



ScHARe

ScHARe Repository Introduction

November 20, 2024

Deborah Duran, PhD • NIMHD
Elif Dede Yildirim, PhD • NIMHD
Mark Aronson, PhD • NIMHD





ScHARe

Research Think-a-Thons

- Novice **training webinars** for data science, cloud computing and research using Big Data
- **Target:** underrepresented populations, women, racial/ethnic and sexual gender minorities, rural and poor populations

Generational career & discipline exchange



Think-a-Thons

Goals:

- Upskill underrepresented populations in data science and cloud computing
- Foster a research paradigm shift to use Big Data in health disparities/health outcomes research
- Promote use of Dark Data



1. TUTORIAL AND TARGETED THINK-A-THONS

- Monthly sessions (2 1/2 hours)
- Instructional/interactive
- Designed for new/experienced users
- Networking
- Mentoring and coaching
- Topics include:

- | | |
|---|------------------------------|
| ▪ Data Science 101 | ▪ Common Data Elements |
| ▪ Terra | ▪ AI readiness |
| ▪ Social Determinants of Health analytics | ▪ Ethical and transparent AI |
| | ▪ Bias mitigation |



2. RESEARCH THINK-A-THONS

- Multi-career (students to senior investigators)
- Multi-discipline (data scientists and researchers)
- Featured datasets with guest experts leads
- Guest experts in topic areas, analytics, data sources etc. to provide guidance
- Generate research idea - decide design, datasets and analytics
- Learn Ethical AI
- Publications

Register:

bit.ly/think-a-thons



Think-a-thon Archive

February

Artificial Intelligence and Cloud Computing 101

-
-
-

- ScHARe for **Educators** (Community Colleges and low-resource MSIs)
- ScHARe for **American Indian/Alaska Native Researchers**
- ScHARe for **Coders and Programmers** to conduct research

Recent Think-a-thons

October

Preparing for AI 1: Common Data Elements and Data Aggregation

November

Preparing for AI 2: An Introduction to FAIR Data and AI-ready Datasets

January

Preparing for AI 3: Computational Data Science Strategies 101

February/March

Preparing for AI 4: Overview Prep for AI Summary with Transparency, Privacy, Ethics

April

Research Teams – SDoH and Health Disparities

May

Be a Part of the Future of Knowledge Generation 1: AI/Cloud Computing Basics and CDEs

July

Be a Part of the Future of Knowledge Generation 2: AI-Ready Datasets and Computations

August

An Introduction to Python for Data Science

September

Data Management and Analysis in Python

October

ScHARe Data Repository

Experience conducting ethical AI

Transparency

Public perception and understanding of how AI works

- **Technical documentation for duplication/re-use**
- **Tools:**
 - **Data dictionary**
 - **Health sheet** (Data sheet)
 - **Model cards** (capabilities and purpose of algorithms are openly and clearly communicated to relevant stakeholders)

Fairness

Findable: *providing metadata, documentation, and clear identifiers*

Accessible: *wide audience*

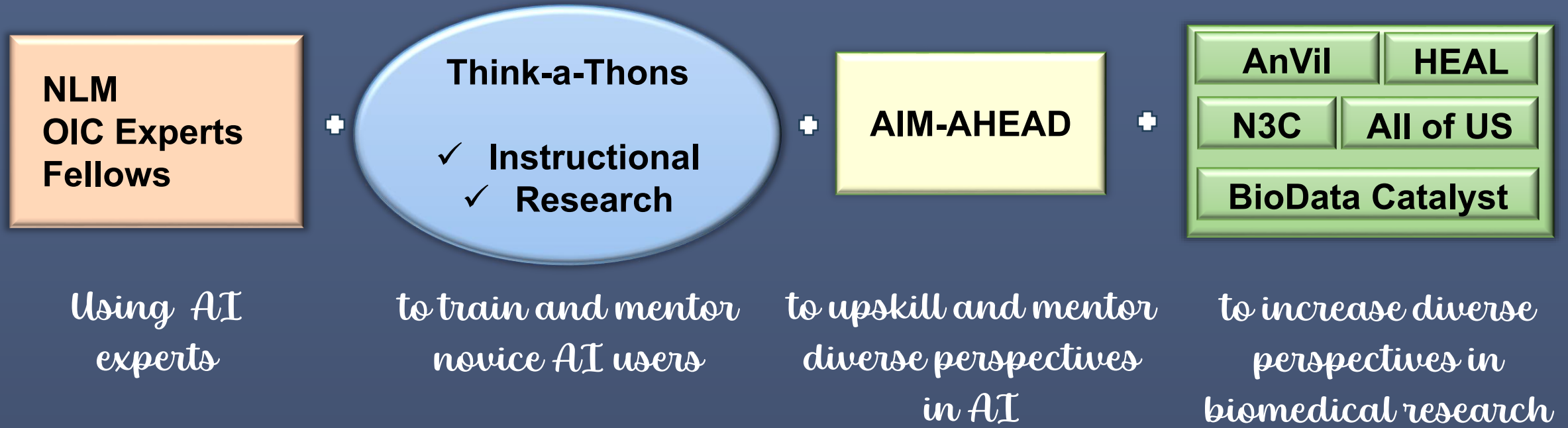
Interoperable: *standardized formats and APIs enable seamless integration*

Reusable: *clear documentation, licensing, reduce redundancy*

- Metadata and data should be **easy to find** for both humans and computers
- Ensure that **data represents** relevant populations



Think-a-Thons training/mentoring pipeline



Goal: “Upskilling”

- ✓ Data science specialists into health disparities and health outcomes research
- ✓ Health disparities/outcomes researchers into using big data and cloud computing

Target Audience:

- ✓ Underrepresented populations (women, race/ethnic) users not trained in data science
- ✓ Data scientists with no or little research experience
- ✓ Resource and tool for Community Colleges and low-resource MSIs and organizations

Slido Poll

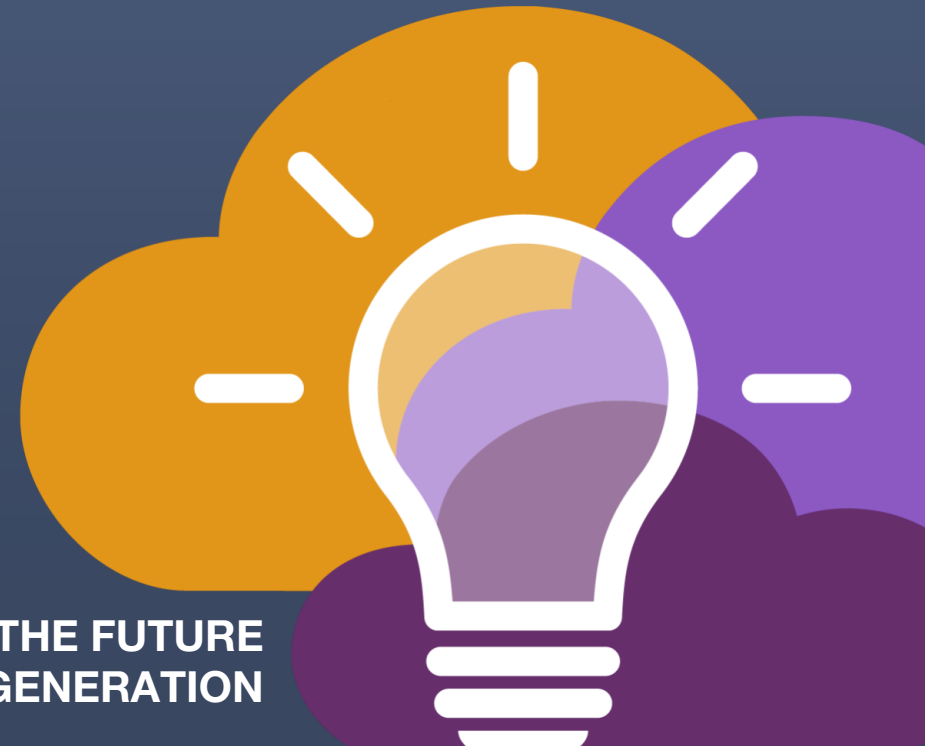
Which statement is most true for Common Data Elements:

- a) Questions that are forced upon investigators to use
- b) Questions that are asked the same way for everyone involved in a study
- c) Questions that are universally semantically defined and can be used similarly by all
- d) Questions that require a series of questions and a set of responses only relevant to the study

