Health, United States

Redesign Update

Speakers
Irma Arispe, PhD
Renee Gindi, PhD
Florence Lee, MPH

BSC Meeting
January 27, 2021
Zoom

Health, United States

Legislatively mandated annual report on health to the President and Congress

- Covers four subject areas using 20+ government, private, and global sources
  - Health status and determinants
  - Health care utilization
  - Health care resources
  - Health care expenditures and payers
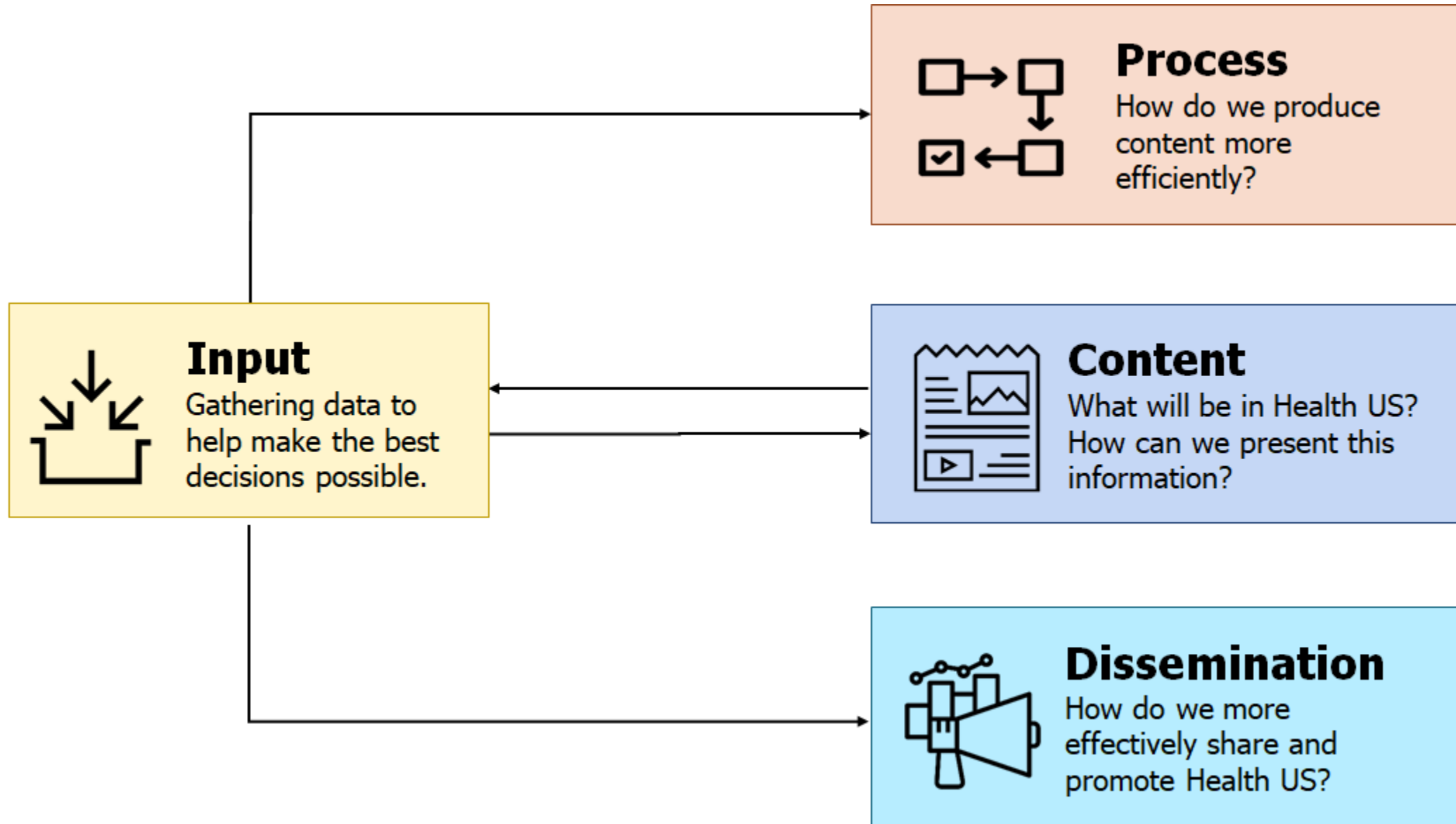
Health, United States Redesign Goals

Goals

- Increase timeliness
- Increase relevance to key stakeholders
- Increase audience awareness and use

Design questions

- What formats should be used to share information?
- What does a web-first product look like?
- How do we modernize data access?

Process
How do we produce content more efficiently?

Input
Gathering data to help make the best decisions possible.

Content
What will be in Health US? How can we present this information?

Dissemination
How do we more effectively share and promote Health US?

Input
Gathering data to help make the best decisions possible.

