



EVALUATING HEALTHCARE DATASETS:

A Framework to Select Datasets and to Standardize, Classify and Link Variables

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The Challenge

Selecting the few based on suitability rather than familiarity

Many are Called

There are thousands of healthcare datasets.

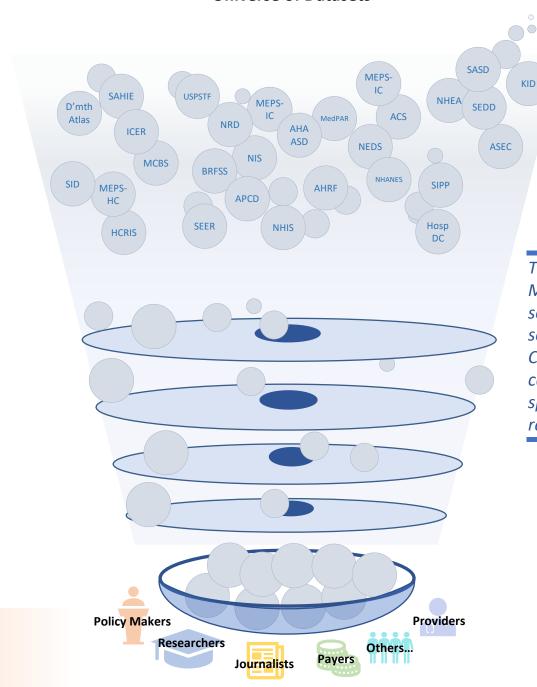
Few are Chosen

A handful may be suitable for a particular need.



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Universe of Datasets



The National Library of Medicine lists over 1,500 sources for health services research. Stern Consulting has catalogued over 3,500 specific datasets and related vehicles.

Framework for Sorting < Through the Data Universe (version 2.0)

To sort through it all, we developed a framework that

- Defines the characteristics of datasets (Data Dimensions),
- Identifies user requirements (User Considerations), and
- Matches those considerations to find the datasets best suited for a particular project (Selected Datasets).

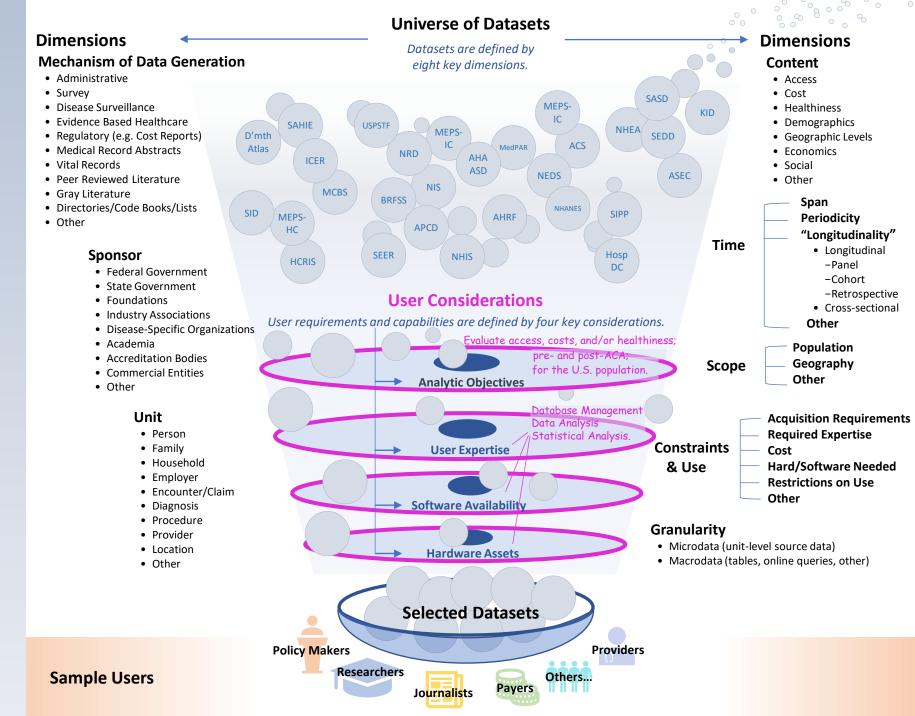
Universe of Datasets Data Dimensions Data Dimensions Datasets are defined by Mechanism of Data Generation Content eight key dimensions. Administrative Access Survey Cost **SASD** MEPS-• Disease Surveillance Healthiness KID · Evidence Based Healthcare Demographics **SAHIE USPSTF** NHEA/ MEPS-SEDD Regulatory (e.g. Cost Reports) D'mth Geographic Levels ACS MedPAR · Medical Record Abstracts Atlas Economics NRD AHA **ICER** Vital Records Social ASD **NEDS ASEC** • Peer Reviewed Literature Other NIS **MCBS** Gray Literature **BRFSS** Span Directories/Code Books/Lists **NHANES** SID SIPP MEPS-**AHRF** Periodicity Other **APCD** HC "Longitudinality" Time Longitudinal Sponsor **SEER** Hosp NHIS **HCRIS** -Panel DC · Federal Government -Cohort • State Government -Retrospective **User Considerations** Foundations Cross-sectional Industry Associations User requirements and capabilities are defined by four key considerations. Other Disease-Specific Organizations Academia **Population** · Accreditation Bodies Geography Scope Commercial Entities **Analytic Objectives** Other Other Unit **Acquisition Requirements Required Expertise** Person Constraints Family **User Expertise** Cost Household & Use Hard/Software Needed Employer Restrictions on Use Encounter/Claim Other Software Availability Diagnosis Procedure Granularity Provider Microdata (unit-level source data) Location **Hardware Assets** Macrodata (tables, online queries, other) • Other **Selected Datasets** Policy Makers **Providers** Researchers Sample Users Others... Payers Journalists

