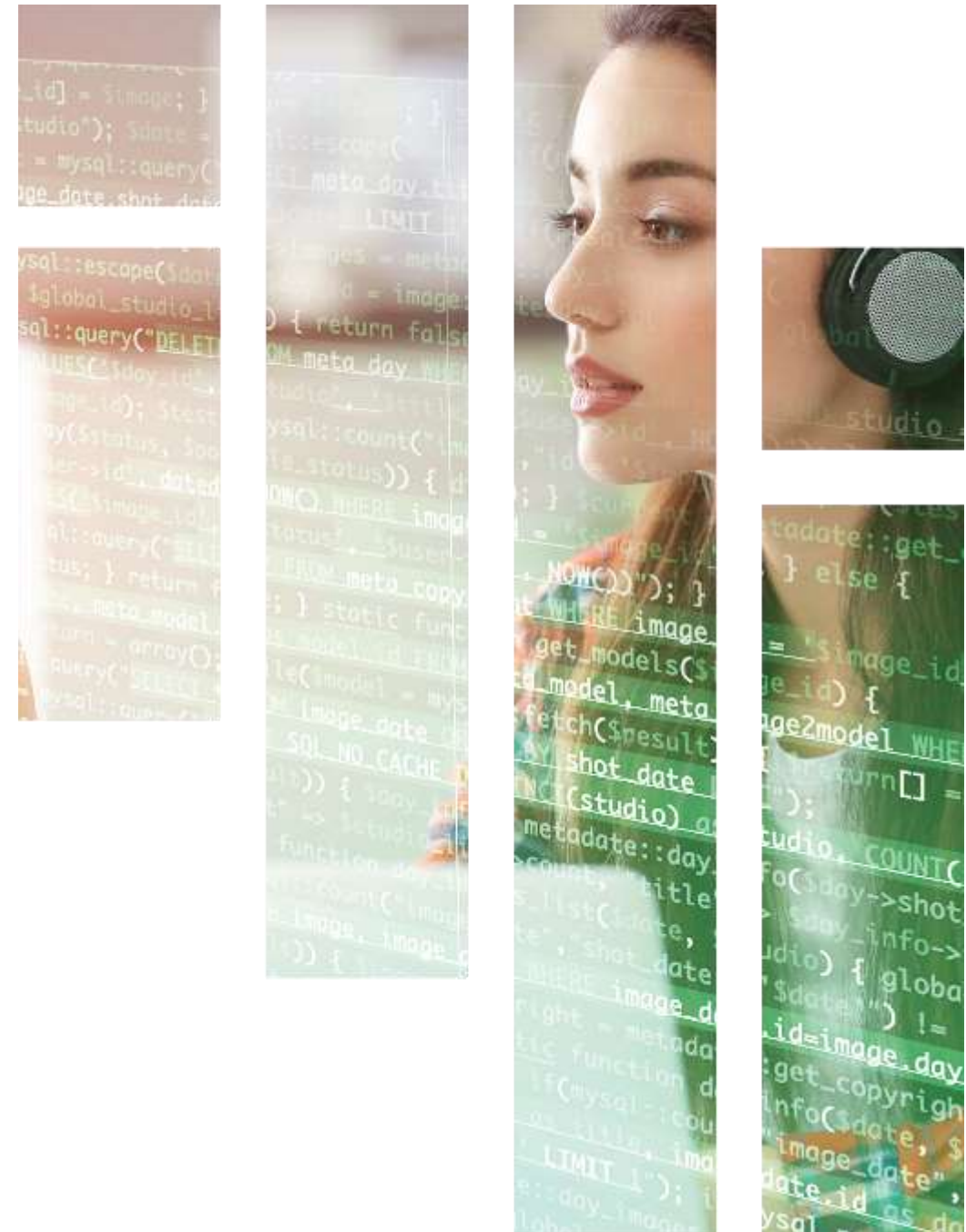


Demystifying Confidential Computing

A Game-Changer in the World of Privacy & Security

Dr Richard Searle

Vice President of Confidential Computing





Founded in 2016

Ambuj Kumar, CEO & Co-founder
Anand Kashyap, CTO & Co-founder

MORE THAN 20 INDUSTRY AWARDS

RSA Innovation Sandbox Finalist
Gartner Cool Vendor