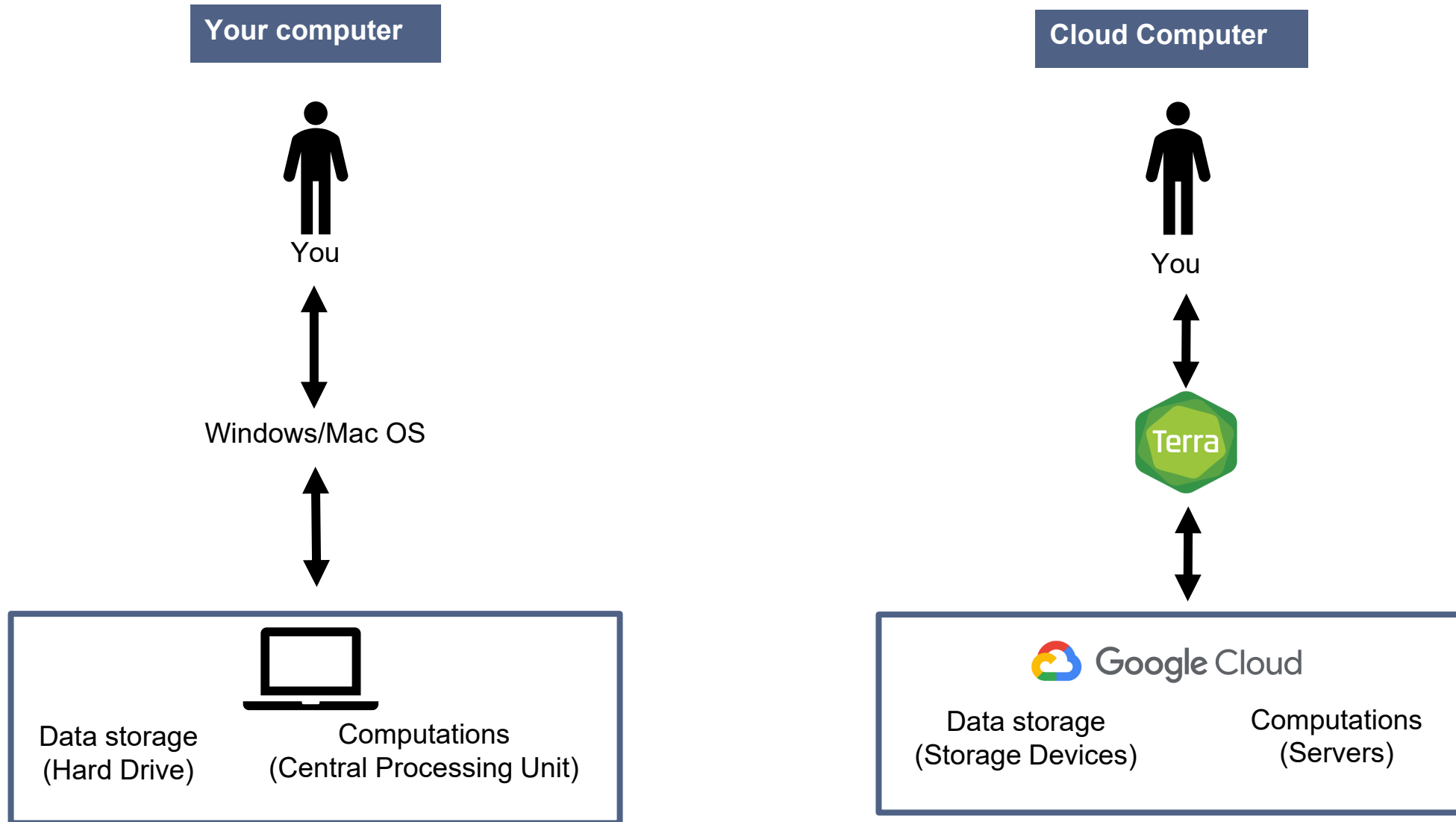
ScHARe

Getting Started on
Terra

BE A PART OF THE FUTURE
OF KNOWLEDGE GENERATION



ScHARe provides an easy portal to cloud computing



Today's mission

Getting Set Up on Terra

Register for ScHARe

A tour of the ScHARe Workspace

Your first steps

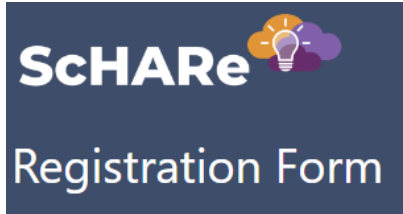
Create a Terra Account

Link a billing account

Today's mission

Getting Set Up on Terra

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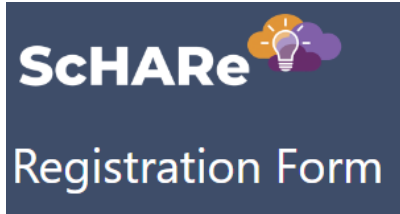
A tour of the ScHARe Workspace

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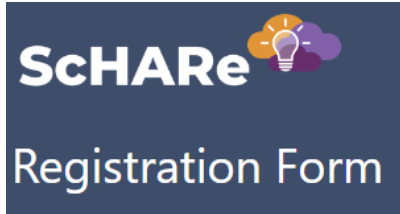
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A tour of the ScHARe Workspace

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Slido Poll

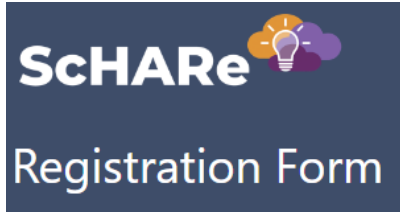
Which of the following do you NOT need to do before running your own data analysis on Terra?

- A. Link a Google Cloud Billing account to your Terra account
- B. Use an .edu email account to create a Terra account
- C. Use a Google account to register for SCHARE
- D. Create a Terra account

Today's mission

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A tour of the ScHARe Workspace

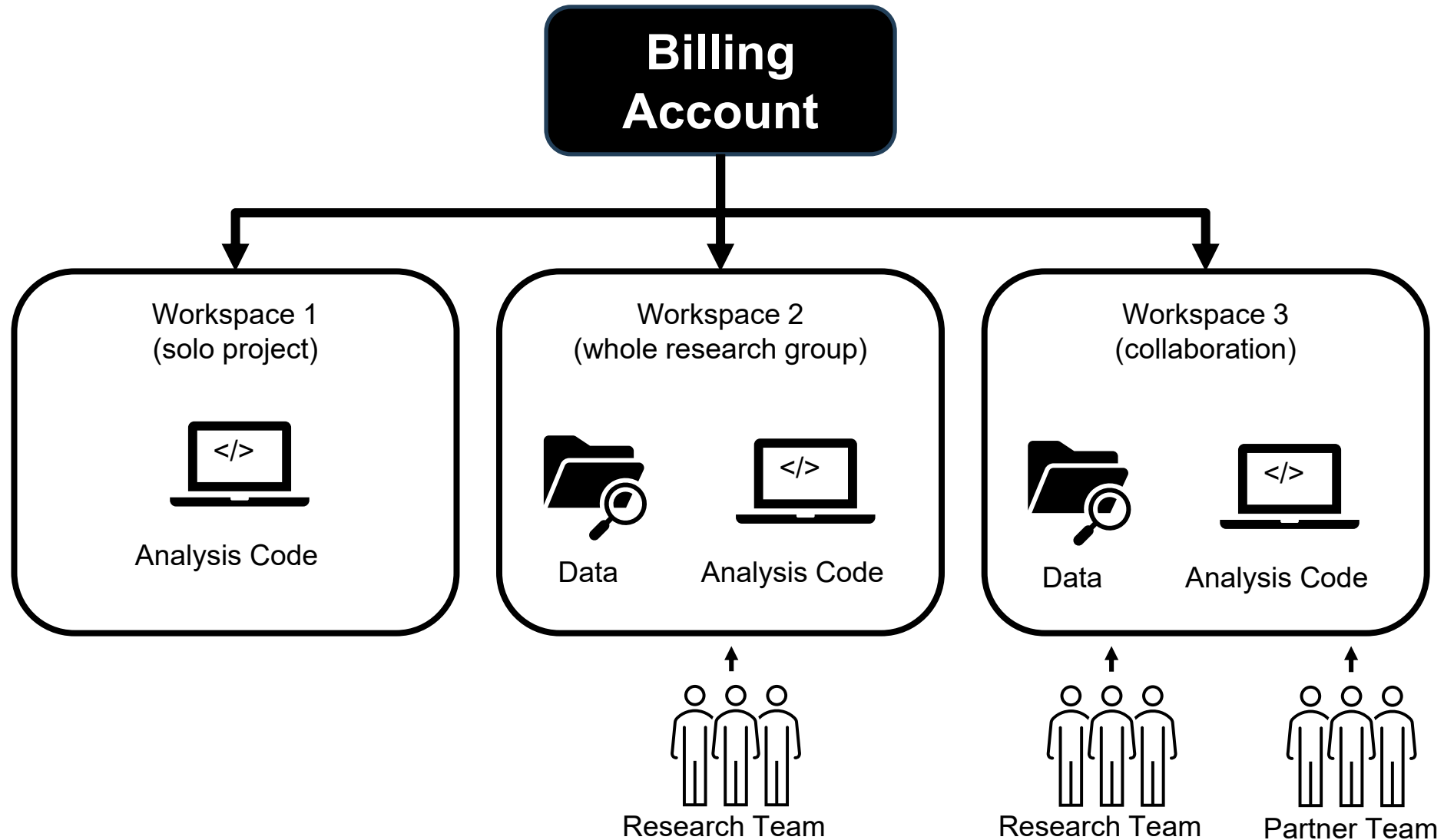
Terra Terminology

ScHARe Workspace: Data Tab

ScHARe Workspace: Analyses Tab

Your first steps

An intro to Terra Terminology



What costs money on Terra

Scenario 1: Analysis Code Only (pulling in data live)

Not actively running analysis

**Billing
Account**



Workspace 1
(solo project)



Analysis Code

No Cost

Actively running analysis

**Billing
Account**



Workspace 1
(solo project)



Analysis Code

Incurring Cost

Scenario 2: Analysis Code and Data (storing data in the workspace)

Not actively running analysis

**Billing
Account**



Workspace 2
(whole research group)



Data



Analysis Code

Incurring Cost

Actively running analysis

**Billing
Account**



Workspace 2
(whole research group)



Data



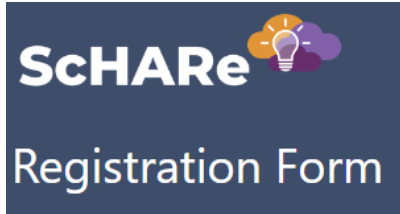
Analysis Code

Incurring Cost

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A tour of the ScHARe Workspace

Terra Terminology



ScHARe Workspace: Data Tab

ScHARe Workspace: Analyses Tab

Your first steps

Find public datasets on the ScHARe Data Tab

Datasets hosted on SCHARE Workspace are:

- public data
- contain no personal identifiable information (PII)

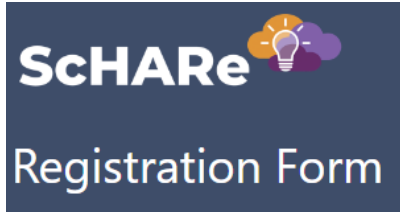
The screenshot displays the Terra WORKSPACES interface for the ScHARe Data workspace. The top navigation bar includes 'DASHBOARD', 'DATA' (selected), 'ANALYSES', 'WORKFLOWS', and 'JOB HISTORY'. The 'DATA' tab shows a table of datasets with columns: A_MainT..., Categories, Data, DataDictionary, and FileFormat. The table lists various datasets, including '20182021Lon...', '2021FoodSec...', '2021FullYearC...', '2021JobsFileD...', '2021MedicalC...', '2021PersonRo...', '2022FoodSec...', '2022FullChara...', '2022FullYearC...', '2022JobsData', '2022MedicalC...', '2022PersonRo...', and 'AdjustedGradu...'. A sidebar on the left shows a list of tables, with 'A_MainTable...' (307) selected. A tooltip indicates 'A_MainTableDatasets (307 rows)'. The bottom of the interface shows pagination: '1 - 100 of 307' and 'Items per page: 100'.

