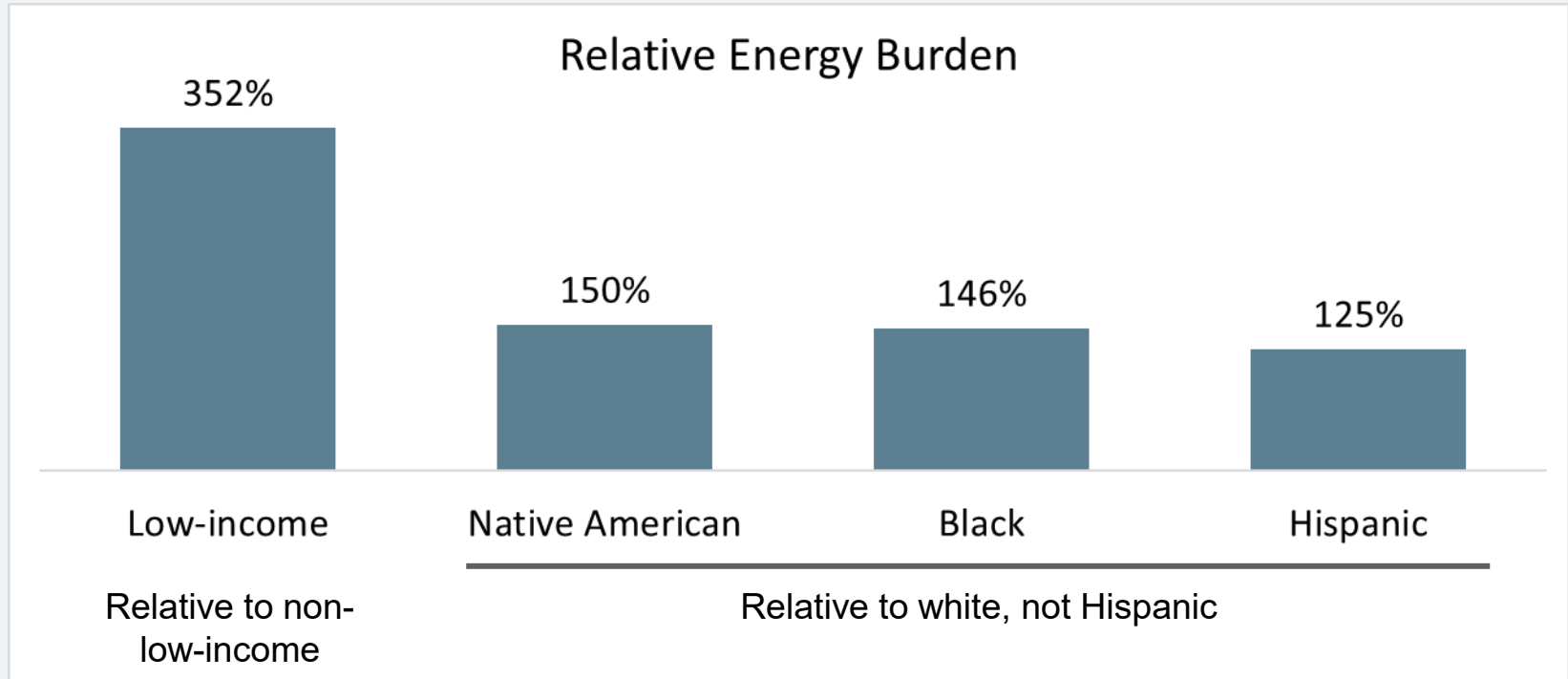


Information or Obfuscation: What Do Community Demographics Tell Us About Program Participants?

