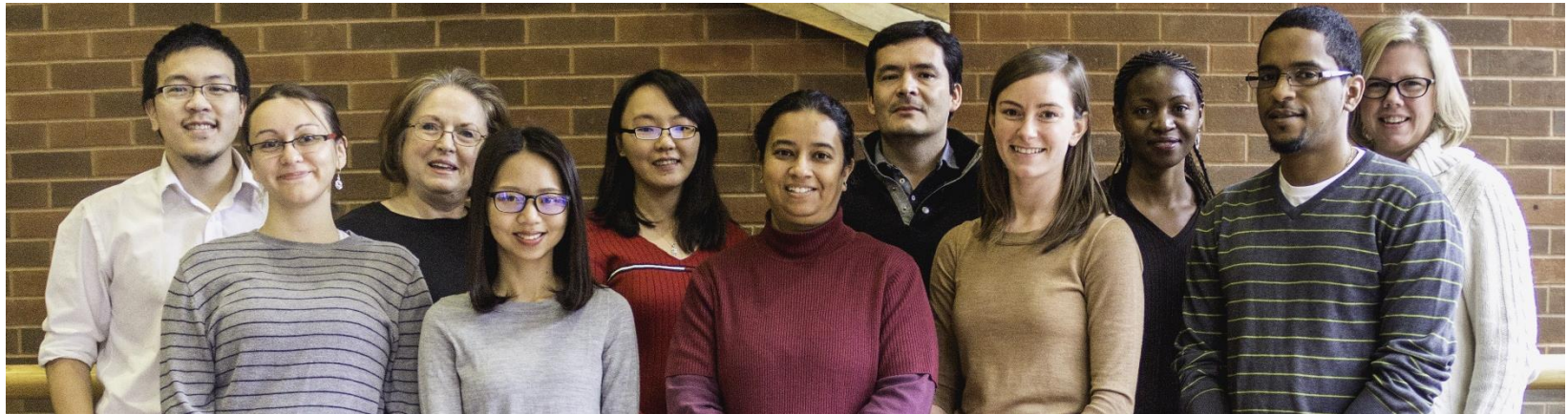


IPUMS-International: Big, Integrated Population Microdata for Russia?, Europe and the World



Robert McCaa

Research Professor & Ambassador, Minnesota Population Center

rmccaa@umn.edu

international.ipums.org

+6 secrets

Outline: IPUMS-International: Big, Integrated Population Microdata for Russia?, Europe and the World

1. IPUMS-International: the first 18 years

- ❖ From 7 countries (2001) to 85 (2017) and beyond (funded through 2020)

2. What is IPUMS-International used for? bibliography.ipums.org

- ❖ ~1500 citations; search by country, topic, and/or keyword

3. How do you get data?

4. How does the IPUMS microdata factory work?

5. 6 IPUMS secrets

- ❖ Help
- ❖ Revise and resubmit an extract
- ❖ Tabulator: analyze data online
- ❖ Teaching with IPUMS – special features for group work
- ❖ Attach characteristics for Mother, Father, Spouse, Householder
- ❖ Unharmonized variables – if you don't trust IPUMS integration?



**** IPUMS-International: first 18 years ****

2000: the census microdata revolution is coming...
2017: the revolution is now!!!

Carling, J., ed. (2002). *Nordic demography: Trends and differentials*. Scandinavian Population Studies, Volume 13, Oslo: Unipub/Nordic Demographic Society. 7-30.

The Census in global perspective and the coming microdata revolution

ROBERT MCCAA
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University of Minnesota
rmccaa@umn.edu

STEVEN RUGGLES
Department of History,
University of Minnesota
ruggles@hist.umn.edu

Abstract On the two hundredth anniversary of the first census of Norway, Denmark, and Iceland it is important to recall the history of the census and of — what to many is a little-known resource for population research — census microdata. The population census became universal only in the twentieth century. Now, and as its microdata is beginning to be

2000

international.ipums.org, a global project to manage the dissemination of integrated population microdata to researchers worldwide without cost



INTERNATIONAL | NAPP

IPUMS.ORG | SELECT DATA

LOGIN



Original source files are **NEVER** disseminated.

Instead, something better: integrated *extracts*.

PROJECT

ABOUT IPUMS-I

HOW TO CITE IPUMS-I

USER REGISTRATION AND LOGIN

DATA

BROWSE AND SELECT DATA

DOWNLOAD YOUR DATA EXTRACT

GEOGRAPHY AND GIS

SUPPLEMENTAL DATA FILES

ANALYZE DATA ONLINE

HARMONIZED INTERNATIONAL SOCIAL SCIENCE AND HEALTH

IPUMS-International is dedicated to collecting and documenting census data from around the world. The project goals are to collect and preserve data, documentation, harmonize data, and disseminate the harmonized data free of charge.

85 countries - 301 censuses - 672 million person records

SAMPLES

Source data for IPUMS-International are generously provided by participating National Statistical Offices



Letter of Understanding

Integrated Public Use Microdata Series International

and the National Bureau of Statistics of China

Purpose. The purpose of this letter is to specify the terms and conditions under which metadata and microdata provided by the **National Bureau of Statistics of China** shall be distributed by **Integrated Public Use Microdata Series International** of the University of Minnesota.

1. **Ownership.** The **National Bureau of Statistics of China** is the owner and licensee of the intellectual property rights (including copyright) in the metadata and microdata supplied to the University of Minnesota to be distributed by **Integrated Public Use Microdata Series International**.
2. **Use.** These data are provided for the exclusive purposes of teaching, academic research and publishing, and may not be used for any other purposes without the explicit written approval, in advance, of the **National Bureau of Statistics of China**.
3. **Authorization.** To access or obtain copies of integrated microdata of China from **Integrated Public Use Microdata Series International**, a prospective user must first submit an electronic authorization form identifying the user (i.e., principal investigator) by name, electronic address, and institution. The principal investigator must state the purpose of the proposed project and agree to abide by the regulations contained herein. Once a project is approved, a password will be issued and data may be acquired from servers or other electronic dissemination media maintained by **Integrated Public Use Microdata Series International**, the **National Bureau of Statistics**, or other authorized distributors. Once approved, the user is licensed to acquire integrated metadata and microdata of China from **Integrated Public Use Microdata Series International** or other authorized distributors. No titles or other rights are conveyed to the user.
4. **Restriction.** Users are prohibited from using data acquired from the **Integrated Public Use Microdata Series International** or other authorized distributors in the pursuit of any commercial or income-generating venture either privately, or otherwise.
5. **Confidentiality.** Users will maintain the absolute confidentiality of persons and households. Any attempt to ascertain the identity of a person, family, household, dwelling, organization, business or other entity from the microdata is strictly prohibited. Alleging that a person or any other entity has been identified in these data is also prohibited.
6. **Security.** Users will implement security measures to prevent unauthorized access to microdata acquired from **Integrated Public Use Microdata Series International** or its partners.
7. **Publication.** The publishing of data and analysis resulting from research using metadata or microdata of China is permitted in communications such as scholarly papers, journals and the like. The authors of these communications are required to cite **National Bureau of Statistics of China** and **Integrated Public Use Microdata Series International** as the sources of the data of China, and to indicate that the results and views expressed are