**Fortanix® is the data-first security company
and pioneer of Confidential Computing**

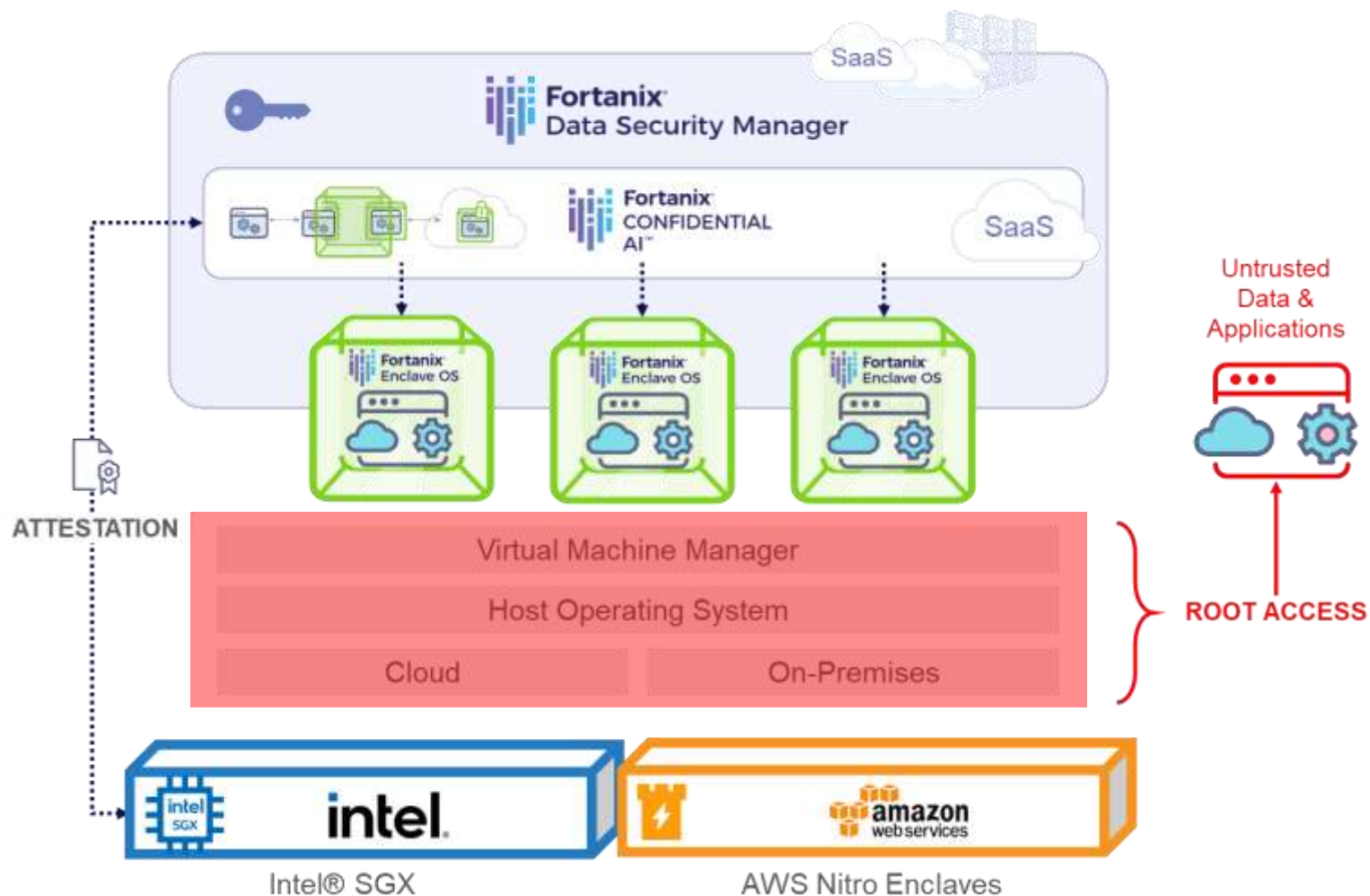


**Recently ranked as one of America's fastest
growing companies**



What is Confidential Computing?

Protecting Data In Use



“Confidential Computing is the protection of data in use by performing computation in a hardware-based attested Trusted Execution Environment.”

