

A 21st-Century Census Curated Data Enterprise – ACS Role

Presenters: Stephanie Shipp, Steve Jost, John Thompson

Team:

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May 18, 2023, 10 – 11 am ET

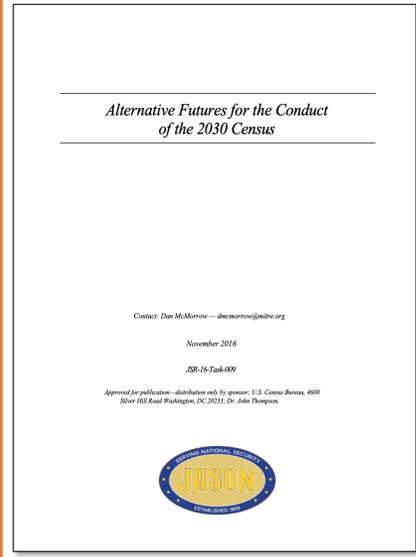
2023 ACS DATA USERS CONFERENCE

History from 2015-Present

2015-2016

John Thompson asked JASON:

Starting with a blank sheet of paper, how would you design the 2030 Census?



2017

Ken Prewitt and Sallie Keller agreed to co-lead this Census 2030 initiative.

- 5 former Census Bureau Directors, Current Census Deputy Director, (ex-officio),
- Advocates, Former federal officials, University professors,
- CNSTAT committee chair

Thinking evolved

- Initially proposed essential data only decennial
- Decennial Census and ACS are more than just apportionment and redistricting
- They provide a national public good information platform
- Proposed 21st Century Curated Data Enterprise
- Sloan Foundation and Census Bureau funding

2018-2020

Census 2030 committee concluded that:

“Decennial and ACS (should) enlighten the public about the workings of a representative democracy, the goals of a free enterprise economy, and the realization of a socially just society.”



ALFRED P. SLOAN
FOUNDATION

Present

Census Bureau Tasking

- Identify and Characterize Stakeholder Communities
- Develop Research Agenda



Introducing the Curated Data Enterprise

We are moving towards **a single enterprise, data-centric operation** that enables us to **funnel data from many sources in a single data lake** using common collection and ingestion platforms ... **This is the essence of a curated data approach — assemble, assess and fill in the gaps to create quality statistical data.**

Robert Santos, Director, U.S. Census Bureau

CURATED DATA ENTERPRISE

*The Census Bureau
of the Future*

Both an infrastructure and a continuously evolving ambition to empower and enable Bureau scientists and their data users to develop new measures of people, places, and the economy.

Exploits multiple data sources, from sample surveys, censuses, and other official administrative and third-party data, which can provide more robust, timely, and comprehensive measures when combined.



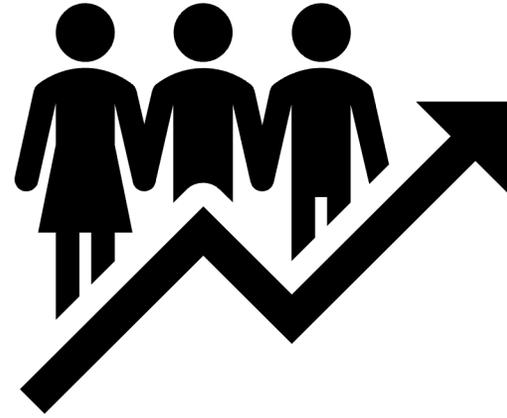
Flipping the Focus

Determine what information stakeholders need to reach their objectives

From there, shape the statistical products to be developed



Statistical
Product First
Approach



Shifting the
Paradigm

Statistical Product First Approach

Ensures Data Support Purposes and Uses

Purposes
and Uses



Disseminating
Products to
Meet Data User
Needs

What are some purposes and uses?