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User Considerations

Analytic Objectives: The selected datasets had to address access, cost and/or healthiness; be available to the public pre- and post-ACA; and reflect the U.S. population.

User Capabilities: Selections had to account for differing user capabilities concerning database management, data analysis, and statistics.

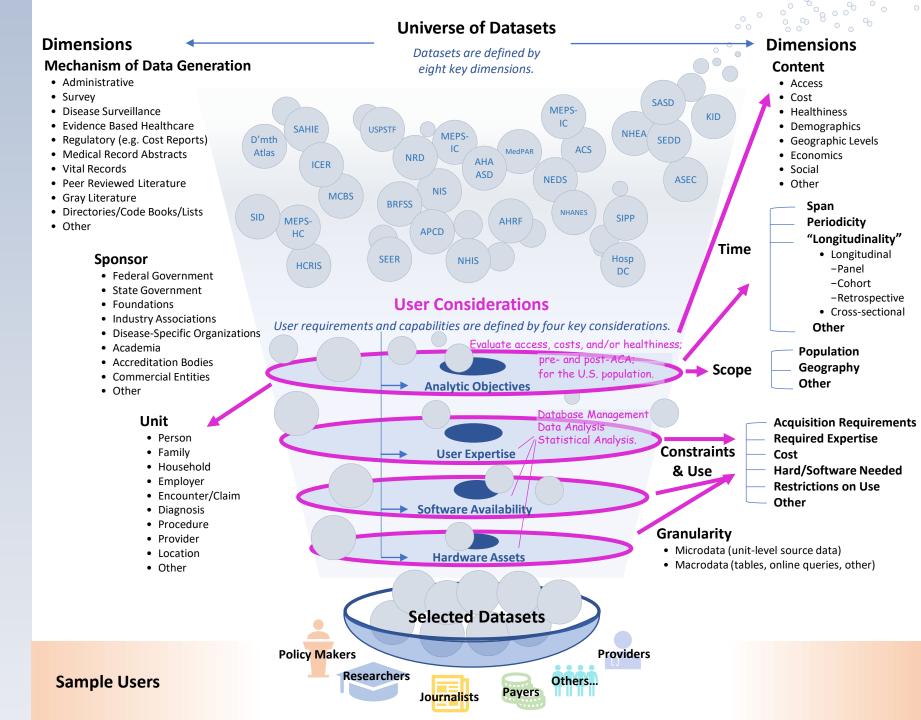


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Key Dimensions

Analytic objectives were addressed primarily by the Content, Time, Scope and Unit dimensions.

User Capabilities were addressed by the "Constraints & Use" dimension.



