NIST Privacy Engineering Collaboration Space

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Federal Computer Security Managers' Forum

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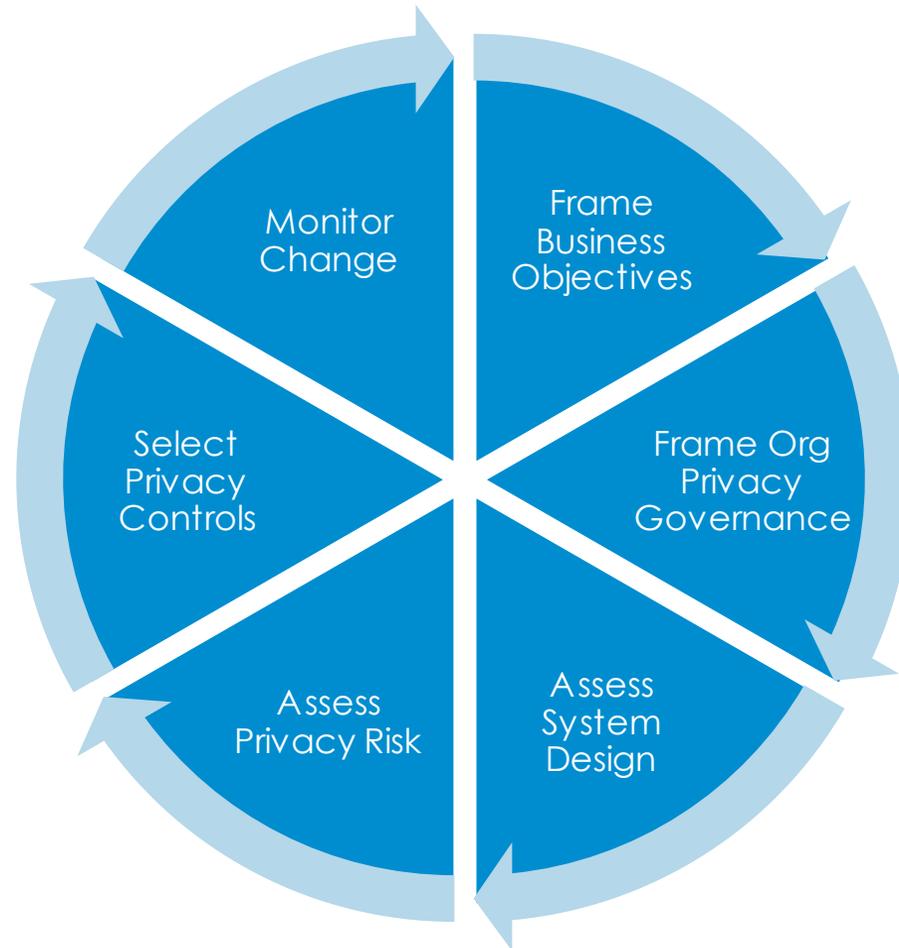# NIST Privacy Engineering Program

Vision

Privacy engineering is integral to establishing trustworthiness in information systems that support the growth of the digital economy and improve individual quality of life.

Mission

Support the development of trustworthy information systems by applying measurement science and system engineering principles to the creation of frameworks, risk models, guidance, tools, and standards that protect privacy and, by extension, civil liberties

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NIST Privacy Risk Assessment Methodology (PRAM)
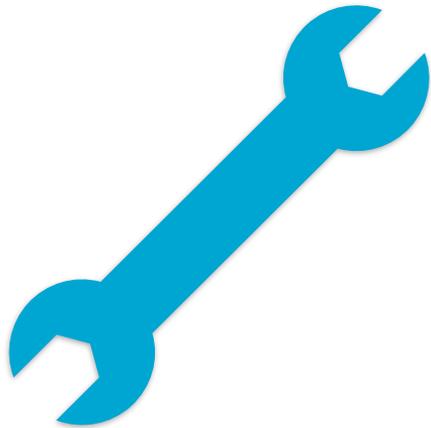
Why a collaboration space?