8. **Sharing.** **Integrated Public Use Microdata Series International** shall provide electronic copies to the **National Bureau of Statistics of China** of all microdata related to its integrated microdata as well as timely reports of use.
9. **Violations.** Violation of this agreement may lead to professional or criminal prosecution.
10. **Jurisdiction.** Disagreements which may arise shall be settled by arbitration. If a transaction and friendly composition. Should a settlement by the parties be impossible, a Tribunal of Settlement shall be convened which will be binding under law. This Tribunal shall be composed of an (1) arbitrator, who shall be chosen from the list of Arbitrators of the Chamber of Commerce of Paris. The Tribunal shall be governed by, and construed in accordance with, generally applicable International Law.

Date: 1/22/02

Signed: 

Regents of the University of Minnesota

By: Kevin McKoskey

Grants Manager, Sponsored Projects Administration

Date: 3/5/2002

Signed: 

National Bureau of Statistics



international.ipums.org/international_partners

Portugal

[National Institute of Statistics](#)

Puerto Rico

[Puerto Rico Institute of Statistics](#)

Romania

[National Institute of Statistics](#)

Russia

Federal State Statistics Service

#115 ?

Rwanda

[National Institute of Statistics](#)

Saint Lucia

[Government Statistics Department](#)

Senegal

[National Agency of Statistics and Demography](#)

Sierra Leone

[Statistics Sierra Leone](#)

Slovak Republic

[Statistical Office](#)

Slovenia

[Statistical Office of the Republic of Slovenia](#)

South Africa

[Statistics South Africa](#)

South Sudan

[National Bureau of Statistics](#)

Spain

[National Institute of Statistics](#)

Sudan

[Central Bureau of Statistics](#)

Suriname

[General Bureau of Statistics](#)

Switzerland

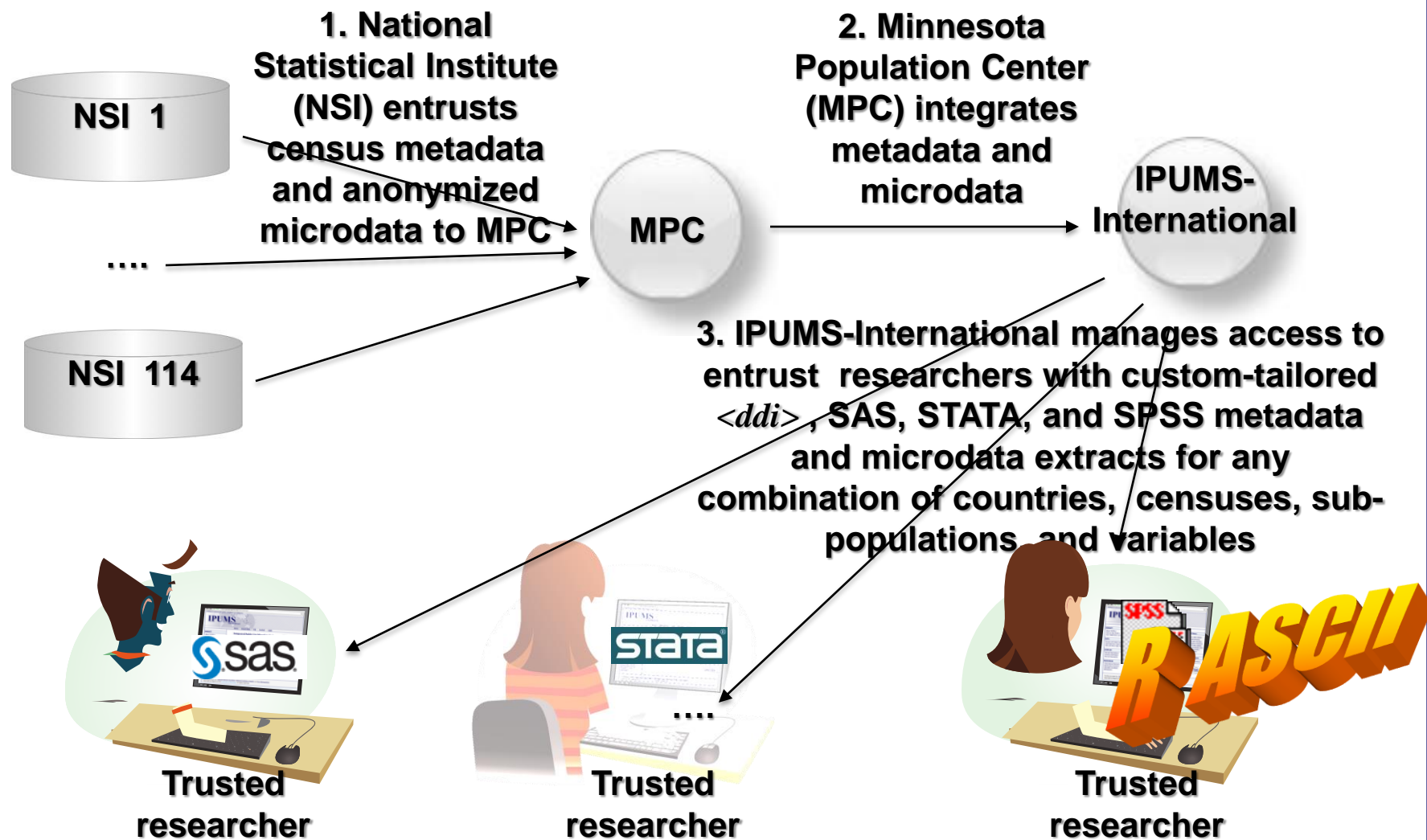
[Federal Statistical Office](#)