Disseminating products to meet data user needs



Equity and Inclusion



Counting Children



Family Units



Rural Communities



Local Businesses



Tribal Areas



Vulnerable Populations



Elderly Residential Care



The Unhoused



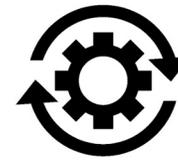
Migration



Climate Change



Gig Economy



Workforce Automation



Differential Undercount



Broadband Deployment



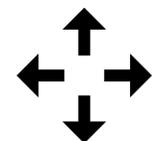
Emergency Preparedness



Economic Mobility

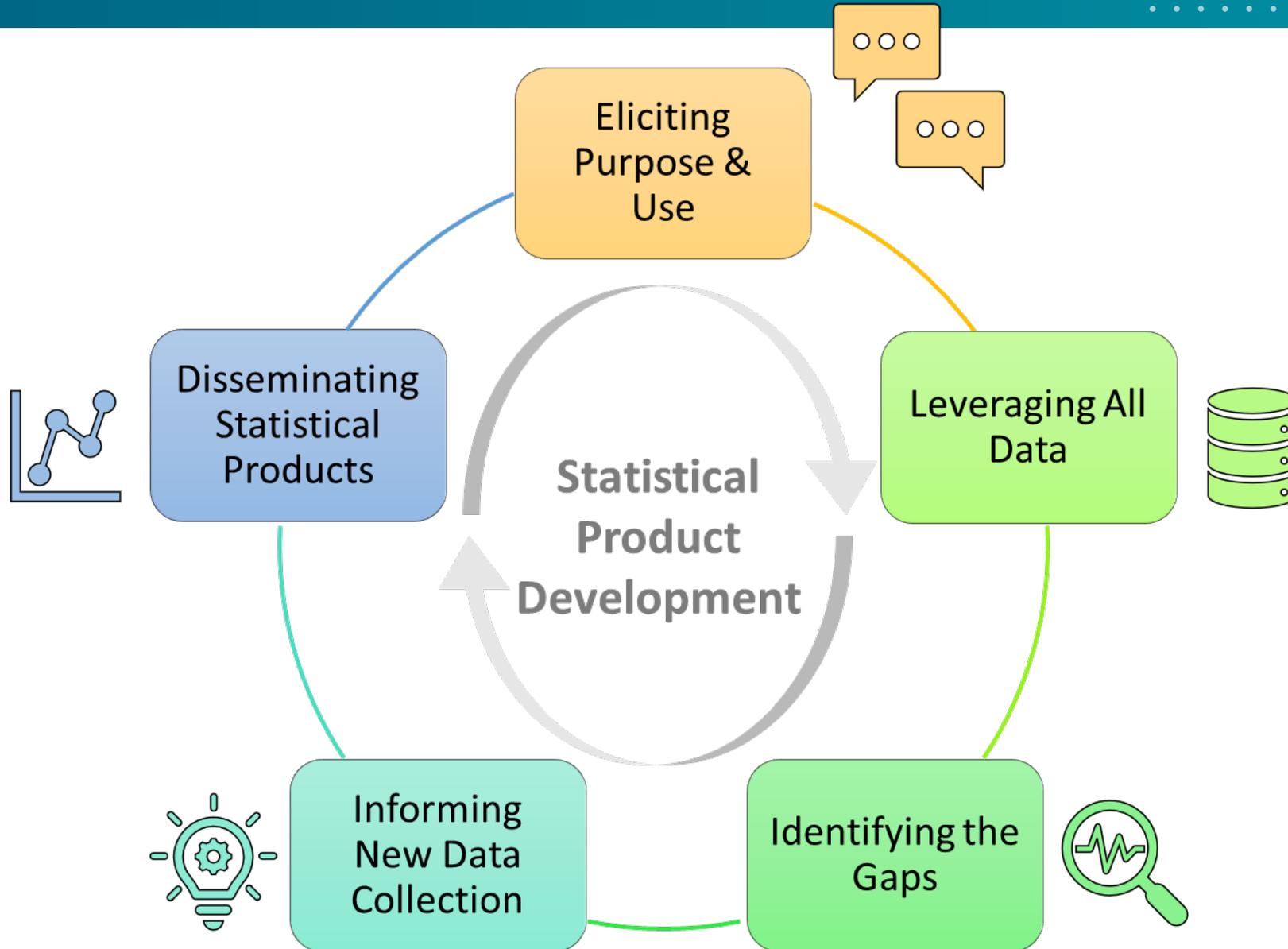


Commuting Patterns

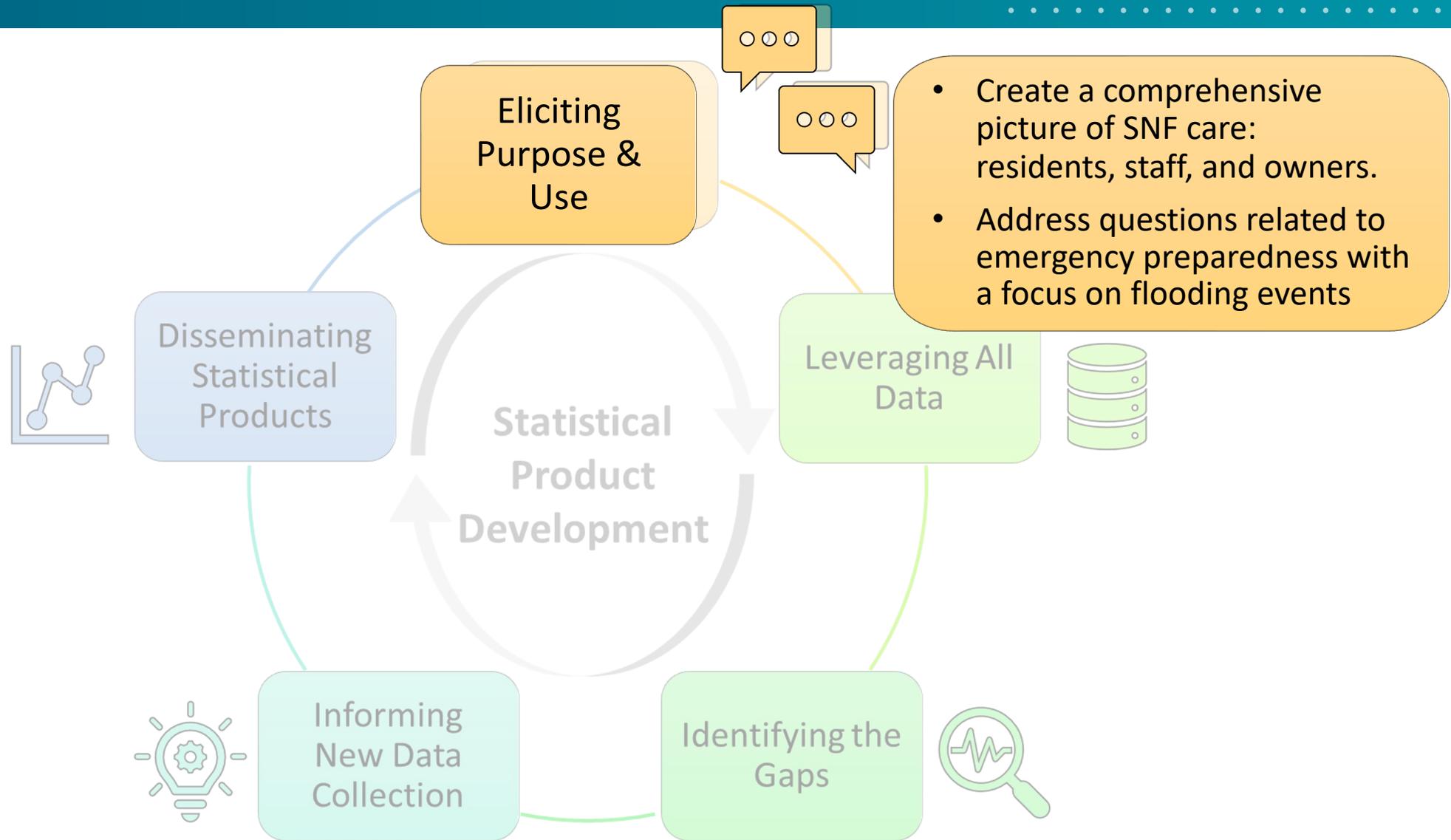


