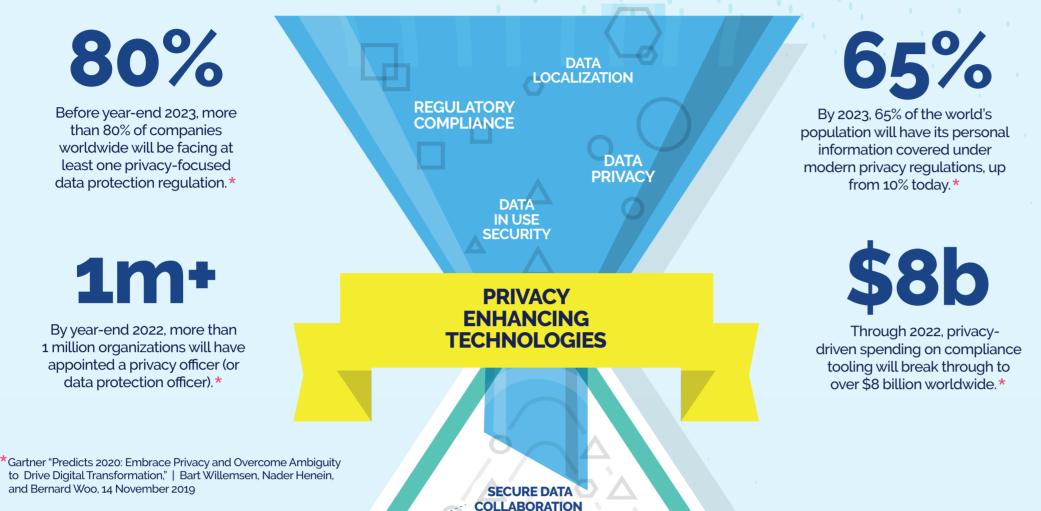


WHY NOW? THE GROWING NEED FOR PRIVACY ENHANCING TECHNOLOGIES

The term Privacy Enhancing Technologies (PETs) has been around for decades and is now experiencing a renaissance as the global awareness, demand, and regulation for privacy increases. At its core, Privacy Enhancing Technologies is a family of technologies that enable, enhance, and preserve the privacy of data throughout its lifecycle. These technologies allow data assets to be securely and privately used, overcoming the very regulatory barriers that have in many ways spurred a renewed interest in their utilization. For organizations, PETs are an innovative path to extracting critical insights without the need to move or replicate data, and enable them to pursue data sharing and collaboration practices while remaining in compliance.



BUSINESS DATA CHALLENGES TODAY

NOT ALL PETS ARE CREATED EQUAL.

While the label itself is intuitively powerful — who isn't in favor of technologies that enhance privacy? it is also ill-defined and often misunderstood. There are a broad and varied range of businessenabling capabilities powered by Privacy Enhancing Technologies, but not all PETs are created equal.

In order for businesses to fully receive the benefits of leveraging the technologies in this increasingly visible category, they must start by understanding what the label encompasses and which market challenges PETs are most apt to address.

IN CONTEXT: THE DATA SECURITY TRIAD

PETs KEEP SENSITIVE DATA SECURE DURING PROCESSING BY PROTECTING DATA IN USE

BUSINESS ENABLEMENTS

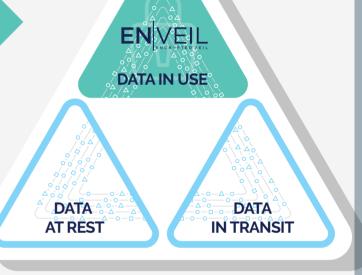
SECURE IOT/ EDGE COMPUTE CLOUD PROCESSING SECURE DATA SHARING

SECURE WATCHLISTS

REGULATORY

COMPLIANCE

YOU ARE HERE.



SECURE MULTIPARTY COMPUTE

The Secure Multiparty Computation (SMPC or MPC) family of techniques allow multiple parties to jointly operate on data while keeping their individual inputs private. Ultimately, the security and hence privacy of SMPC varies widely and depends on which type is used.

