



A Large-Scale Data Clean Room Case Study in Japan: Confidential Computing and Privacy Regulations



Acompany Co., Ltd.

Confidential Computing Summit 2026
June 24, 2026

Key Points of This Session

CC: Confidential Computing

Regulation

- **Japan's laws are changing** — CC is expected in guidelines
- Japan's CC market is expected to expand

Technology & Case

- Our Data Clean Room (DCR) works under current law
- Adopted by a **Fortune Global 500** company — **40M users**

Who We Are



Japan's Confidential Computing Startup

TODAY'S PRESENTERS



Takao Takenouchi VP of Public Affairs / Strategic Alliance

20 years in this field. Now bridges technology and law to advance PETs and confidential computing.

PRESENTS

Law & policy



Takeharu Kondo Co-founder / Chief R&D Officer

Leads R&D taking TEE and confidential computing production-ready, now focused on confidential AI.

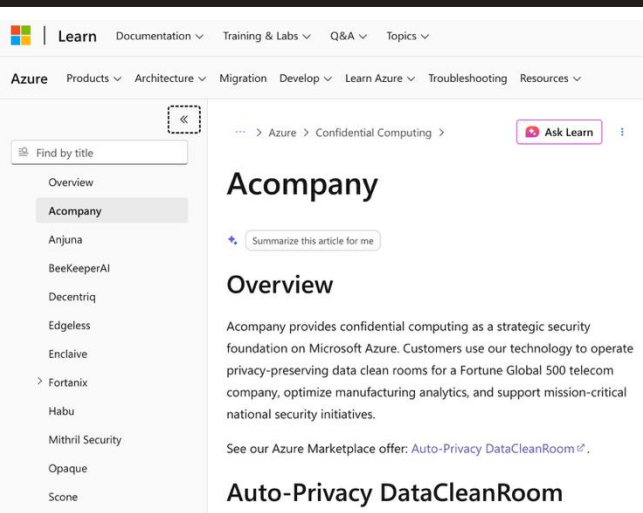
PRESENTS

Technology & case study

Acompany's Strengths

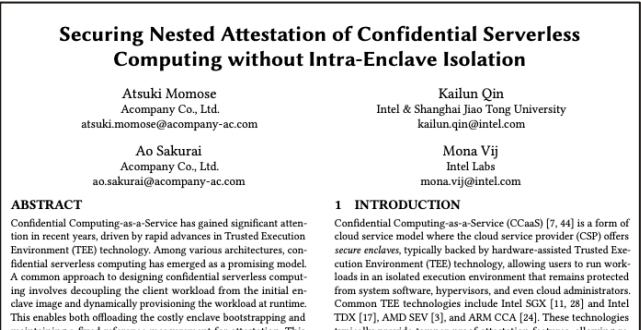
Trusted in both the technology and the community of Confidential Computing

Azure CC Partner



Source: <https://learn.microsoft.com/en-us/azure/confidential-computing/partner-pages/acompany>

Joint research with Intel Labs



Source: <https://eprint.iacr.org/2025/727>

CCC Member



Deployment at a Fortune Global 500 company



Source: <https://en.acompany.tech/news/kddi-acompany-partnership>

Acompany Leads Japan's Confidential Computing Community

- In Japan, Acompany founded an industry group, the Privacy Tech Association.
- We lead technical outreach and policy advocacy

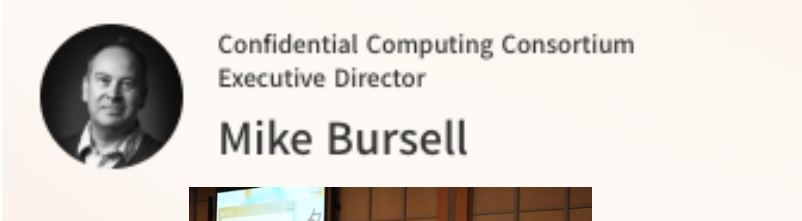
Member Companies



Community Activity

Technical Outreach

- Held a hybrid event on CC with around 500 participants
- Featuring a message by Mike Bursell of the CCC



Policy Advocacy

- Proposed updates to Japan's privacy laws and security guidelines
→ More details later

Challenge & Solution: Technology and Law

Main theme: Japan's laws are changing and its CC market is set to expand — so CC is becoming part of the rules.