November 2, 2022

***Ryan Bliss, ADM Associates
Dan Rubado, Energy Trust of Oregon***

Energy Inequity Is a Growing Concern



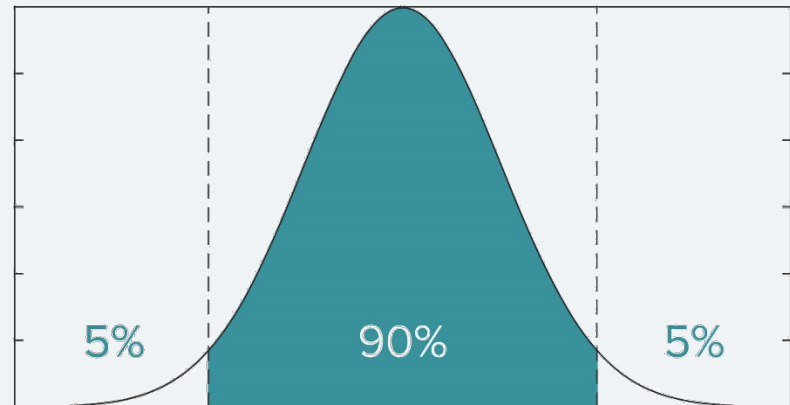
Adapted from Drehabl et al. (2020). "How High Are Household Energy Burdens?" *ACEEE Research Report*, September 10, 2020. Available at: <https://www.aceee.org/research-report/u2006>.

How Do We Know Who is Being Served?



Not through program applications

Customer surveys often have limited precision



80% \pm 10% are white means

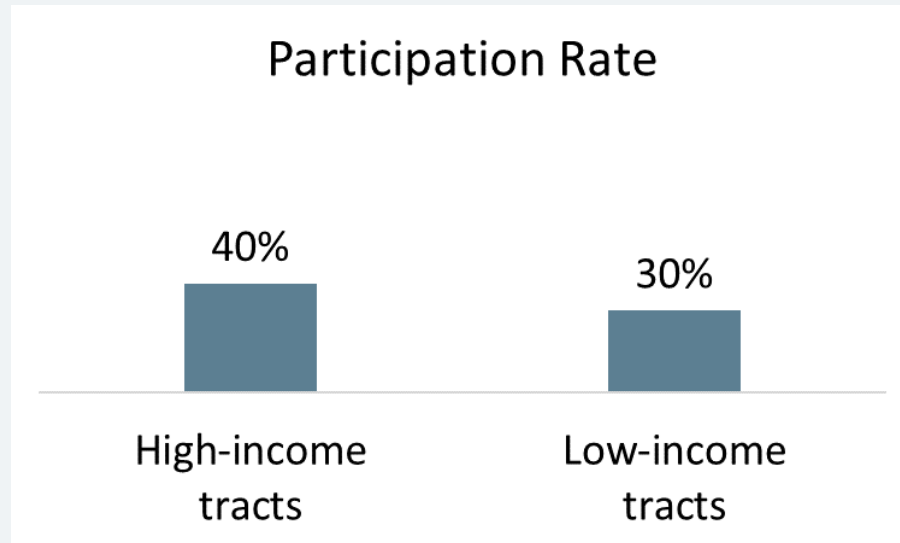
70% to 90% are white

Using Census Data to Assess Equity

Study	Higher Participation in Areas with...
CA Utilities 2001	Higher income, white, non-Hispanic, rural/suburban
Energy Trust of Oregon 2018	Higher income, moderate-to-high racial diversity
MA Program Administrators 2020	Higher income, homeownership, greater English proficiency

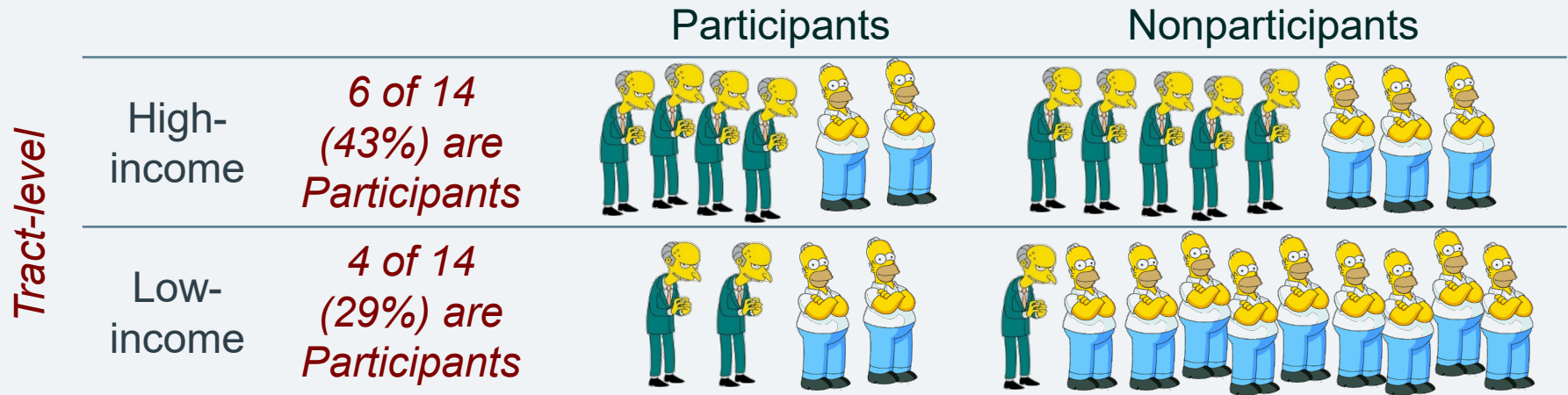
Broad strokes...