Tanzania

[National Bureau of Statistics](#)

Thailand

[National Statistical Office](#)



IPUMS-International microdata factory – 3 steps:

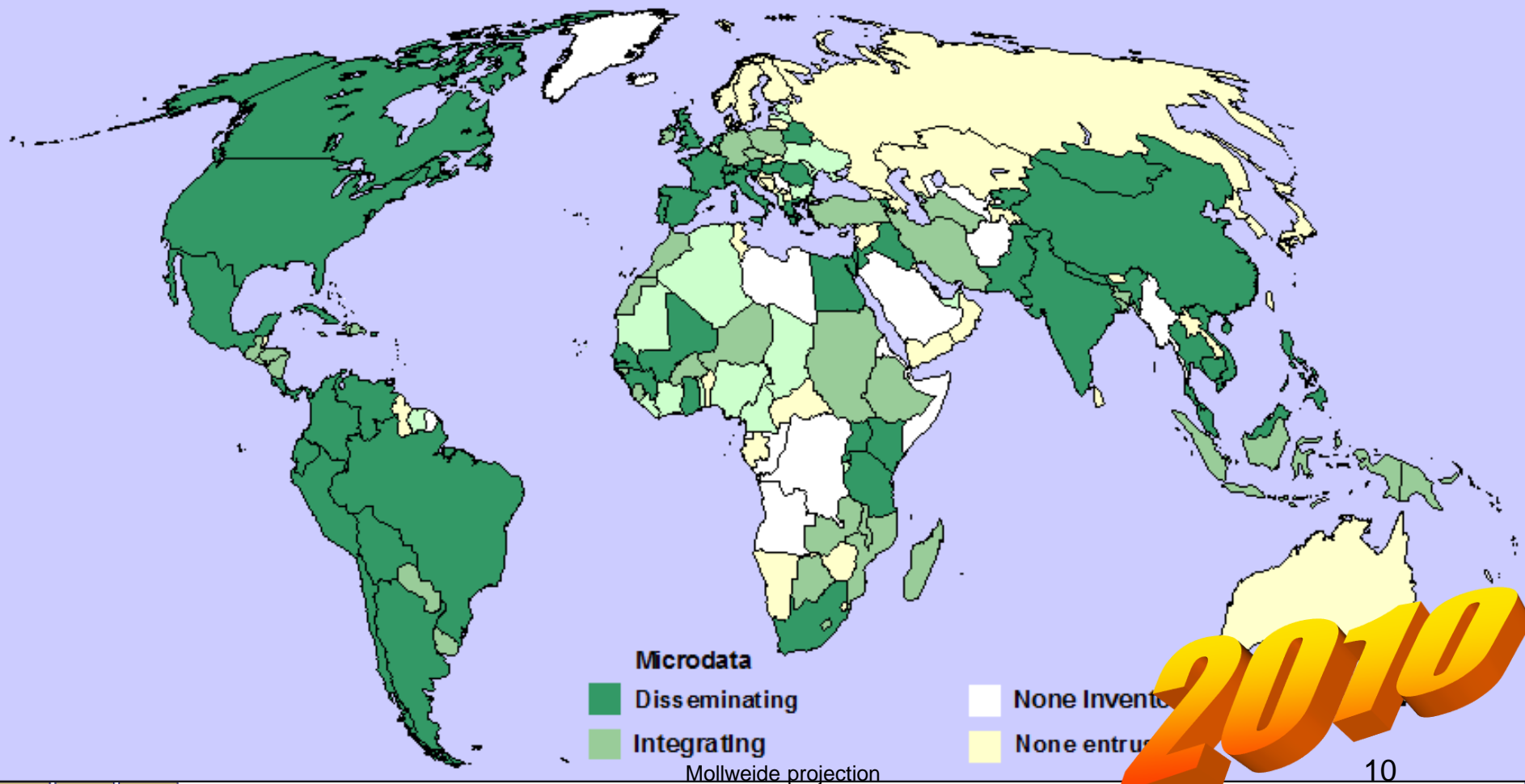
- 1. NSI entrusts source microdata to MPC**
- 2. MPC integrates**
- 3. IPUMS web-site manages dissemination to trusted researchers**

IPUMS-International: 2010

dark green = disseminating: 55 countries - 149 samples - 325mpr

green = integrating: 37 - countries - 116 censuses - ~200mpr

lightest green = negotiating







IPUMS-International: 2017

*dark green = anonymized, integrated and disseminating
85 countries - 301 samples - 672 million son records*