Changing Demographics

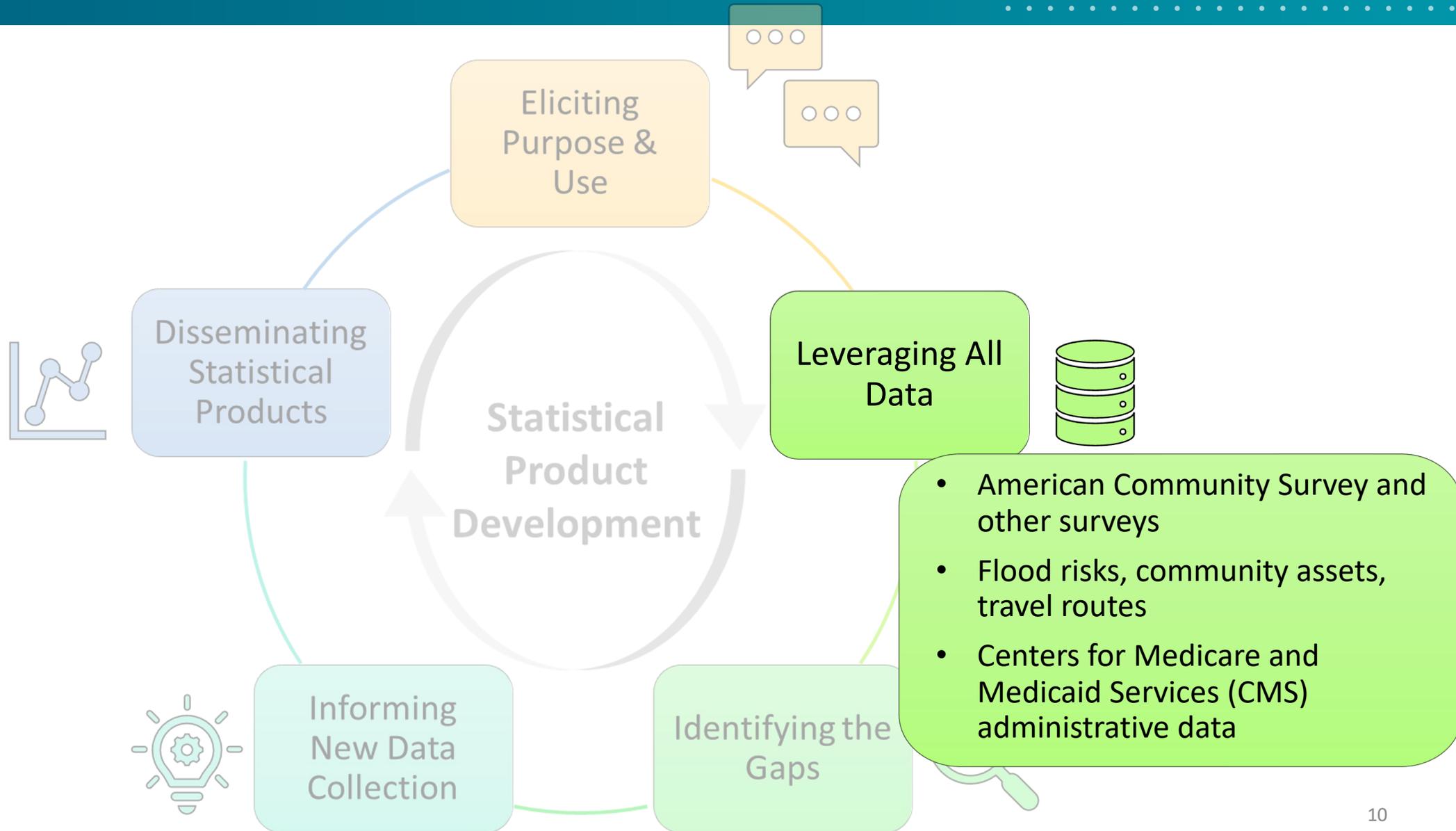
The Continuous Journey Ahead



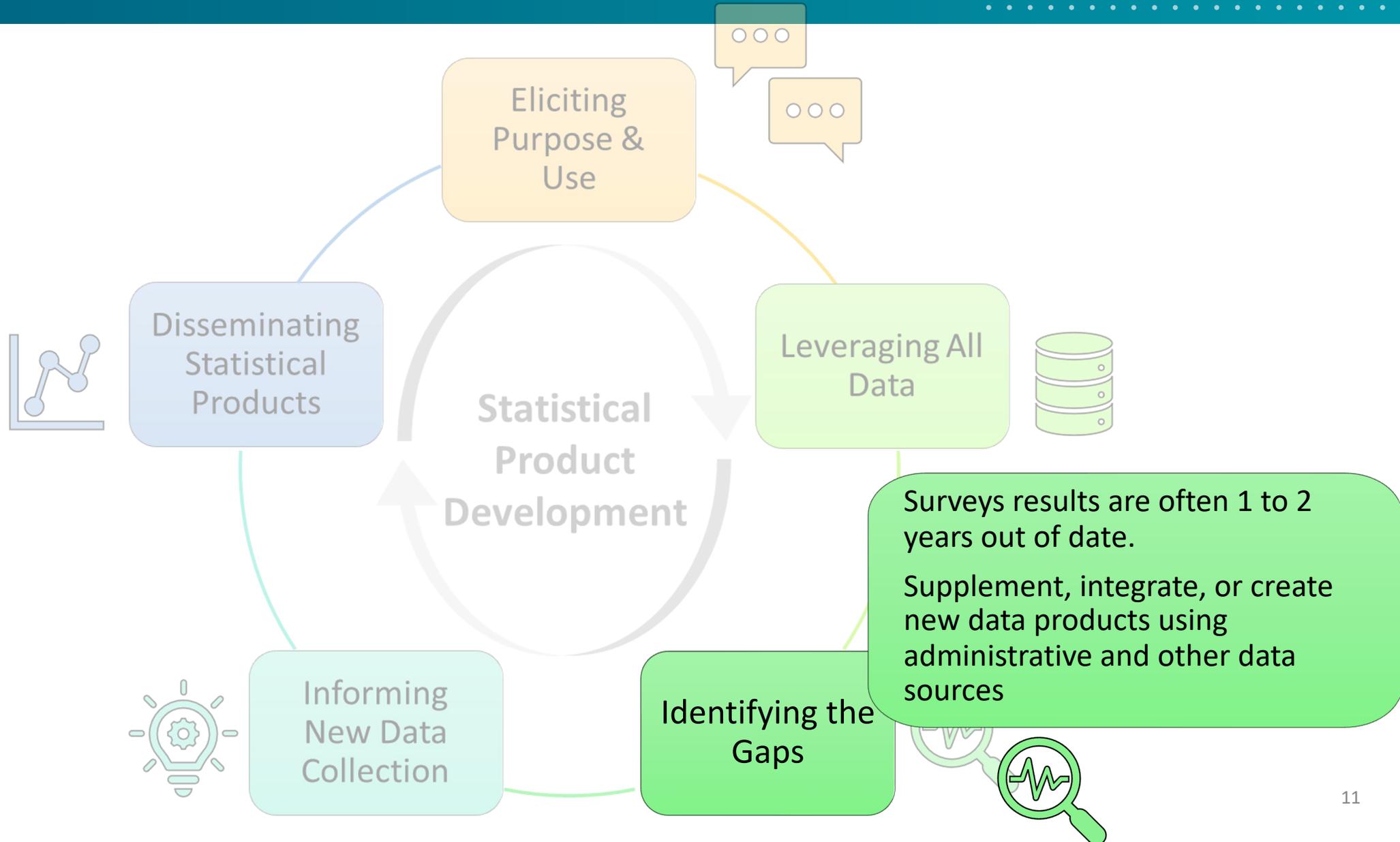
Exemplar: Skilled Nursing Facilities & Flooding Events