What About the Degree of Inequity?



- Does this tell us the difference between high- and low-income households?
- Epinoistic model (Groening, 1989).

From Greek Epinoiste (Invented, Fake)



Participation more strongly related to income in low-income tracts

Energy Trust of Oregon

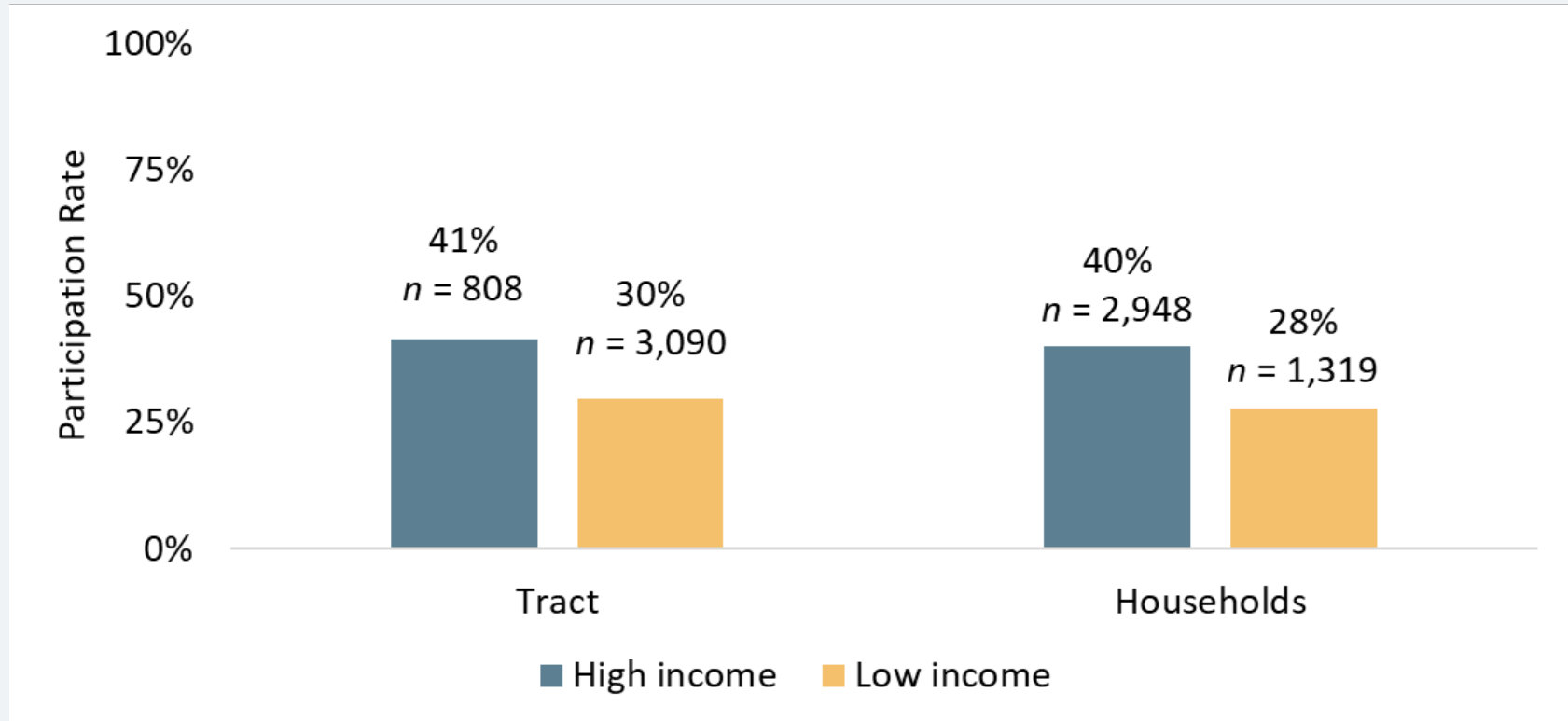
2020 Customer Insights Study

Surveyed 7,257 households:

- Stratified on Census tract, weighted on income & race
- Assessed program participation rate by:

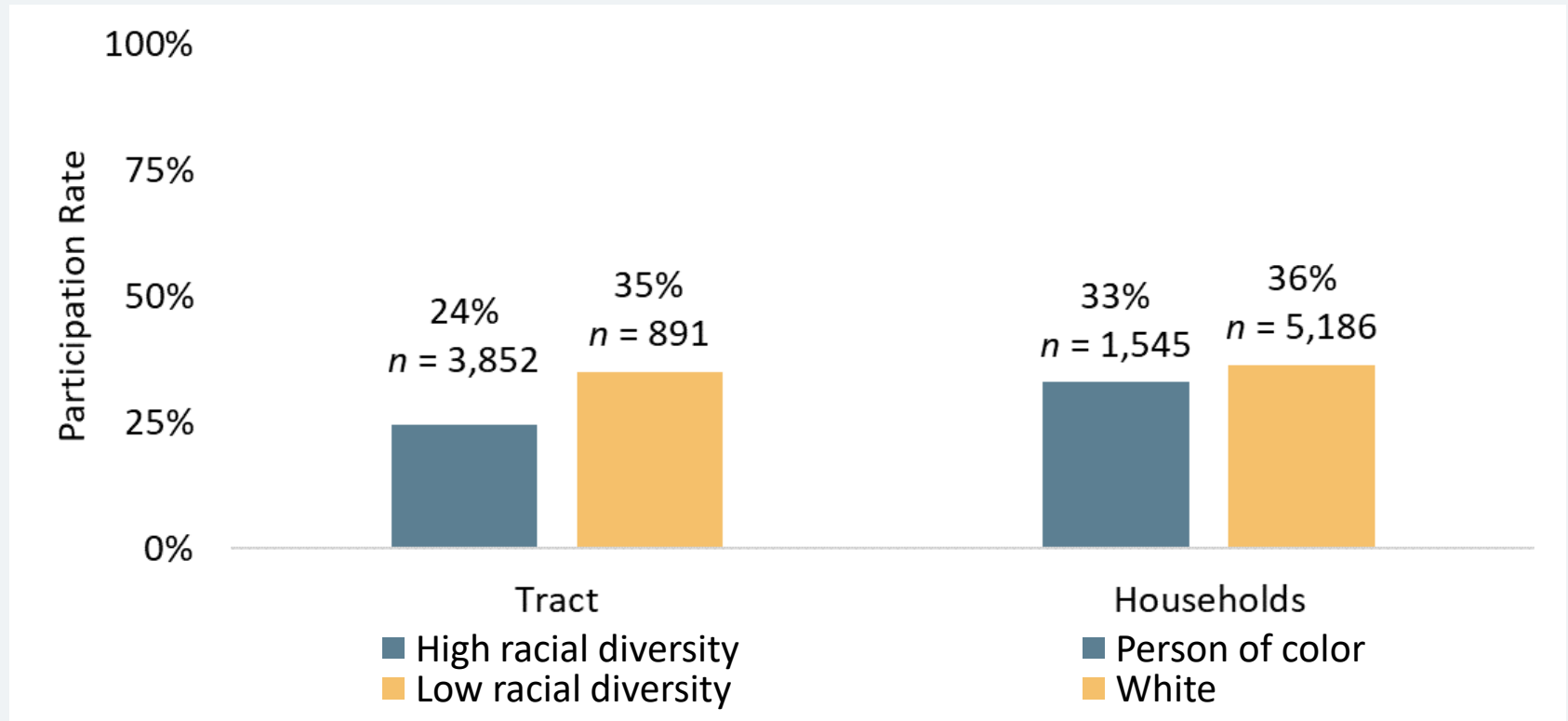
	<u>Income Level</u>	<u>Race/Ethnicity</u>
Census tract	Highest or lowest income on 5-point index	Highest or lowest racial diversity on 5-point index
Self-report	High or low based on self-reported household income & size	POC only or White only