THE CHALLENGE

Companies couldn't share data across organizations — exactly what AI needs



Technology

Our DCR works under current law —
Fortune Global 500, 40M users

→ **Next: Kondo**

Policy

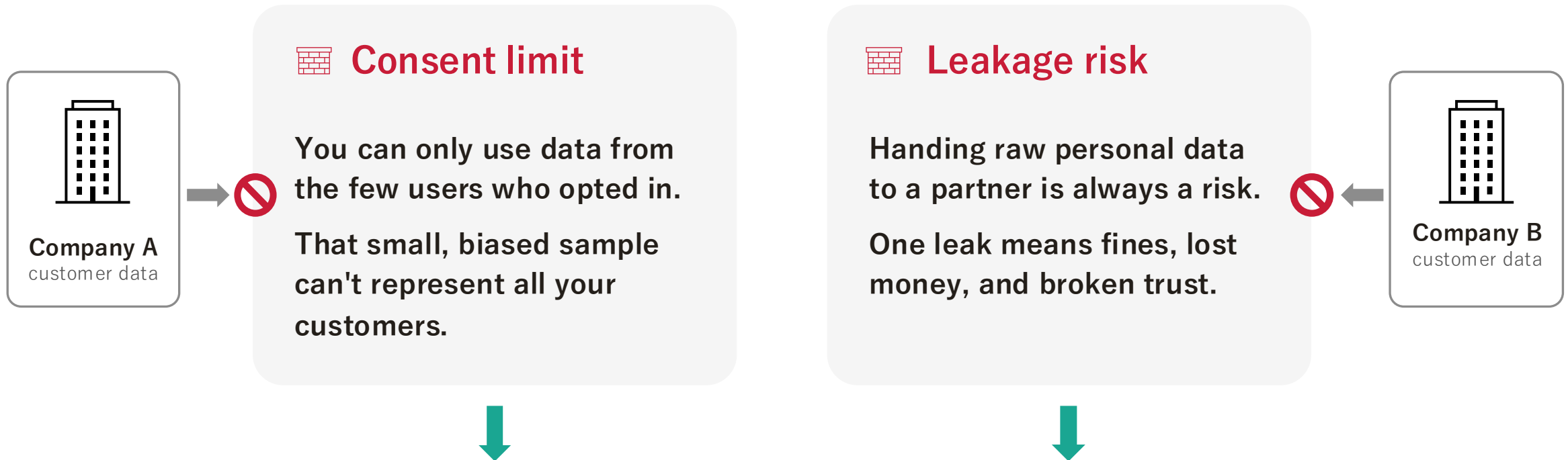
As the law advances, CC is set to
enter official guidelines

→ **Later: Takenouchi**

Data Clean Room in Practice

Two walls block data sharing between companies

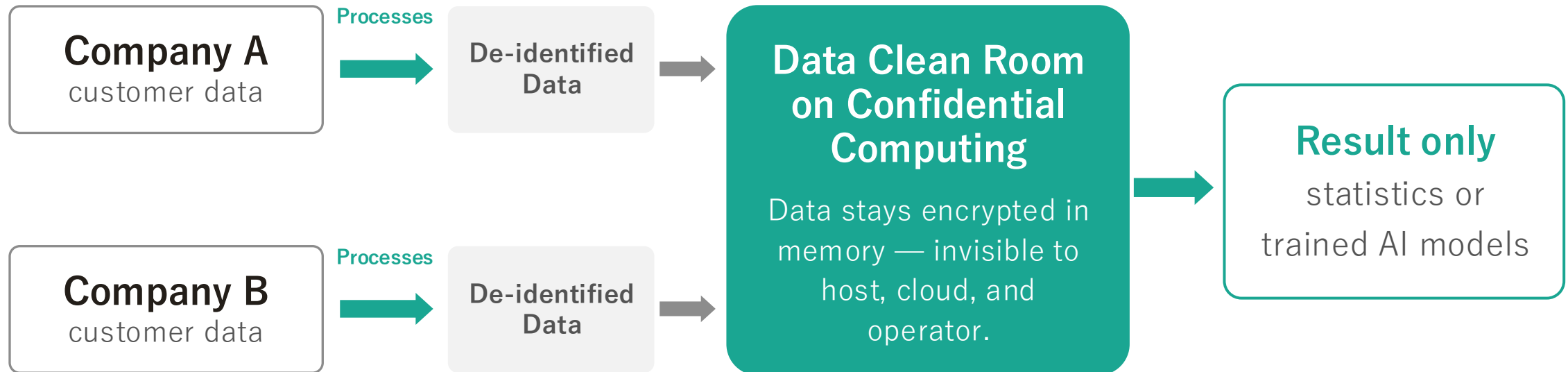
You need other companies' data to understand customers better — but **consent and leakage risk** stand in the way.