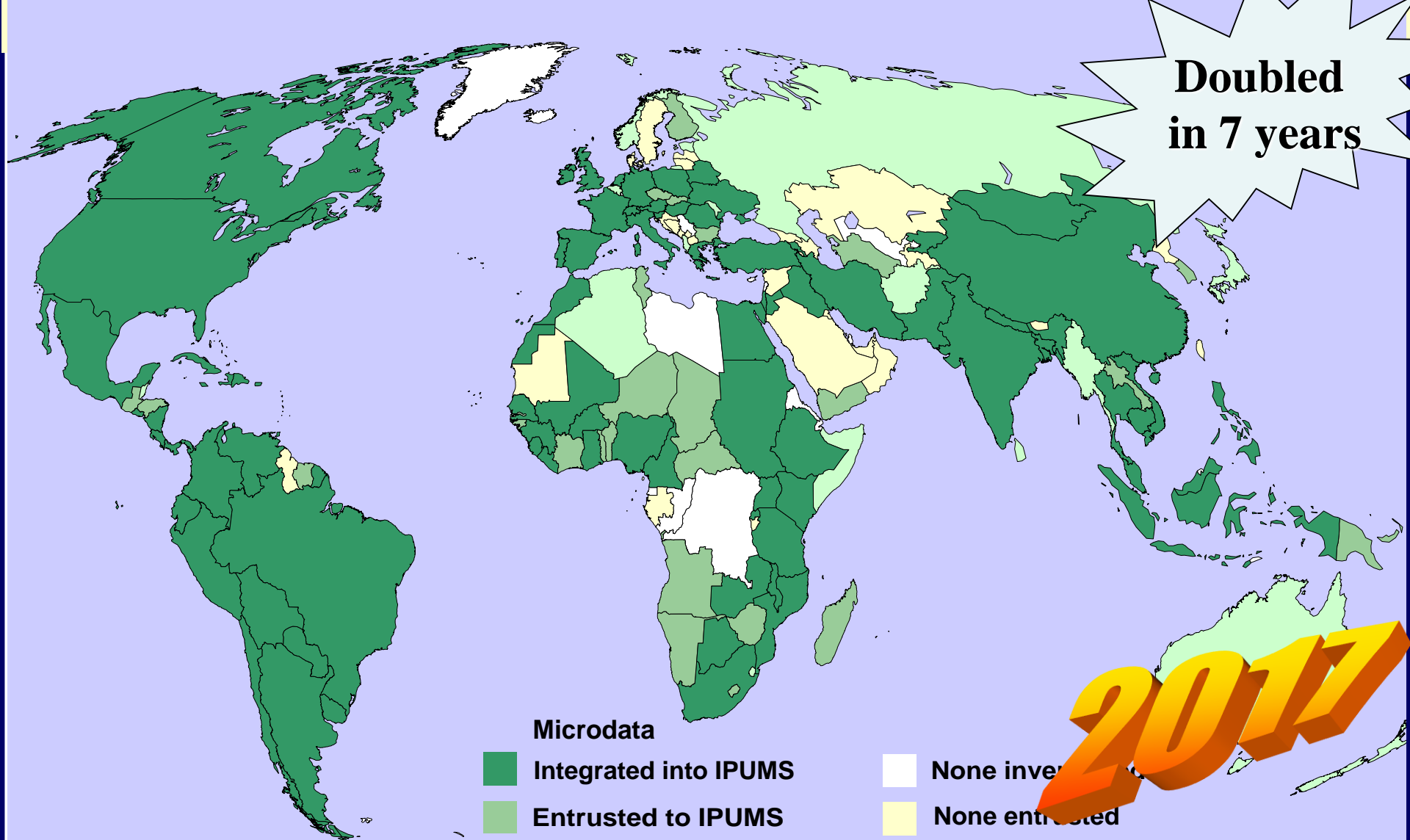
**Doubled
in 7 years**

Microdata

 Integrated into IPUMS
 Entrusted to IPUMS

 None integrated
 None entrusted

2017



Integrated in space and time - ex post facto

(continued) IPUMS-USA Integrated African Sample - http://international.ipums.org/ipums/countries/672-million-person-reports/4-1-2017-facts											
Census	Year	Persons	Census	Year	Persons	Census	Year	Persons	Census	Year	Persons
1960 Mexico	1.5	502,800	1993 Peru	10	2,206,424	1970 Switzerland	5	312,538	1963 Uruguay	10	256,171
1970	1	483,405	2007	10	2,745,895	1980	5	317,803	1975	10	279,994
1990	10	8,118,242	1990 Philippines	10	6,013,913	1990	5	342,797	1985	10	295,915
1995	0.4	332,061	1995	10	6,864,758	2000	5	364,086	1996	10	315,920
2000	11	10,099,182	2000	10	7,417,810	1988 Tanzania	10	2,310,424	2006	6	256,866
2005	10	10,284,550	1978+ Poland	10	3,577,272	2002	10	3,732,735	2011	10	328,425
2010	10	11,938,402	1988+	10	3,894,527	2011+	10	4,498,022	1971 Venezuela	10	1,158,527
2015+	10	11,344,365	2002+	10	3,824,056	1970 Thailand	2	772,169	1981	10	1,441,266
1989 Mongolia	10	190,631	2011+	10	4,051,255	1980	1	388,141	1990	10	1,803,953
2000	10	243,725	1981 Portugal	5	492,289	1990	1	485,100	2001	10	2,306,489
1982 Morocco	5	1,012,873	1991	5	491,755	2000	1	604,519	1989 Vietnam	5	2,626,985
1994	5	1,294,026	2001	5	517,026	1970+ Trinidad & T	10	69,339	1999	3	2,368,167
2004	5	1,482,720	2011	5	528,870	1980+	10	105,464	2009	15	14,177,590
1997 Mozambique	10	1,551,517	1970 Puerto Rico	1	27,212	1990+	10	113,104	1990 Zambia	10	787,461
2007	10	2,047,048	1980	5	160,219	2000+	10	111,833	2000	10	996,117
2001 Nepal	11	2,583,245	1990	5	177,655	2011+	10	116,917	2010	10	1,321,973
1960 Netherlands	1.2	143,251	2000	5	189,828	1985 Turkey	5	2,554,364	Candidates for 2018 and beyond:		
1971	1.2	159,203	2005 (PRCS)	1	35,416	1990	5	2,864,207	2010 round censuses		
2001	1.2	189,725	2010	1	36,032	2000	5	3,444,456	More countries/places		
1971 Nicaragua	10	189,469	1977 Romania	10	1,937,021	1991 Uganda	10	1,548,460	Angola		
1995	10	435,728	1992	10	2,238,578	2002	10	2,497,449	Australia		
2005	10	515,485	2002	10	2,137,967	2001 Ukraine	10	4,889,288	Belgium		
2006 Nigeria - GHS	0.1	83,700	2011+	10	1,991,924	1991 UK	1	541,894	Benin		
2007	0.1	85,183	1991 Rwanda	10	742,918	2001	3	1,843,525	Bulgaria		
2008	0.1	107,425	2002	10	843,392	1960 USA	1	1,799,888	Chad		
2009	0.1	77,896	1980 Saint Lucia	10	11,451	1970	1	2,029,666	Finland		
2010	0.1	72,191	1991	10	13,382	1980	5	11,343,120	Guatemala		
1973 Pakistan	2	1,453,332	1988 Senegal	10	700,199	1990	5	12,501,046	Honduras		
1981	10	8,433,058	2002	10	994,562	2000	5	14,081,466	Japan		
1998	10	13,102,024	2004 Sierra Leone	10	494,298	2005 (ACS)	1	2,878,380	Korea		
1997 Palestine	10	259,191	2002 Slovenia	10	179,632	2010	1	3,061,692	Lithuania		
2007	10	227,067	1996 South Africa	10	3,621,164	1963 Uruguay	10	256,171	Madagascar		
1960 Panama	5	53,553	2001	10	3,725,655	1975	10	279,994	Mauritius		
1970	10	150,473	2007	2	1,047,657	1985	10	295,915	Myanmar		
1980	10	195,577	2011	10	4,418,594	1996	10	315,920	Namibia		
1990	10	232,737	2008 South Sudan	7	542,765	2006	6	256,866	Niger		
2000	10	284,081	1981 Spain	5	2,084,221	2011	10	328,425	Nigeria PES		
2010	10	341,118	1991	5	1,931,458	1971 Venezuela	10	1,158,527	Papua New Guinea		
1962 Paraguay	5	90,236	2001	5	2,039,274	1981	10	1,441,266	Russia		
1972	10	233,669	2011	10	4,107,465	1990	10	1,803,953	Tanzania		
1982	10	301,582	2008 Sudan	17	5,066,530	2001	10	2,306,489	Turkmenistan		
1992	10	415,401							Yemen		
2002	10	516,083							Zimbabwe, etc.		