- Confidential Computing Consortium



<https://confidentialcomputing.io/white-papers/>

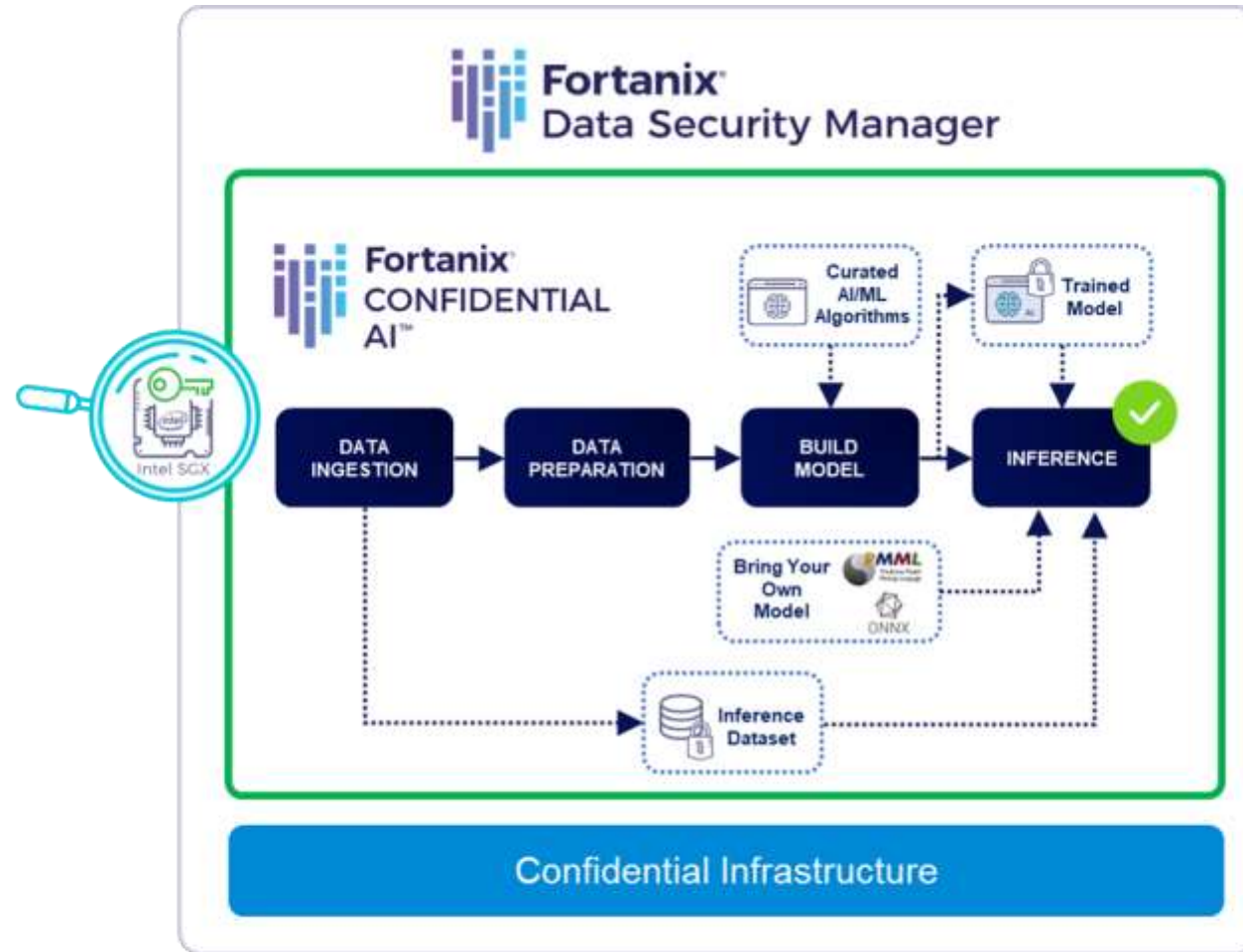
Confidential Computing in Action

[illegible][illegible]

How is Confidential Computing Transforming Privacy and Security for Data and Applications?

