Establishing international standards for measuring demographics

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Oct 2021

#### Age, Gender, Education, Working status, Job, Income, Socio-economic classifiers

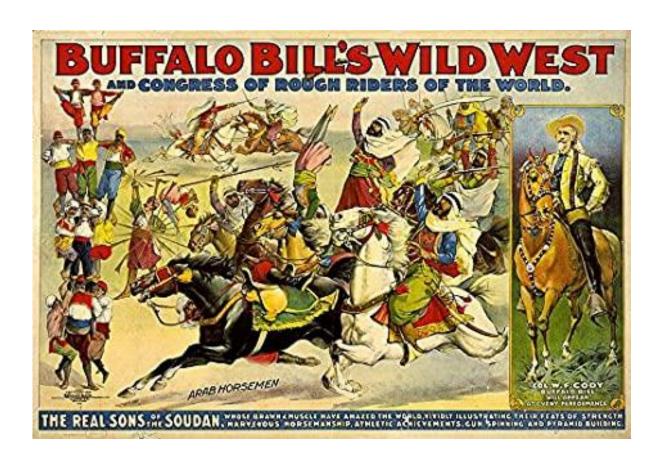
# Demographics are the founding bedrock of market research

We all rely on them to target audiences, set quotas, purchase sample and ensure the representivity of the research we conduct.



# We have absolutely no standards in the way we measure basic demographics around the world

Every company, every country has their own idiosyncratic way of doing things



Source: Google Image Search

#### Studying how we measure demographics...

There are often big gaps between the answers people give to basic demographic questions we ask and what is expected.



# A realisation that the way we ask many demographic questions is so often biased in the language we use and the choices we offer...

- Non-inclusive
- Hierarchical
- Patriarchal

**Encouraging overclaim** 

What is your **highest level** of education?

What is your **annual income?** 

Are you?

Male

Female

What is your **job status?** 

How old are you? 18-14 25-34 35-44 45-54 **55+** 

# Many techniques in common practice are outdated and highly idiosyncratic – particular in the realm of socio-economic measurement





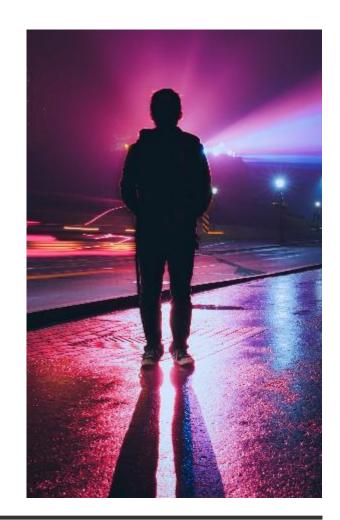


International researchers have endured these problems for decades



#### Why?

- Requires global co-ordination
- National methods are so long established
- Requires investment in establishing benchmarks and comparisons which is hard to find funding for
- Interested parties lack the power to drive through at a global scale
- Perhaps there also has been low underlying demand low relative volumes of cross market research & locally dominated systems and solutions



#### But industry is changing

Growing levels of international cross market research – the web has internationalised marketing over the last decade

The harmonisation of sampling technology & automated sample supply demands having more consistent demographic standards

There is a stronger commercial appetite

The research industry and society as a whole is becoming more aware of the need for more inclusivity

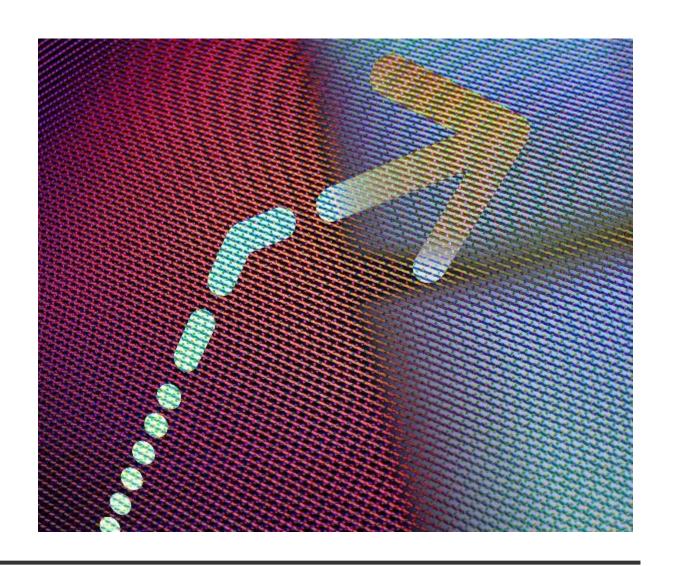


#### **Ambition**

# To establish standardised ways of measuring demographics that we can use around the world

- That measures each demographic component in the most reliable way
- Adopting questioning techniques that are non-biased and inclusive
- That we can cross-calibrate to individual country measures
- That are always kept up to date

### Seek collaboration to establish these as a global standard



One of the missing pieces: the research on research evidence to point us towards a more harmonised solution

# Undertaken two years of extensive research-on-research to try and devise best practice methods of measuring basic demographic

- Desk research examining how demographics and socio-economics classification are measured in 44 countries around the world
- 50+ research pilot experiments in 15 countries
- Academic review
- Publishing paper

#### Establishing international standards for measuring demographic

A paper exploring the best ways to measure basic demographics  ${\bf Author}$ 



Jon Puleston VP Innovation Kantar Profiles

#### Introduction

In this paper I want to explore the best ways to measure basic demographics (age, gender, education, income, working status, job, social economic classifiers) based on 2 years of research on research exploring and comparing different methods used around the world and testing against some new improved techniques.