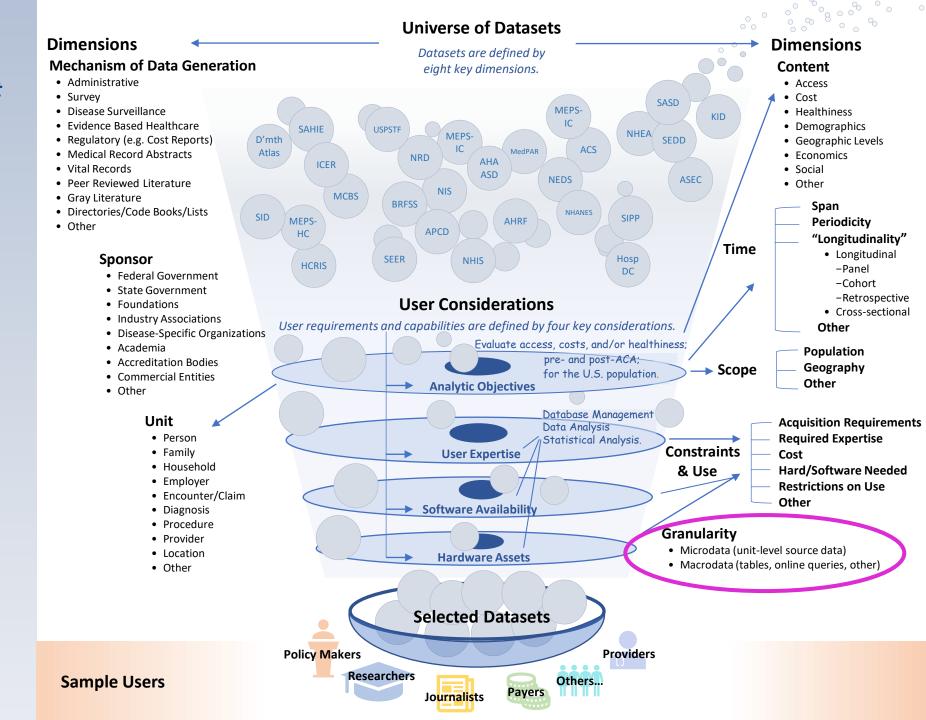
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The "Granularity" Dimension

Microdata: most flexible, but high degree of user expertise required.

Macrodata: less flexible, but easier to use and can be quite robust.

Both were included in the data selection process.

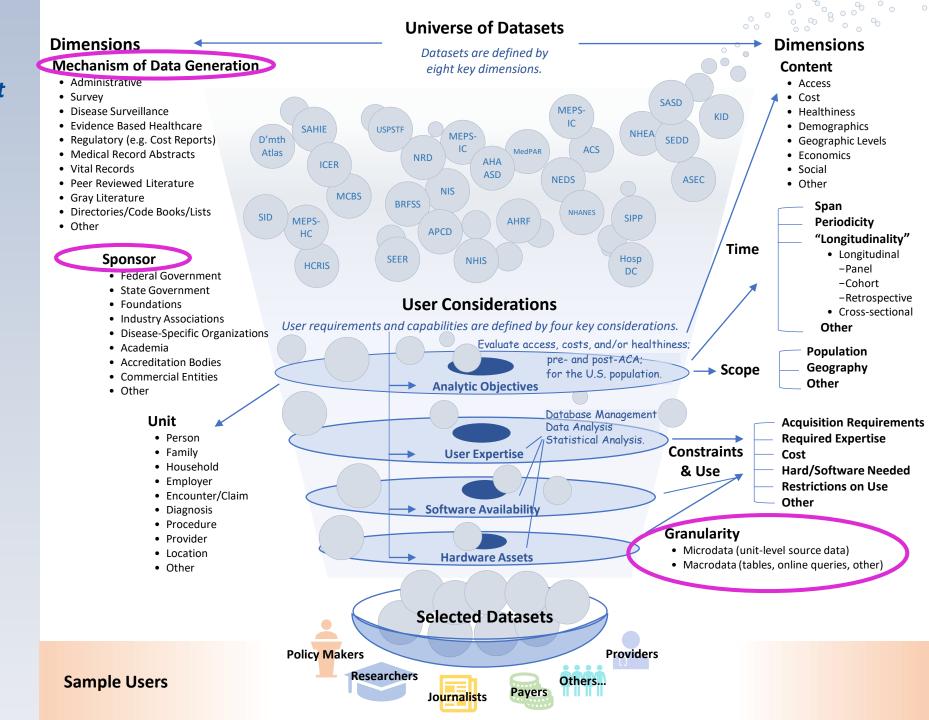


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Dimensions Not Linked to User Considerations

Some data dimensions are not constrained by user requirements.

They offer the most opportunity for thinking broadly about available datasets and looking beyond the familiar.