Exemplar: Skilled Nursing Facilities & Flooding Events



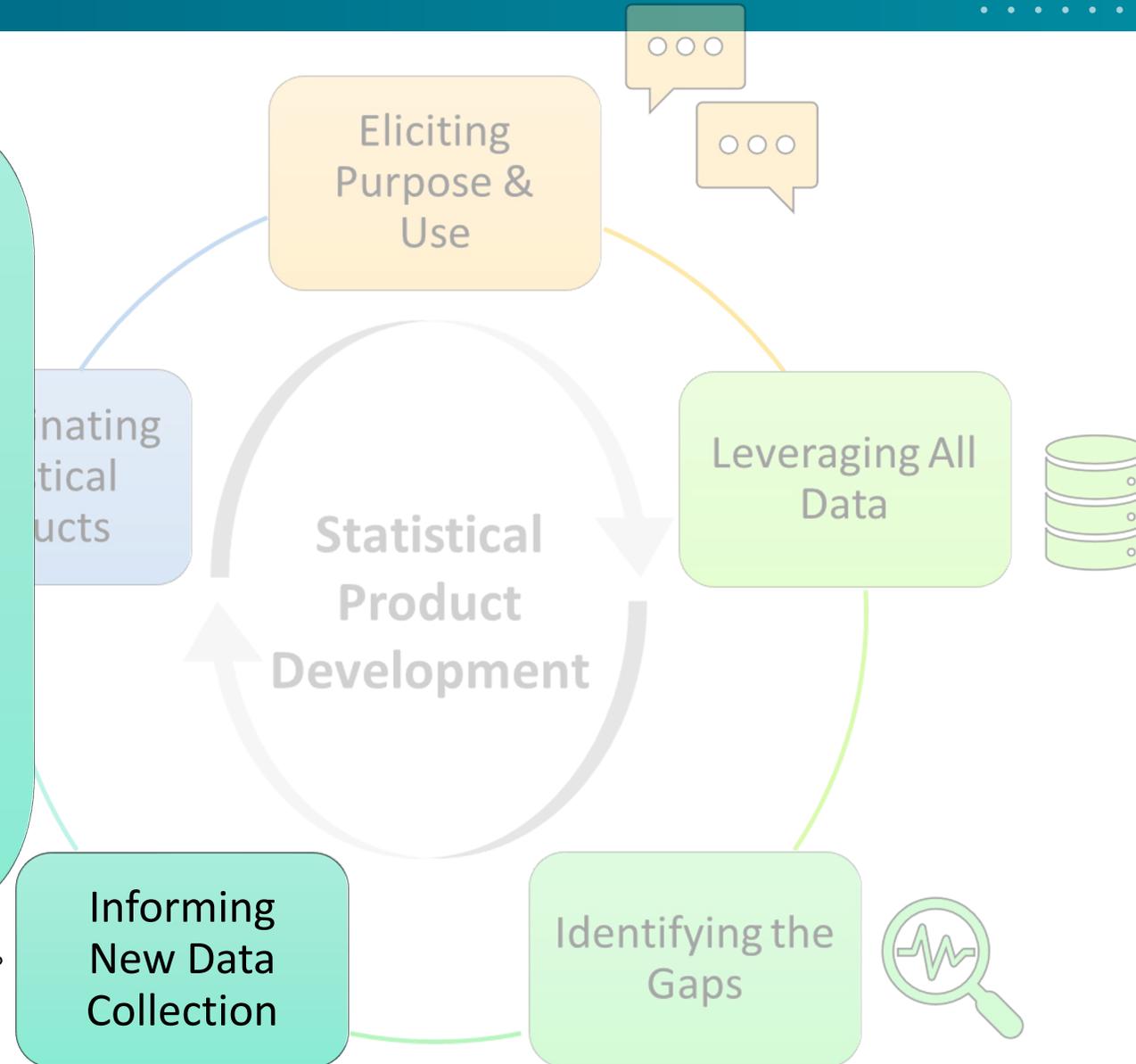
