings Compute to Data

Rather than move data between jurisdictions, SafeLiShare's solution allows encrypted applications ('compute') to be moved to the jurisdiction where the data resides. It also allows encrypted applications to be moved across data and network domains, including across organizations. Application and data owners state policies governing the usage of their respective assets. These governance rules are enforced using SafeLiShare's PDAAD (Policy Driven Access to Applications and Data) technology that also provides auditability, trackability and visibility of all data accesses.

To protect the application's IP, as encrypted applications move to a new network domain, they always remain encrypted and cannot be accessed by any third party.

Encrypted Application   Data
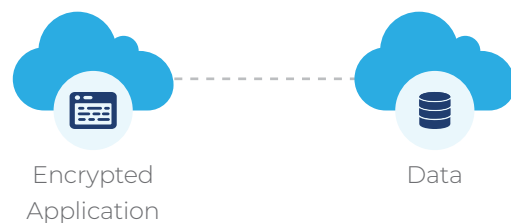
By bringing compute to data, SafeLiShare ensures that data is always protected and never copied, shared, or centrally aggregated.

About SafeLiShare

In an era when data has become the product for many enterprises, and faces increased scrutiny due to tightening global regulations, SafeLiShare was founded with a vision to provide application specific access to data. All operations on data by applications are made visible, auditable, and trackable. Multiple governance policies can be enforced simultaneously. Powered by confidential computing technology, policies drive compliance and governance throughout an enterprises' multiple business functions, data domains, and even across to external business partners engendering a new class of business models based on ownership of data and applications.

SafeLiShare