2018P

Google Analytics – Calendar year 2016

Traffic from cities worldwide to
international.ipums.org

Top 30 Countries, #1 City		
1	USA	► Minneapolis
2	UK	► London
3	France	▲ Paris
4	Mexico	▼ Mexico City
5	Brazil	▲ Belo Horizonte
6	Austria	▲ Vienna
7	Spain	▼ Barcelona
8	Singapore	▲ Singapore
9	South Africa	▲ Johannesburg
10	Canada	♥ Toronto
11	Chile	▲ Santiago
12	Argentina	▼ Buenos Aires
13	Colombia	▲ Bogota
14	Korea, RO	▲ Seoul
15	China	▼ Beijing
16	Thailand	▲ Bangkok
17	Belgium	▲ Louvain-la-Neuve
18	Germany	♥ Munich
19	Switzerland	▲ Geneva
20	Nigeria	▲ Lagos
21	Ireland	▲ Dublin
22	Israel	▲ Tel Aviv-Yafo
23	Netherlands	▼ Amsterdam 7,009
24	Hong Kong SAR	▲ Hong Kong
25	Kenya	▲ Nairobi
26	Australia	▼ Melbourne
27	Uruguay	▲ Montevideo
28	Italy	♥ Milan
29	Poland	▲ Warsaw
30	India	▼ New Delhi

3,834 cities - 176 countries encompassing
98.3% of total world population



UN Commission on Population and Development:
Encourages Governments to adopt open-data policies
allowing *the dissemination of public-use, geo-*
referenced and anonymized microdata from censuses,
household surveys, civil registration, population
registers, health information systems and other
relevant administrative records with respect for
confidentiality;

<http://www.un.org/en/development/desa/population/pdf/commission/2016/documents/Resolution2.pdf>

2016

2. What do researchers use IPUMS for?

Search “bibliography.ipums.org” & see:

Search

bibliography.ipums.org

France

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--	--

All Citation Types ▾

Family and Marriage

IPUMS-International ✓

Clear

BIBLIOGRAPHY

Publications, working papers, and other research using data resources from IPUMS.

[NEW SEARCH](#) | [ADD A PUBLICATION](#) | [ADMIN](#)

1 2 Next > Last >>

Sort Results By: 

Schwanitz, Katrin,; Mulder, Clara, H

"Living Arrangements of Young Adults in Europe." *Comparative Population Studies*, 2015

[Abstract](#) | [Full Citation](#) | [Google](#) 

Elwood, Carlson,

2014. "The young householder deficit in Italy compared to France." *Demografie* 56: 14

[Abstract](#) | [Full Citation](#) | [Google](#) 

Lappegrd, Trude,; Vignoli, Daniele,; Kleusener, Sebastian,

2014. "Social Norms, Economic Conditions and Spatial Variation of Childbearing withing Cohabitation across Europe." MPIDR Working Paper

[Abstract](#) | [Full Citation](#) | [Google](#) 

Lippman, L.H.,; Wilcox, W.B.,; Ryberg, R.,; DeRose, L.F.,; Corcuera, P.,; Gas, M.,; Fernandez, L.C.M.,; Salazar, A.,; Tarud, C.,; Rivera, R.G.,

"World Family Map 2014: Mapping Family Change and Child Well-Being Outcomes." *Child Trends*, 2014

[Abstract](#) | [Full Citation](#) | [Google](#) 

Steinhauer, Andreas

"Identity, Working Moms, and Childlessness: Evidence from Switzerland." *University of Zurich*, 2013

[Abstract](#) | [Full Citation](#) | [Google](#) 

70 pages, ~1500 citations (add yours—restricted to IPUMS microdata)

Clingingsmith, David,

2017. "Are the World's Languages Consolidating? The Dynamics and Distribution of Language Populations." *The Economic Journal* 127: 34

[Abstract](#) | [Full Citation](#) | [Google](#) 

den Boer, Andrea.; Hudson, Valerie,

2017. "Patrilineality, Son Preference, and Sex Selection in South Korea and Vietnam." *Population and Development Review* 43: 29

[Abstract](#) | [Full Citation](#) | [Google](#) 

DeRose, Laurie, F; Huarcaya, Gloria.; Salazar-Arango, Andres.; Agurto, Marcos.; Corcuera, Paul.; Gonzalvo-Cirac, Marga.; Tarud, Claudia,

2017. "Childrens Living Arrangements and On-time Progression Through School in Latin America and the Caribbean." *Journal of Family and Economic Issues* 38: 20

[Abstract](#) | [Full Citation](#) | [Google](#) 

Duque, Valentina.; Rosales-Rueda, Maria.; Sanchez, Fabio,

"Mitigating the Persistent Effects of Early-Life Shocks: Evidence from Safety Net Programs in Colombia." University of Michigan, 2017

[Abstract](#) | [Full Citation](#) | [Google](#) 

Gandolfi, Davide.; Halliday, Timothy.; Robertson, Raymond,

2017. "Trade, FDI, migration and the place premium: Mexico and the United States." *Review of World Economics* 153: 37

[Abstract](#) | [Full Citation](#) | [Google](#) 