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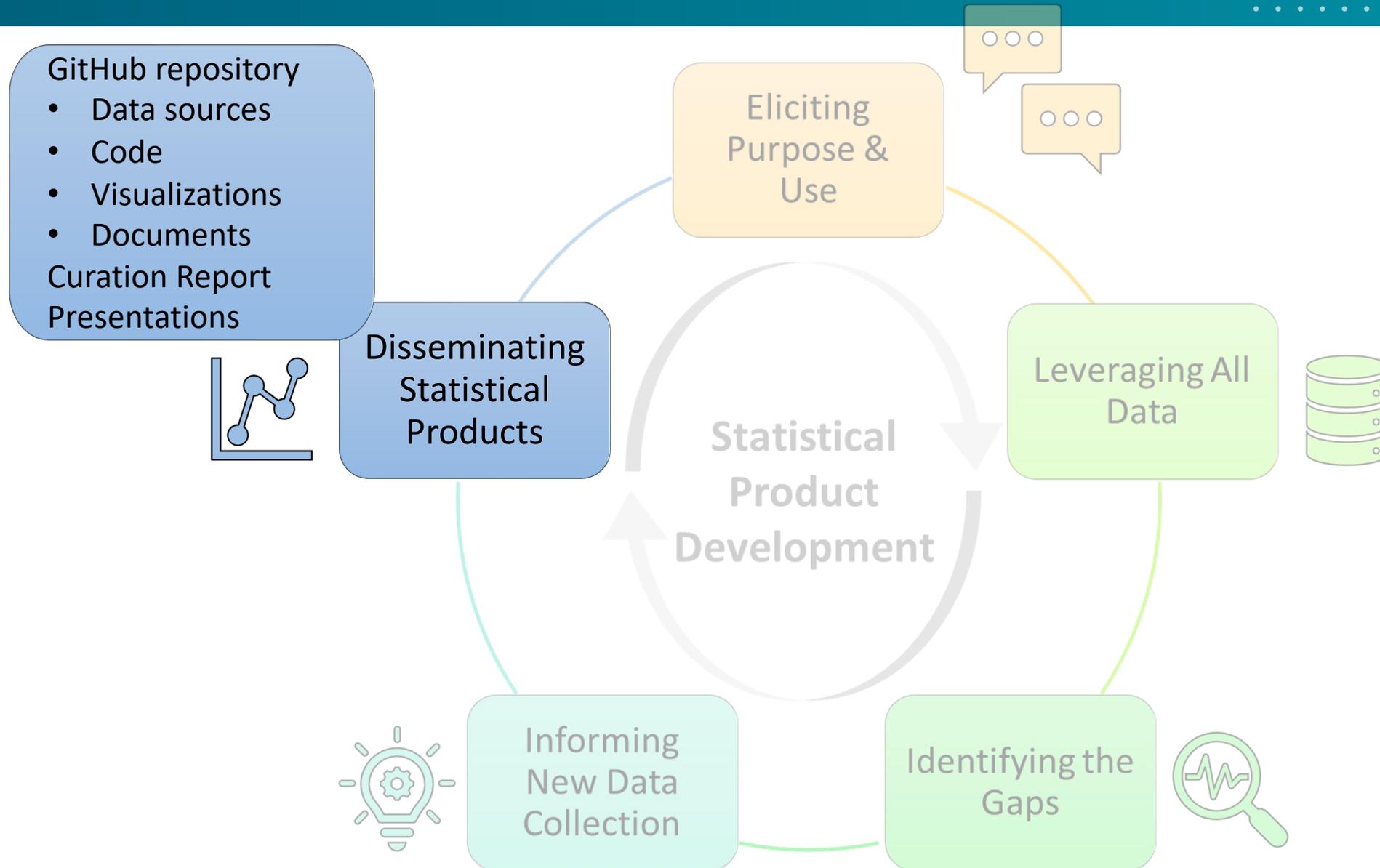
Exemplar: Skilled Nursing Facilities & Flooding Event

