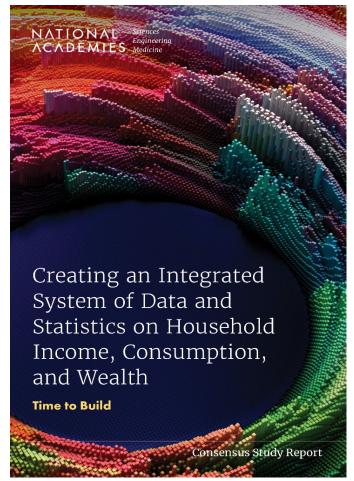
NATIONAL Sciences Engineering Medicine

Creating an Integrated System of Data and Statistics on Household Income, Consumption, and Wealth

Time to Build

Tim Smeeding and David Johnson FCSM October 23, 2024



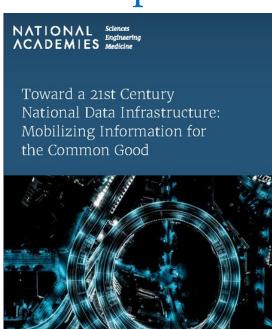


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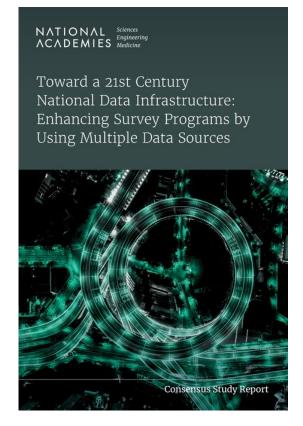
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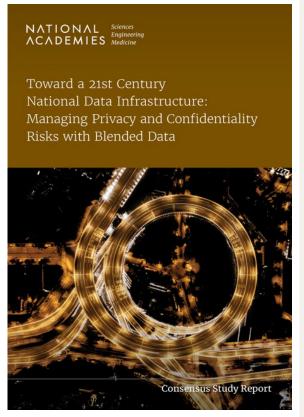


Builds upon recent 21st Century reports stressing the importance of blended data



Consensus Study Report





21st Century report conclusions

Conclusion 2-1 from 1st 21st Century Report

 The United States needs a new 21st century data infrastructure that blends data from multiple sources to improve the quality, timeliness, granularity, and usefulness of national statistics...

Conclusion 9-3 from Multisource report.

 Use of multiple data sources is expected to play a major role in the future production of statistical information in the United States, ...

Conclusion 3-2 from Privacy report

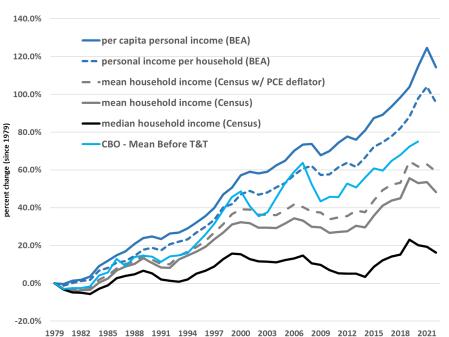
 Tiered access for data users and agencies is a key component of a dynamic disclosure risk/usefulness framework, to reflect differences in acceptable risks given policy priorities.

The Need: Integrated data and statistics on income (I), consumption (C) & wealth (W)

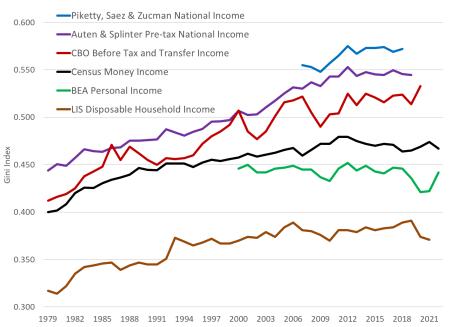
- For decades household and individual economic wellbeing has been measured annually for income (I) only—and different measures of income give different estimates of means, medians, trends and levels of inequality and poverty
- There is a need for I, C, W and changes in W (Δ W) to all be well measured from the same high-quality dataset or data construction in a transparent way
- There is a need for high-quality, consistent "official" annual statistics on I, C, W and their joint distributions, as well as access to the full range of data for research purposes
- But this is not possible with current data sources we need to build better ones