A_MainT...	Categories	Data	DataDictionary	FileFormat
20182021Lon...	Health Care Access and Quality	20182021LongitudinalDataFileDat...	20182021LongitudinalDataFileCod...	XLSX
2021FoodSec...	Health Care Access and Quality	2021FoodSecurityData.xlsx	2021FoodSecurityCodebook.pdf	XLSX
2021FullYearC...	Health Care Access and Quality	2021FullYearConsolidatedData.xlsx	2021FullYearConsolidatedDataCod...	XLSX
2021JobsFileD...	Health Care Access and Quality	2021JobsFileData.xlsx	2021JobsFileCodebook.pdf	XLSX
2021MedicalC...	Health Care Access and Quality	2021MedicalConditionsData.xlsx	2021MedicalConditionsCodebook.p...	XLSX
2021PersonRo...	Health Care Access and Quality	2021PersonRoundPlanPublicUseD...	2021PersonRoundPlanPublicUseco...	XLSX
2022FoodSec...	Health Care Access and Quality	2022FoodSecurityData.xlsx	2022FoodSecurityCodebook.pdf	XLSX
2022FullChara...	Health Care Access and Quality	2022FullCharacteristicsData.xlsx	2022FullCharacteristicsCodebook.p...	XLSX
2022FullYearC...	Health Care Access and Quality	2022FullYearConsolidatedData.xlsx	2022FullYearConsolidatedDataCod...	XLSX
2022JobsData	Health Care Access and Quality	2022JobsData.xlsx	2022JobsCodebook.pdf	XLSX
2022MedicalC...	Health Care Access and Quality	2022MedicalConditionsData.xlsx	2022MedicalConditionsCodebook.p...	XLSX
2022PersonRo...	Health Care Access and Quality	2022PersonRoundPlanPublicUseD...	2022PersonRoundPlanPublicUseC...	XLSX
AdjustedGradu...	Education Access and Quality	acqr-lea-sv2010-11.csv	acqr-sv10-11-public-file-document...	CSV

Today's mission

Getting Set Up on Terra

Register for ScHARe



Create a Terra Account



Link a billing account

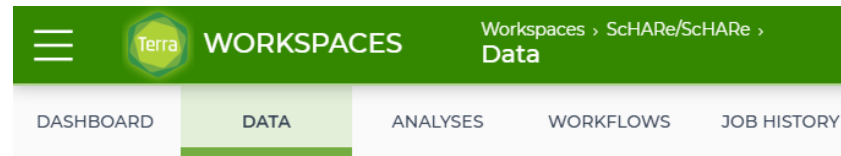


A tour of the ScHARe Workspace

Terra Terminology

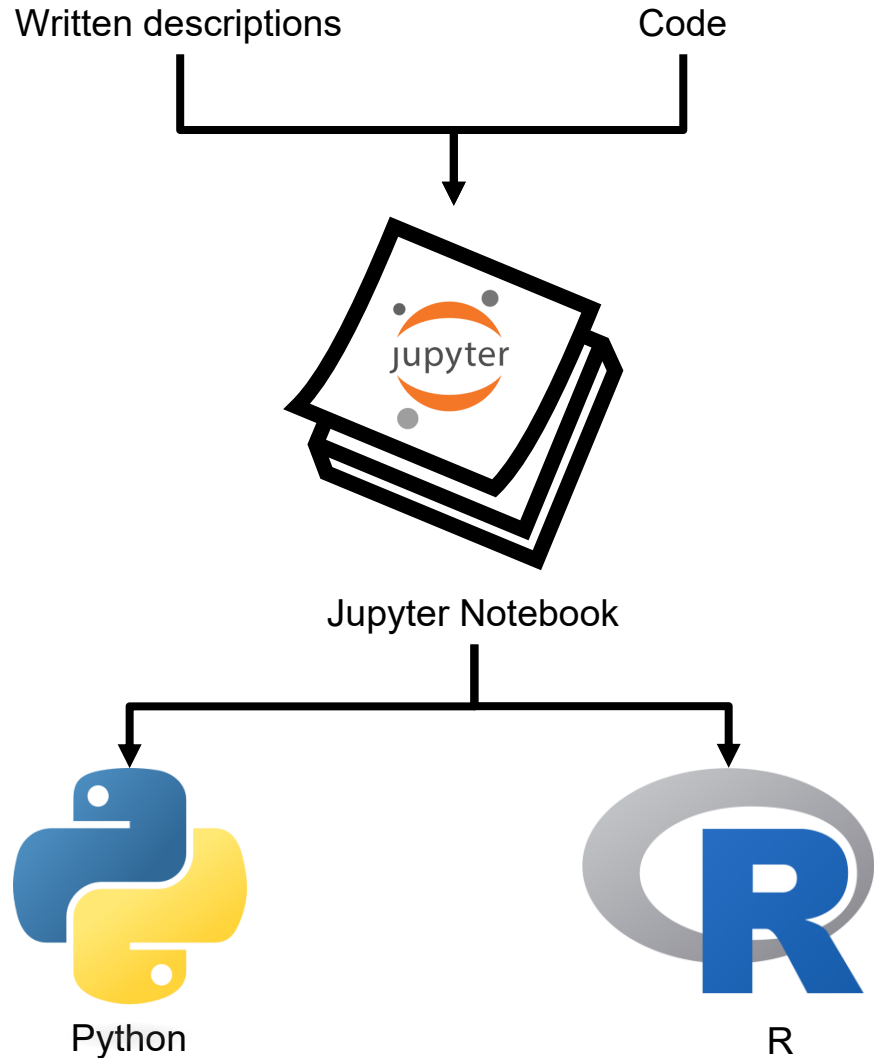


ScHARe Workspace: Data Tab

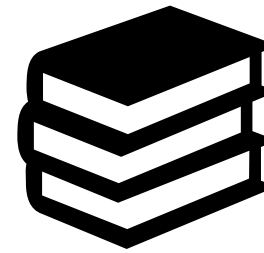


ScHARe Workspace: Analyses Tab

Data Analytics tools are found in the analyses tab



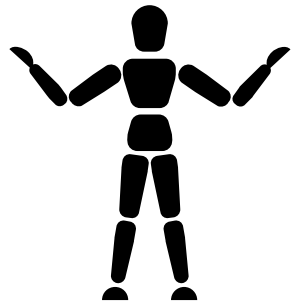
On the SCHARE Workspace



Reference
Notebooks



Tutorial
Notebooks

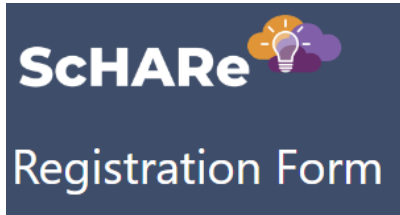


Model
Notebooks

Today's mission

Getting Set Up on Terra

Register for SchARe



Create a Terra Account

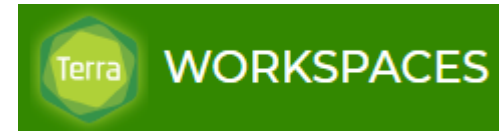


Link a billing account

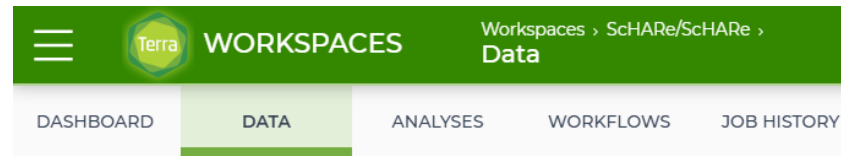


A tour of the SchARe Workspace

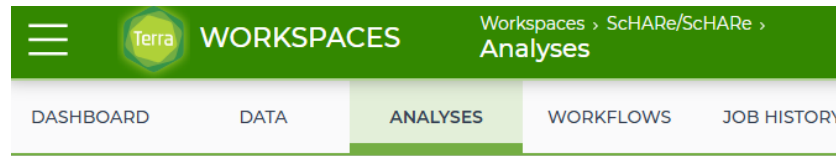
Terra Terminology



SchARe Workspace: Data Tab



SchARe Workspace: Analyses Tab



Slido Poll

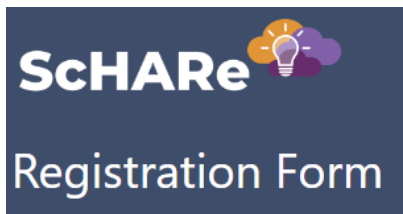
Which of the following is TRUE about the Data Tab in the SCHARE Terra Workspace?