CDE Capabilities to Exercise

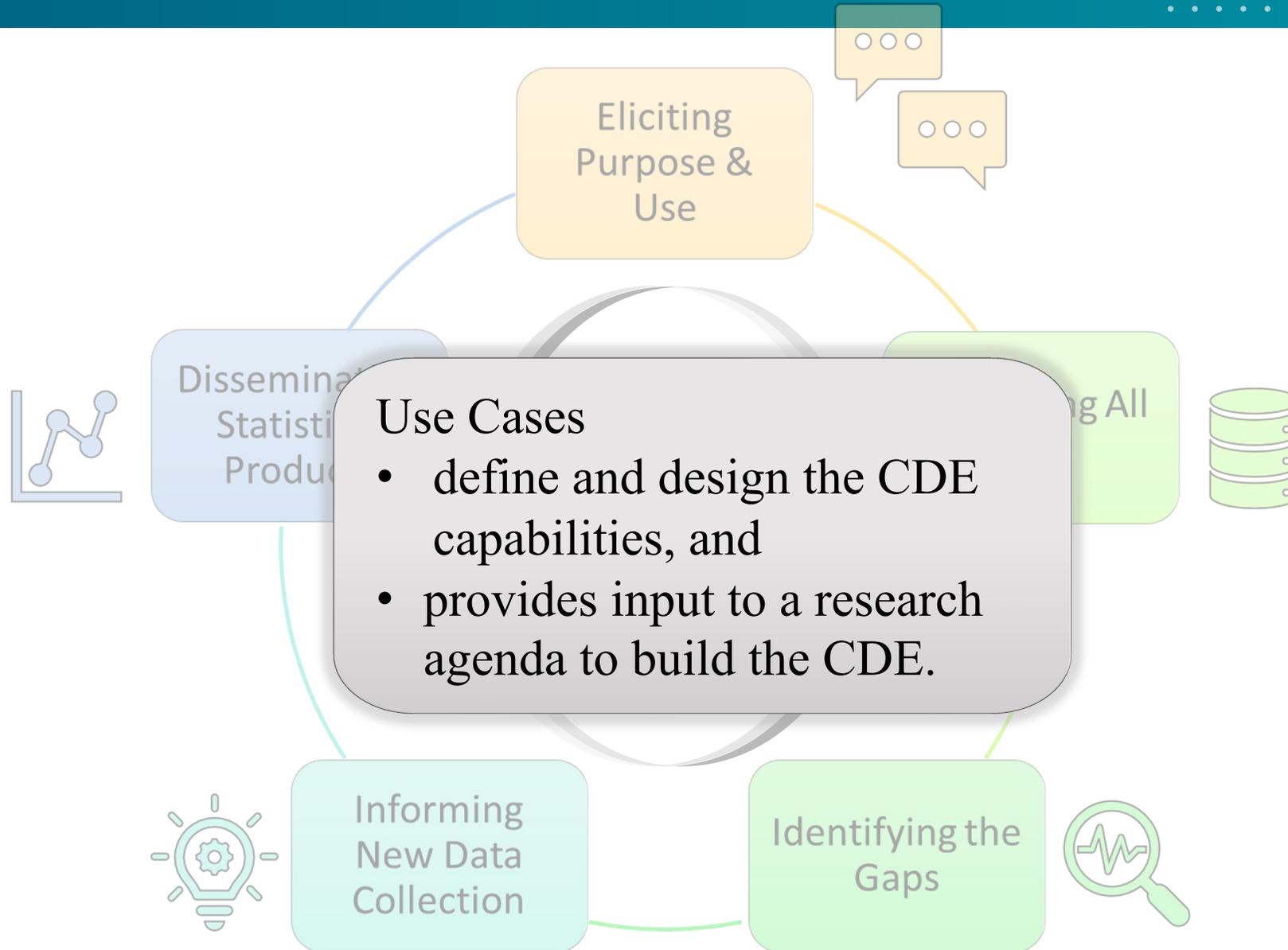
- SNF residents' characteristics (ACS)
- Created risk scores by routes to work (SNF) - LEHD
- Computed nursing home emergency preparedness - CMS
- Identified community assets and resources – Local and ACS data
- Integrated data with different units of analysis, timing, geography



Exemplar: Skilled Nursing Facilities & Flooding Event



Exemplar: Skilled Nursing Facilities & Flooding Event



Source: Lancaster V, Swarup S, Xie D, Mortveit H, Schroeder A, Keller S, Shipp S. Censur Curated Data Enterprise Use Case Demonstration: Skilled Nursing Facilities. Proceedings of the Biocomplexity Institute, Technical Report. TR# 2023-53. The University of Virginia. <https://doi.org/10.18130/ce97-sp05>

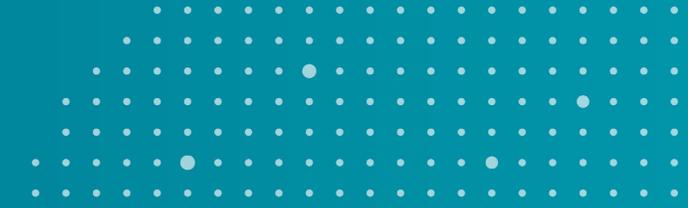
Summing it up: A Curated Data Enterprise





Imagine the Art of the Possible

We welcome your ideas!



Discussion to be led by Steve Jost

- What are **major purposes** the statistical products need to support?
- What would **add value to your** statistical products?
- What **modalities of statistical product dissemination** support data user needs?



We welcome your ideas!

Discussion to be led by John Thompson

- **How do we elicit** information about purpose and use?
- **Who should participate** in development of products?
- How do we ensure that the **solicitation and development** of statistical products **happen equitably**?



Thank you!