Giuliano, Paola.; Nunn, Nathan

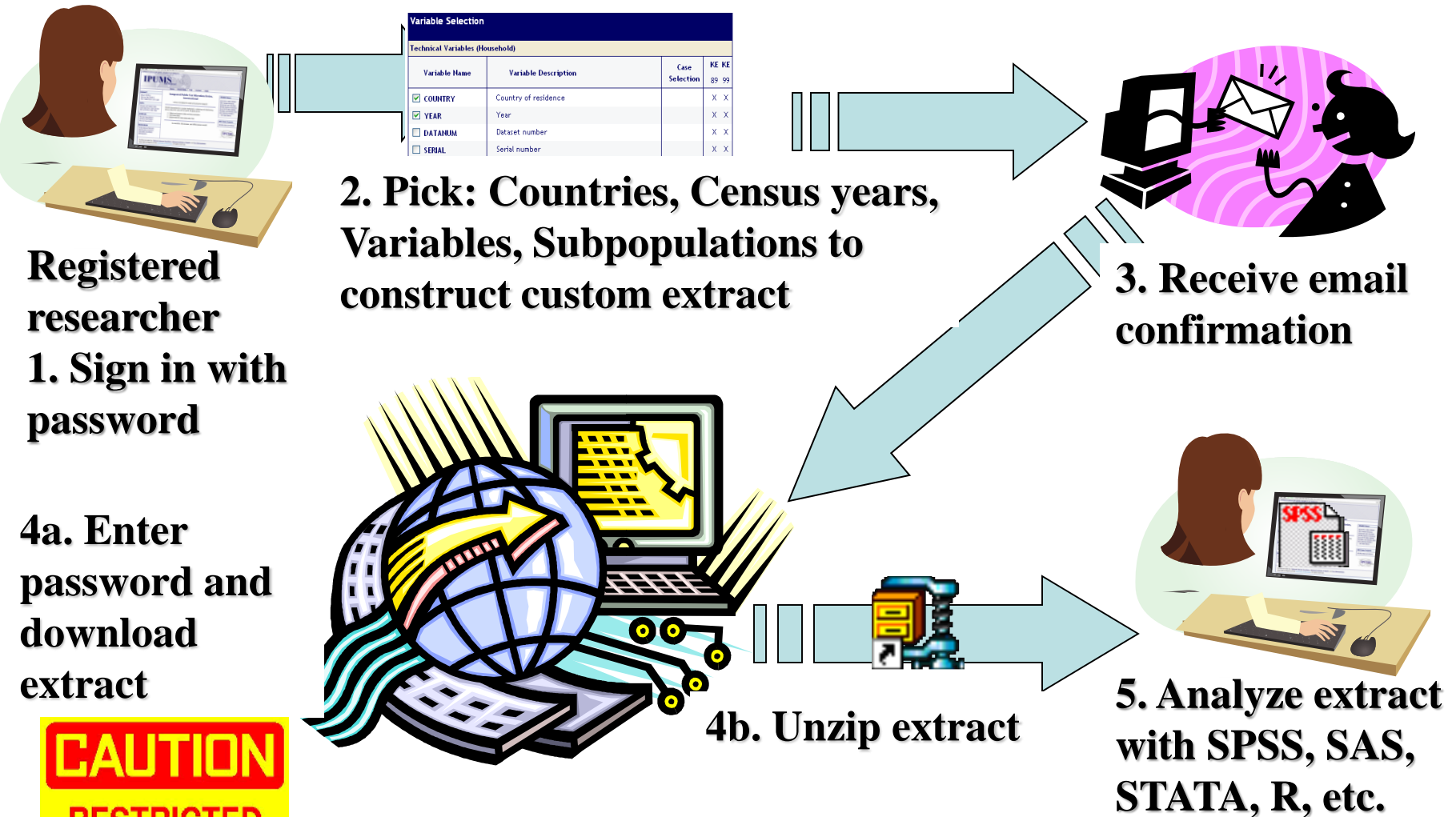


3. How do you get IPUMS-International microdata?

15 minutes to register, data for life

How to get data: international.ipums.org

Custom pooled, integrated microdata extract:



CAUTION
RESTRICTED
AREA

6 steps to construct an extract: Pick samples and variables in any order

PROJECT

ABOUT IPUMS-I

HOW TO CITE IPUMS-I

USER REGISTRATION AND LOGIN

DATA

BROWSE AND SELECT DATA

DOWNLOAD YOUR DATA EXTRACT

GEOGRAPHY AND GIS

SUPPLEMENTAL DATA FILES

ANALYZE DATA ONLINE

SAMPLES

SAMPLE DESCRIPTIONS

SOURCE DOCUMENTS

VARIANCE ESTIMATION

RESOURCES

HELP

USER FORUM

REVISIONS

BIBLIOGRAPHY

INTERNATIONAL PARTNERS

TEACHING WITH IPUMS

HARMONIZED INTERNATIONAL CENSUS DATA FOR SOCIAL SCIENCE AND HEALTH RESEARCH

IPUMS-International is dedicated to collecting and distributing census data from around the world. The project goals are to collect and preserve data and documentation, harmonize data, and disseminate the harmonized data free of charge.

85 countries – 301 censuses – 672 million person records

Source data for IPUMS-International are generously provided by participating National Statistical Offices

CREATE AN EXTRACT

GET DATA

CREATE AN ACCOUNT

REGISTER

WHAT IS IPUMS?

IPUMS provides census and survey data from around the world integrated across time and space. IPUMS integration

1. Pick samples



IPUMS
INTERNATIONAL

[IPUMS.ORG](https://ipums.org) | [SELECT DATA](#) | [FAQ](#) | [HELP](#) | [LOGIN](#)

DATA CART

YOUR DATA EXTRACT

0 VARIABLES
0 SAMPLES

SELECT HARMONIZED VARIABLES

HOUSEHOLD ▾

PERSON ▾

A-Z ▾

SEARCH

SELECT
SAMPLES

- ☒ HARMONIZED VARIABLES
☐ SOURCE VARIABLES

[HELP](#)

[DISPLAY OPTIONS](#)

[COUNTRY ABBREVIATIONS](#)



START HERE

SUPPORTED BY: [NATIONAL INSTITUTES OF HEALTH](#), [NATIONAL SCIENCE FOUNDATION](#), [STAT/TRANSFER](#), AND [UNIVERSITY OF MINNESOTA](#).