- A. The datasets have Personal Identifiable Information in them
- B. The datasets are public data and are free to use
- C. The datasets require a Data Use Agreement to be signed to use
- D. The datasets are from untrustworthy sources

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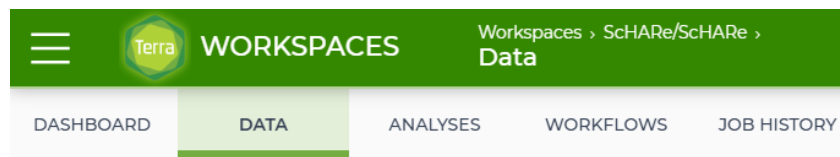


A tour of the SchARe Workspace

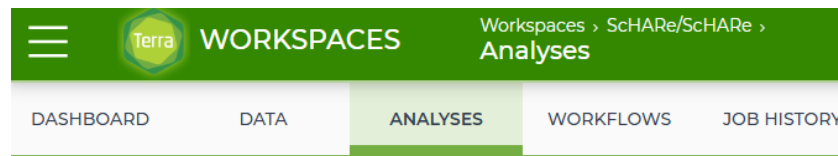
Terra Terminology



SchARe Workspace: Data Tab



SchARe Workspace: Analyses Tab



Your first steps

Creating a Workspace

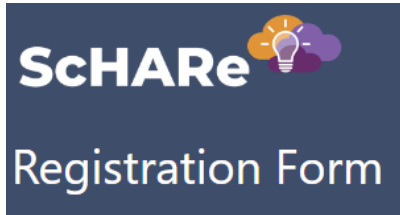
Pull data from the ACS

Simple analysis and visualization

Today's mission

Getting Set Up on Terra

Register for SchARe



Create a Terra Account



Link a billing account

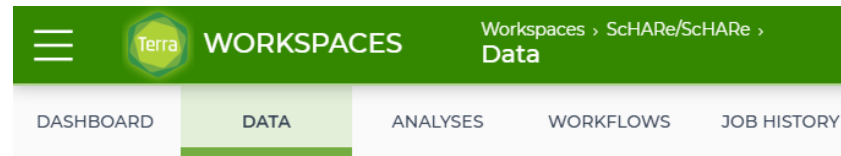


A tour of the SchARe Workspace

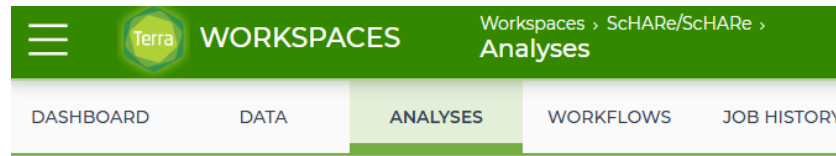
Terra Terminology



SchARe Workspace: Data Tab

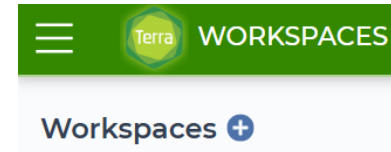


SchARe Workspace: Analyses Tab



Your first steps

Creating a Workspace

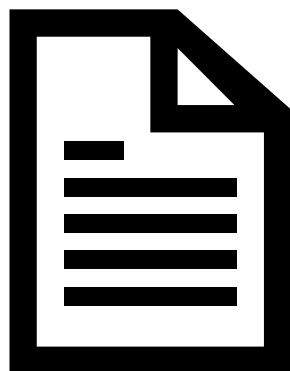


Pull data from the ACS

Simple analysis and visualization

Terra can take in data sources 3 ways

1. Upload your own data



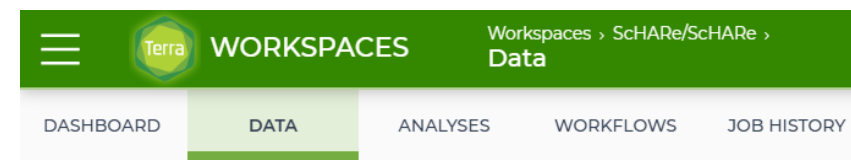
my_data.csv

2. Pull in Google-hosted datasets

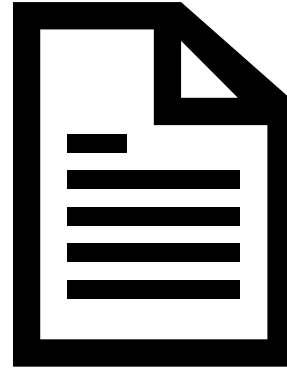


Google
Big Query

3. Use datasets on the SCHARE Workspace



Let's pull in some data from the Census



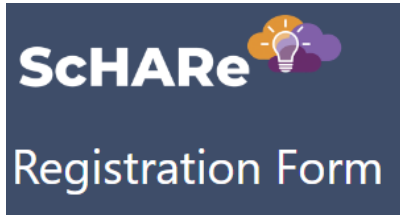
County Data (2023)

DASHBOARD	DATA	ANALYSES	WORKFLOWS	JOB HISTORY
<div>Import Data</div> <div>EditOpen With...ExportSettings0 rows selected</div>				
TABLES	A_MainTableDatasets_id	Categories	Data	DataDictionary
acs	<input type="checkbox"/>	American_Community_Survey_2010	Multiple Categories	ACS_County_2010.csvACS_2010_Variables.pdf
28 results	<input type="checkbox"/>	American_Community_Survey_2011	Multiple Categories	ACS_County_2011.csvACS_2011_Variables.pdf
14 A_MainTable... (307)	<input type="checkbox"/>	American_Community_Survey_2012	Multiple Categories	ACS_County_2012.csvACS_2012_Variables.pdf
0 DiseaseAndCon... (34)	<input type="checkbox"/>	American_Community_Survey_2013	Multiple Categories	ACS_County_2013.csvACS_2013_Variables.pdf
1 EconomicStabi... (81)	<input type="checkbox"/>	American_Community_Survey_2014	Multiple Categories	ACS_County_2014.csvACS_2014_Variables.pdf
0 EducationAcces... (54)	<input type="checkbox"/>	American_Community_Survey_2015	Multiple Categories	ACS_County_2015.csvACS_2015_Variables.pdf
0 HealthBehavi... (20)	<input type="checkbox"/>	American_Community_Survey_2016	Multiple Categories	ACS_County_2016.csvACS_2016_Variables.pdf
0 HealthCareAcce... (44)	<input type="checkbox"/>	American_Community_Survey_2017	Multiple Categories	ACS_County_2017.csvACS_2017_Variables.pdf
13 MultipleCateg... (55)	<input type="checkbox"/>	American_Community_Survey_2018	Multiple Categories	ACS_County_2018.csvACS_2018_Variables.pdf
0 NeighborhoodAn... (11)	<input type="checkbox"/>	American_Community_Survey_2019	Multiple Categories	ACS_County_2019.csvACS_2019_Variables.pdf
0 SocialAndCommun... (8)	<input type="checkbox"/>	American_Community_Survey_2021	Multiple Categories	ACS_County_2021.csvACS_2021_Variables.pdf
REFERENCE DATA	<input type="checkbox"/>	American_Community_Survey_2022	Multiple Categories	ACS_County_2022.csvACS_2022_Variables.pdf
No references have been added. Add reference data	<input type="checkbox"/>	American_Community_Survey_2023	Multiple Categories	ACS_County_2023.csvACS_2023_Variables.pdf
	<input type="checkbox"/>	Atlas_of_Rural_Land_and_Small_Town_America	Economic Stability	RuralAtlasData24.xlsxCopy to clipboardVariableNameLookup.csv

Today's mission

Getting Set Up on Terra

Register for SchARE



Create a Terra Account



Link a billing account

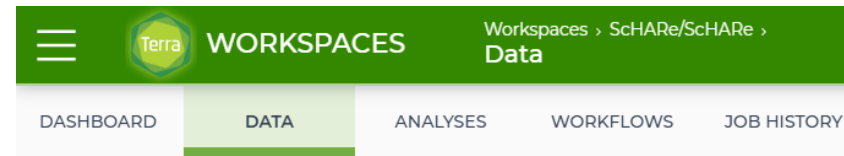


A tour of the SchARE Workspace

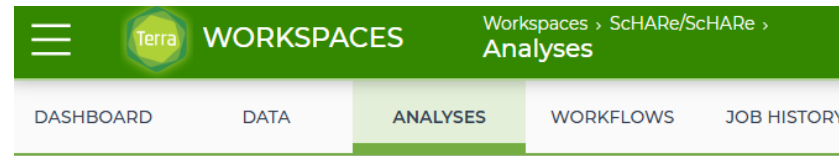
Terra Terminology



SchARE Workspace: Data Tab

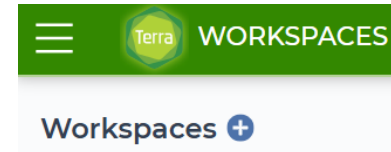


SchARE Workspace: Analyses Tab



Your first steps

Creating a Workspace

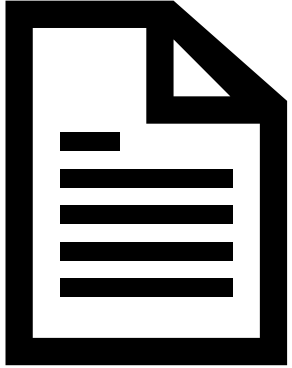


Get Census data

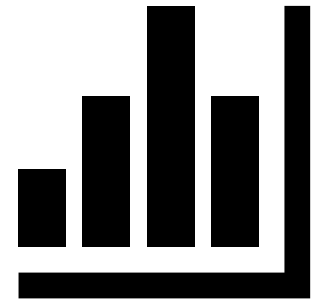


Simple analysis and visualization

Finally, let's visualize some of the data in Python



County Data (2023)



Median Income by County

Finally, let's visualize some of the data in Python

1. Copy the dataset from the SCHARE Workspace to your Workspace

```
!gsutil cp gs://fc-secure-d6e25d73-4b50-4dbc-ac10-ec689987eaa9/uploads/General/ACS_County_2023.csv .
```

2. Bring in a library of code that helps us store the data

```
import pandas as pd
```

3. Load in the dataset from the Workspace

```
data = pd.read_csv('ACS_County_2023.csv')
```

4. Take a peek at the data to see if this worked

```
data.head(10)
```

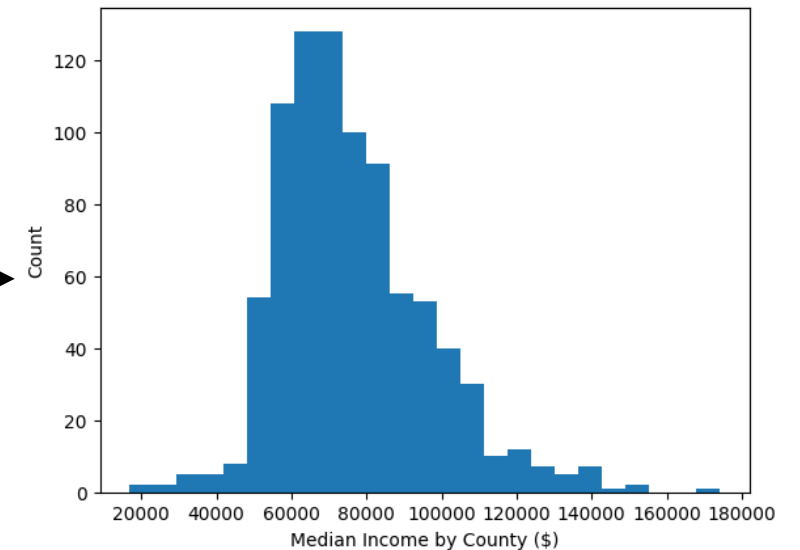
	GEO_ID	NAME	state	county	DP02_0001E	DP02_0002E	DP02_0003E	DP02_0004E	DP02_0005E	DP02_0006E	...	I
0	0500000US01003	Baldwin County, Alabama	1	3	105698	57455	16372	5658	2244	15984	...	
1	0500000US01015	Calhoun County, Alabama	1	15	46310	20559	7325	2114	1083	8399	...	
2	0500000US01043	Cullman County, Alabama	1	43	35961	19807	7399	2285	691	5868	...	
3	0500000US01049	DeKalb County, Alabama	1	49	27182	14118	5138	1991	963	4965	...	
4	0500000US01051	Elmore County, Alabama	1	51	33692	18114	5021	1563	404	5565	...	