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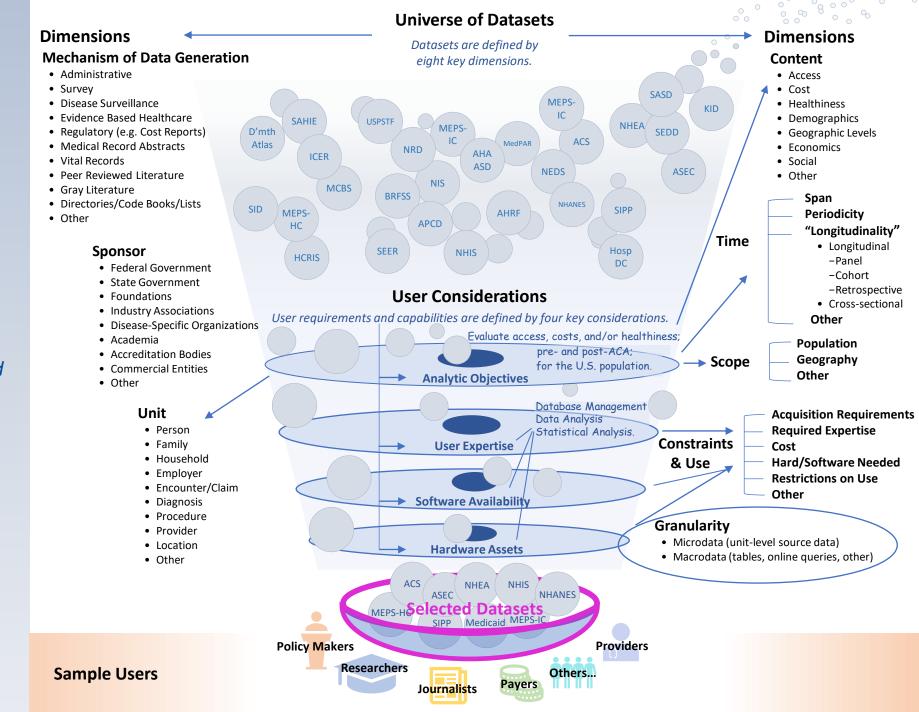
From Many to Few

Selected Datasets: Nine datasets "made the cut" after matching user needs to data dimensions.

Beyond the Familiar

The best-suited datasets for our case study were a mixture of microdata and macrodata, surveys and admin data, healthcare- and nonhealthcare-focused data sets.

The framework not only narrowed our field of datasets to the most appropriate, but broadened our thinking beyond the familiar.



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Selected Datasets by **Dimension**

Each of the nine selected datasets is characterized by each of the eight data dimensions.

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Dimensions of Datasets

	Datasets	Notes	Mechanism of Data Generation	Sponsor (Data Collector)	<i>Variab</i> Hea	ontent le Counts:* lth Care lealthcare	Unit	Granularity	Constraints & Use** Requirements	Time Span/ Longitudinality	Scope
	ACS American Community Survey	Extensive geographic and demographic drill downs on disability and health insurance.	Survey	Census Bureau	Healthcare Non-Healthcare	17 199	Person	Macro/ Microdata	Ready-to-Use/ Requirements	2005-present Cross- sectional	National
	ASEC Annual Social and Economic Supplement to the CPS	Labor force data with health insurance, out-of-pocket \$ and health status fields.	Survey	BLS (Census Bureau)	Healthcare Non-Healthcare	182 ■ 479 ■	Person	Macro/ Microdata	Ready-to-Use/ Requirements	1998-present Cross- sectional	National
	SIPP Survey of Income and Program Participation	Premier source of information on income and program participation. Addresses health insurance.	Survey	Census Bureau	Healthcare Non-Healthcare	253 ■	Person	Microdata	Requirements	1984-present Longitudinal	National
	MEPS-HC Medical Expenditure Panel Survey, Household Component	Person-level health expenditures with longitudinal capabilities.	Survey	AHRQ (Westat)	Healthcare Non-Healthcare	330	Person	Macro/ Microdata	Ready-to-Use/ Requirements	1996-present Cross- sectional Longitudinal	National
	NHANES National Health and Nutrition Examination Survey	Survey combines interviews and physical examination, including lab tests.	Survey	NCHS/CDC	Healthcare Non-Healthcare	1,733	Person	Microdata	Requirements	1999-present Cross- sectional	National
	NHIS National Health Interview Survey	Principal source of information on health of U.S. population. Robust demographic, socioeconomic data.	Survey	CDC (NCHS)	Healthcare Non-Healthcare	1,388	Person	Macro/ Microdata	Ready-to-Use/ Requirements	1963-present Cross- sectional	National
	MEPS-IC Medical Expenditure Panel Survey, Insurance Component	Factors contributing to use of employer sponsored insurance. Premiums and cost sharing.	Survey	AHRQ (Census Bureau)	Healthcare Non-Healthcare	153 ■ 22 □	Employers	Macrodata	Ready-to-use	1996-present Cross- sectional	National
	Medicaid (various program data)	Actual enrollment data. Breakouts of new eligibility categories created by ACA.	Admin	CMS	Healthcare Non-Healthcare	30 I 8 I	Person	Macrodata	Ready-to-use	Span [†] Cross- sectional	National
	NHEA National Health Expenditure Accounts	Official estimates of healthcare spending in U.S. Includes care, admin, research and infrastructure.	Multiple Sources	HHS	Healthcare Non-Healthcare	14	Services, Payers, Sponsors	Macrodata	Ready-to-use	1960-present Cross- sectional	National
	BLS: Bureau of Labor Statistics	NCHS: National Center for H	aalth Statistic	·c	CMS: Con	tors for Modicaro	and Madicaid S	onvicos			

