The Five Safes Framework

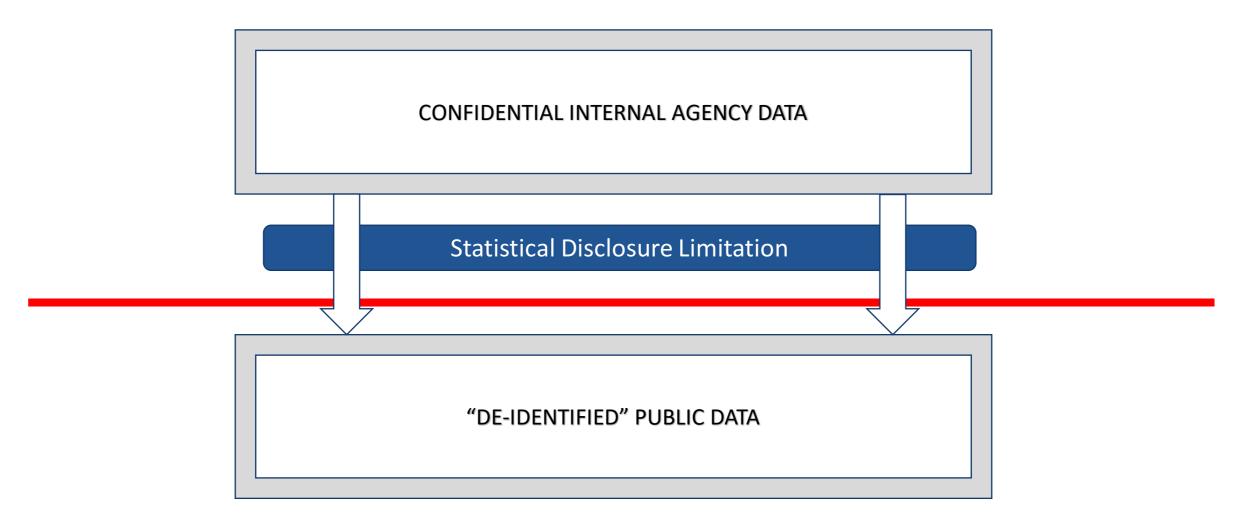
Michael Hawes

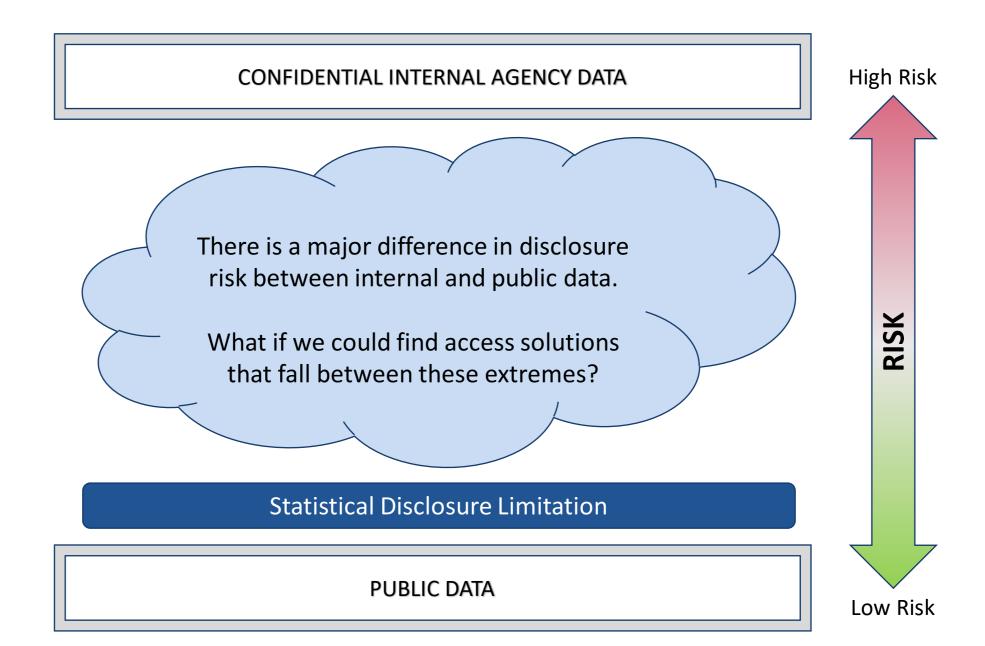
U.S. Census Bureau



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The Traditional Model of Data Access