5. Bring in a library of code for visualization

```
import matplotlib.pyplot as plt
```

6. Make a histogram of median household income by county

```
plt.hist(data['DP03_0062E'],25)
plt.xlabel('Median Income by County ($)')
plt.ylabel('Count')
```



from the codebook:

10/3/24, 8:47 PM		Census Data API: /data/2023/acs/1/profile/variables					
Name	Label	Concept	Required	Attributes	Limit	Predicate Type	Group
DP03_0061PE	Percent!!INCOME AND BENEFITS (IN 2023 INFLATION-ADJUSTED DOLLARS)!!Total households!!\$200,000 or more	Selected Economic Characteristics	not required	DP03_0061PEA , DP03_0061PM , DP03_0061PMA	0	float	DP03
DP03_0062E	Estimate!!INCOME AND BENEFITS (IN 2023 INFLATION-ADJUSTED DOLLARS)!!Total households!!Median household income (dollars)	Selected Economic Characteristics	not required	DP03_0062EA , DP03_0062M , DP03_0062MA	0	int	DP03

Putting it all together on Terra

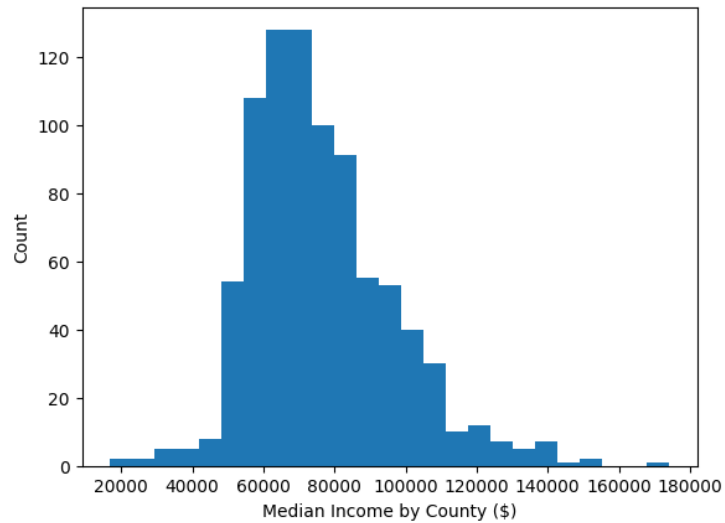
```
In [44]: # import packages for data storage
import pandas as pd

# copy dataset from SCHARE repository
!gsutil cp gs://fc-secure-d6e25d73-4b50-4dbc-ac10-ec689987eaa9/uploads/General/ACS_County_2023.csv .

# read in dataset and preview
data = pd.read_csv('ACS_County_2023.csv')
data.head(10)
```

```
In [46]: # import package to visualize data
import matplotlib.pyplot as plt

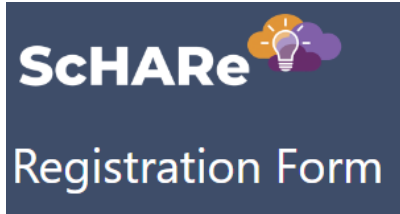
# make a histogram of median household income
plt.hist(data['DP03_0062E'],25)
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```



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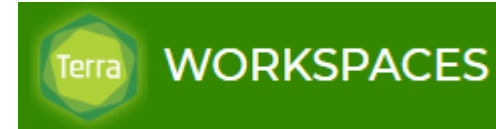


Link a billing account

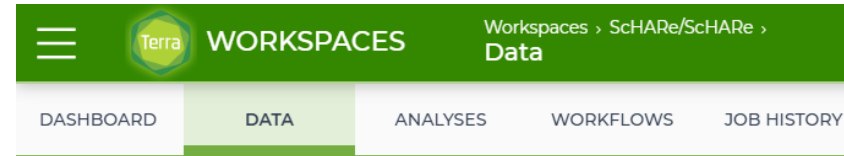


A tour of the SchARE Workspace

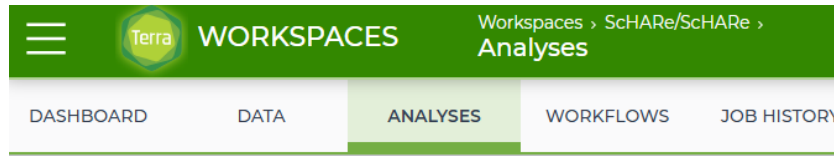
Terra Terminology



SchARE Workspace: Data Tab

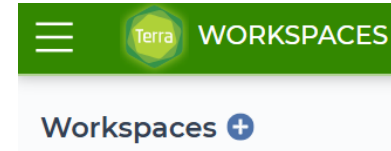


SchARE Workspace: Analyses Tab



Your first steps

Creating a Workspace



Pull data from the ACS



Simple analysis and visualization



Slido Poll

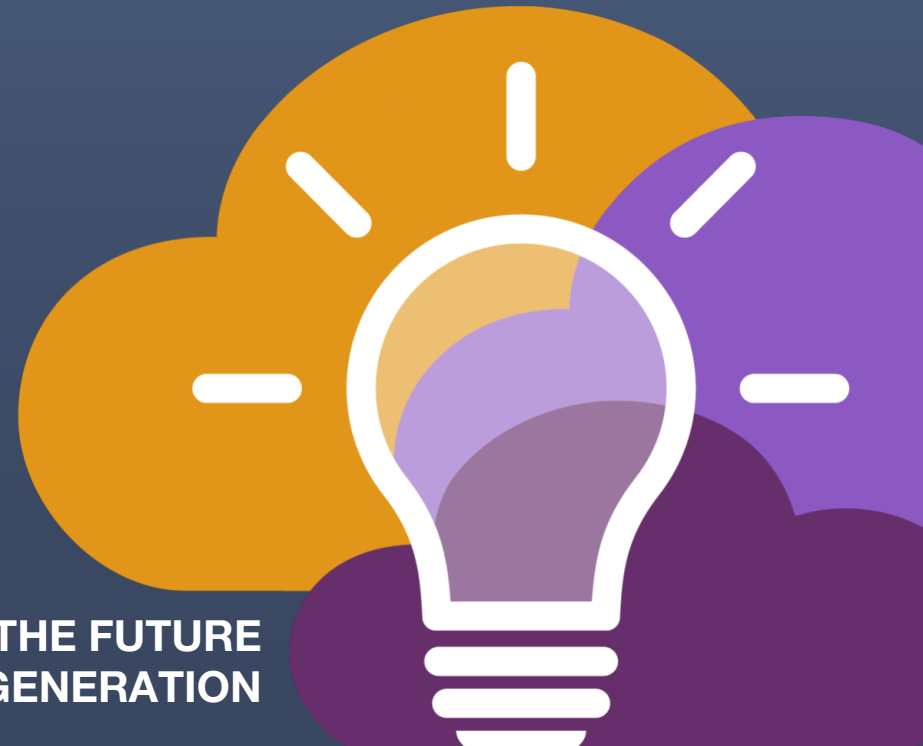
Which of the following is FALSE about the Data Tab in the SCHARE Terra Workspace?

- A. Terra can input your own data to use for analysis
- B. You can run your own analyses in the SCHARE Workspace
- C. Terra can input data from the SCHARE Workspace or Google
- D. Terra currently supports writing analysis code in R or Python

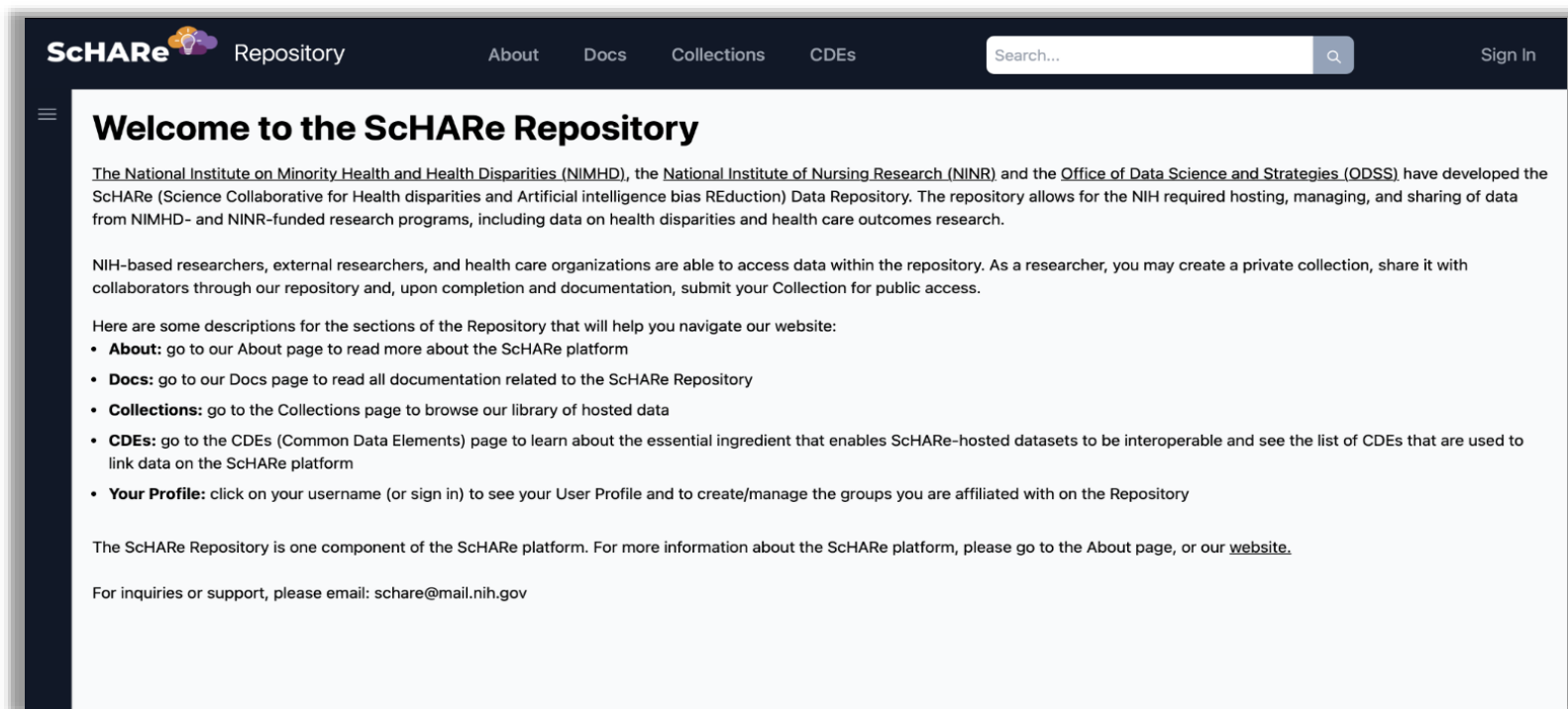
ScHARe

Repository
Background

BE A PART OF THE FUTURE
OF KNOWLEDGE GENERATION



ScHARe Repository



- Host your project data in a **safe space** with privacy levels, secure workspaces, collaboration platform
- Comply with **NIH Data Management and Data Sharing Policy**
- **Focus:** Social Science, SDoH, Health Disparities, Health Outcomes Research
- **CDE centric:** Map project CDEs or variables to ScHARe-PhenX CDEs
- **Link your data** with others and federated data



What can you do with the Repository?

Upload your own data

Store collected data and annotate with a data dictionary. Align data to the SchARE CDEs.

Harmonize data to CDEs

Map uploaded data to CDEs. Join your data with project or federated data via CDEs.

Browse for data

Find relevant federated national datasets or other project data.

Manipulate and aggregate data for analysis

Filter, sort, and select subsets for specific purposes. Link and aggregate datasets.

Control privacy levels and data sharing

Share confidential data among colleagues. Share public access data with the research community.

Data Analysis via SchARE Terra or local analysis platform



Key Features of the ScHARe Repository

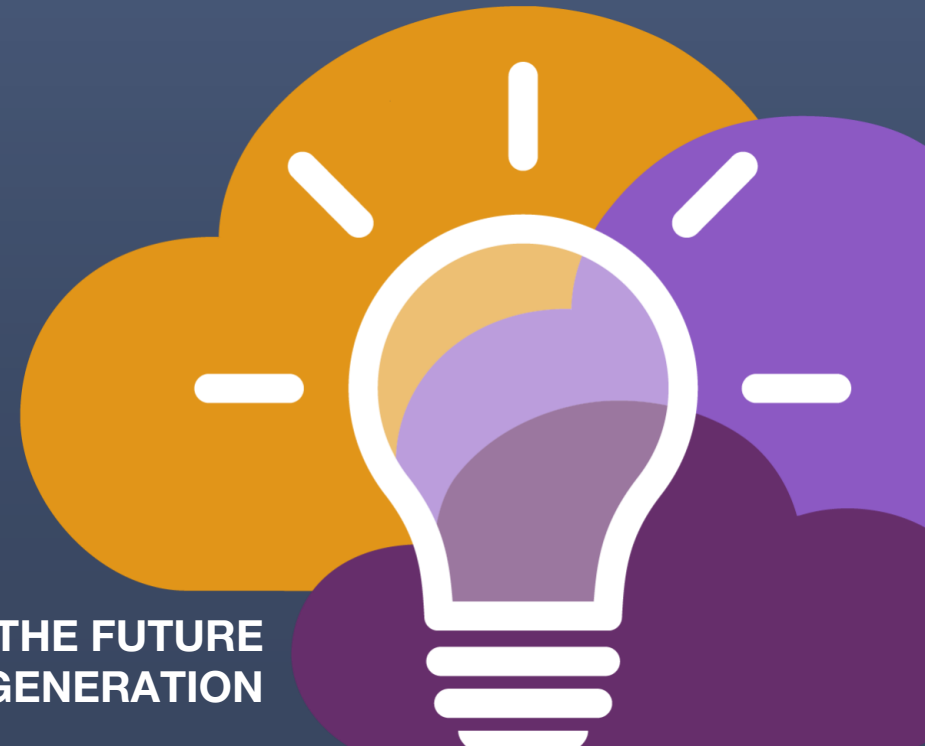
- Offers secure, long-term **storage** for project data
- Provides easy access to federated and other shared population science, Social Determinants of health (SDoH) **data sets**
- Leverages **CDEs** for organizing, aggregating, and harmonizing data
 - CDEs facilitate use of established semantic and coding systems
 - Aligns with ScHARe's focus on CDE centric data sharing
- Provides seamless tabular **data management**, aggregation, manipulation, and harmonization directly within the Repository
- Offers different **privacy levels** to meet individual data set requirements (public, restricted, confidential, private)
- Allows **sharing data** with other research collaborators



ScHARe

Getting Started

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Visit the ScHARe Repository!

<https://schare-repository.nimhd.nih.gov/>


For today's training, please use our test site:

<https://test-schare.nimhd.nih.gov/>


Data uploaded to this site will not be retained.




Log In to the Repository

 Repository

AboutDocsCollectionsCDEs

Search... 

Sign In



Welcome to the SchARE Repository


The [National Institute on Minority Health and Health Disparities \(NIMHD\)](#), the [National Institute of Nursing Research \(NINR\)](#) and the [Office of Data Science and Strategies \(ODSS\)](#) have developed the SchARE (Science Collaborative for Health disparities and Artificial intelligence bias REduction) Data Repository. The repository allows for the NIH required hosting, managing, and sharing of data from NIMHD- and NINR-funded research programs, including data on health disparities and health care outcomes research.