BLS: Bureau of Labor Statistics
AHRQ: Agency for Healthcare Research and Quality

NCHS: National Center for Health Statistics
CDC: Centers for Disease Control and Prevention

CMS: Centers for Medicare and Medicaid Services HHS: Department of Health and Human Services

- "Counts of variables" by topic is a reasonable method of determining a dataset's areas of focus. Each variable from the nine selected datasets has been categorized by subject matter.

 All ultimately roll up to either "non-healthcare" or "healthcare." Additional detail on content is provided below. (Counts exclude sample weights and variables related to survey administration.)
- ** All selected datasets are free. Macrodata versions are typically easy- or ready-to-use. For the microdata versions, users must have database management skills and ability to generate population estimates (relatively easy) and margins of error (more complicated) from raw survey data. Microdata are typically too large for MS Excel or MS Access and require database management/statistical analysis software and the corresponding hardware.
 - Varies by program. Performance Indicator Project (PIP): Oct 2013-present. Medicaid Budget & Expenditure System (MBES): Jan 2014-present. Statistical Enrollment Data System (SEDS): Oct 2013-present.

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Selected Datasets by Dimension: Content

"Variable count" by topic reveals each dataset's areas of focus.

Note that even the datasets not focused on healthcare contain extensive economic, social and demographic data, by which the limited health data they do contain, can be analyzed.

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	MEPS-HC Medical Expenditure Panel Survey, Household Component	Person-level health expenditures with longitudinal capabilities.	Survey	AHRQ (Westat)	Healthcare Non-Healthcare	1,252 330	Person	Macro/ Microdata	Ready-to-Use/ Requirements	1996-present Cross- sectional Longitudinal	National
	NHANES National Health and Nutrition Examination Survey	Survey combines interviews and physical examination, including lab tests.	Survey	NCHS/CD	Healthcare Non-Healthcare	1,733	Person	Microdata	Requirements	1999-present Cross- sectional	National
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BLS: Bureau of Labor Statistics
AHRQ: Agency for Healthcare Research and Quality

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- "Counts of variables" by topic is a reasonable method of determining a dataset's areas of focus. Each variable from the nine selected datasets has been categorized by subject matter.

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Content Detail

The main healthcare and nonhealthcare categories are broken out into increasingly finer levels of detail and standardized across datasets.

This allows the comparison of datasets by specific areas of strength. Here we see, for example, that the best resources for "Ability to Get Care" data are NHIS, MEPS-HC and NHANES (with SIPP also "on the board.")

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Variable Counts by Content Category Dataset

	Combount Cohomounica			Datasets										
Content Categories			Nan Ha			Healthcare Focused								
				ealthcare Fo						===				
aın	Sub-Category 1	Sub-Category 2	ACS	ASEC	SIPP	MEPS-HC	NHANES	NHIS	Medicaid	MEPS-IC	NHEA			
	Access	Ability to Get Care	40	457	19	178	171	263	22	05				
		Ability to Pay for Care	10	157	153	340	1/	203	22	85	11			
		Charges				19								
	Cost	Encounters			12	21	4	17						
۵.		Expenditures				300		-	8		586			
are		Expenditures by Sponsor		15	20			4		66	43			
ф		Behavior/Attitude				4	224	62						
eal		Body Composition				1	151	8						
	Healthiness	Child-Specific Problems			29	28		10						
		Clinical Results					381							
		Condition			2	81	306	702						
		Days Lost Due to Illness			3	3		5						
		Diet					406							
Non-Healthcare		Functional Limitation	7	9	14	39	55	79						
		Status		1	1	32	18	35						
		Age	2	3	14	7	5	3			1			
	Demographics	Population									1			
		Race/Ethnicity	12	7	3	8	2	15						
		Sex	1	1	11	1	2	3			1			
		Child Care		9	47			3						
	Social	Education	7	4	24	6	4	4						
Ion-Healthcare		Household Composition	33	77	314	65	88	42						
		Heritage	17	5	14	7	19	7						
		Internet/Computer Use	11				1	7						
		Marital Status	6	2	8	8	2	5						
eal		Migration	3	10	3									
Non-Healthcare Healthcare		Military Status	13	5	13	6	2	11						
ē		Neighborhood			4			5						
_	Geographic Level	Specified Levels	8	13	7	4		4	8	4	4			
		Income	13	211	428	25	3	51						
Non-Healthcare Healthcare C C C C C C C C C C C C C C C C C C C		Other Benefits	1	19	41		10	8						
	Economics	Assets	1	1	267									
		Debt			108									
		Taxes		20	5	6								
		Paid Support			17									
		Labor Force	13	37	221	48	5	15		5				
		Job Characteristics	15	47	800	139	4	12		14				
		Problems Paying Bills			2									
		Food Security			8			10						
		Indicators									6			
	Housing	Financial	26	3	34			1						
		Physical	17	5	13			6						