- Confidential Computing closes the loop by protecting **data in use**
 - **full-lifecycle data security**
- Confidential Computing supports **deployment flexibility and workload explainability**
- Compatible infrastructure is now available from **all major cloud service providers**
- Attestation supports **zero-trust** application **authentication and integrity verification**
- Confidential Computing proving a **disruptive source of business innovation**

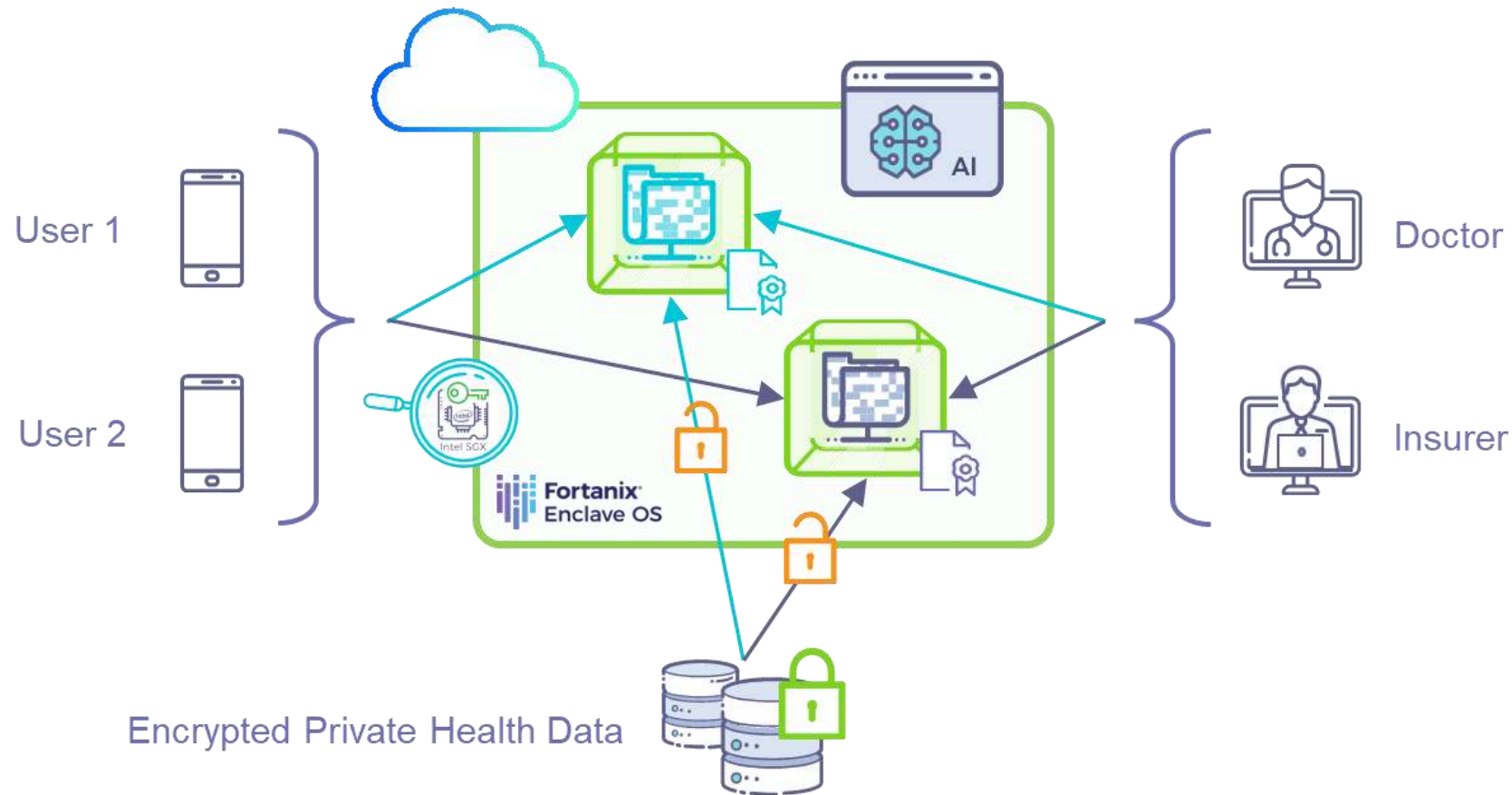
Confidential Computing Made Simple with Fortanix



Examples of Confidential Computing Today

Enabling User Control of PHI

- Protecting electronic health records (eHR) for up to 75M German citizens
- Enabling patient control over protected healthcare information (PHI) under EU GDPR
- Scalable from the initial production service launch on 1 January 2021