THE FIVE SAFES FRAMEWORK



Safe Data



Safe Projects



Safe People



Safe Settings



Safe Outputs

Federal Committee on Statistical Methodology (2022)
Data Protection Toolkit: Report and Resources on Statistical Disclosure Limitation
Methodology and Tiered Data Access (formerly "Statistical Policy Working Paper #22"), rev. 2022.01 (11/28/2022)



The Five Safes Framework was originally developed by Felix Ritchie to describe the UK Office of National Statistics' Virtual Microdata Laboratory. For more information see: Ritchie, F. Secure access to confidential microdata: four years of the Virtual Microdata Laboratory. *Econ Lab Market Rev* **2**, 29–34 (2008). https://doi.org/10.1057/elmr.2008.73

Safe Data



Disclosure risk during access is reduced through the use of statistical disclosure limitation techniques (e.g., data minimization, or removal of direct identifiers).



Safe Projects



Approved projects are valuable, legally permissible, and appropriate (to the agency's mission).



Safe People



Researchers meet established access criteria, training requirements, and trust levels for access.



Safe Settings



Physical security, data access controls, and infrastructure requirements reduce the risk of unauthorized access or disclosure.

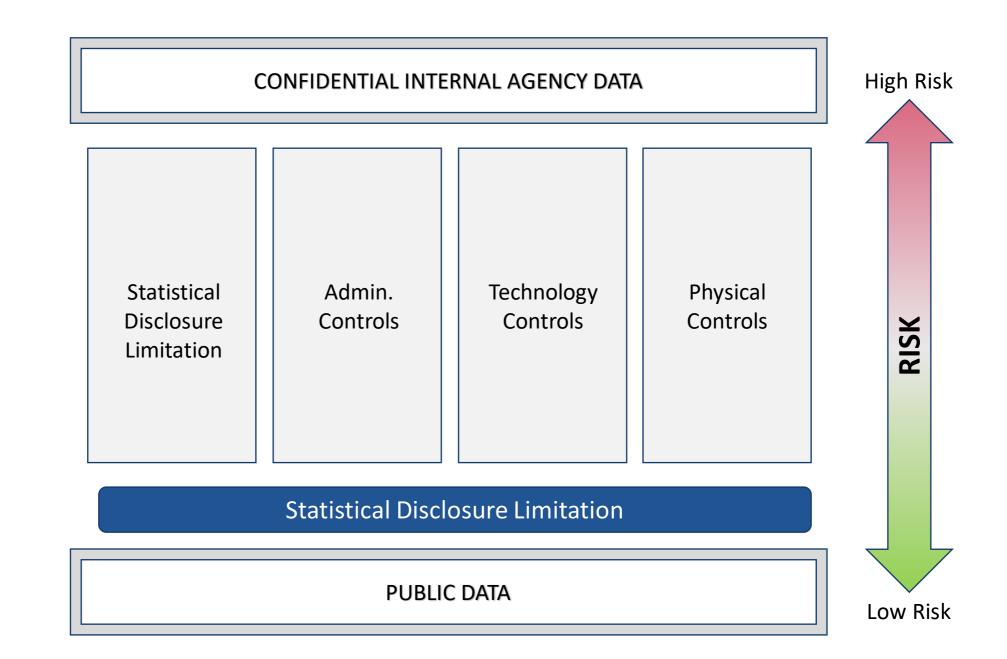


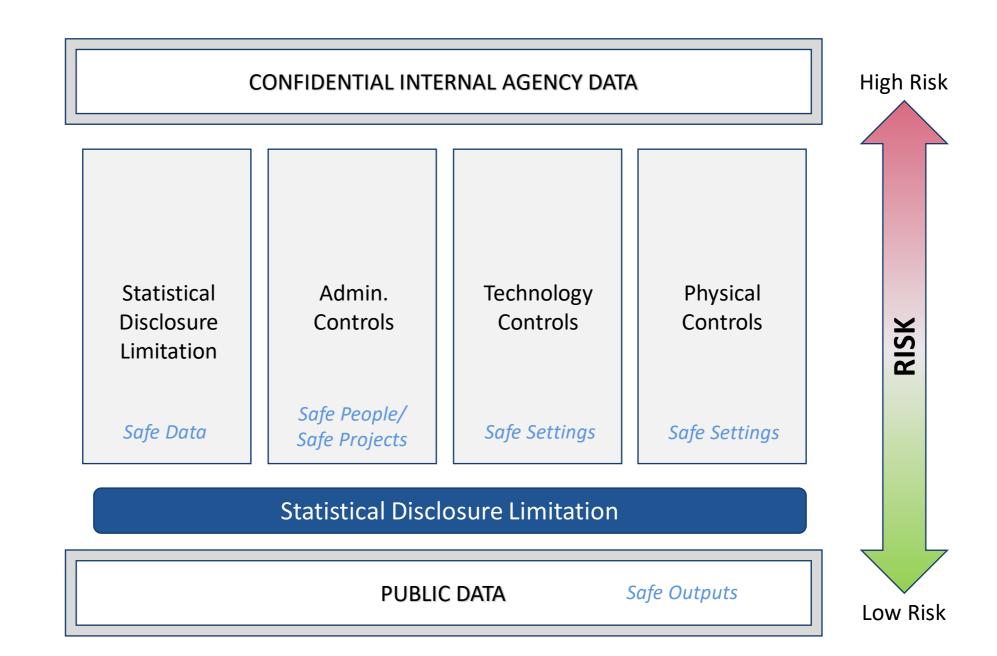
Safe Output

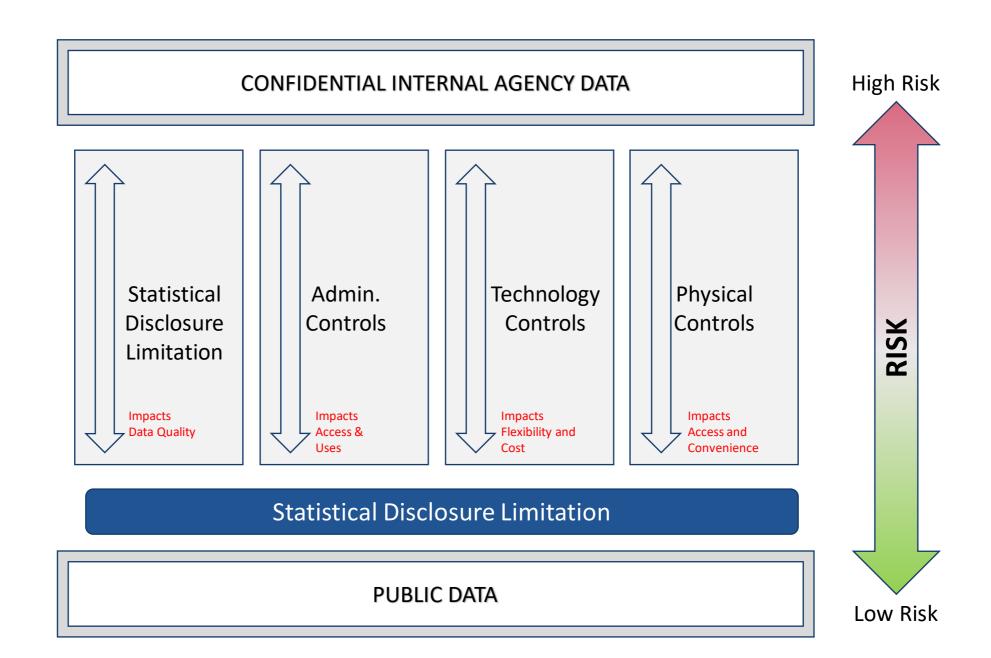


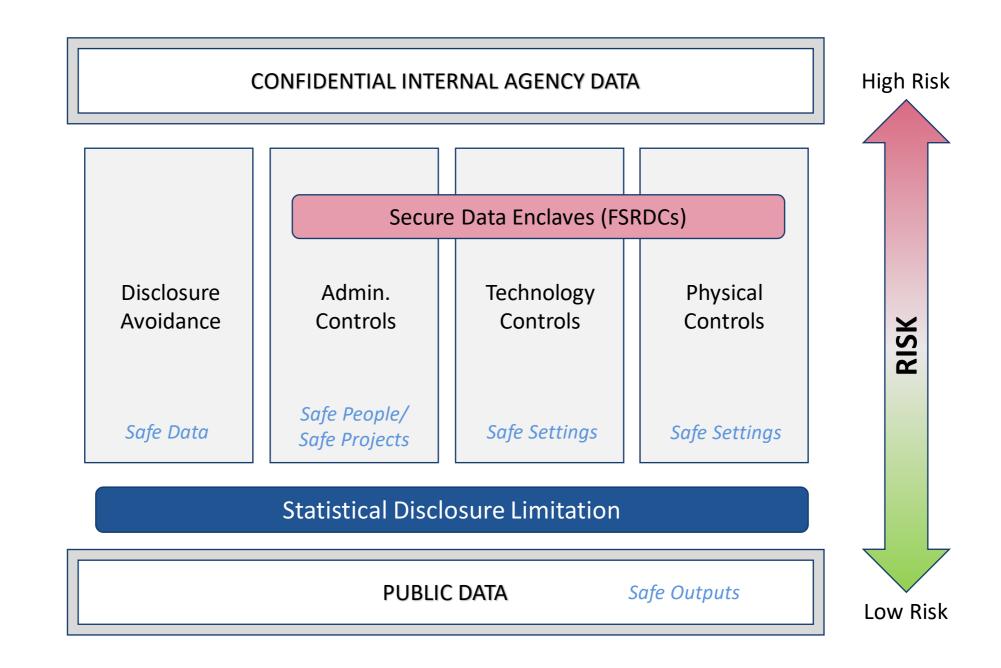
Released data have agencyapproved disclosure limitation methods applied.

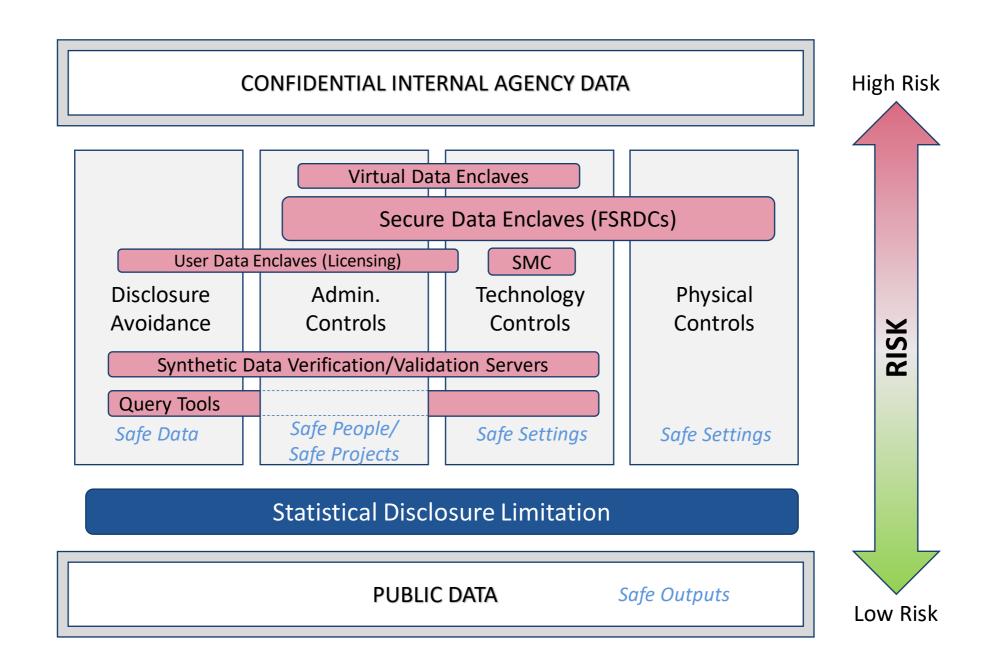












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