HOMOMORPHIC ENCRYPTION

DATA IN USE

SECURE

DATA MONETIZATION

Homomorphic encryption is the most secure option, providing nation state level security and thus offering the strongest privacy guarantees. Widely considered to be the 'holy grail' of encryption, it allows for computation in the encrypted or ciphertext space.

TRUSTED EXECUTION ENVIRONMENT

The security of Trusted Execution Environments (TEEs) is essentially a perimeter-based security model — in TEEs, the perimeter is very small and exists on the hardware chip itself instead of at a network boundary. It can be risky because, as with any perimeter security model, if you can break through the perimeter, you can gain access to all data within. Organizations often need to perform operations such as searches or analytics in order to extract value, which creates points of data exposure. PETs help eliminate this vulnerability by enabling data to be securely and privately processed. This is particularly important when performing operations on PII or other sensitive data in order to minimize regulatory risk.

API-BASED,

STRAIGHTFORWARD

SOFTWARE

DEPLOYMENT

2020 REG TECH 100

TRUST AND

GOVERNANCE

DECENTRALIZED

FRAMEWORK

2020 WEF TECH PIONEER

WORLD

ECONOMIC

FORUM

TECHNOLOGY

PIONEER

NIAP CSfC

NIAP/CSfC

CERTIFIED

NATION-STATE LEVEL PROTECTION

FINALIST

RUNNER-UP

INNOVATION

RSA°C

SANDBOX

2017

EN VEIL

Enveil's businessenabling capabilities for secure data search, sharing, and collaboration protect data while it's being used or processed – the 'holy grail' of data encryption.

Pioneering Data in Use Security

Powered by homomorphic encryption, Enveil's ZeroReveal® solutions extend the boundary of Trusted Compute in Untrusted Locations[™], allowing businesses to securely derive insights, cross-match, and search third-party data assets without ever revealing the contents of the search itself or compromising the security or ownership of the underlying data. By ensuring that nothing is revealed during the entire processing lifecycle, Enveil completely changes the security paradigm.

PRIVACY-PRESERVING

MACHINE LEARNING

INSIDER

THREAT

Enveil's privacy-preserving capabilities allow organizations to securely use data where it is and as it is today. By decoupling from the storage technology layer, Enveil sits above the data for a straightforward deployment that requires no changes to the underlying environment. Whether performing searches or analytics on data within an organization's walls, seeking information from a third-party data provider, or driving revenue by securely monetizing data assets, Enveil ZeroReveal ensures sensitive search content and its corresponding results are never exposed during the entire processing lifecycle..



RESULTS &

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FINANCIAL SERVICES: ENABLING SECURE AND PRIVATE DATA SHARING AND COLLABORATION

Each year, large Financial Institutions spend hundreds of millions completing KYC checks on new and existing customers, however, no framework exists to collectively mitigate risk through the sharing of customer risk intelligence across privacy jurisdictions or between entities. This lack of access to existing intel often forces institutions to make risk-rating decisions based on incomplete information. Utilizing its breakthroughs in homomorphic encryption, Enveil worked alongside market participants to develop a flexible and adaptable trust framework capable of facilitating secure and private Know Your Customer (KYC) and Customer Due Diligence (CDD) processes to enhance intelligence-led decision making.

Analysts were able to securely and privately cross-match and search regulated data across privacy jurisdictions in a business-relevant timeframe while ensuring sensitive assets remained protected during processing in accordance with regulatory requirements. The use case validated Enveil's capabilities as a foundational component of a trust framework enabling Financial Institutions to expand data inputs to better understand customer risk and make faster, better informed onboarding decisions. It also laid the groundwork for future intra- and inter-bank applications.

CAPABILITIES

Homomorphic Encryption

is ready now and can be implemented in scalable, practical fashion

• Access to additional, third-party data sources can be obtained while maintaining strong security and privacy features, customizable business logic, and fully traceable and transparent audit/regulatory control processes



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• Success of a decentralized data model – participants don't have to move or consolidate data assets



Enveil ZeroReveal® solutions enable entities to securely leverage external and crossjurisdictional data assets in place without revealing the contents/interests of the sensitive search or the results returned.

> - ELLISON ANNE WILLIAMS FOUNDER AND CEO, ENVEIL

Close the last gap in data security. enveil.com