Results: Income



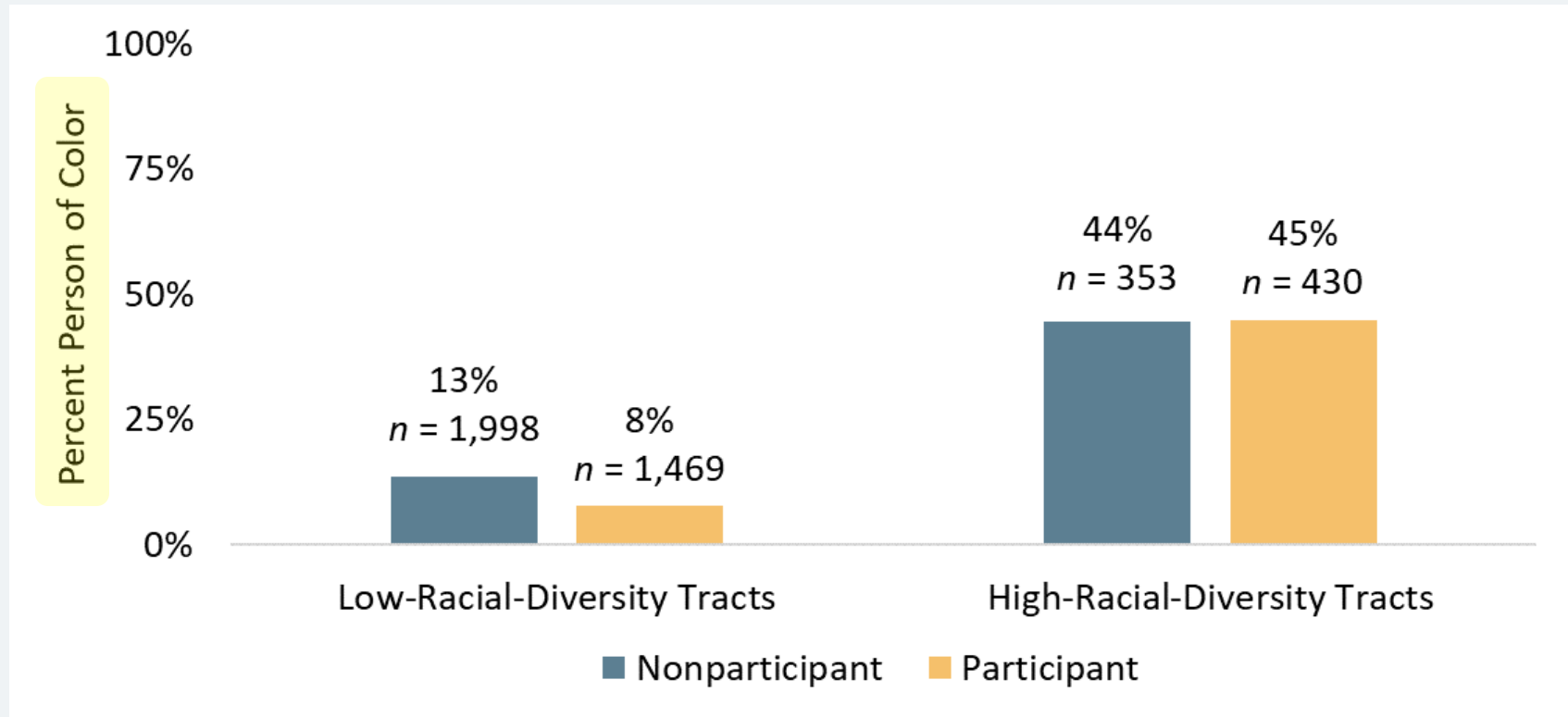
Tract-level and household-level differences are close