The basic demographic questions we ask in survey are the bedrock of market research, we all rely on them to target audiences, set quotas, purchase sample, and ensure the representivity of the research we conduct.

There are however no international standards for how to ask these questions are asked and not many any established best practices either. Left to our own devices everyone has gone about it their own merry ways. Methods vary dramatically from one market research company to the next. Every country seems to have its own idiosyncratic ways of measuring things like social class and job status to the point that they are almost incomparable.

This makes it extremely difficult for anyone wishing to conduct any form of cross market research to reliably compare data and for anyone wishing to mix and match sample from different supply sources to know whether what they are getting from one sample supply is the same as the other.

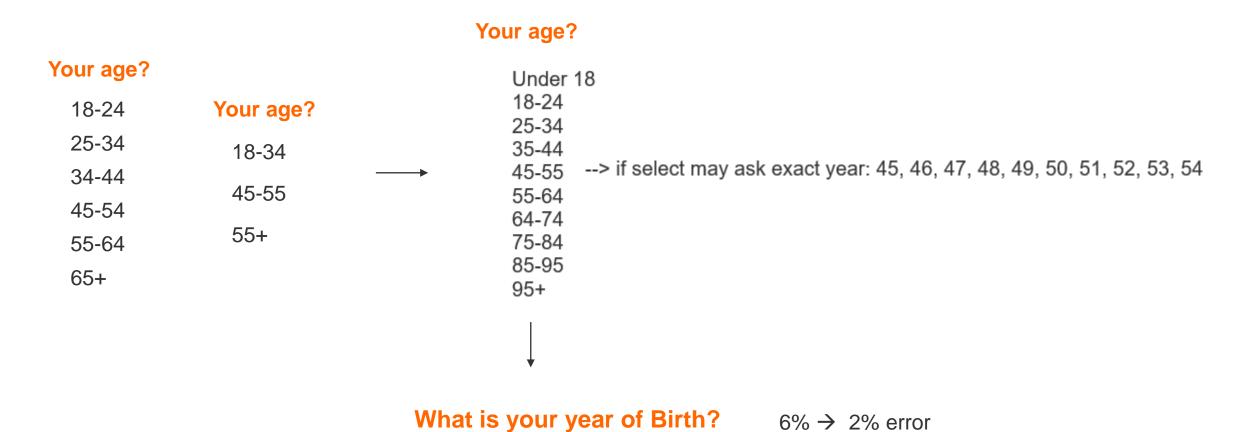
Many of the methods used are badly flawed, delivering biased data. Over the last few years, a focus of our research has been to explore the gap between the answers given to survey questions and what we know to be the truth - trying to understand about the underlying biases which impact on how questions are answered. I am afraid to say that some of the biggest gaps can be observed in some of the basic demographic questions we ask.

This has been an elephant that has been sitting in the room of market research several decade now, if not a whole century. You could consider it one of the biggest inefficiencies holding back the growth of

# Summary of learnings

#### Age

How this is typically asked...