Current estimates are confusing and inconsistent

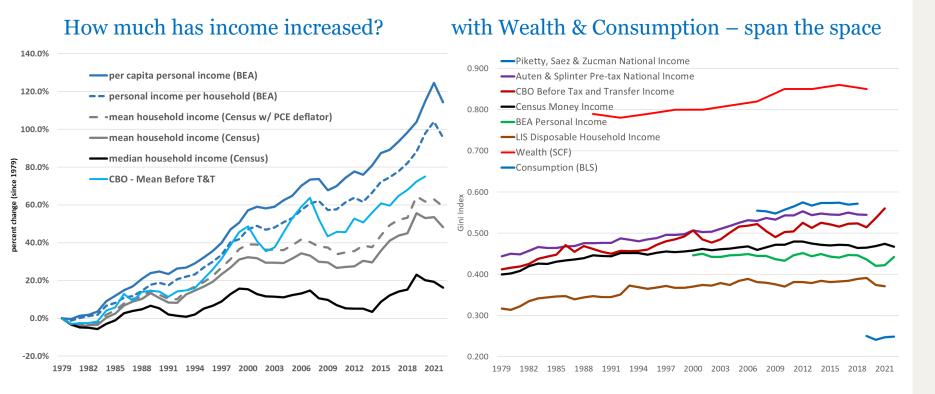




How much has income inequality increased?



Current estimates are confusing and inconsistent

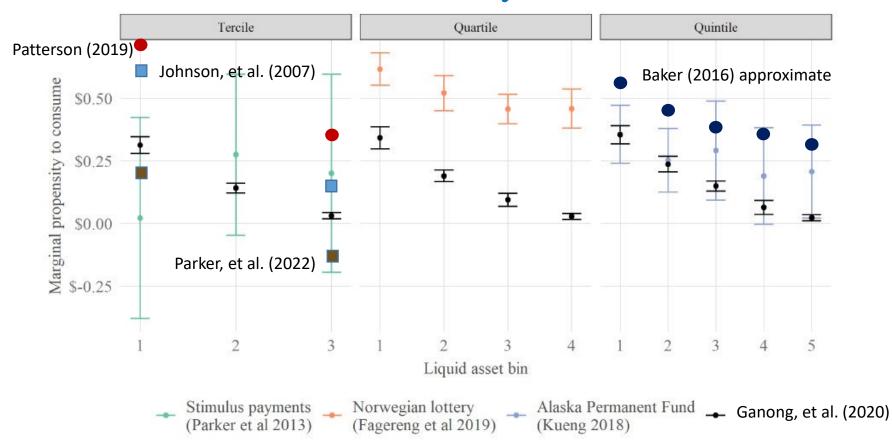




The Need: Fundamental research questions that could be informed by an integrated ICW system

- Trends and levels of inequality, poverty, and economic mobility
- Assessing financial well-being, hardship, and exposure to risk—at the business cycle frequency and over the longer-run
- **Implications of shifts** in demographics, household structure, and the economic environment for the dynamics of the economy
- Assessing the role of accumulated wealth is an important source of income and consumption insurance and an increasingly important source of intergenerational transfers
- Better understanding of consumer behavior—propensities to consume, borrow, save, take on risk
 - heterogeneity by income/wealth/access to financial opportunities/other characteristics
 - heterogeneity by type of resource shocks (permanent/transitory)

Need consistent ICW on same dataset to precisely estimate MPC by wealth



Key is for ICW measures to be consistent with budget identity and national accounts

- Conclusion 2-1: Conceptual definitions of household income, consumption, and wealth
 are most useful when they are constructed to satisfy the budget identity,
 Consumption = Income Saving... A fundamental principle in specifying an integrated
 data system is that decisions about what to count as income have direct implications for
 what to count as consumption and wealth.
- Conclusion 2-3: **Multiple definitions** of household income, consumption, and wealth are needed **to examine different policy and research**...
- Conclusion 2-4: Definitions embedded in systems of national accounts provide a wellestablished starting point for the variety of ICW concepts envisioned for the dataset recommended in this report.

Research does not use consistent measures of Income, Consumption and Wealth

TABLE 2-1A Established Definitions of Income

| Source | Dispos- able personal income (BEA) | After tax & transfer national income (PSZ) | OECD (SNA) | Can- berra dispos- able HH income | Money income (Census Bureau) | After tax & trans- fer (CBO) | AGI | SCF family income (FRB) | CE after- tax income (BLS) |
|---|--|---|---------------|--|---------------------------------------|--|-------------|----------------------------------|--|
| Employment income | + | + | + | + | + | + | + | + | + |
| Employer contribution to Social Security | a | | а | | | | | | |
| Employee contribution to Social Security | a | | а | | + | | + | + | + |
| Employer-provided pensions | + | + | + | | | | + (some) | | |
| Employer-provided health insurance | + | + | + | | | + | | | |
| Employer-provided other benefits | + | + | + | | | | | | |
| Business income (including self-employment) | + | + | + | + | + | + | + | + | + |
| Investment income ^b | + | + | + | + | + | + | + | + | + |