NIH-based researchers, external researchers, and health care organizations are able to access data within the repository. As a researcher, you may create a private collection, share it with collaborators through our repository and, upon completion and documentation, submit your Collection for public access.

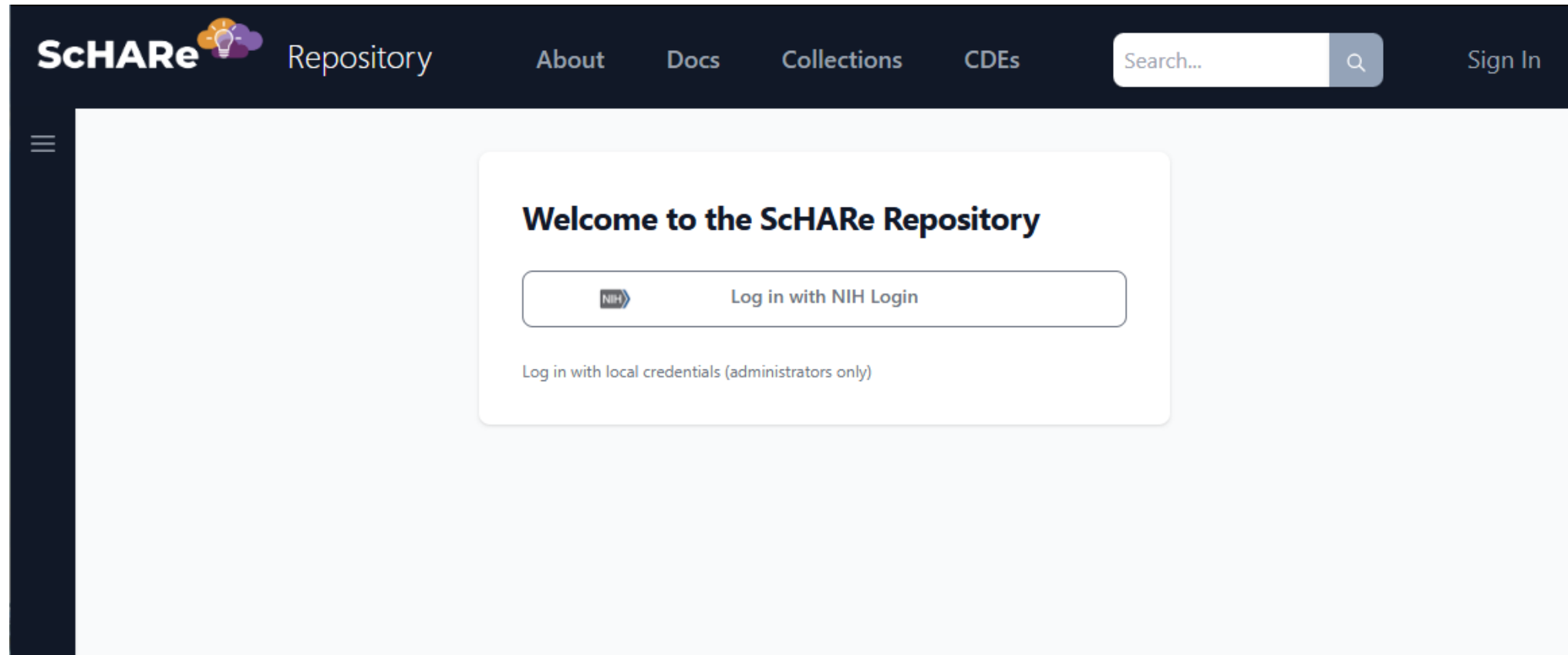
Here are some descriptions for the sections of the Repository that will help you navigate our website:

- **About:** go to our About page to read more about the SchARE platform
- **Docs:** go to our Docs page to read all documentation related to the SchARE Repository
- **Collections:** go to the Collections page to browse our library of hosted data
- **CDEs:** go to the CDEs (Common Data Elements) page to learn about the essential ingredient that enables SchARE-hosted datasets to be interoperable and see the list of CDEs that are used to link data on the SchARE platform
- **Your Profile:** click on your username (or sign in) to see your User Profile and to create/manage the groups you are affiliated with on the Repository

The SchARE Repository is one component of the SchARE platform. For more information about the SchARE platform, please go to the About page, or our [website](#).

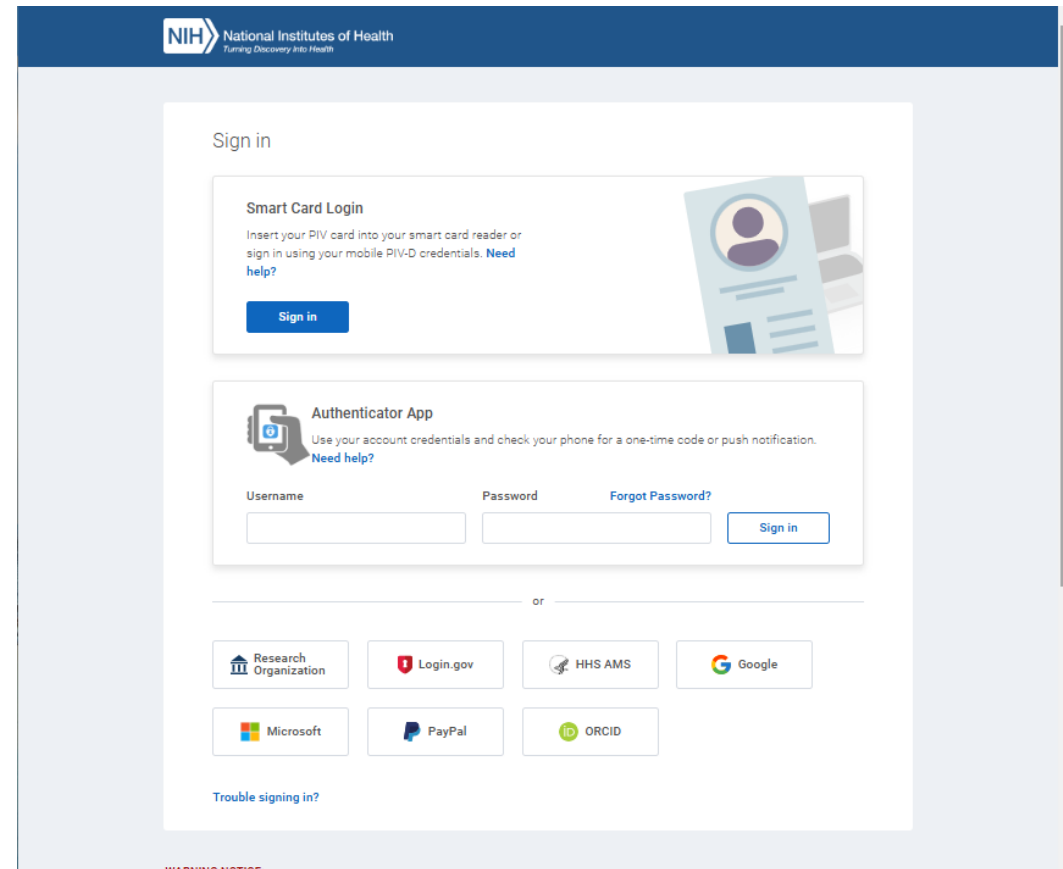


Log In to the Repository



Log In to the Repository

- Select the most appropriate login method
 - NIH Smart Card Login for NIH affiliates
 - Otherwise, Research Organization, Login.gov, HHS AMS preferred



The screenshot shows the NIH Sign in page. At the top is the NIH logo and the text "National Institutes of Health" and "Turning Discovery Into Health". Below this is a "Sign in" heading. The first login option is "Smart Card Login", which includes instructions to insert a PIV card or use mobile PIV-D credentials, a "Need help?" link, and a "Sign in" button. The second option is "Authenticator App", which includes instructions to use account credentials and check for a one-time code or push notification, a "Need help?" link, and a "Sign in" button. Below these are input fields for "Username" and "Password", and a "Forgot Password?" link. A horizontal line with "or" in the center separates these from a grid of social login buttons: "Research Organization", "Login.gov", "HHS AMS", "Google", "Microsoft", "PayPal", and "ORCID". At the bottom is a "Trouble signing in?" link.

NIH National Institutes of Health
Turning Discovery Into Health

Sign in

Smart Card Login
Insert your PIV card into your smart card reader or sign in using your mobile PIV-D credentials. [Need help?](#)
Sign in

Authenticator App
Use your account credentials and check your phone for a one-time code or push notification. [Need help?](#)
Username Password [Forgot Password?](#) **Sign in**


or

Research Organization Login.gov HHS AMS Google
Microsoft PayPal ORCID

[Trouble signing in?](#)



Log In to the Repository

 Sign in with Google

Choose an account

to continue to nih.gov




ScHARe Demo
scharedemo@gmail.com




Use another account



Log In to the Repository

 Sign in with Google

Sign in to nih.gov

 scharedemo@gmail.com ▼

By continuing, Google will share your name, email address, language preference, and profile picture with nih.gov. See nih.gov's Privacy Policy and Terms of Service.


You can manage Sign in with Google in your [Google Account](#).

Cancel

Continue



Log In to the Repository

 **National Institutes of Health**
Turning Discovery Into Health

NIH - Information Sharing Consent

Welcome scharedemo@gmail.com, (not scharedemo@gmail.com?
[Click here](#))

SchAREgDE is requesting access to the following information:


- **Basic profile information**
First Name, Last Name, User Id and Email

By clicking agree, you allow this application to use your information in accordance to their terms of service and privacy policies. The information is needed to facilitate your access to this application. The information will not be shared with other applications and it will be retained for a limited time. [NIH Privacy Policy](#).


GrantDeny




Log In to the Repository


 Repository


AboutDocsCollectionsCDEs

Search... 

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 My Collections >

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Terms of Use

To continue, you need to accept the terms of this website.

Terms and Conditions

Code of Conduct

Privacy Policy

Community Guidelines

SchARE Data Ecosystem and Research Collaboration Platform

Terms and Conditions


1. Acceptance of Terms

By accessing or using the SchARE Repository ("the Repository"), you agree to abide by these Terms and Conditions. These terms govern your use of the Repository's website, services, and tools, in addition to the Data Use Agreement (DUA) that governs the use of the publicly available data.


☐ I accept the above terms and conditions. *

Accept All


Reject





Log In to the Repository


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ScHARe Data Ecosystem and Research Collaboration Platform

Terms and Conditions


1. Acceptance of Terms

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☒ I accept the above terms and conditions. *

Accept All


Reject





Log In to the Repository


 Repository


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Community Guidelines

SchARE Data Ecosystem and Research Collaboration Platform

General Data Use Agreement