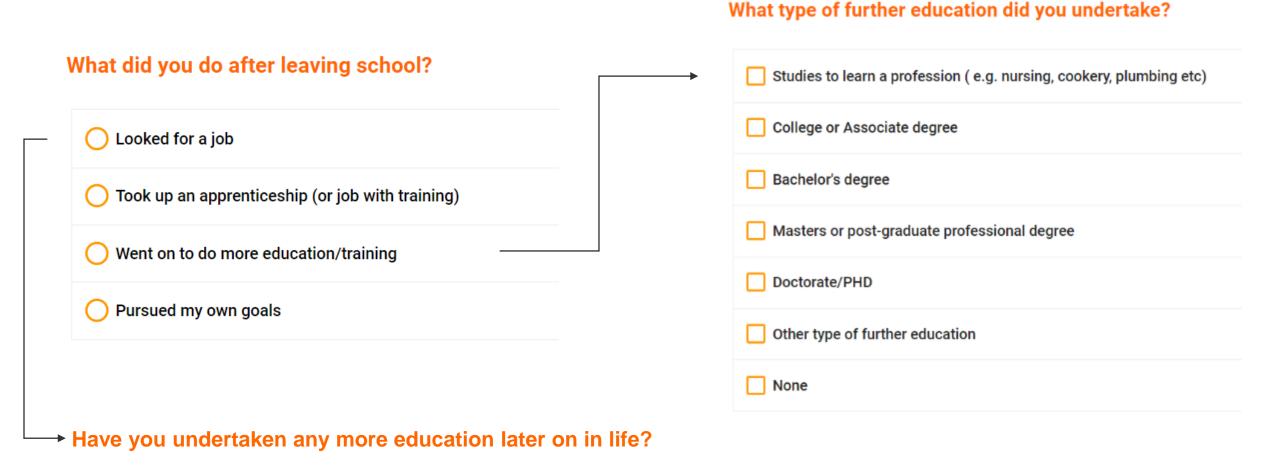
#### **Measuring Education levels**

How this question is typically asked

#### What is your highest level of education?

Grade School	
Some High School	
Graduated High School or GED	
Some College - no degree	
Technical School or Vocational Training	
Graduated College - Associate's degree	
Graduated College - Bachelor's degree	
Post Graduate Degree - MS, MA, MBA, MD, DVM, etc.	
Doctorate - Ph.D.	
Other/None of these	

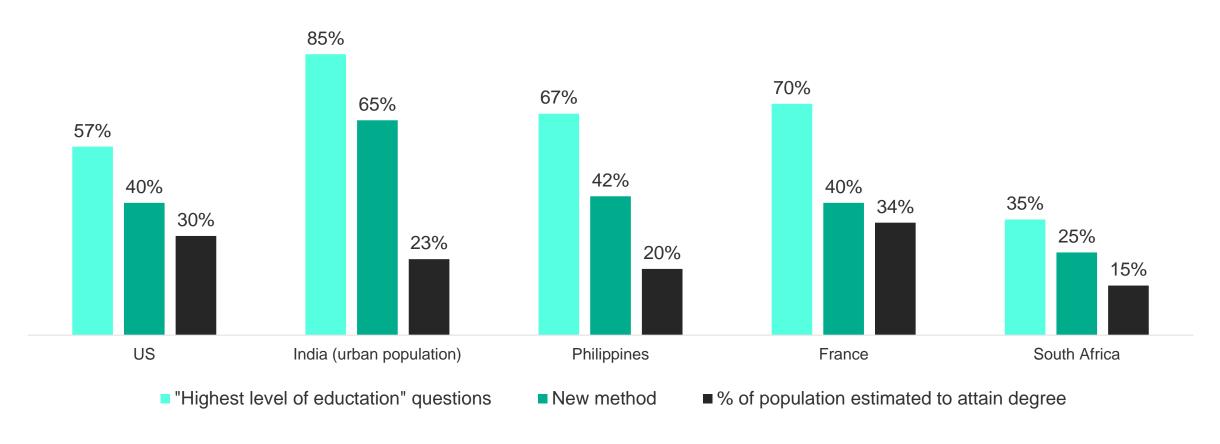
#### Removing the judgement from how we measure education levels



#### **Education level**

#### Current vs new method

#### **Degree level education**



#### Working status measurement

How this question is typically asked:

#### What is your working status?

O Working full time
Working part time
O Self employed
Unemployed
Housewife
O In education/still studying
Retired
Other

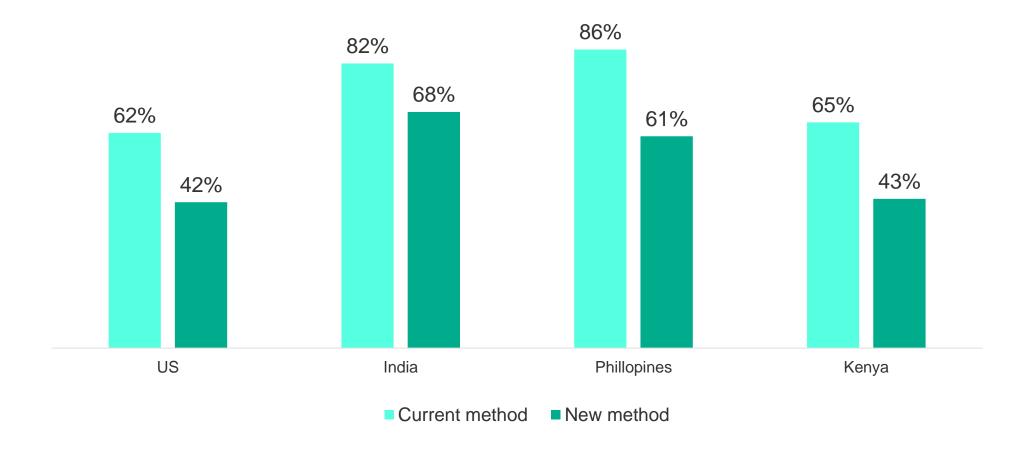
# Changing the question to de-emphasise work and expand out non-working roles

#### What best describes your lifestyle currently?

Retired	Bringing up family
Studying / retraining / in education	Full time carer
Working	Homemaker, Housewife, house husband
Not working/ In between jobs	Other
Pursuing own goals e.g. travelling, a creative persuit, buying/selling things online	

#### Claim to be working

#### Current vs new method



#### Job measurement

#### Pleased indicated what best describes you profession?

High managerial, administrative or professional Intermediate managerial, administrative or professional

Supervisor, clerical, junior management, administrative or professional

Skilled manual worker.