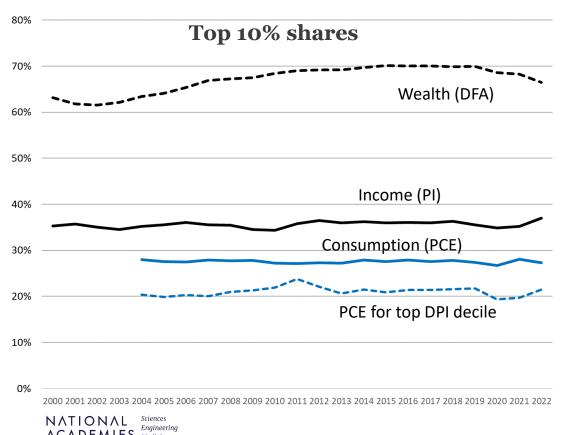
TABLE 2-1B Established Definitions of Consumption

| | Personal consumption expenditures | CE expenditures (published) | BLS/CE consumption (proposed) | Fisher et al. consumption | Meyer/Sullivan consumption | OECD consumption expenditures |
|--------------------------------------|---|-----------------------------------|-------------------------------------|------------------------------|-------------------------------|-------------------------------------|
| Durable goods | | | | | | |
| Motor vehicles and parts | | | | | | + |
| New motor vehicles | + | + | | | | + |
| Net purchases of used motor vehicles | + | + | | | | + |
| Motor vehicle parts and accessories | + | + | + | + | + | + |

The Recommendations: Improved statistics and a report from federal statistical agencies

- Conclusion 3-1: The initiatives by [the federal agencies] are laudable. These initiatives deserve support to become established series as soon as practicable.
- Recommendation 3-1: ...**statistical agencies should build on their current initiatives** to publish improved statistics of household income, consumption, and wealth.
 - BEA should make its distributional household personal income (PI) estimates more useful by adding estimates for: (1) disposable (after-tax) PI that excludes nonprofit institutions serving households; and (2) disposable PI (excluding NPISH)...
 - The Census Bureau's household income estimates should include pre- and post-tax-andtransfer series...
 - The BLS...should expand and accelerate its program to publish annual estimates of household consumption...
- Recommendation 3-2: Relevant statistical agencies should collaboratively publish a major report every three years that compares levels and trends among the household income, consumption, expenditure, and wealth statistical series...

Possible new Report: Current estimates on ICW inequality use blended data



- Federal Reserve Board estimates quarterly distributional financial accounts (DFA) for wealth (SCF uses tax data)
- BEA estimates annual distributions of personal income (PI) and disposable personal income (DPI) (uses SOI tabulations)
- BLS estimates annual distributions of Personal Consumption Expenditures (PCE)
- Joint distribution of DPI and PCE (from BEA and BLS)

Need to consider a wide variety of blended (linked) data sources operating under the oversight of a coordinating entity

- Recommendation 5-1: The Chief Statistician and the National Secure Data Service should work together to create a coordinating entity to solve administrative, legal, and technical challenges to integrate data from multiple federal entities...as well as private businesses that collect microdata on individual and household income, consumption, and wealth.
- Recommendation 5-2: ...the coordinating entity should expand on current efforts and coordinate new pilot studies to blend multiple datasets that have the key components of income, consumption, and wealth;
- Recommendation 5-4: ...the coordinating entity...should explore the fusion of relevant publicly accessible datasets

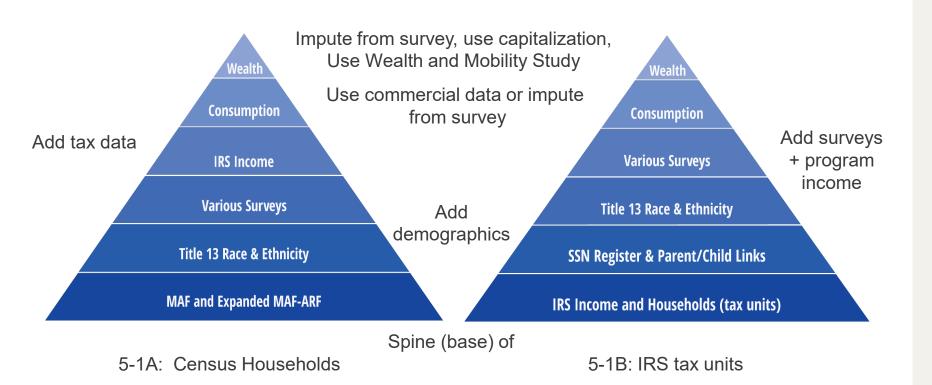


The Ideal Dataset

- The ideal data infrastructure for statistics and research on household ICW is a micro dataset with records for households with some data on the individuals living in the household. Such a dataset would allow users to precisely estimate the joint distribution of ICW for individuals aggregated to households and other units of analysis with as much geographic, race/ethnicity, and demographic detail as possible at various breakdown points in the distribution, including the very top (e.g., top 1% and top 0.1%). The ideal dataset is easily accessible, regularly updated, and comparable both over time and with other countries.
- The ideal dataset captures the desired units of observation, coverage, characteristics, consistency, frequency, timeliness, updateability, and flexibility. However, such a dataset does not exist in the United States.