A Data Clean Room removes both walls at once.

With a Data Clean Room, you can leverage data without revealing it

1. Each company processes customer data as **de-identified data**
2. Analysis runs in **Confidential Computing (CC)**



Minimize the risk of re-identifying personal data

1. Apply k-anonymity, salted hashing, and differential privacy to turn data into de-identified data
2. Run data matching and statistical/AI processing in CC to **minimize re-identification risk**

● De-identification



Apply k-anonymity, salted hashing, and differential privacy to produce de-identified, processed data.

● Confidentiality



Processing inside the clean room keeps the analysis that follows data matching confidential.

● Verifiability

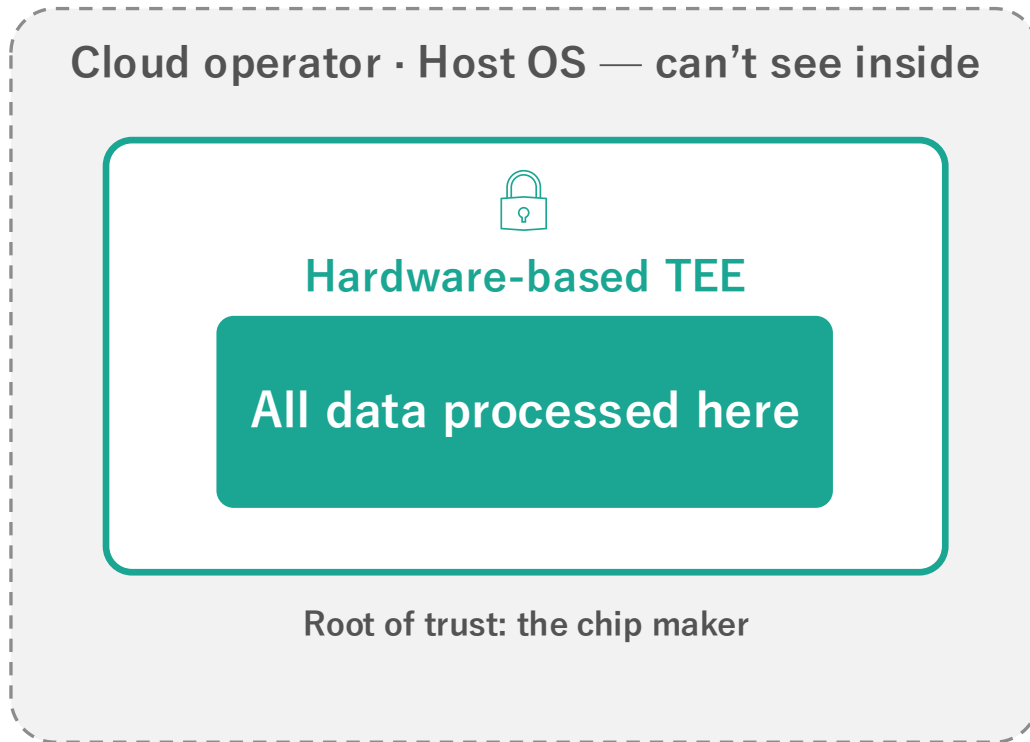


Remote Attestation lets external parties verify that the processing was agreed on in advance.