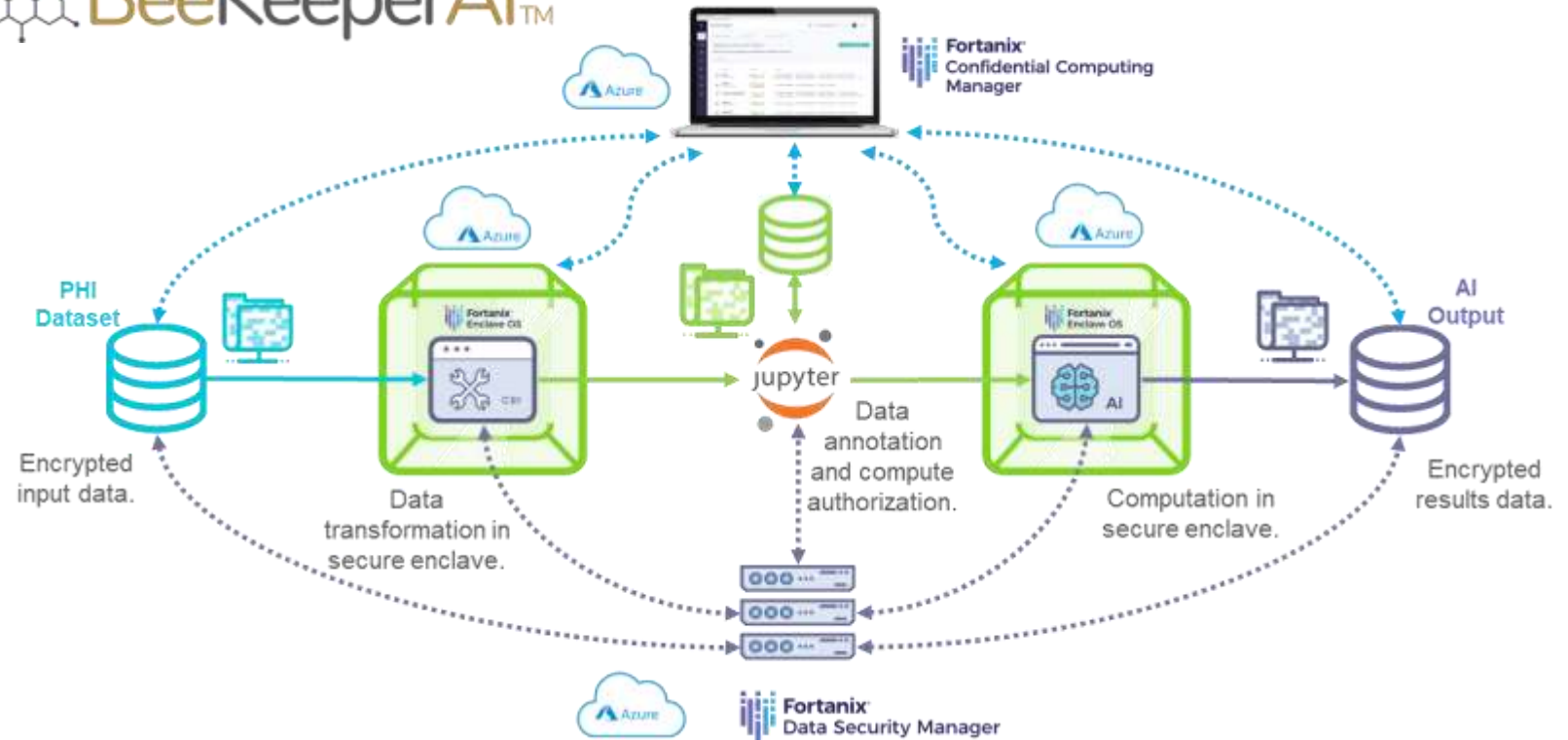
Accelerating Healthcare AI

BeeKeeperAI is a pioneer in combining zero trust, confidential computing, and privacy preserving analytics for the training, validation, and deployment of artificial intelligence.



Michael Blum, MD
Co-founder & CEO of BeeKeeperAI

"As the former Chair of the IT Security committee at UCSF, I developed a deep appreciation for the need to secure our data while making it available to advance the mission of the organization."