May 2019–May 2020

Stakeholder interviews

Web user survey

Literature review

Market analysis

Web analytics

Audience research
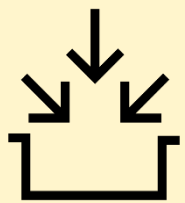
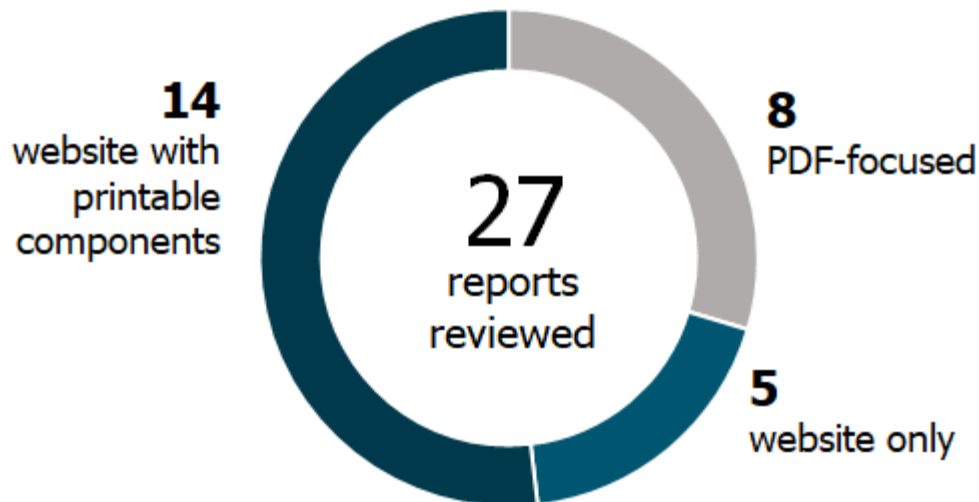# What format should be used to share information?

Over half of the products with a report component were **optimized for online display**. Many of these still had PDF components.

14 website with printable components

27 reports reviewed

8 PDF-focused

5 website only

AUDIENCE

For researchers:
- **PDF is good for in-depth reading** and can be saved later as a lasting resource.
- **HTML is good for immediate discovery** of content (search) and linking to additional information.

—Aalbersberg (2013)

INTERVIEW

"**Get away from the PDF format** because it's not searchable and won't be retrieved in Google searches."

Design solution

Focus on building an online product

Print and PDF users move through content by section

8

Current organization of website reflects print and PDF philosophy

What does a web-first product look like?

INTERVIEW

Interested in a **"table of contents" of health data by topic**, from which a user can click into topics in any of the health reports, and information would be indexed in a way that one could look at the topic and go straight to the data rather than wading through the PDF reports.

AUDIENCE

"Researchers do not frequently use author names; rather, **keyword searching**, followed by detailed browsing through very long results lists, are more frequent strategies [....] Other social scientists search by **short keyword queries or social construct**."

—Gregory (2019)

INTERVIEW

Source content was **organized by topic** based on their own market analysis. They suggested we do the same.

INTERVIEW

Public Affairs Office **directs reporters to our Data Finder** to look at the dropdown menu. They also expressed a desire for a more topic-driven dissemination approach.

Design solution

Organize more by topic, less by report section

Health, United States

Health, United States is an annual report on trends in health statistics.

Health, United States, 2018

Health, United States, 2018 [PDF – 10 MB]

- At-a-Glance Table
- Highlights
- Chartbook
- Trend Tables
- Appendixes

Spotlight Infographic

Spotlight on Racial and Ethnic Disparities in Heart Disease (Posted 4/23/19)

- Heart disease deaths
- Heart disease prevalence
- Heart disease risk factors

Click for more infographics

Data Finder

The Data Finder gives you *Health, United States, 2018* trend tables and figures on a subject and/or population subgroup of interest.

Find data on a subject:

All subjects

Find data on a population subgroup:

All population subgroups

Reset   Search

Popular Searches

- Leading causes of death
- Life expectancy
- Drug overdose deaths
- Death rates for selected causes of death
- Use of selected substances in the past month
- National health expenditures
- Health conditions among children
- Selected notifiable disease rates
- Obesity

Previous Reports

- Health, United States, 2017 with Special Feature on Mortality
- Health, United States, 2016 with Chartbook on Long-Term Trends in Health
- Health, United States, 2015 with Special Feature On Racial and Ethnic Disparities
- Health, United States, 2014 with Special Feature on Adults Aged 55–64
- Health, United States, 2013 with Special Feature on Prescription Drugs

Click for more reports

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Email Address

What's this?   Submit

Filter Data By

Reset to default order   Clear data filters

Table / Figure:
All Tables / Figures ▼

Subjects:
All subjects ▼

Population Subgroups:
All population subgroups ▼

Table / Figure	Title	PDF	Excel	PPT	Subjects	Population Subgroups
Table 001	Resident population, by age, sex, race, and Hispanic origin: United States, selected years 1950–2016	[PDF – 113 KB]	[XLSX – 39.9 KB]		Population	American Indian or Alaska Native, Asian or Pacific Islander, Black or African American, Child and adolescent, Hispanic or Latino, Men, Older persons, White, Women
Table 002	Persons below poverty level, by selected characteristics, race, and Hispanic origin: United States, selected years 1973–2016	[PDF – 128 KB]	[XLSX – 26 KB]		Poverty	American Indian or Alaska Native, Asian or Pacific Islander, Black or African American, Child and adolescent, Hispanic or Latino, White
Table 003	Crude birth rates, fertility rates, and birth rates, by age, race, and Hispanic origin of mother: United States, selected years 1950–2016	[PDF – 240 KB]	[XLSX – 56.2 KB]		Births	American Indian or Alaska Native, Asian or Pacific Islander, Black or African American, Child and adolescent, Hispanic or Latino, White, Women
Table 004	Nonmarital childbearing, by detailed race and Hispanic origin of mother, and maternal age: United States, selected years 1970–2016	[PDF – 109 KB]	[XLSX – 19.7 KB]		Births	American Indian or Alaska Native, Asian or Pacific Islander, Black or African American, Child and adolescent, Hispanic or Latino, White, Women
Table 005	Low birthweight live births, by detailed race and Hispanic origin of mother: United States,	[PDF – 129 KB]	[XLSX – 22 KB]		Births, Health risk factors	American Indian or Alaska Native, Asian or Pacific Islander, Black or African