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Content Comparison

Example: Ability to Get Care

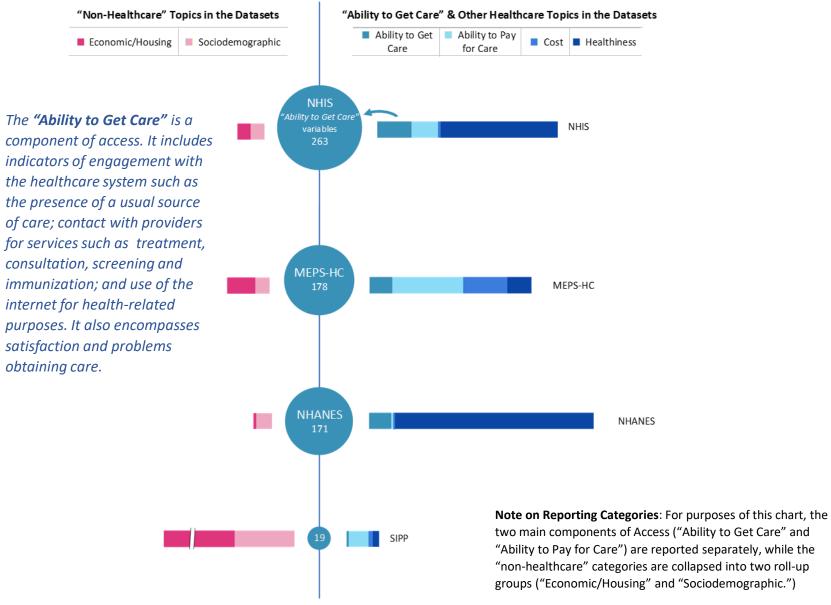
The framework enables comparison of datasets in multiple ways. This example shows

- A ranking of the selected datasets according to their treatment of the "Ability to Get Care" (based on counts of relevant variables), and
- The availability of other variables for cross classification.

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Datasets with "Ability to Get Care" Data

(Bars show the relative variable counts for content categories within each dataset. Bubbles compare the "Ability to Get Care" category across datasets.)



ACS, ASEC, Medicaid (eligibility data), MEPS-IC and NHEA contain no "ability to get care" data.

Framework for Sorting Through the Data Universe (version 2.0)

Creating a Variable Classification System

One of our most important efforts to make this framework possible, was to standardize and classify variables across the profiled datasets. Each variable has up to nine levels of classification.

Once categorized, variables may be

- **Counted** to determine the focus of datasets, and
- "Searched on" to find variables relevant to specific topics.

This process is reflected through the "Content" dimension of the framework.

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Variable Classification: Example

Main	Sub-cat. 1	Sub-cat. 2	Sub-cat. 3	Sub-cat 4	Additional sub-categories					
Healthcare	Access	Ability to Get	Source of Care	(Y/N)						
		Care		Type						
				Purpose						
				Provider Race						
				Provider Sex						
We built o	n the existing	sponsor		Time to Get to						
	where indica	•		Reason Without						
	e gaps as nee			Caregiver Assista	nce					
	ogress currei			Doctor Treats Adults and Children						
•		•		Impact of Health Insurance						
	undreds of co	_	Contact with System	Contact by Type of Service						
for thousands of variables, and we are continually refining it.				Immunization						
				Instruction						
				Internet/Computer Use for Healthcare						
				Prophylactic Medications Screening Seen/Talked to Health Professional						
				Treatment						
			Problems Obtaining Care							
			Satisfaction							
		Ability to Pay for Care	Health Insurance							

Framework for Sorting Through the Data Universe

(version 2.0)

Additional Applications of the Framework

Variable Composition

Analyzing the possible values for a given variable provides an additional opportunity for comparing datasets.