Semi-skilled or unskilled manual worker

Self-employed

Housewife/ Househusband

Unemployed

Student

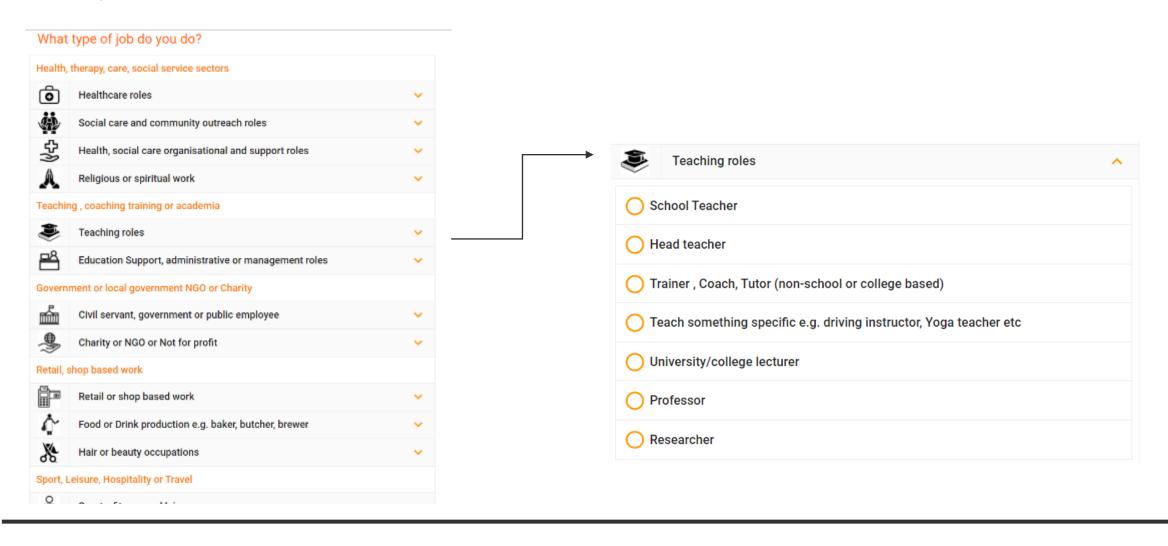
Retired and on state pension

Tenant (others land)
Unskilled worker
Petty trader
Skilled worker
Farmer (own land)
Clerk/salesman
Shop owner
Landlord
Supervisor
Junior Officer/Exec
Businessman
Self employed professional
Industrialist
Senior/Middle Officer/exec

Active armed forces/	military			
Administrative/Cleric	al			
O Agricultural worke	C-level executive			
Applications progr	Computer network and s	General contracto	r	
	) Craftsman/Tradesman	Health profession		
O Builder, general co	Database designer and a	Mealth service ma	Network administrator	
	Director		Other IT Architect/consultant	
O Building manager/	Driver (e.g. taxi, yan, bua, truck driv	Healthcare techno	Other non management staff	
O Business Administ		Help desk technik	Owner or Partner	Project Management
O Buyer/Purchasing	Facilities manager/direct	O Hospitality, retail,	0	Roofer
Carpenter or joine	Faculty/Teaching Staff	O HR manager	Personal care/protective service	Sales Manager
Chief Financial Off	Finance manager/directo	O Information techn	Plant/machine operator, heavy e	Sales Staff
Chief Technical Of	Financial analyst	C Laboratory profes	Plumber or pipe fitter	○ Salesperson
O C-level executive	Financial and investment	Caborer/service o	President/CEO/Chairperson	(e.g. shop, market salesperson)
	Flooring/tiling/wallpaper	(maid, miner, waiter	Product Manager	Senior Management
	Foreman	O Legal professiona (attorney, paralegal,		Social and cultural professional
		Middle Managem	O Production/ specialized service	O Software developer
	Forestry or fishery worke	_	Project Management	Stonemason
		Network administ	Roofer	Supervisor
			Sales Manager	Supply Monager
			Sales Staff	Systems administrator
				Systems analyst
				A

#### Job status measurement

Devising a more sophisticated job definition list that works effectively in every part of the world