The clean room enforces these guarantees in code, before anyone can see a result.

Security rooted in the hardware

Your data runs inside a hardware-based TEE, so **not even cloud providers or the host OS can access it while in use.**



Hardware-based TEE

Runs inside Intel SGX. Memory is encrypted and hidden from the host OS.



Remote attestation

Before sending data, the enclave proves which code is running — and that it has not been changed.

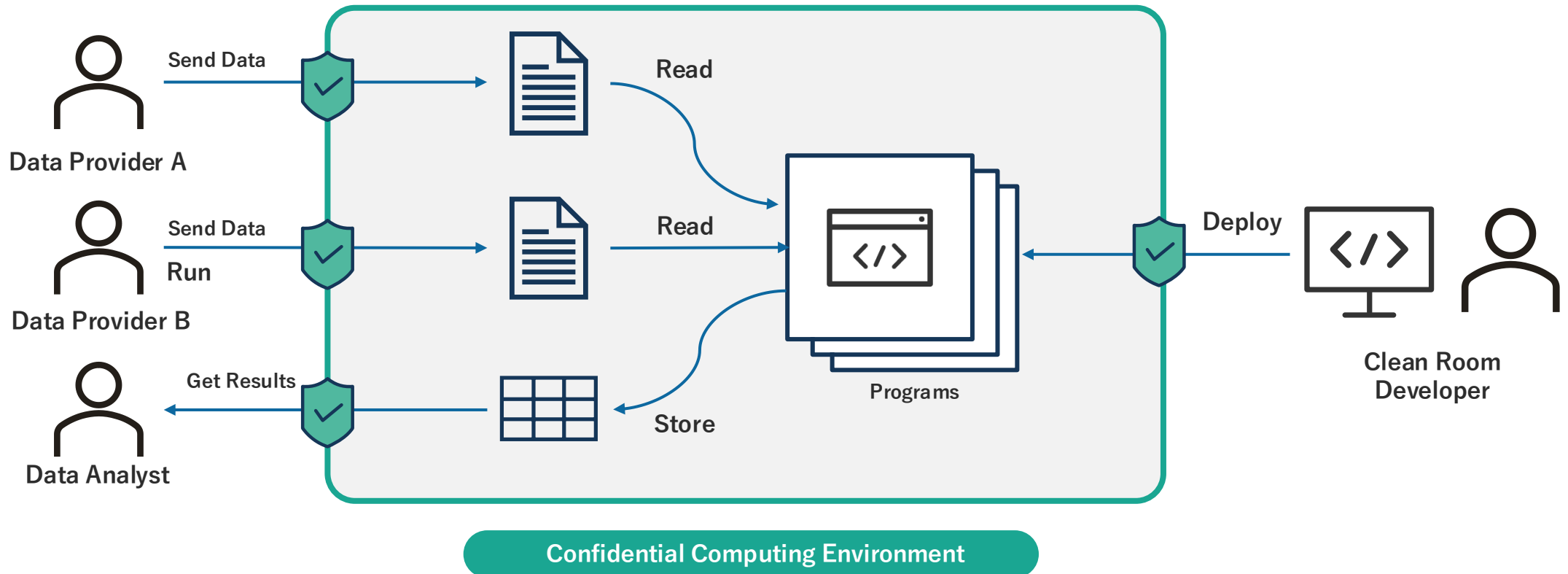


No data retention

All data is deleted after use. Each session uses new keys.