Results: Race



Tract-level and household-level differences are not so close

Looking at It from Another Angle



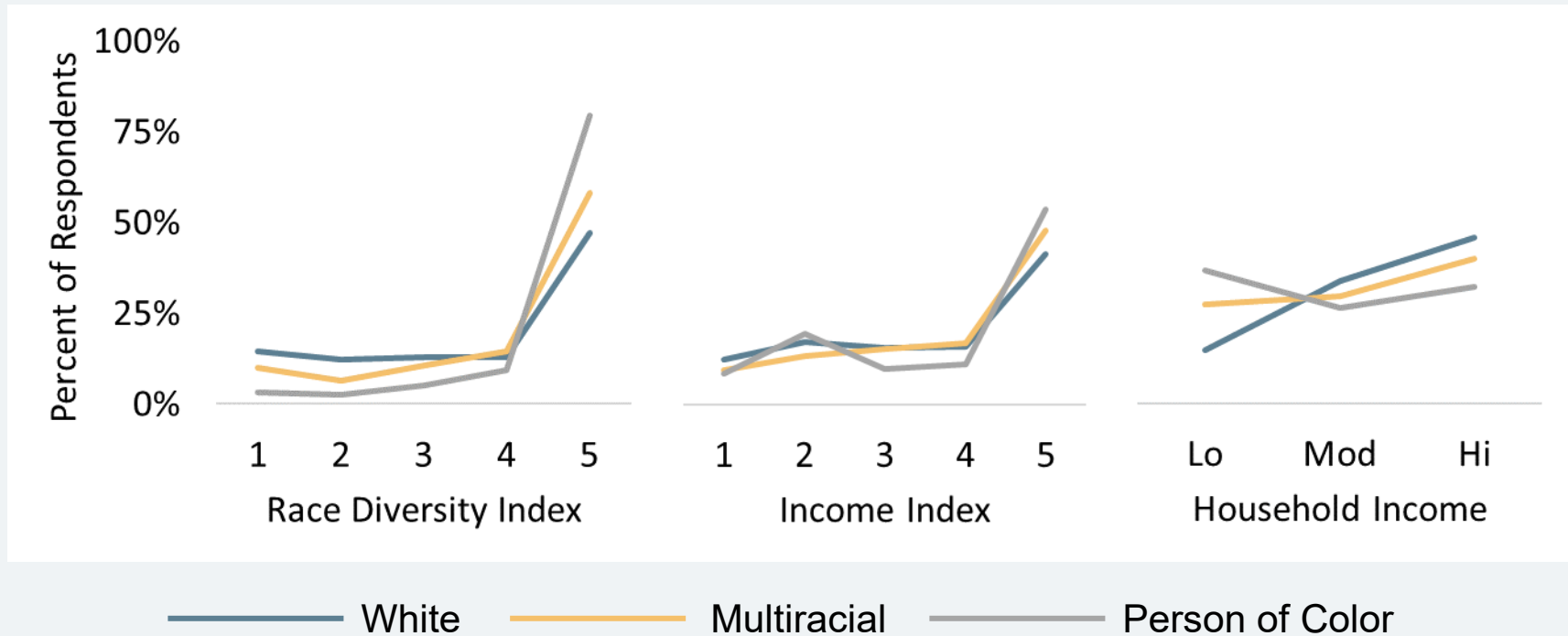
In low-diversity tracts, stronger skew in participation away from persons of color

Is This Why Census Is a Better Proxy for Income than Race?

Income	Modal Income (Survey)	Mean Income (Tract)
Low	≤\$50K	~\$41k
High	\$100-199k	~\$106k

Race	% POC (Survey)	% POC (Tract)
High diversity/POC	100%	31%
Low diversity/White	0%	8%

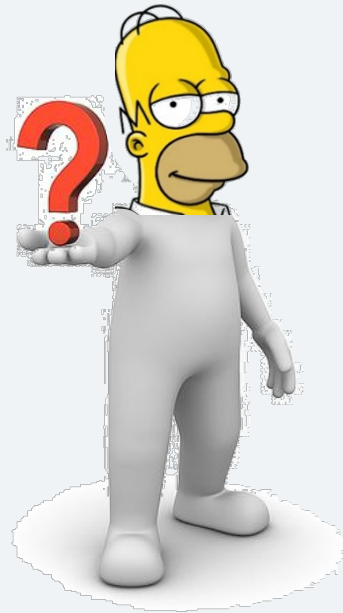
What about Multiracial Respondents?



Summary and Conclusions

- Tract-level difference is an okay proxy for household level difference in income.
- But not so much for race.
 - ➡ Participation skews more-white in low-diversity tracts.
- You can't identify a Census tract as "white" or "of color."
- Multiracial respondents complicate the analysis.

Questions?



Thank you!