#### Management status measurement...

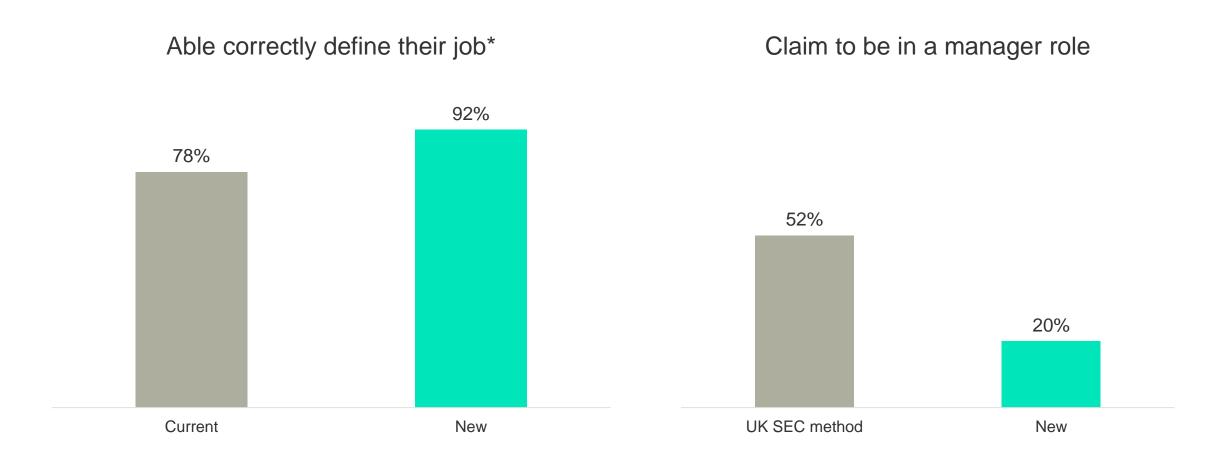
#### Do you have to manage anyone?

Select one

I work on my own so don't have to manage anyone
I have a manager/supervisor but I don't manage anyone
I manage 1 or 2 people
I manage a team of 3-10 people
I manage manages more than 10 people

#### **Job status**

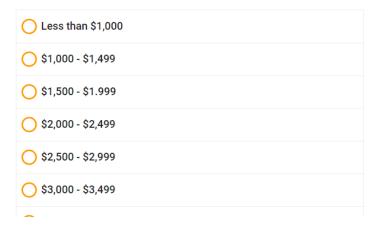
#### Current vs new method



<sup>\*</sup> Matching open ended description of their job

#### Measuring income

#### How much is your monthly household income before tax?



#### What do you estimate is your total ANNUAL household annual income is BEFORE tax or any other deductions?

Think about your salary or in total how much you earn, or if not working your pension and any other forms of income. We would like to know the total estimated sum before paying taxes or any other deductions and including things like bonuses.

Less than \$10,000 a year before tax
\$10,000 - \$14,000 a year before tax
\$15,000 - \$19,000 a year before tax
\$20,000 - \$24,000 a year before tax
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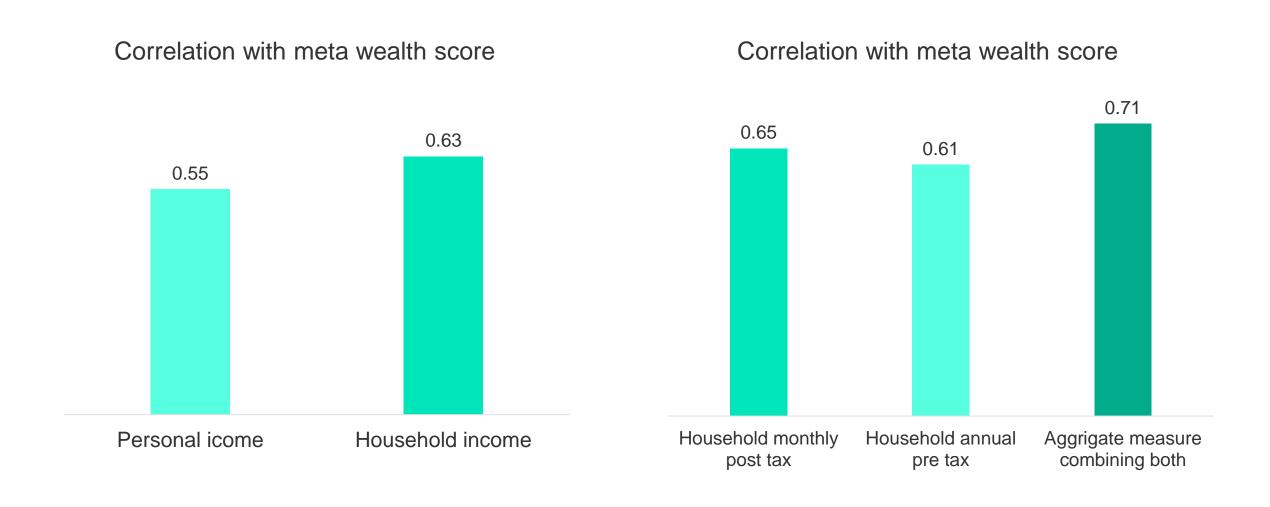
#### A chaotic situation

