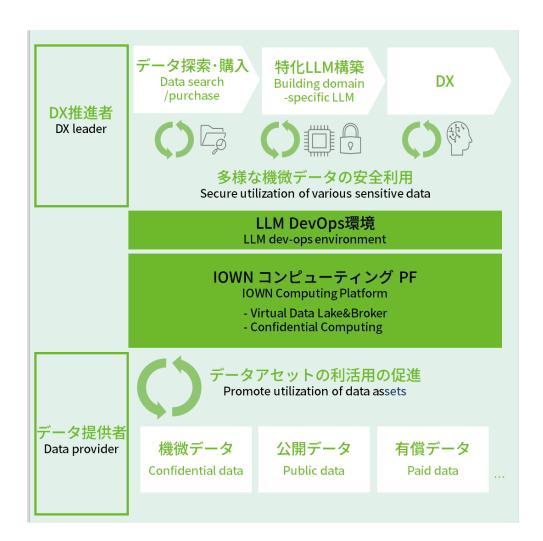# Building domain-specific LLM by sharing data from multiple companies
Build LLMs specializing in medicine,finance,etc. by securely sharing and processing data
#Productivity Improvement #Customer Experience Value Creation

DX推進者
DX leader

データ探索・購入
Data search /purchase

特化LLM構築
Building domain -specific LLM

DX

多様な機微データの安全利用
Secure utilization of various sensitive data

LLM DevOps環境
LLM dev-ops environment

IOWN コンピューティング PF
IOWN Computing Platform

- Virtual Data Lake&Broker
- Confidential Computing

データアセットの利活用の促進
Promote utilization of data assets

データ提供者
Data provider

機微データ
Confidential data

公開データ
Public data

有償データ
Paid data

…

///Technical Issue

[DX leader]・Lack of training data when building domain-specific LLM
[Data provider]・Unauthorized use of data assets as training data.

///Research Goal

Building domain-specific LLMs by providing safe use of various data can drive Digital Transformation in various industries.

---Technology

[Virtual Data Lake & Broker] Virtual integration of data while governance of the data owner is in effect.
[Confidential Computing] Hardware Trusted Execution Environment (TEE) for confidential processing.

---Novelty

- Realize data utilization across multiple companies through "virtual integration" without data duplication.
- The application of TEE to training and inference processing by GPUs.

---Applicable Business

- Utilization of various training data such as electronic medical records and academic data from research institutions, open databases for building the medical specific LLM.
- Utilization of various training data such as transaction data and news/media information held by financial institutions for building the financial specific LLM.
  Service availability : FY2027