Today

- 16-30 months and \$1.5-\$2M to validate an algorithm
- Secure compute on protected data – unable to leverage cloud
- Protracted contractual negotiations to ensure privacy

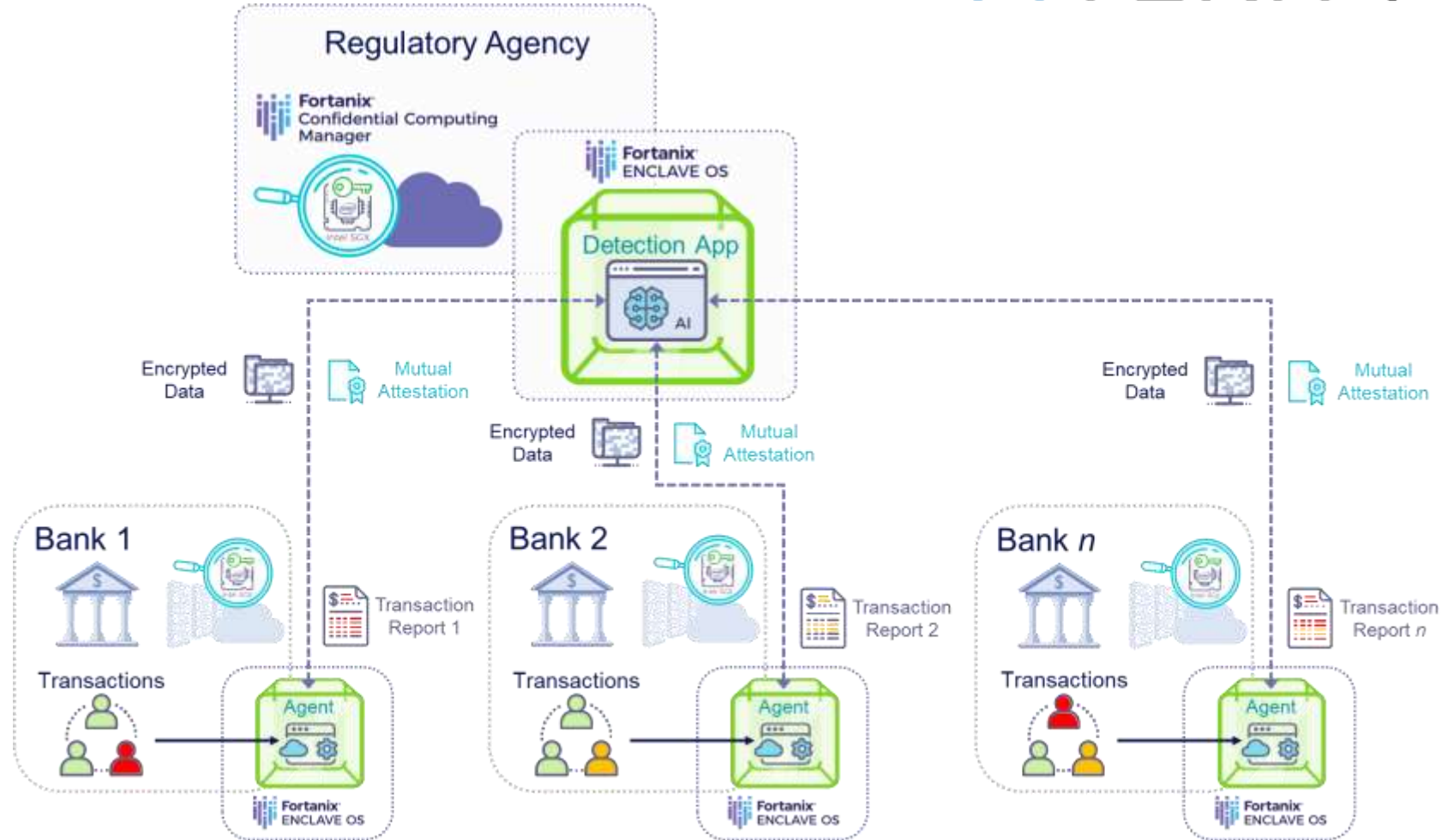
With Confidential Computing

- 1000x acceleration in time to market
- End-to-end encryption of all private data with zero trust
- Streamlined workflow for regulatory approval of healthcare AI systems

Preventing Financial Crime

- Synthetic-identity fraud detection with FiVerity
- Banks are able to share encrypted account data and network telemetry for aggregated data analysis
- Banks can demonstrate PII data compliance using attestation logs
- Multi-jurisdiction support