FastStats

Welcome to FastStats!

Use this index for quick and easy access to:

- Selected statistics on a variety of health topics.
- The latest data in reports, databases, and other resources.
- Additional data and tools.

A

Access to Health Care
Accidents/Unintentional Injuries
ADHD
Adolescent Health
Adult Day Services Centers
AIDS/HIV
Alcohol Use
Allergies and Hay Fever
Alzheimer's Disease
Ambulatory Care (Doctor Visits)
American Indian or Alaska Native Health
Anemia
Arthritis
Asian or Pacific Islander Health
Assault/Homicide
Asthma
Attention Deficit Hyperactivity Disorder

B

I

Immunization
Infant Health
Infant Mortality
Infectious Disease
Infertility
Influenza
Injury

K

Kidney Disease

L

Leading Causes of Death
Life Expectancy
Liver Disease/Cirrhosis
Lung Diseases Chronic Obstructive

Diabetes

Data are for the U.S.

Morbidity: Adults aged 20 and over

- Percent with diabetes (physician-diagnosed or undiagnosed): 15% (2013-2016)
- Percent with physician-diagnosed diabetes: 10.5% (2013-2016)
- Percent with undiagnosed diabetes: 4.5% (2013-2016)

Source: Health, United States, 2018, table 14 [PDF – 9.8 MB]

Physician office visits

- Percent of visits to physician offices with diabetes indicated on the medical record: 11.5%

Source: National Ambulatory Medical Care Survey: 2016 National Summary Tables, table 18 [PDF – 793 KB]

Mortality

- Number of deaths: 84,946
- Deaths per 100,000 population: 26.0
- Cause of death rank: 7

Source: National Vital Statistics System – Mortality Data (2018) via CDC WONDER

More data

- Early Release of Selected Estimates from the National Health Interview Survey
- Tables of Summary Health Statistics from the National Health Interview Survey
- Trends in Diabetes from Health, United States
- Strategies Used by Adults with Diagnosed Diabetes to Reduce Their Prescription Drug Costs, 2017–2018

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Views to topic-based Data Finder outpaced PDF downloads starting with release of Health US 2018.

14
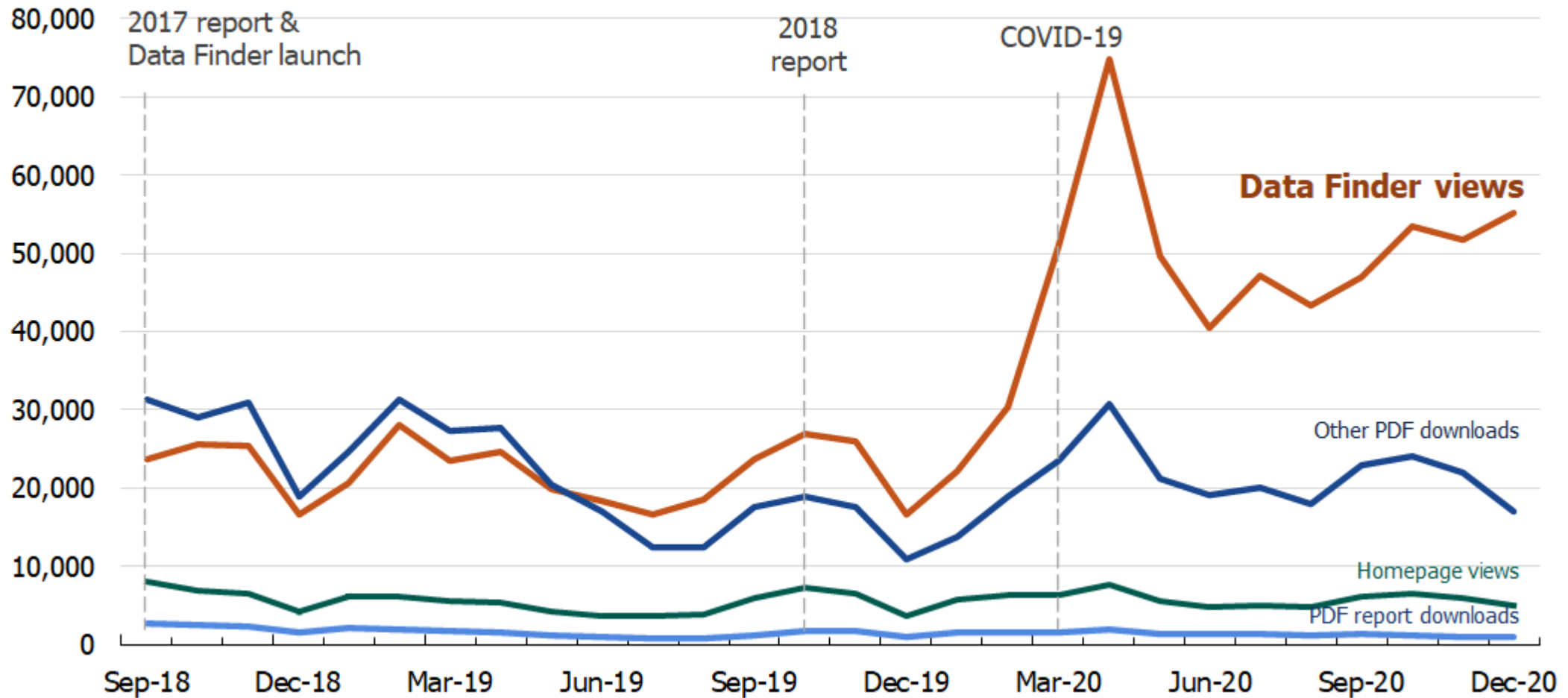
What's next?