The SchARE General Data Use Agreement sets forth principles for responsible management and use of large-scale health disparities and population health data accessed through the SchARE Repository.

This agreement applies to all the data contained within the SchARE Repository, including publicly accessible data along with researcher-


☒ I accept the above code of conduct. *

Accept All


Reject





Log In to the Repository


ScHARe  Repository


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Code of Conduct✓

Privacy Policy✓

Community Guidelines

ScHARe Data Ecosystem and Research Collaboration Platform

Privacy Policy

General Information


The ScHARe Privacy Policy adheres to the guidelines of both the [NIH Web Privacy Policy](#) and the [HHS Web Privacy Policy](#).

For site management, information may be collected for statistical purposes


☒ I accept the above privacy policy. *

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Code of Conduct✓

Privacy Policy✓

Community Guidelines✓

ScHARe Data Ecosystem and Research Collaboration Platform


Community Guiding Principles

This Community Guiding Principles document outlines expectations of every member of the Science Collaborative for Health disparities and Artificial intelligence bias REduction (ScHARe) community, which includes institutions and individuals who use ScHARe resources, expertise, and data. The ScHARe community is committed to providing a welcoming and inspiring environment for all community members. Failure to abide by this

☒ I accept the above community guidelines. *

Accept All

Reject



ScHARe Repository

Learn more about the site

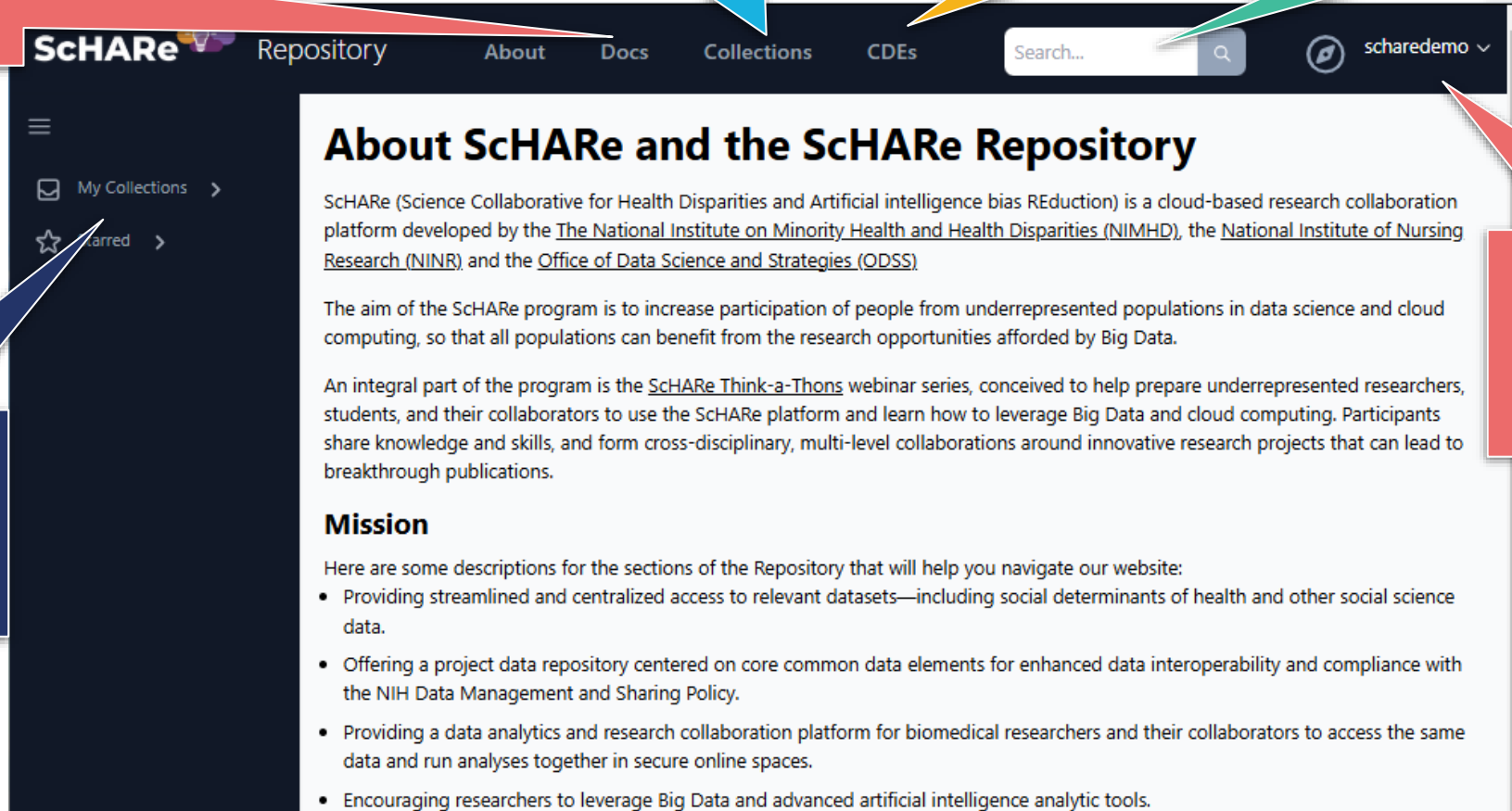
Browse for data
(private and public)

View CDE definitions

Search across all data that
you can see
(private and public)

Quick links to recently
accessed and your
own data

Log in, log out, and user
information



The screenshot shows the ScHARe Repository website interface. The top navigation bar includes links for 'About', 'Docs', 'Collections', and 'CDEs', along with a search bar and a user profile dropdown labeled 'scharedemo'. A left sidebar contains 'My Collections' and 'starred' links. The main content area features a heading 'About ScHARe and the ScHARe Repository' followed by a paragraph describing the platform's development by NIMHD, NINR, and ODSS. Below this is a paragraph about the program's aim to increase participation in data science and cloud computing. A 'Mission' section follows, listing three bullet points: providing streamlined access to datasets, offering a project data repository centered on core common data elements, and providing a data analytics and research collaboration platform for biomedical researchers.

ScHARe Repository

About Docs Collections CDEs Search... scharedemo

My Collections >

starred >

About ScHARe and the ScHARe Repository

ScHARe (Science Collaborative for Health Disparities and Artificial intelligence bias REduction) is a cloud-based research collaboration platform developed by the [The National Institute on Minority Health and Health Disparities \(NIMHD\)](#), the [National Institute of Nursing Research \(NINR\)](#) and the [Office of Data Science and Strategies \(ODSS\)](#)

The aim of the ScHARe program is to increase participation of people from underrepresented populations in data science and cloud computing, so that all populations can benefit from the research opportunities afforded by Big Data.

An integral part of the program is the [ScHARe Think-a-Thons](#) webinar series, conceived to help prepare underrepresented researchers, students, and their collaborators to use the ScHARe platform and learn how to leverage Big Data and cloud computing. Participants share knowledge and skills, and form cross-disciplinary, multi-level collaborations around innovative research projects that can lead to breakthrough publications.


Mission

Here are some descriptions for the sections of the Repository that will help you navigate our website:

- Providing streamlined and centralized access to relevant datasets—including social determinants of health and other social science data.
- Offering a project data repository centered on core common data elements for enhanced data interoperability and compliance with the NIH Data Management and Sharing Policy.
- Providing a data analytics and research collaboration platform for biomedical researchers and their collaborators to access the same data and run analyses together in secure online spaces.
- Encouraging researchers to leverage Big Data and advanced artificial intelligence analytic tools.



ScHARe Repository - Docs



The screenshot shows the ScHARe Repository website. The header is dark blue with the ScHARe logo (a lightbulb icon) and the word 'Repository'. Navigation links include 'About', 'Docs', 'Collections', and 'CDEs'. A search bar is on the right. A sidebar on the left has a menu icon, 'My Collections', and 'Starred'. The main content area has a large heading 'Welcome to the Repository Documents Library!' followed by 'ScHARe Terms and Services' and 'Community Guiding Principles'. The 'Community Guiding Principles' section contains two paragraphs of text. A 'Table of Contents' sidebar on the right lists various documents with bullet points.

ScHARe Repository

About Docs Collections CDEs Search... scharedemo

My Collections Starred

Welcome to the Repository Documents Library!

ScHARe Terms and Services