Composed of entities with three roles

- Data Provider: Holds the data to be fed into the clean room
- Clean Room Developer: Develops and deploys the programs that run inside the clean room
- Data Analyst: Runs the clean room programs and receives the results



The whole exchange is four commands

Each entity interacts with the data clean room through **a single CLI tool**

1 Deploy the room (clean room developer)

```
apc cleanroom deploy --name cross_table_app \  
  --source ./function --handler handler.run \  
  --encrypted-files ./encrypted_files.yaml
```

2 Send encrypted data (each data provider)

```
apc cleanroom data cp ./inputs/input_a \  
  cross_table_app:input_a
```

3 Run (analyst)

```
apc cleanroom run cross_table_app
```

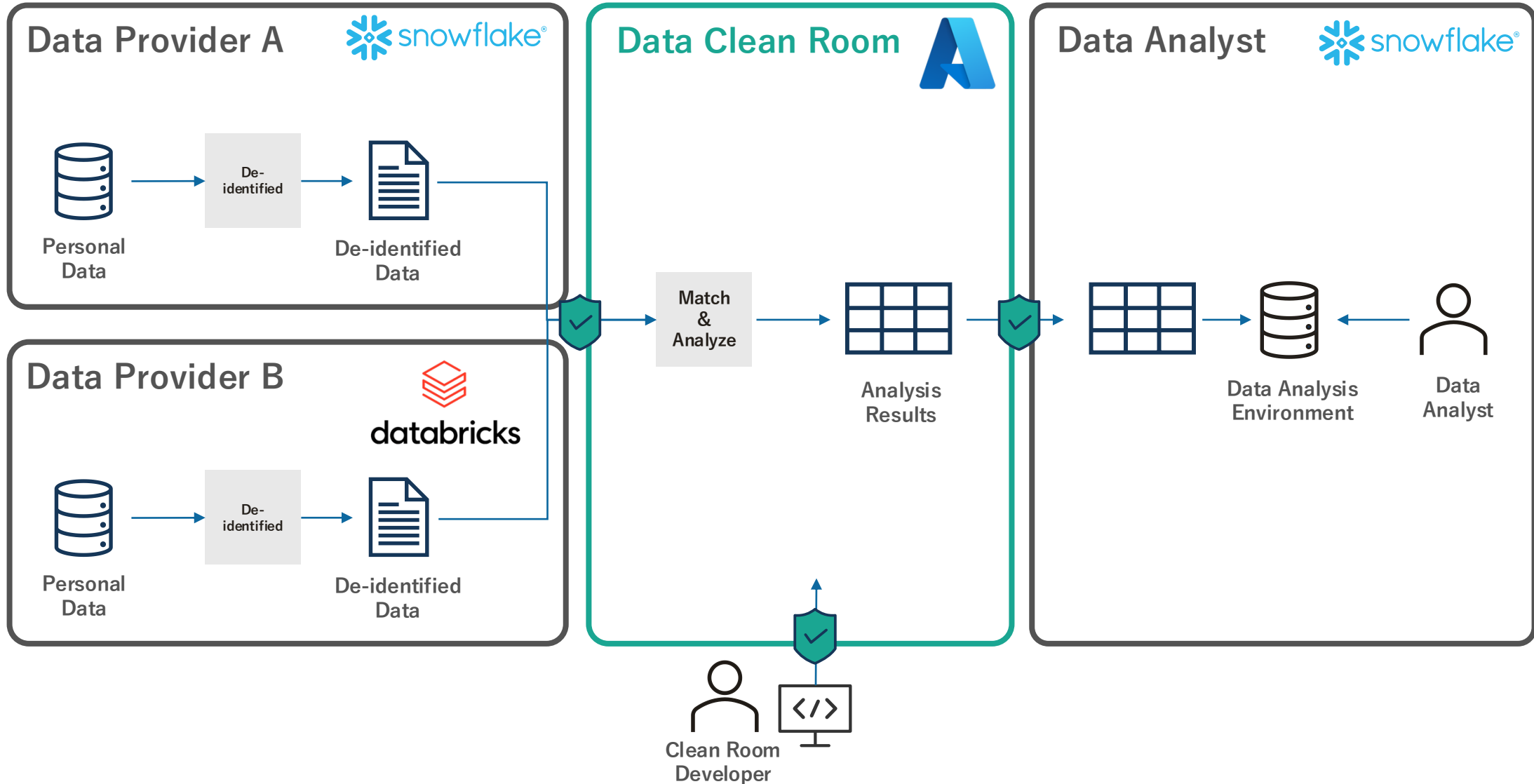
4 Retrieve (analyst)

```
apc cleanroom data cp \  
  cross_table_app:output ./output
```