Create a topic-based *Health, United States* website

CURRENT

Health, United States

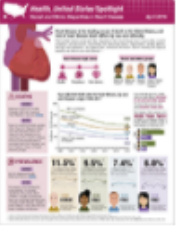*Health, United States* is an annual report on trends in health statistics.

Health, United States, 2018

Health, United States, 2018 📄
[PDF - 10 MB]

- At-a-Glance Table
- Highlights 📄
- Chartbook 📄
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- Health, United States, 2013 with Special Feature on Prescription Drugs 📄

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REDESIGNED

Health, United States
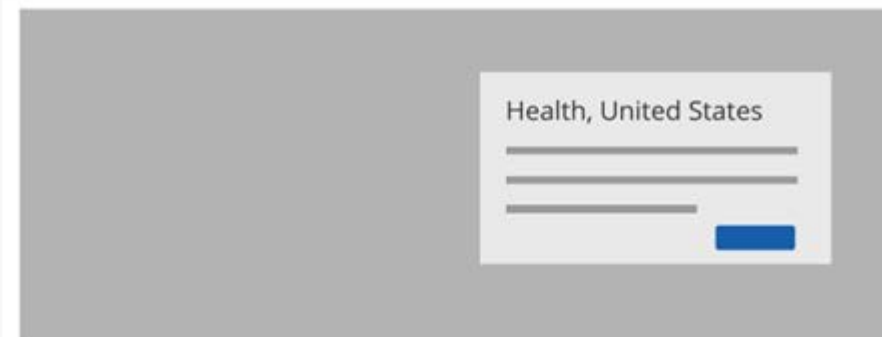
Executive Summary   Topics ▼   Data Sources & Definitions   About ▼
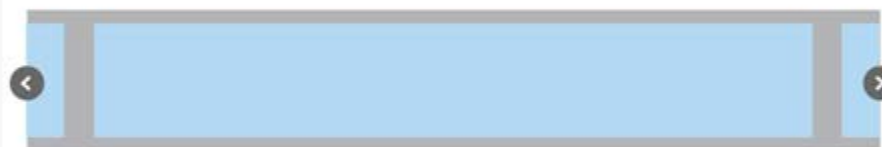
1 Enter a topic

▼

2 Explore by topic cards

| Life expectancy | Births | Deaths | Diseases and conditions |

| Preventive care | Health care utilization | Health care resources | Health expenditures |

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How do we modernize data access?

INTERVIEW

Stakeholders mentioned a preference for creating custom views of the data.

"Website-driven and **interactive**"

"Things that are maximally flexible. **Picking variables** in interactive Excel spreadsheets with details is really useful."

"Interactivity to create **user-defined tables**, very simple in technical terminology."

MARKET

~45% of the data products reviewed gave users the ability to **find or explore** the data dynamically.

12 other formats

18 reports

3 multiple formats (customizable)

62 total products reviewed

5 visualizations (not customizable)

17 data portals

7 visualizations (customizable)
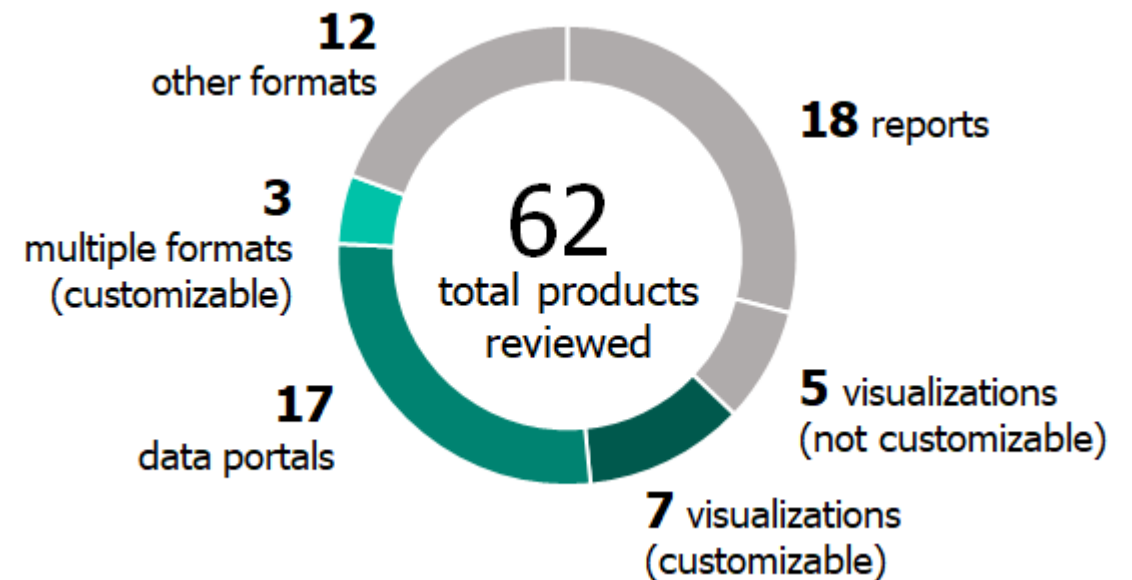
Design solution