Community Guiding Principles

This Community Guiding Principles document outlines expectations of every member of the Science Collaborative for Health disparities and Artificial intelligence bias REduction (ScHARe) community, which includes institutions and individuals who use ScHARe resources, expertise, and data. The ScHARe community is committed to providing a welcoming and inspiring environment for all community members. Failure to abide by this Community Guiding Principles document may result in revocation of approved access to datasets obtained through the ScHARe ecosystem and access to the ScHARe platform.


These principles were established by the ScHARe Community to encourage and enable a highly collaborative research environment to address and reduce health disparities, improve health outcomes, and mitigate artificial intelligence bias. ScHARe Community members are expected to honor these guiding principles, be open to questions, reserve judgement, treat each other with respect, and foster engagement regardless of the career level or knowledge base.

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- Welcome to the Repository Documents Library!
- • ScHARe Terms and Services
- • Community Guiding Principles
 - • • Guiding Principles
 - • • Ethics Statement
 - • • Diversity and Inclusion Statement
 - • • Communication Etiquette
 - • • Keeping on Track
 - • • Audio and Visual Presence
 - • • Public and Private Messaging
 - • • Respect and Communicate team and personal boundaries.
 - • • Resolving Issues and Conveying Concerns
 - • General Data Use



ScHARe Repository - Collections

ScHARe 

Repository


About


Docs

Collections


CDEs


Search...



 scharedemo ▾

☰


 My Collections >

 Starred >

Collections


Create New Collection

My Collections



You don't have any collections yet - why not create a new one using the button above?

Shared with Me



You don't have any collections shared with you right now!

Public Collections

grouped by: Domains of Influence

Biological

Example NMHSS Analysis


LIVE

This contains data from the 2018 National Mental Health Services Survey (N-MHSS)...


7 months ago




ScHARe Repository - CDEs


 Repository


AboutDocsCollectionsCDEs

Search... 

 scharedemo ▾

☰

 My Collections >

 Starred >

Common Data Elements

A major obstacle in advancing health disparities research is linking data between different studies. To surmount this, the ScHARe Repository makes use of a set of shared language, definitions, and an internal reference system associated with common categories in health disparities data. This system is known as Common Data Elements (CDEs), and the use of CDEs across the Repository enables the linking of datasets and a new generation of health disparities research.

The ScHARe Repository leverages the following CDE sets:

ScHARe 19 CDEs

ScHARe core common data elements

Age

Age >

number | 5 definitions | 1 concept | PDjBiGXjO:0001

Age Units >

string | 5 definitions | 1 concept | valueSet | GNVoeEdFQR0:0001

Birthplace

Birthplace - US >


string | 5 definitions | 3 concepts | 0qP44x2oX:0001

Birthplace - Country Outside US >

string | 4 definitions | 2 concepts | _qZulkipzA:0001



ScHARe Repository - User Profile

ScHARe 

Repository


About

Docs


Collections


CDEs

Search...

 scharedemo

☰

 My Collections

 Starred

Signed in as **scharedemo**

Sign out

Common Data Elements

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Birthplace

Birthplace - US >

string | 5 definitions | 3 concepts | 0qP44x2oX:0001

Birthplace - Country Outside US >


string | 4 definitions | 2 concepts | _qZulkipzA:0001

Postal Zip Code >


string | 5 definitions | 1 concept | eT7V_ETn_6:0001





ScHARe Repository - User Profile


 Repository


AboutDocsCollectionsCDEs

Search... 

 scharedemo ▾



 My Collections >

 Starred >

User Profile: ScHARe Demo

User Details

Username	scharedemo
User email	scharedemo@gmail.com
Subject ID	436625d1-348c-4144-8d9f-2ec00283bc1c
Account ID	a:9f51e3d7-40f0-4b9a-95c2-a5c7d483a9a3
First Login	10 minutes ago

Profile Visibility


Your user profile's visibility controls what others see when they search for you on this site or when they view data that you have published such as public collections. Your options are:

- **Public** - Your full name and username will be visible to all users, including users who are not logged in.
- **Unlisted** - Your profile will only be visible to users who are logged in and who are members of a group that you are a member of.

Visibility:



ScHARe Repository - User Profile

ScHARe 

Repository


About


Docs

Collections


CDEs


Search...



 scharedemo ▾

☰

 My Collections >

 Starred >

User Profile: ScHARe Demo

User Details

Username	scharedemo
User email	scharedemo@gmail.com
Subject ID	436625d1-348c-4144-8d9f-2ec00283bc1c
Account ID	a:9f51e3d7-40f0-4b9a-95c2-a5c7d483a9a3
First Login	11 minutes ago

Profile Visibility

Your user profile's visibility controls what others see when they search for you on this site or when they view data that you have published such as public collections. Your options are:

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- **Unlisted** - Your profile will only be visible to users who are logged in and who are members of a group that you are a member of.

Visibility:

Unlisted ▾

Update profile visibility