Ever ones using different income ranges often out of date

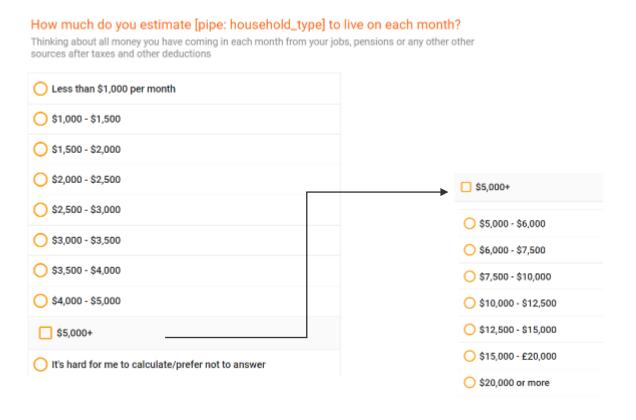
Confusion over whether its best to measure:

- pre and post tax income
- Personal v household income
- Monthly or annual income
- Question suffers badly from overclaim

#### Income as a predictor of wealth and disposable income

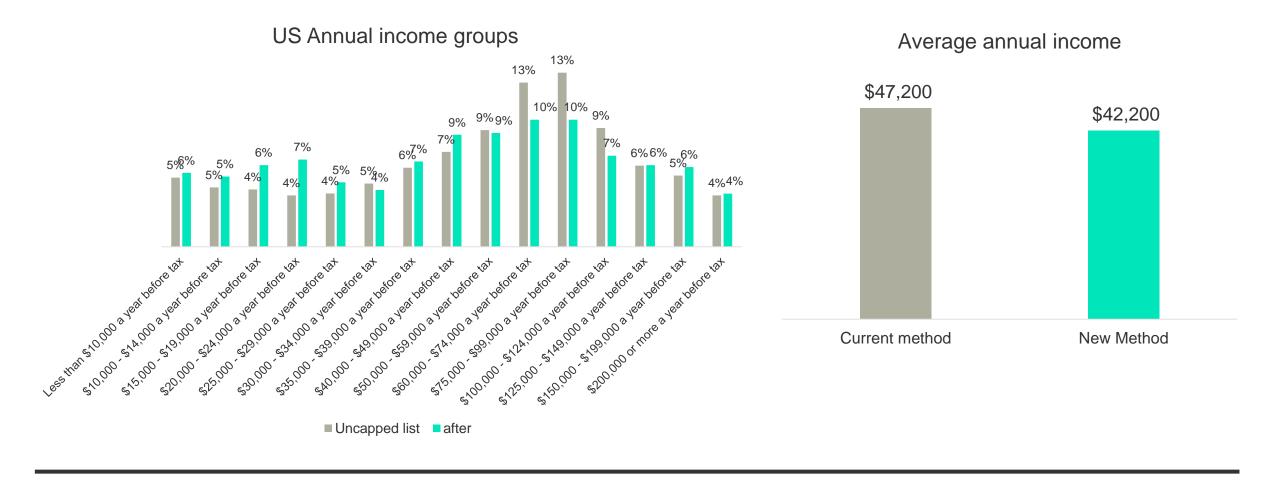


#### Income: Proposed new method to reduce overclaim



#### Claimed annual income (US)

#### Current vs new method





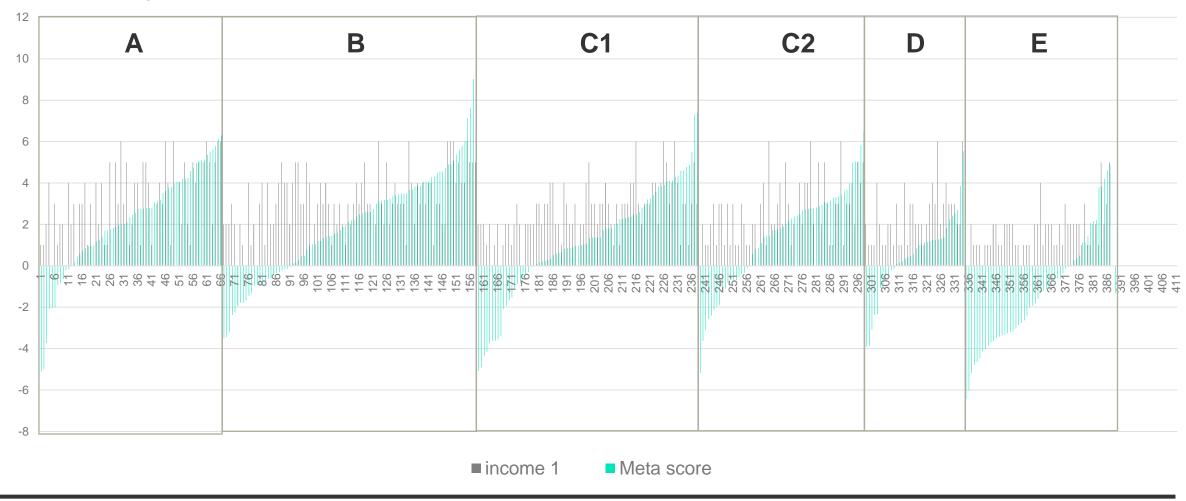
#### Compared the way social economic classification is done in 44 countries