In this example, note that the most comprehensive "race" variable in the American Community Survey (ACS) contains 100 possible values. In the National Health and Nutrition Examination Survey (NHANES) the most comprehensive race variable contains seven.

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Recoded detailed race code (RAC3P)

001 .White alone

002 .Black or African American alone

003 American Indian and Alaska Native alone

004 .Asian Indian alone

005 .Chinese alone

006 .Filipino alone

007 .Japanese alone

008 .Korean alone

009 . Vietnamese alone

010 .Other Asian alone

011 .Native Hawaiian alone

012 .Guamanian or Chamorro alone

013 .Samoan alone

014 .Other Pacific Islander alone

015 .Some Other Race alone

016 .White; Black or African American

017 .White; American Indian and Alaska Nativ

018 .White: Asian Indian

019 .White; Chinese

020 .White; Filipino

021 .White; Japanese

022 .White; Korean

023 .White; Vietnamese

024 .White; Other Asian

025 . White; Native Hawaiian

026 .White: Guamanian or Chamorro

027 .White; Samoan

028 .White; Other Pacific Islander

029 .White; Some Other Race

030 .Black or African American: American Indi

031 .Black or African American; Asian Indian

032 .Black or African American; Chinese

033 .Black or African American; Filipino

034 .Black or African American: Japanese

035 .Black or African American: Korean

036 .Black or African American: Other Asian

037 .Black or African American; Other Pacific Is

038 .Black or African American; Some Other Ra

039 .American Indian and Alaska Native: Asiar

040 .American Indian and Alaska Native; Filipin

041 .American Indian and Alaska Native: Some

042 .Asian Indian; Other Asian

043 .Asian Indian; Some Other Race

044 .Chinese; Filipino

045 .Chinese: Japanese

046 .Chinese; Korean

047 .Chinese; Vietnamese

048 .Chinese; Other Asian

049 .Chinese: Native Hawaiian

050 .Filipino; Japanese

051 .Filipino; Native Hawaiian

052 .Filipino; Other Pacific Islander

053 .Filipino; Some Other Race 054 Japanese: Korean

055 Japanese: Native Hawaiian

056 . Vietnamese; Other Asian

057 .Other Asian; Other Pacific Islander

058 .Other Asian: Some Other Race

059 .Other Pacific Islander: Some Other Race

060 .White; Black or African American; American Indian and Alaska .Native

061 .White; Black or African American; Filipino

062 .White; Black or African American; Some Other Race

063 .White; American Indian and Alaska Native; Filipino

064 .White: American Indian and Alaska Native: Some Other Race

Hawaiian

Hawaiian

ve Hawaiian

ve Hawaiian

me Other Race

o: Native Hawaiian

ese: Native Hawaiian

can; Asian groups

065 .White; Chinese; Filipino

"Count of Variables" may

mask comprehensiveness.

This single ACS race variable

(RAC3P) has 100 possible values. It is "counted" once,

the same as a race variable

with a handful of possible

values.

n American; Asian groups

n and Alaska Native: Asian groups

n and Other Pacific Islander groups; .and/or Some Other Race

American; American Indian and Alaska .Native; Asian groups

can; Native Hawaiian and Other Pacific .Islander groups

082 .White; Black or African American; American Indian and Alaska .Native; and/or Native Hawaiian and Other Pacific Islander groups: and/or Some Other Race

The most comprehensive National Health and Nutrition **Examination Survey (NHANES)** race variable (RIDRETH3) contains seven possible values.

1 Mexican American

2 Other Hispanic

3 Non-Hispanic

4 Non-Hispanic Black

6 Non-Hispanic Asian

7 Other Race - Including Multi-Racial

American; and/or Asian groups; .and/or Native Hawaiian and Other Pacific Islander groups; .and/or

and Alaska Native; and/or Asian .groups; and/or Native Hawaiian and Other Pacific Islander .groups and/or Asian groups; and/or Native . Hawaiian and Other Pacific Islander groups; and/or Some

Asian groups; and/or Native Hawaiian .and Other Pacific Islander groups; and/or Some Other Race Native Hawaiian and Other Pacific .Islander groups; and/or Some Other Race