1. Pick samples: submit sample selections

SELECT SAMPLES

Variable documentation on the website can be filtered to display only material corresponding to chosen datasets ([more information](#) on this feature).

SUBMIT SAMPLE SELECTIONS

ALL COUNTRIES

AFRICA

AMERICAS

ASIA

EUROPE

☐ All Samples

☐ Argentina

☐ [2010](#)

☐ [2001](#)

☐ [1991](#) 

☐ [1980](#)

☐ [1970](#)

☐ Armenia

☐ [2011](#)

☐ [2001](#)

☒ Austria

☒ [2011](#)

☒ [2001](#)

☒ [1991](#)

☒ [1981](#)

☒ [1971](#)

☐ Bangladesh

☐ [2011](#)

☐ [2001](#)

☐ [1991](#)

☐ Belarus

☐ [2009](#)

☐ [1999](#)

☐ Bolivia

☐ [2001](#)

☐ [1992](#)

☐ [1976](#)

2. Pick variables



IPUMS
INTERNATIONAL

IPUMS.ORG | SELECT DATA | FAQ | HELP | LOGIN

DATA CART

YOUR DATA EXTRACT

4 VARIABLES
5 SAMPLES

VIEW CART

SELECT HARMONIZED VARIABLES

HOUSEHOLD ▾

PERSON ▾

A-Z ▾

SEARCH

CHANGE
SAMPLES

☒ HARMONIZED VARIABLES

☐ SOURCE VARIABLES

[HELP](#)

[DISPLAY OPTIONS](#)

[COUNTRY ABBREVIATIONS](#)

AN "X" INDICATES THE VARIABLE IS AVAILABLE IN THAT DATASET.

+ DEMOGRAPHIC VARIABLES -- PERSON [\[TOP\]](#)

Add to cart	Variable	Variable Label	Type	AT 1971	AT 1981	AT 1991	AT 2001	AT 2011
<input checked="" type="checkbox"/>	RELATE	Relationship to household head	P	X	X	X	X	.
<input checked="" type="checkbox"/>	ERELATE	Relationship to head, Europe	P	X	X	X	X	.
<input checked="" type="checkbox"/>	AGE	Age	P	X	X	X	X	X
<input checked="" type="checkbox"/>	AGE2	Age, grouped into intervals	P	X	X	X	X	X
<input checked="" type="checkbox"/>	SEX	Sex	P	X	X	X	X	X
<input checked="" type="checkbox"/>	MARST	Marital status	P	X	X	X	X	X
<input checked="" type="checkbox"/>	EMARST	Marital status, Europe	P	X	X	X	X	X
<input checked="" type="checkbox"/>	CONSENS	Consensual union	P	X	X	X	X	.
<input checked="" type="checkbox"/>	DURMARR	Duration of current marriage or union	P	.	X	X	X	.
<input checked="" type="checkbox"/>	BIRTHYR	Year of birth	P	X	X	X	X	.

https://international.ipums.org/international-action/extract_requests/variables

3. Review data cart



IPUMS
INTERNATIONAL

IPUMS.ORG | SELECT DATA | FAQ | HELP | LOGIN

DATA CART

YOUR DATA EXTRACT

4 VARIABLES
5 SAMPLES

DATA CART

ADD MORE VARIABLES

CREATE DATA EXTRACT

ADD MORE SAMPLES

Clear Data Cart

In cart	Variable	Variable Label	Type	AT 1971	AT 1981	AT 1991	AT 2001	AT 2011
<input checked="" type="checkbox"/>	<u>COUNTRY</u>	Country <u>[preselected]</u>	H	X	X	X	X	X
<input checked="" type="checkbox"/>	<u>YEAR</u>	Year <u>[preselected]</u>	H	X	X	X	X	X
<input checked="" type="checkbox"/>	<u>SAMPLE</u>	IPUMS sample identifier <u>[preselected]</u>	H	X	X	X	X	X
<input checked="" type="checkbox"/>	<u>SERIAL</u>	Household serial number <u>[preselected]</u>	H	X	X	X	X	X
<input checked="" type="checkbox"/>	<u>PERNUM</u>	Person number <u>[preselected]</u>	P	X	X	X	X	X
<input checked="" type="checkbox"/>	<u>PERWT</u>	Person weight <u>[preselected]</u>	P	X	X	X	X	X
<input checked="" type="checkbox"/>	<u>ERELATE</u>	Relationship to head, Europe	P	X	X	X	X	.
<input checked="" type="checkbox"/>	<u>AGE</u>	Age	P	X	X	X	X	X

4. Review extract, select options, submit extract

EXTRACT REQUEST ([HELP](#))

SAMPLES:	5	(show)	Change
VARIABLES:	10	(show)	Change
DATA FORMAT:	Default (fixed-width text)		Change
STRUCTURE:	Rectangular (person)		Change
ESTIMATED SIZE:	168.7 MB		How to reduce extract size

OPTIONS

SELECT CASES

Include only specified cases (for example, persons age 60 and older).

ATTACH CHARACTERISTICS

Attach data from mother, father, spouse or household head as a new variable (for example, education of mother).

CUSTOMIZE SAMPLE SIZES

Specify the number of cases to include from each sample in your extract.

Describe your extract

Austria marriage and residence patterns 1971-2011

SUBMIT EXTRACT

5. Oops, Login! ... then submit (nothing lost!)

IPUMS



LOG IN TO IPUMS INTERNATIONAL

EMAIL ADDRESS

PASSWORD

SIGN IN

[IPUMS](#) uses a common user management system for several data projects: IPUMS International, IPUMS USA, IPUMS CPS, IPUMS Higher Ed, IPUMS NAPP, NHGIS, IPUMS Health Surveys, IPUMS Time Use, and IPUMS Terra.

If you already have an account with any of these projects, sign in here. If you've not yet registered for IPUMS International, you will be directed to the project registration page after signing in.

If you do not have an account for any IPUMS project, you may create one [here](#).

HELP

> [Forgot your password?](#)

6. Download extract (“formatted data”)



IPUMS
INTERNATIONAL

IPUMS.ORG | SELECT DATA | FAQ | HELP | LOGOUT

DATA CART
YOUR DATA EXTRACT

0 VARIABLES
0 SAMPLES

DOWNLOAD OR REVISE EXTRACTS

Use the links provided below to download a data extract (right-click the links for the data, command files, and codebook) or to revise an extract (previous extract as the basis for defining a new extract). For instructions on downloading and opening an extract on your computer go [here](#). Not be available for 72 hours, after which they are subject to deletion.