Add interactivity for customized exploration

MARKET

AHRQ MEPS Summary Tables

Use, expenditures, and population

These MEPS summary tables provide statistics on health care utilization and expenditures. Types of data available include number of people, percentage of people with an expense, total expenditures, mean and median expenditures per person, total number of health care events, mean number of events per person, and mean spending per event. Data can be grouped by event type (such as prescription medicines or dental visits), by source of payment (such as Medicare or Medicaid), or by demographic characteristics (such as age, race, or sex).
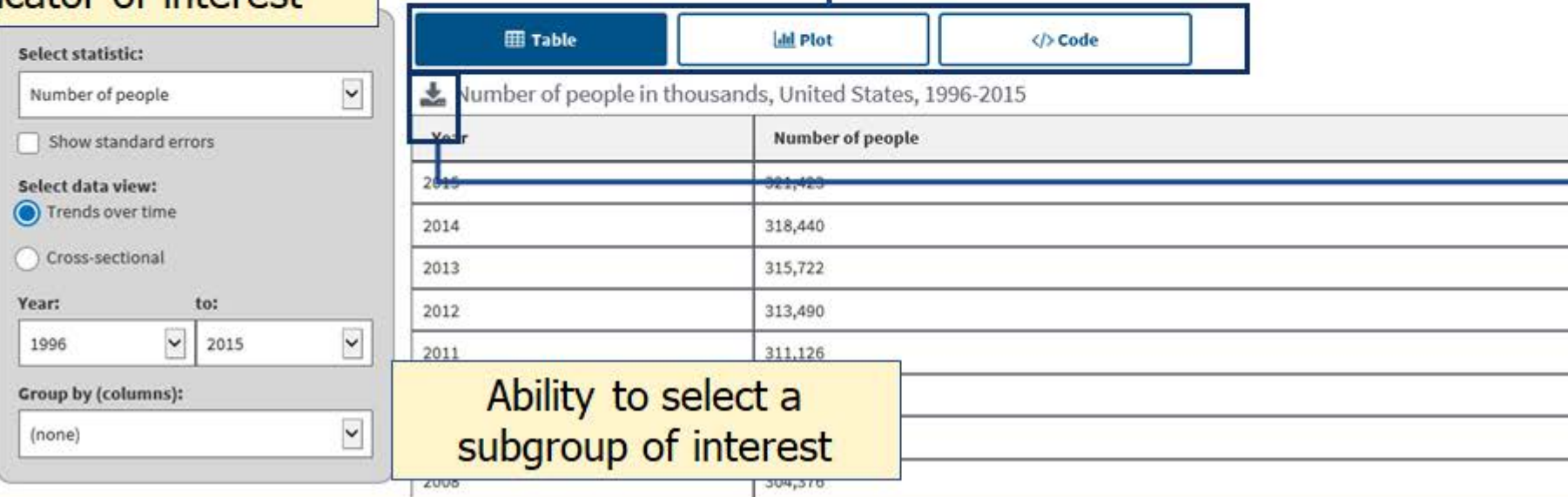
Use the options below to select a statistic of interest, the data view ("Trends over time" or "Cross-sectional"), data years, and grouping variables. If you select "Trends over time", you can choose a range of years. The "Cross-sectional" view displays a single year, which can be stratified by up to two grouping variables. Once a grouping variable is selected, a dropdown menu will appear, enabling selection of specific levels in each group.

After you select the available options, the table will automatically be updated. The data can be viewed as a plot under the "Plot" tab, with line graphs for trends over time and grouped bar graphs for the cross-sectional view. The "Code" tab displays R and SAS code needed to replicate the data shown in the table. The generated table, plot, and codes can be downloaded with the download button under 95% confidence intervals in the plot, select the "Show standard errors" checkbox.

Ability to view as data table or as a chart

Ability to select an indicator of interest

⊞ Table	ⅼⅼⅼ Plot	</> Code

⬇ Number of people in thousands, United States, 1996-2015

Select statistic:

Number of people ▾

☐ Show standard errors

Select data view:
◉ Trends over time
◯ Cross-sectional

Year: to:
1996 ▾   2015 ▾

Group by (columns):
(none) ▾

Year	Number of people
2015	321,425
2014	318,440
2013	315,722
2012	313,490
2011	311,126
2008	304,376

Ability to download underlying data

Ability to select a subgroup of interest

19

What's next?