Asian groups; and/or Native Hawaiian .and Other Pacific Islander groups; and/or Some Other Race d/or Native Hawaiian and Other .Pacific Islander groups; and/or Some Other Race

an: American Indian and Alaska .Native: and/or Asian groups: and/or Native Hawaijan and .Other

an; Asian groups; and/or Native .Hawaiian and Other Pacific Islander groups; and/or Some .Other

aska Native; Asian groups; and/or .Native Hawaiian and Other Pacific Islander groups; and/or .Some

hite; and/or Asian groups; and/or .Native Hawaiian and Other Pacific Islander groups; and/or .Some

094 .Chinese; Japanese; Native Hawaiian; and/or other Asian .and/or Pacific Islander groups

095 .Chinese; and/or Asian groups; and/or Native Hawaiian and .Other Pacific Islander groups; and/or Some Other Race

096 .Filipino; and/or Asian groups; and/or Native Hawaiian and .Other Pacific Islander groups; and/or Some Other Race

097 Japanese; and/or Asian groups; and/or Native Hawaiian and .Other Pacific Islander groups; and/or Some Other Race

098 .Korean; and/or Vietnamese; and/or Other Asian; and/or Native .Hawaiian and Other Pacific Islander groups; and/or Some

099 .Native Hawaiian; and/or Pacific Islander groups; and/or Some .Other Race

100 .White; and/or Black or African American; and/or American .Indian and Alaska Native; and/or Asian groups; and/or Native .Hawaiian and Other Pacific Islander groups; and/or Some .Other Race

Framework for Sorting Through the Data Universe (version 2.0)

Additional Applications of the Framework

Opportunities for Linkage

The framework provides a mechanism for identifying variables where linkage among datasets is possible.

For example, several of the datasets include "Region" and "State" enabling linkage at those levels.

ACS provides, by far, the most geographic levels. Its granularity permits linkage to a wide range of datasets beyond those profiled herein.

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Opportunities for Linkage: Example

Geographic Levels by Data Source

					Data Sou	rces								
Geographic Level		Microdata & Macrodata Macrodata Only												
(All are national in scope.)	ACS		ASEC	MEPS-HC	NULANIEC	NUUC	CIDD	D 4 = al: = = : al	MEDC IC					
	Microdata	Macrodata	ASEC	IVIEPS-FIC	NHANES	NHIS	SIPP	Medicaid	MEPS-IC	NHEA				
Nation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Region	✓	✓	✓	✓		✓	\checkmark			√ *				
Census Division	✓	✓	✓						✓					
State	\checkmark	✓	✓				✓	✓	\checkmark	\checkmark				
Consolidated Statistical Area			✓											
Core Based Statistical Area			✓											
County		✓	✓											
Metropolitan Status		✓	✓											
Principal City		✓	✓											
Public Use Microdata Area	✓	✓												
Additional 160 Levels		✓												

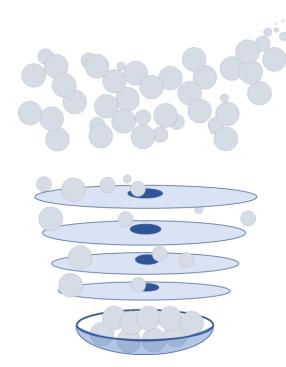
^{*} NHEA uses different "region" categories than the other datasets and is therefore not linkable on that variable.

Note: Linkage at the person level is typically not possible with public use files due to confidentiality. However, for certain datasets and subject to approval, person-linkable versions are available onsite at designated research data centers.

Summary

In Conclusion, We Have:

- Developed a framework for selecting among 1000's of datasets based on
 - Eight data dimensions
 - Four user considerations
- Created detailed standardization and mapping of variables across datasets
- Applied this framework and mapping to identify nine datasets most apt for evaluation of the impact of national healthcare policy on the U.S. population.









About

Stern Consulting

Stern Consulting LLC provides specialty analytic and consulting services to healthcare leaders, hospital systems, healthcare companies, and investors. For more information, see www.sternconsulting.com.



Brian Williams oversees Stern Consulting's healthcare database and analysis functions. He has over 30 years of experience in healthcare decision support. Mr. Williams earned an MBA with concentration in healthcare management from Boston University and a BA in political science from Holy Cross College. bwilliams@sternconsulting.com



David M. C. Stern is the founder and president of Stern Consulting. He has advised some of the pre-eminent organizations in the healthcare industry. He earned an MBA from the Yale School of Management and a BA in economics from Yale College.

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AcademyHealth

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The current slides were prepared for presentation at AcademyHealth's 2021 Health Datapalooza and National Health Policy Conference.

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