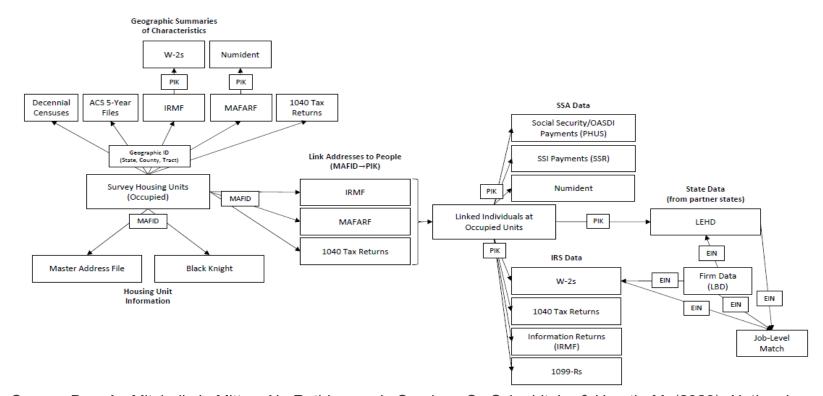
Blended data begins with a spine

ΝΛΤΙΟΝΛΙ



Census National Experimental Wellbeing Statistics blends multiple data sources to measure income

Figure 4: Linkage Diagram for Address File



Source: Bee, A., Mitchell, J., Mittag, N., Rothbaum, J., Sanders, C., Schmidt, L., & Unrath, M. (2023). *National experimental wellbeing statistics* (SEHSD Working Paper No. 2023-02). U.S. Census Bureau

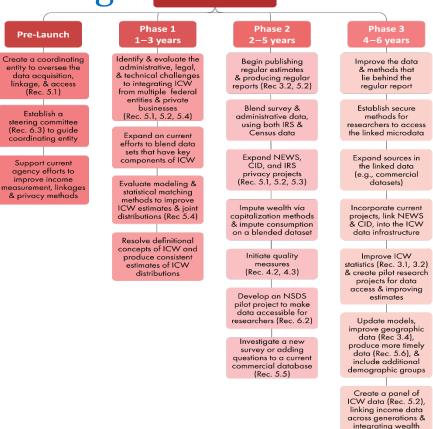
Need to ensure privacy while maintaining accessibility and usefulness

- Recommendation 6-1: ...the coordinating entity, in collaboration with relevant statistical agencies, should jointly develop a risk-utility framework and a combination of traditional disclosure limitation strategies and privacy enhancing technologies...
- Recommendation 6-2: The coordinating entity...should propose options for a
 National Secure Data Service pilot to be created through which approved
 researchers would be allowed to access linked microdata...

The Roadmap: How to make progress and a steering committee to lead change

Conclusion 6-2: The success in using multi-source data and data integration in other countries that operate with a single centralized statistical agency can provide guidance to improve the collaboration within and integration of the current U.S. statistical system.

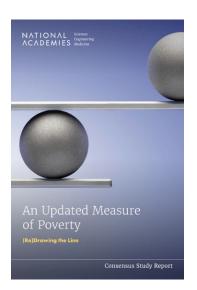
Recommendation 6-3: The OMB Chief Statistician, in collaboration with the Interagency Council on Statistical Policy, should establish an ICW technical steering committee...



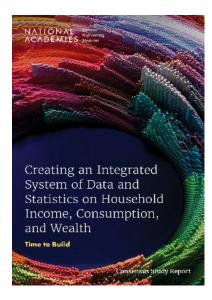
& consumption

COMMITTEE ON NATIONAL STATISTICS REPORTS ON NEW DATA INFRASTRUCTURE







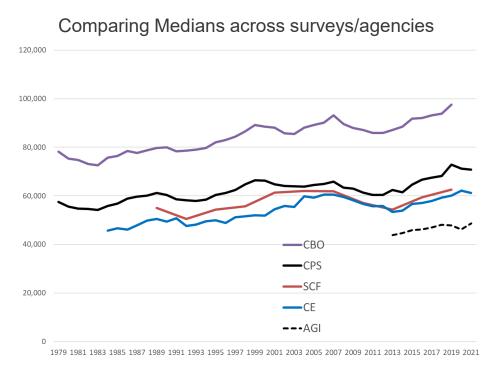




• EXTRA SLIDES



Possible new report: The joint report with consistent statistics



- Conclusion 2-3: Multiple definitions of household income, consumption, and wealth are needed...each definition requires specification of accompanying purpose(s) and a transparent guide to its construction.
- Recommendation 3-2: ...annual reports should compare their estimates to those from other agencies and, to the extent possible, identify the factors, including differences in definitions, that contribute to differences.