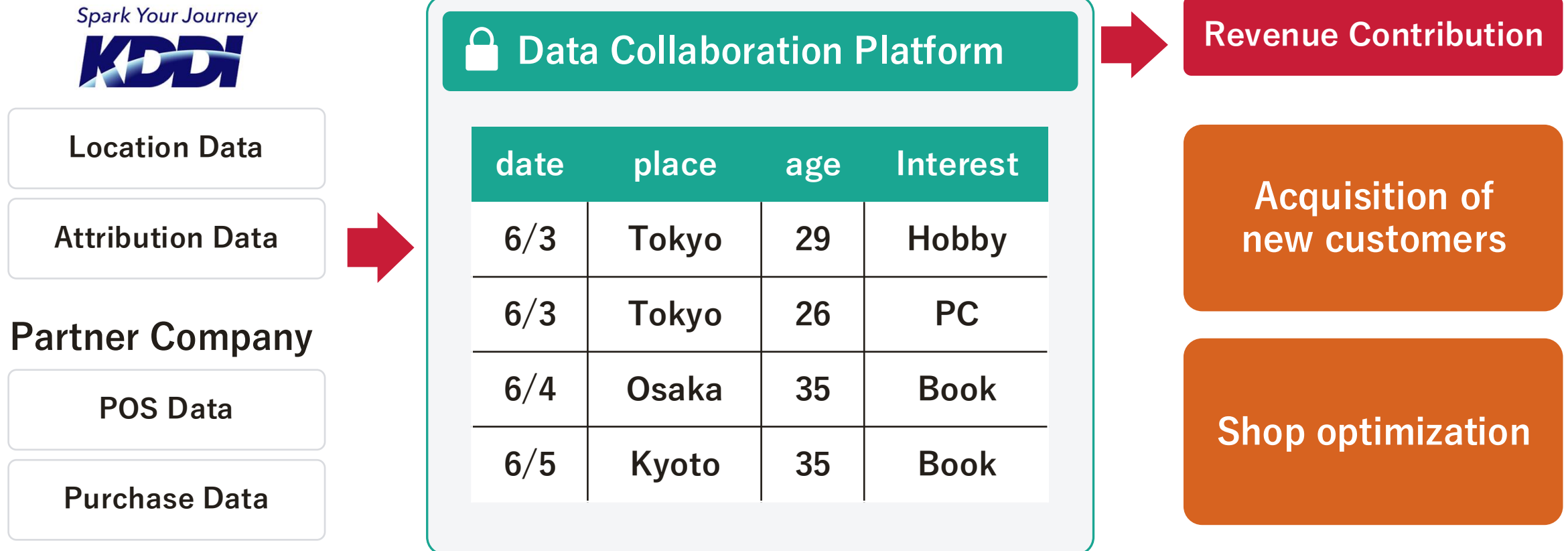
One CLI tool.
Four commands.
A complete data clean room
exchange.

Example Implementation Using Snowflake, Databricks & Azure



Already running in production

- **Fortune Global 500 company KDDI** runs its data collaboration on our Data Clean Room
- It combines its **40M-user data** with partner data for cross-tabulation, driving smarter sales and marketing



Japan's Regulatory Landscape for CC

Japan's Regulatory Developments for CC

- The Japanese government aims to realize "Trustworthy AI"
- Trustworthy AI requires Confidential AI — and Sovereign AI
- To realize this, Acompany is advancing how CC and the law fit together, through the industry group

The Japanese Government's AI Strategy

ARTIFICIAL INTELLIGENCE BASIC PLAN

— “Japan Rebooted” through “Trustworthy AI” —

December 23, 2025

Cabinet Decision

人工知能基本計画
～「信頼できるAI」による「日本再起」～

令和7年12月23日
閣議決定

This **trustworthiness** is a core pillar of Japan’s globally respected brand

We will actively apply AI to pressing challenges, accumulate experience as data, and share it across organizations to **create “Trustworthy AI” that is a reliable presence for the world.**