Transform trend tables into machine-readable datasets

Table 33. Use of mammography among women aged 40 and over, by selected characteristics: United States, selected years 1987–2015

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2018.htm#Table_033.

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

Characteristic	1987	1993	1994	2000	2005	2008	2010	2013	2015
	Percent of women having a mammogram within the past 2 years[1]								
40 years and over, age-adjusted[2,3]	29.0	59.7	61.0	70.4	66.6	67.1	66.5	65.7	64.0
40 years and over, crude[2]	28.7	59.7	60.9	70.4	66.8	67.6	67.1	66.8	65.3
50 years and over, age-adjusted[2,3]	27.3	59.7	60.9	73.7	68.2	70.3	68.8	69.1	67.2
50 years and over, crude[2]	27.4	59.7	60.6	73.6	68.4	70.5	69.2	69.5	67.8
Age									
40–49 years	31.9	59.9	61.3	64.3	63.5	61.5	62.3	59.6	58.3
50–64 years	31.7	65.1	66.5	78.7	71.8	74.2	72.6	71.4	71.3
65 years and over	22.8	54.2	55.0	67.9	63.8	65.5	64.4	66.9	63.3
65–74 years	26.6	64.2	63.0	74.0	72.5	72.6	71.9	75.3	72.2
75 years and over	17.3	41.0	44.6	61.3	54.7	57.9	55.7	56.5	51.5
Race[4]									
40 years and over, crude:									
White only	29.6	60.0	60.6	71.4	67.4	67.9	67.4	66.8	65.3
Black or African American only	24.0	59.1	64.3	67.8	64.9	68.0	67.9	67.1	69.8
American Indian or Alaska Native only	*	49.8	65.8	47.4	72.8	62.7	71.2	62.6	51.5
Asian only	*	55.1	55.8	53.5	54.6	66.1	62.4	66.6	59.7
Native Hawaiian or Other Pacific Islander only	- - -	- - -	- - -	*	*	*	*	*	*
2 or more races	- - -	- - -	- - -	69.2	63.7	55.2	51.4	65.4	62.7

INDICATOR	YEAR	AGE	STUB_NAME	STUB_LABEL	UNIT	ESTIMATE	SE	FLAG	FOOTNOTE_NUM
Use of mammography	1987	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	29	0.7		1,2,3
Use of mammography	1990	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	51.7	0.6		1,2,3
Use of mammography	1991	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	54.7	0.5		1,2,3
Use of mammography	1993	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	59.7	0.7		1,2,3
Use of mammography	1994	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	61	0.7		1,2,3
Use of mammography	1998	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	67	0.5		1,2,3
Use of mammography	1999	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	70.3	0.5		1,2,3
Use of mammography	2000	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	70.4	0.6		1,2,3
Use of mammography	2003	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	69.5	0.5		1,2,3
Use of mammography	2005	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	66.6	0.6		1,2,3
Use of mammography	2008	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	67.1	0.7		1,2,3
Use of mammography	2010	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	66.5	0.6		1,2,3
Use of mammography	2013	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	65.7	0.6		1,2,3
Use of mammography	2015	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	64	0.6		1,2,3
Use of mammography	1987	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	28.7	0.7		1,2
Use of mammography	1990	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	51.4	0.6		1,2
Use of mammography	1991	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	54.6	0.5		1,2
Use of mammography	1993	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	59.7	0.7		1,2
Use of mammography	1994	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	60.9	0.7		1,2
Use of mammography	1998	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	66.9	0.5		1,2
Use of mammography	1999	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	70.3	0.5		1,2
Use of mammography	2000	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	70.4	0.6		1,2
Use of mammography	2003	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	69.7	0.5		1,2
Use of mammography	2005	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	66.8	0.6		1,2
Use of mammography	2008	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	67.6	0.7		1,2
Use of mammography	2010	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	67.1	0.6		1,2
Use of mammography	2013	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	66.8	0.6		1,2
Use of mammography	2015	40 years and over	Total (40 years and over)	40 years and over	Percent of women having a m	65.3	0.6		1,2
Use of mammography	1987	50 years and over	Total (50 years and over)	50 years and over	Percent of women having a m	27.3	0.7		1,2,3
Use of mammography	1990	50 years and over	Total (50 years and over)	50 years and over	Percent of women having a m	49.8	0.7		1,2,3

Make data available via **interactive tool** on the NCHS website

Group

Race ▽

Age adjusted or crude ⌄
◉ Crude

Subgroup
■ Select all
■ White only
■ Black or African American only
■ American Indian or Alaska Native only
■ Asian only
■ Native Hawaiian or Other Pacific Islander only
■ 2 or more races

Group names ●White only ●Black or African American only ●American Indian or Alaska Native only ●Asian only ●2 or more races