- Need for more tools, solutions, and processes supporting privacy engineering
- Greater awareness of those that already exist
- Better understanding of benefits and integration into systems or enterprise risk management processes
- Construct that helps organizations match the appropriate tools, solutions, or processes to their needs

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Collaboration Space Overview

an online venue open to the public where practitioners can **discover**, **share**, **discuss**, and **improve upon open source tools**, **solutions**, and **processes** that support privacy engineering and risk management

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What to Contribute

Tools
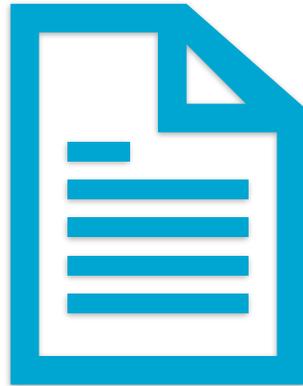
Use Cases

Feedback

Initial Focus Areas

De-identification

Privacy Risk Assessment

About +

Collaboration Space −

Introduction

Operating Rules

Moderators

Contribute +

Browse +

Resources

Events

Get Involved

CONNECT WITH US

Collaboration Space

Welcome

This space has just launched! To kick off, we are focusing on **de-identification** and **privacy risk assessment**, and welcome feedback on future topics of interest.

Contact Us ✉

NIST's Privacy Engineering Collaboration Space is an online venue open to the public where practitioners can discover, share, discuss, and improve upon open source tools, solutions, and processes that support privacy engineering and risk management.

Contribute

Created a privacy tool? Have a use case to share? Post it or collaborate on other contributions in the space.

Contribute

Browse

Interested in tools or use cases for de-identification and privacy risk assessment? Browse the contributions.

Browse

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usnistgov / **PrivacyEngCollabSpace**

Privacy Engineering Collaboration Space   https://www.nist.gov/itl/applied-cybe...   [Edit]

de-identification   differential-privacy   risk-management   Manage topics

⟲ 154 commits	⑂ 1 branch	🏷 0 releases	👥 5 contributors

Branch: master ▾   New pull request   Create new file | Upload files | Find File | **Clone or download** ▾

kboeckl fixes analysis typographical error		Latest commit 40ceb7d on Apr 2
📁 .github	Update ISSUE_TEMPLATE.md	3 months ago
📁 assets	resize img k	3 months ago
📁 templates	Change management to assessment	a month ago
📁 tools	fixes analysis typographical error	a month ago
📁 use-cases	change management to assessment	a month ago
📄 CONTRIBUTING.md	change management to assessment	a month ago
📄 README.md	Update README.md	a month ago

▤ README.md   ✏

Privacy Engineering Collaboration Space

De-Identification Tools

Approximate Minima Perturbation (AMP) Carnegie Mellon University; Boston University; University of California, Berkeley; University of California, Santa Cruz; Peking University

ARX Data Anonymization Tool TUM - Technical University of Munich

Differentially Private Stochastic Gradient Descent (DP-SGD) Google

Ektelo UMass Amherst, Duke University, Colgate University

De-Identification Tools (continued)

GUPT: Privacy preserving data analysis made easy
University of California, Berkeley; University of California, Santa Cruz; Cornell University

PixelDP Columbia University

Privacy Protection Application (PPA) US Department of Transportation

Private Aggregation of Teacher Ensembles (PATE) Google

Privacy Risk Assessment Tools & Use Cases

City of Seattle Open Data Risk Assessment

Future of Privacy Forum (FPF) | *Use Case*

FAIR Privacy

Enterprivacy Consulting Group | *Tool*

NIST PRAM
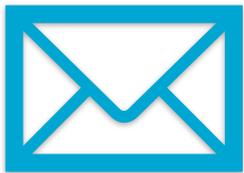
NIST | *Tool*

Engage!

- **Explore** the space

- **Contribute** your tools and use cases

- **Spread the word** about the space

Resources

www.nist.gov/itl/applied-cybersecurity/privacy-engineering/collaboration-space

collabspace@nist.gov

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