Source:

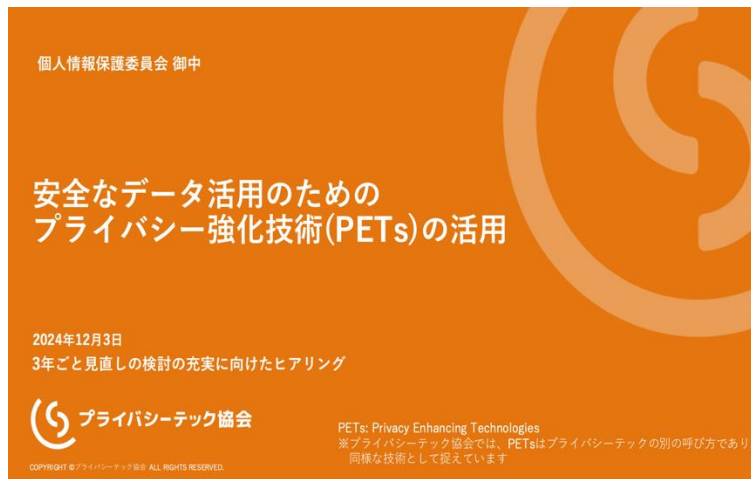
https://www8.cao.go.jp/cstp/ai/ai_plan/ai_plan.html

https://www8.cao.go.jp/cstp/ai/ai_plan/aiplan_eng_20260312.pdf

Our Action 1: Amendment of Japan's Privacy Law (APPI)

- Acompany takes part in this discussion, highlighting the value of Confidential Computing
- Now that the amendment has passed, we plan to get CC included in the official guidelines *1

We proposed CC



Source: <https://privacytech-assoc.org/news/25-0107>

PETs, including CC, heading into the rules

As a result, a supplementary resolution in the Diet recommended PETs, including CC



Kiyoshi Sawaki, Secretary-General, Personal Information Protection Commission

Privacy Enhancing Technologies (PETs) is a promising technology



Akiko Murakami, Director of AISI Japan

By building in the latest PETs as guardrails, we can drive data use and strengthen Japan's AI competitiveness.

*1: As of June 2026, the amendment has cleared the lower house and is now before the upper house.

Our Action 2: Recommending CC in Critical-Infrastructure Guidelines

- Japan’s critical-infrastructure guidelines have recommended protecting data in use since 2023.
- But the text was outdated — so our organization requested an update, and it was agreed.

Current text

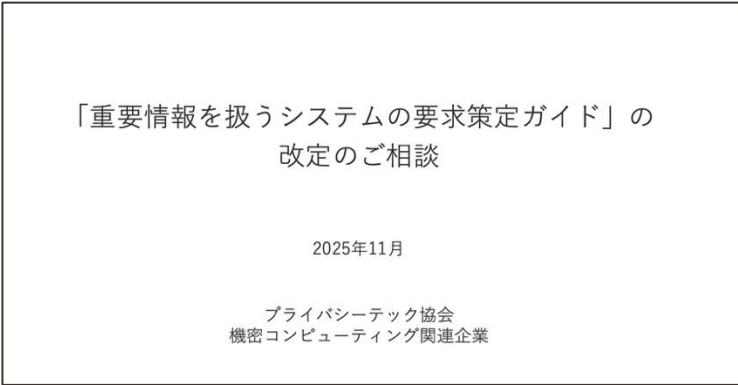


Ensuring encryption of data in use

Even if an attacker targets the hardware, or a privileged operator acts maliciously, the contents of data in memory cannot be read.

We are proposing revision

We submitted a formal opinion, together with CC companies



Source: <https://www.ipa.go.jp/digital/kaihatsu/system-youkyu.html>

Conclusion

Takeaways

In Japan, CC and the law are coming together — and the market is opening up. Let's build Japan's safe AI infrastructure, powered by Confidential AI — **together.**

Chip vendors — grow the market with us

Cloud / Data Center — offer Confidential VMs in Japan

Frontier models — host your models in Japan

Policymakers — let's shape the rules together



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