Every country is different – 5 broad method

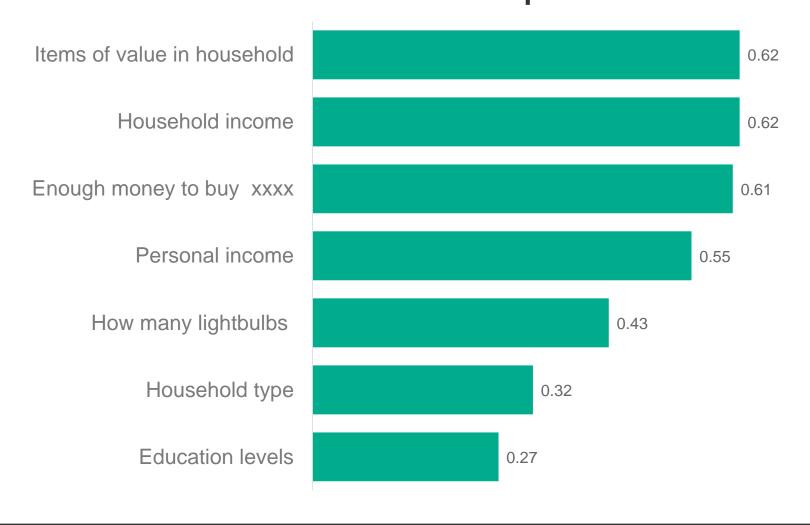
- Income & Education classification assessment
- Education & job classification assessments
- Measuring house type and living circumstance e.g. what type of house do you live in
- Assessment of spending power/what you can afford methods: do you have enough money to buy food, clothes, a car etc
- Audits of items of value in household: e.g. do you own a fridge, TV, washing machine etc

#### Research comparing Income to Socio-economic classifications

#### Assessing the scale of error

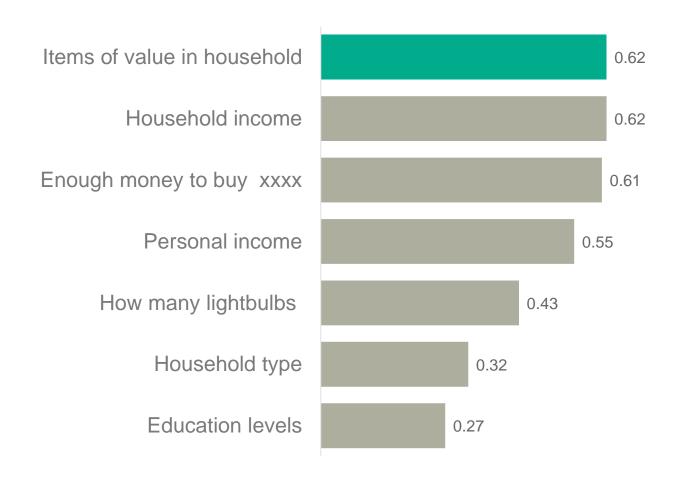


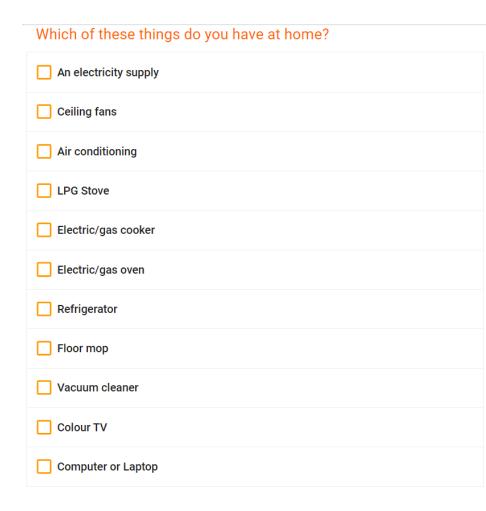
# Conducted research cross compared every major techniques Correlation with an assessment of overall disposable income:



#### Conducted research cross compared every major techniques

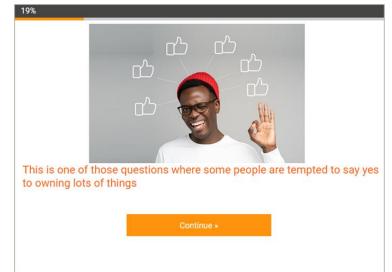
#### Correlation with an assessment of overall disposable income:

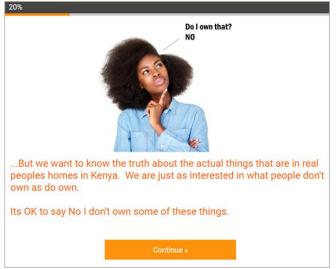




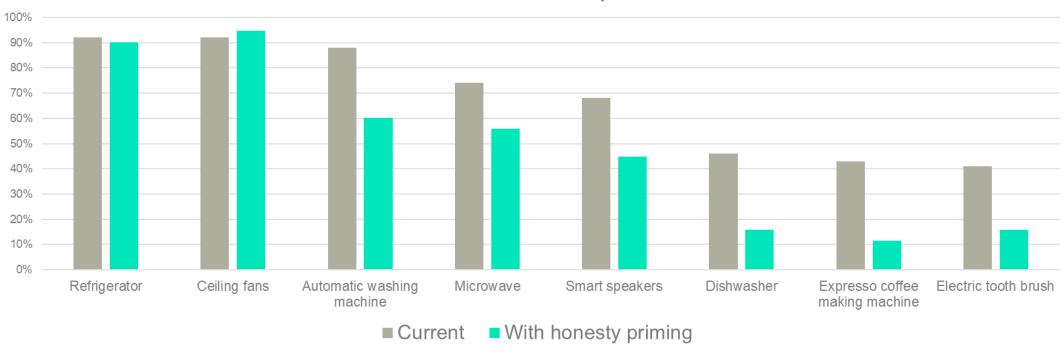
#### Refining the list of items and tackling overclaim with honesty priming....



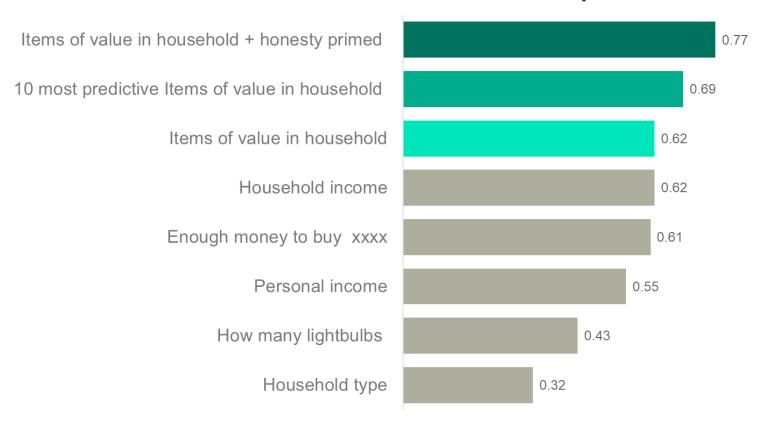




#### Items in home comparison



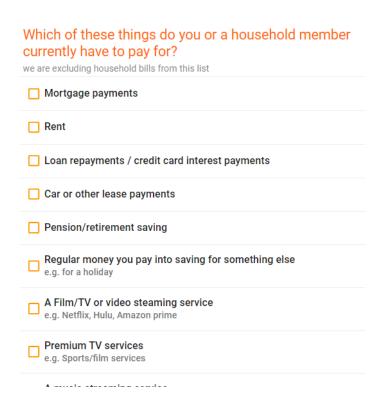
#### Correlation with an assessment of overall disposable income:



# Tested out some alternative methods to try and find a way to more reliably measure wealth for socio-economic measurement purposes

# How often do you buy a coffee from a coffee shop? e.g. Starbucks, Costa Coffee, Cafe coffee etc Never Less than once a year Once or twice a year Every month or so A few times a month Every week A few times a week Every day

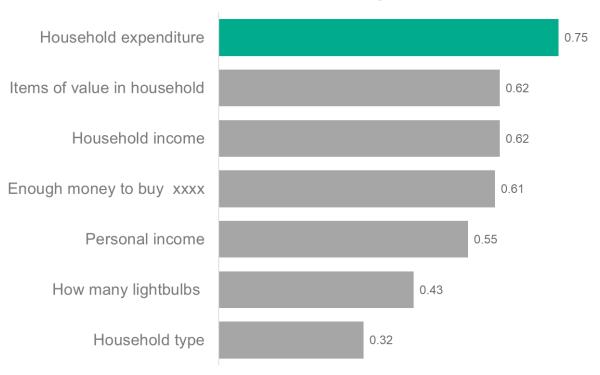




# Discovered the expenditure assessment is potentially more reliable socieconomic measurement technique

#### Which of these things do you or a household member currently have to pay for? we are excluding household bills from this list Mortgage payments Rent Loan repayments / credit card interest payments Car or other lease payments Pension/retirement saving Regular money you pay into saving for something else e.g. for a holiday A Film/TV or video steaming service e.g. Netflix, Hulu, Amazon prime Premium TV services e.g. Sports/film services

#### Correlation with an assessment of overall disposable income:



#### Propose international standard for measuring Socio-economic status

#### A new hybrid method measuring:

Education

Income

Items of value

Expenditure assessment

c0.87 meta wealth assessment



What I have presented here today may not be the exact solutions but I hope it points our industry in the right way

#### **Next steps**

ESOMAR planning to establish a demographics standard committee to agree upon some basic international standards.

Are you in?



# What I believe could a realistically achievable international demographic standard



Standardised education level measures and inclusive assessment methods

Standardised income measurement technique

Standardised gender definition classifications and inclusive language

Age validation techniques e.g. year of birth v exact age

Job and industry definitions

Items of value in household

Agree additional wealth measures to adopt and use

Agree an international standard social class measurement protocol

Establishing international standards for measuring demographic and social class

Any Questions?