FIVERITY



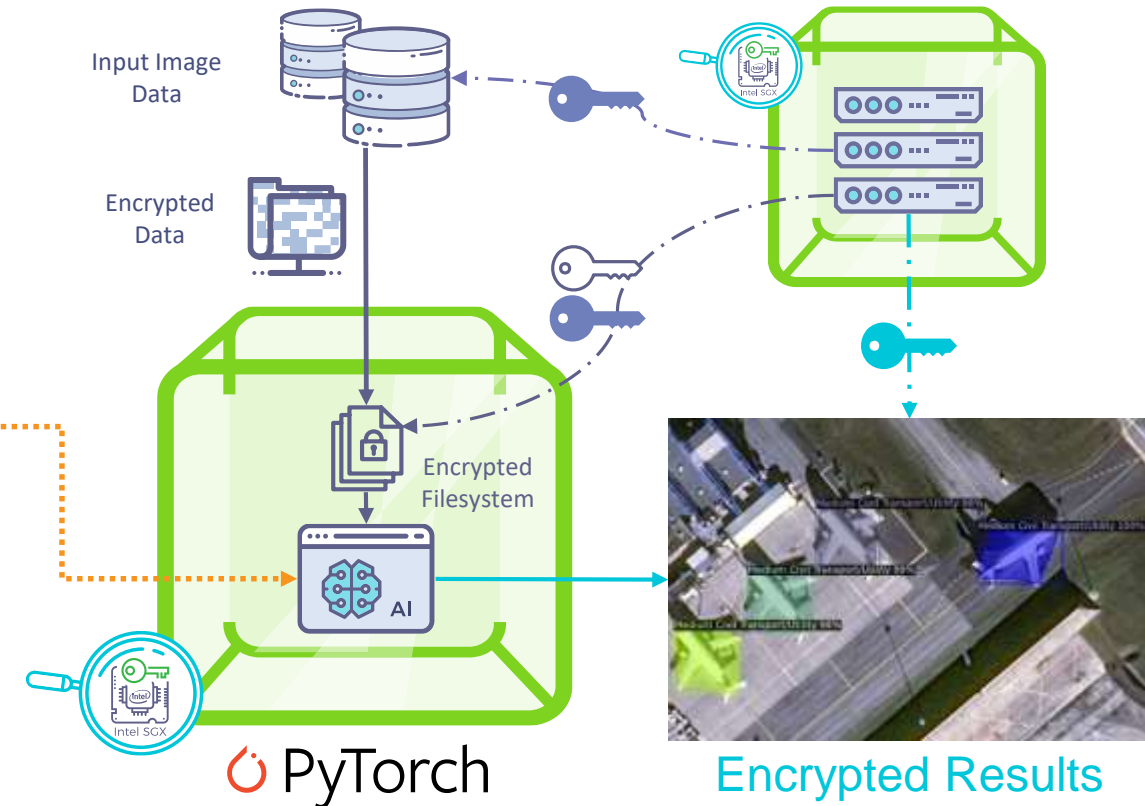
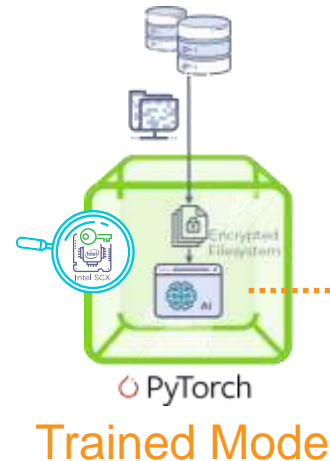
Securing Sensitive Data

- Object detection and classification
- Protecting sensitive information and confidential algorithms
- Deployable with all major AI/ML frameworks
- Protects against adversarial machine learning attacks

RarePlanes Synthetic Training Data



Real Satellite Data



SPIE. DEFENSE+
COMMERCIAL
SENSING

Fortanix
CONFIDENTIAL
AI™

Fortanix
Data Security Manager



Stand 7-243

Thank You

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out more!



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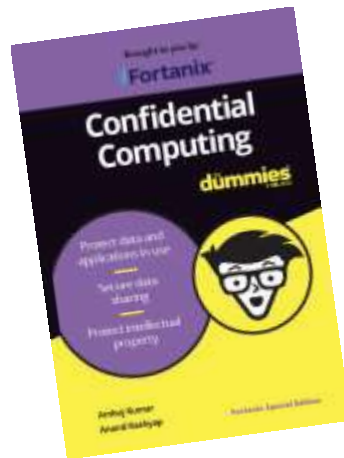
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