Percent with mammogram in past 2 years (y-axis: 0 to 100; x-axis: 1985 to 2015)
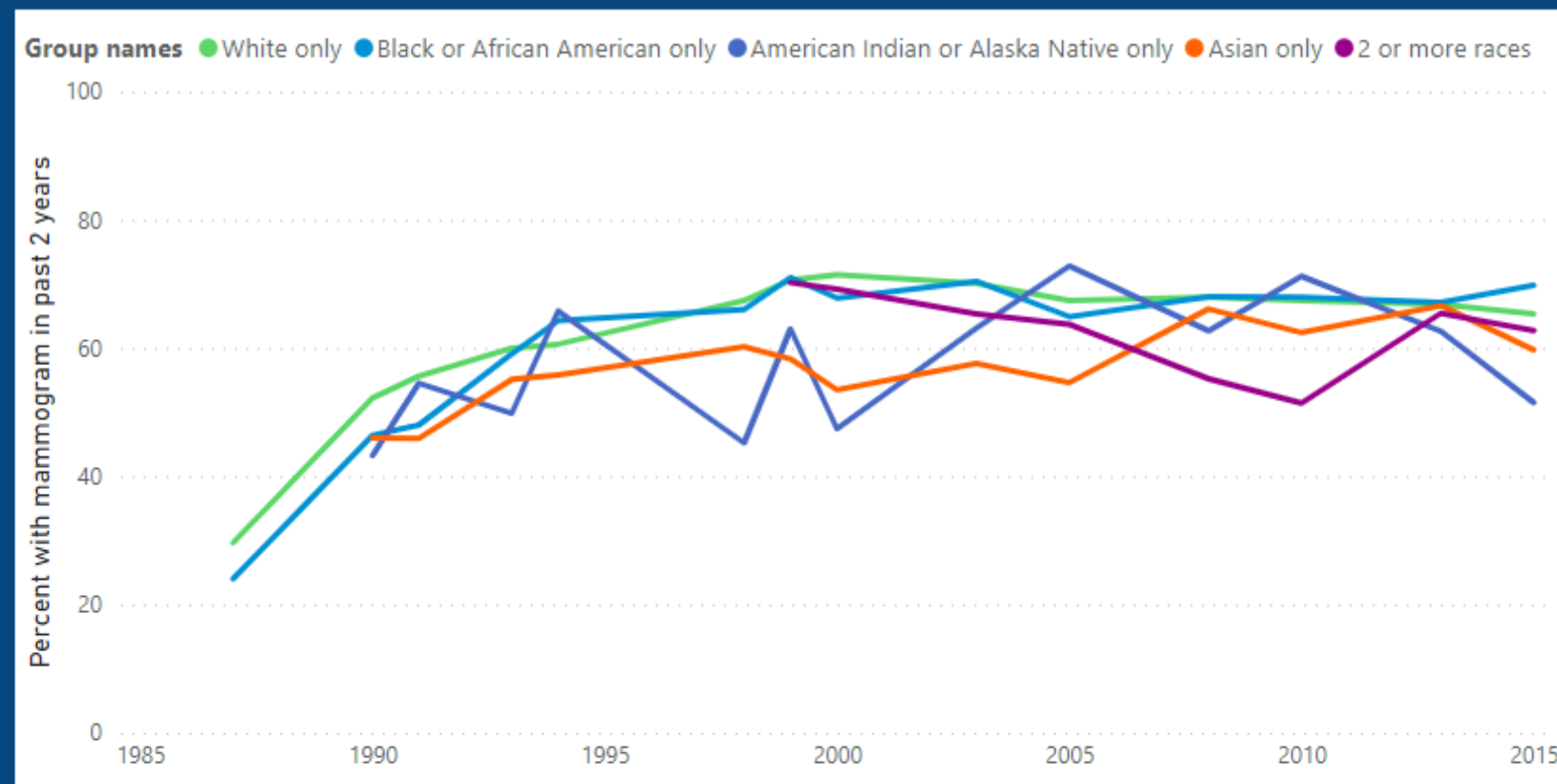
Notes

Questions concerning use of mammography differed slightly on the National Health Interview Survey across survey years. See Appendix II, Mammography. Data prior to 1997 are not strictly comparable with data for later years due to the 1997 questionnaire redesign. See Appendix I, National Health Interview Survey (NHIS).

The race groups white, black, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, and 2 or more races include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Starting with 1999 data, race-specific estimates are tabulated according to the 1997 Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The five single-race categories and multiple-race categories shown in the table conform to the 1997 Standards. Starting with 1999 data, race-specific estimates are for persons who reported only one racial group; the category 2 or more races includes persons who reported more than one racial group. Prior to 1999, data were tabulated according to the 1977 Standards with four racial groups, and the Asian only category included Native Hawaiian or Other Pacific Islander. Estimates for single-race categories prior to 1999 included persons who reported one race, or if they reported more than one race, identified one race as best representing their race. Starting with 2003 data, race responses of other race and unspecified multiple race were treated as missing, and then race was imputed if these were the only race responses. Almost all persons with a race response of other race were of Hispanic origin. See Appendix II, Hispanic origin; Race.

