



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 24-25 | Minneapolis, MN

NSF Program: CC

Program Area: Data

Award Number: 1659367

**Project Title: ImPACT - Infrastructure for Privacy-Assured
CompuTations**



Dr. Ilya Baldin,
Director,
Network Research
and Infrastructure
RENCI/UNC Chapel
Hill
ibaldin@renci.org



**Dr. Thomas J.
Nechyba,**
Director of SSRI,
Professor of
Economics
Duke University
nechyba@duke.edu



**Dr. Jeffrey S.
Chase,**
Professor of
Computer Science
Duke University
chase@cs.duke.edu



Charley Kneifel,
Senior Technical Director,
OIT
Duke University
charley.kneifel@duke.edu



Jonathan Crabtree,
Assistant Director of
Cyberinfrastructure,
Odum Institute
UNC Chapel Hill
jonathan_crabtree@unc.edu



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 24-25, 2019 | Minneapolis, MN

Challenge:

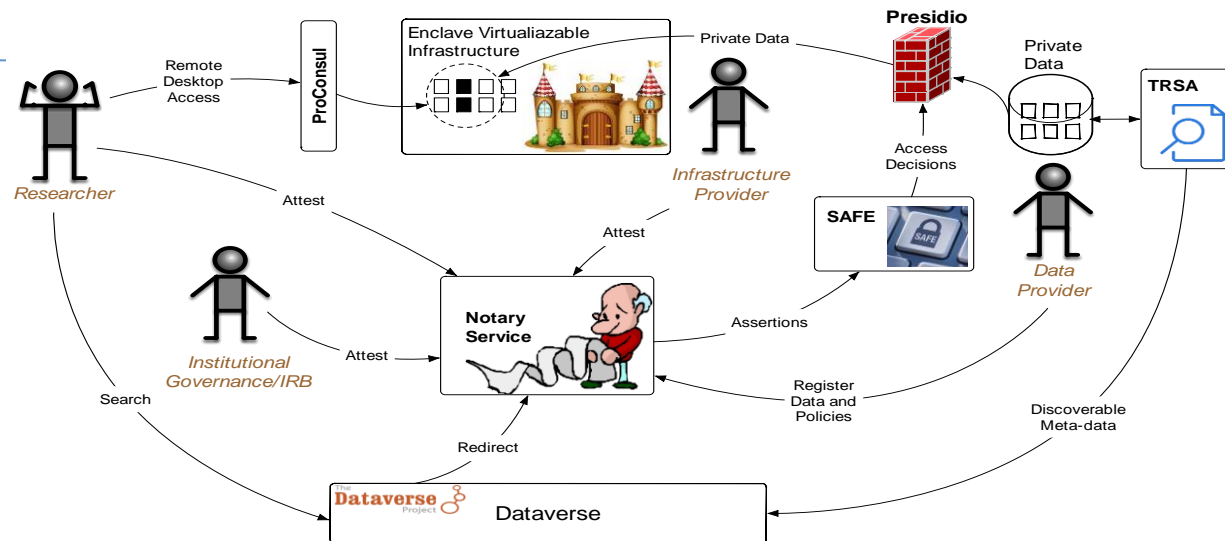
- Social science depends on data belonging to multiple stakeholders
- Governed by a variety of use policies
- Multi-institutional research requires cooperative analysis
- Need to satisfy the privacy concerns of the owners while producing interesting research outcomes by analyzing data

Impact:

- Reduce friction in discovering and gaining access to a variety of datasets
- Enable sophisticated cooperative processing of multi-stakeholder data
- Provide a scalable model of data-centric inter-institutional collaborations

Solution:

- Modular architecture addressing interconnected issues
 - Advertisement and discovery of private data
 - Automated enforcement of DUA and access policies on behalf of provider
 - Rapid creation of Protected Data Enclaves where data can be analyzed
 - Federated environment



Team:

- RENCI and Odum (UNC Chapel Hill)
- SSRI, OIT and CS (Duke)
- Dataworks/City of Durham
- CTSC (IU)
- <http://cyberimpact.us>