Make data available on open data platforms (**data.cdc.gov**)

🔒 Use of mammography among women aged 40 and over, by selected characteristics NCHS

| View Data | Visualize ∨ | Export | API | ⋯ |

Updated
December 21, 2020

| Data Last Updated | Metadata Last Updated |
| December 21, 2020 | December 21, 2020 |

Date Created
November 23, 2020

| Views | Downloads |
| **36** | **0** |

| Data Provided by | Dataset |
| National Center for Health Statistics | Owner NCHS |

| Contact Dataset Owner |

Common Core

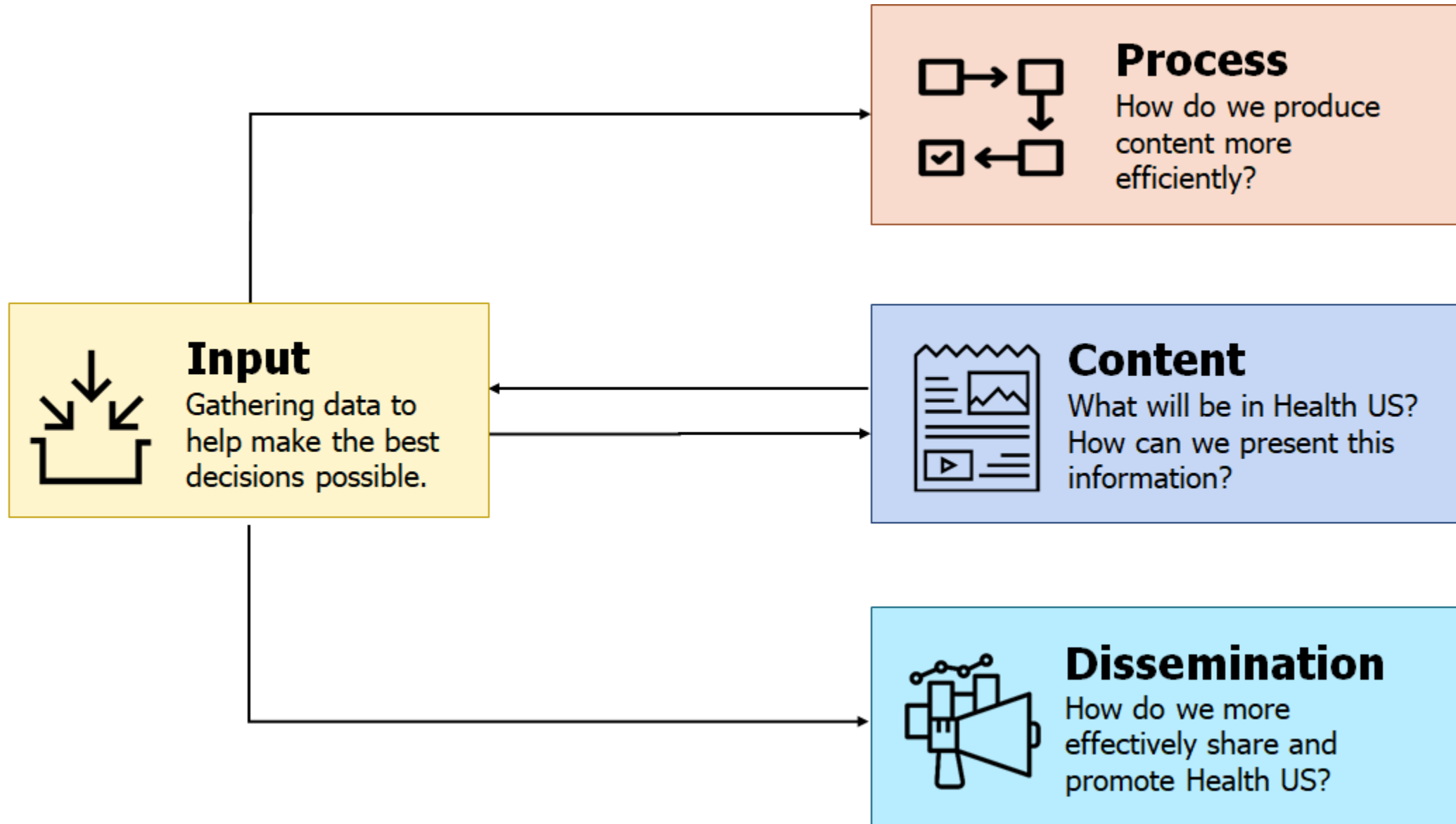| Publisher | National Center for Health Statistics |
Contact Name	National Center for Health Statistics
Contact Email	cdcinfo@cdc.gov
Footnotes	Data are based on household interviews of a sample of the civilian noninstitutionalized population
Bureau Code	009:00
Program Code	009:020

Data Quality

| Geographic Coverage | United States |
| Update Frequency | Annually |

Attachments

📄 mammography-tbl-ftnts.txt

Table Preview

INDICAT... ⋮	YEAR ⋮	AGE ⋮	STUB_N...
Use of mam...	1987	40 years and ...	Total (40 ye
Use of mam...	1990	40 years and ...	Total (40 ye
Use of mam...	1991	40 years and ...	Total (40 ye
Use of mam...	1993	40 years and ...	Total (40 ye
Use of mam...	1994	40 years and ...	Total (40 ye
Use of mam...	1998	40 years and ...	Total (40 ye
Use of mam...	1999	40 years and ...	Total (40 ye
Use of mam...	2000	40 years and ...	Total (40 ye
Use of mam...	2003	40 years and ...	Total (40 ye

24

Process
How do we produce content more efficiently?

Input
Gathering data to help make the best decisions possible.

Content
What will be in Health US? How can we present this information?

Dissemination
How do we more effectively share and promote Health US?

Questions?