← Previous 1 2 3 4 5 6 7 Next →

Extract		Formatted	Fixed-width Text Files					Revise	Resubmit		Hide selections	
Number	Date	Data	Data	Command Files			Codebook	Extract	Extract	Description (click to edit)	Show all	
346	2017-06-06	SPSS	Data	SPSS	SAS	STATA	Basic	DDI	revise	Austria 1971-2011 Marital Status and Co-residence	<input type="checkbox"/>	
345	2017-02-23								revise	resubmit	Malawi 2008 domain errors	<input type="checkbox"/>
344	2017-02-09								revise	resubmit	Malawi with unharmonized variables	<input type="checkbox"/>
343	2017-02-08								revise	resubmit	Malawi 2008 Griff's occ2 question	<input type="checkbox"/>
342	2017-01-01								revise	resubmit	China 1990 migration married persons with spouse vars	<input type="checkbox"/>
341	2016-12-27								revise	resubmit	China 1990 migration co-resident kin	<input type="checkbox"/>
										Persons aged 0-14 with age-mom African samples		



4. How does the IPUMS microdata factory work?

Big microdata, small factory

What is IPUMS-International integration?

- **IPUMS goal –**
 - Simplify comparative analysis for all datasets**
 - but lose no meaningful information in any dataset**
- **IPUMS integration solution –**
 - Code for any single concept is the same for all datasets**
 - Simple example: “Male” = code “1” in every dataset.**
 - Write new metadata to describe, compare, and document concepts**
- **IPUMS integration method - Composite hierarchical coding**
 - First digit = general code**
 - Second and higher digits = detailed codes**
 - Complex example: EDATTAIN (next slide)**

Example: IPUMS

EDATTAN

Table 1. Identification of attainment (EDATTAN) 3-digit detailed code with frequencies for 8 European Countries

Code	Label	Austria 2001	Greece 2001	Ireland 2011	Italy 2001	Romania 2002	Spain 2001	Switzerland 2000	Ukraine 2001
000	NIU (not in universe)	135,480	60,222	117,404	160,897	223,986	9,429	61,858	249,197
100	LESS THAN PRIMARY COMPLETED	.	34,748	.	317,651	.	.	.	.
110	No schooling	.	.	.	.	78,667	473,420	12,776	341,478
120	Some primary	.	124,318	.	.	1,456	.	.	.
130	Primary (4 years)	.	.	.	.	384,871	.	.	637,966
	PRIMARY COMPLETED, LESS THAN SECONDARY								
	Primary completed								
211	Primary (5 years)	.	.	.	719,220	.			.
212	Primary (6 years)	.	300,134	51,896	.	.			.
	Lower secondary completed								
221	General and unspecified track	237,957	108,576	64,702	850,317	528,362	462,072	.	708,507
222	Technical track	.	.	.	.	.	.	.	.
	SECONDARY COMPLETED								
	General or unspecified track								
311	General track completed	34,593	213,311	123,420	600,717	122,104	199,858	77,527	1,544,92
312	Some college/university	.	.	.	19,065	7,717	.	.	.
320	Technical track	.	.	.	.	.	.	.	.
321	Secondary technical degree	342,559	19,591	.	129,727	576,739	159,802	134,987	.
322	Post-secondary technical education	14,942	46,434	15,876	10,513	56,970	114,012	27,674	782,292
400	UNIVERSITY COMPLETED	37,940	121,550	84,414	182,632	128,632	117,939	23,033	608,088
999	UNKNOWN/MISSING	.	.	16,823	.	28,463	.	26,231	16,834

Integration

Source: https://international.ipums.org/international-action/variables/EDATTAN/#codes_section

IPUMS Integrated Microdata, Metadata, & Geographies

a. Integrated Microdata -- “fitness for use”

- Harmonized variables – retain original concept, harmonize all
- Data access should maximize potential use of census data

b. Integrated Metadata

- Seven tabs: **Codes**

Description
Availability

Comparability
Questionnaire

Universe
Source variables

Codes	Description	Comparability	Universe	Availability	Questionnaire Text	Source Variables
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c. Integrated Geographies

- Administrative Level 1, 2 by name and/or boundaries
- Urban/rural

Harmonized IPUMS Variables by Topics

HOUSEHOLD CHARACTERISTICS

Geography

- First administrative level
- Second administrative level
- Urban-rural status

Dwelling

- Number of rooms
- Toilet access
- Construction materials
- Age of structure
- Living area

Utilities

- Electricity
- Water
- Sewage
- Fuel
- Heating

Amenities

- Automobiles
- Washer
- Television
- Computer
- Phone

Other

- Home or land ownership
- Number of deaths
- Number of international migrants
- Family and household composition

PERSON CHARACTERISTICS

Core Demographic

- Age
- Sex
- Marital status
- Age at marriage
- Relationship to householder

PERSON CHARACTERISTICS

Migration

- Previous residence
- Years in current locality

Fertility/Mortality

- Children ever born
- Children surviving
- Parental mortality

Nativity/Ethnicity

- Place of birth
- Country of birth
- Citizenship
- Year of immigration
- Religion
- Race
- Ethnic group
- Language spoken
- Mother tongue

Education

- School attendance
- Literacy
- Educational attainment
- Years of schooling

Labor Force

- Employment status
- Occupation
- Industry
- Class of worker
- Hours worked
- Total income
- Wage and salary income
- Source of livelihood

Disability

- Disability status
- Type of disability
- Cause of disability

Table 2. IPUMS Integrated variable: Employment Status (EMPSTAT) - Detailed Codes, Case Count View 13 Selected Samples

	ISO 3166 Country Code	AR	BD	BR	CN	FR	IN	ID	IR	MX	ZA	ES	US	VN	
Code	Label	Year	2010	2011	2010	1990	2011	2004	2010	2006	2010	2011	2011	2010	2009
0	NIU (not in universe)		942,445	1,117,354	1,509,860	3,264,675	3,602,198	59,373	4,587,786	214,837	3,069,677	1,624,114	617,249	608,035	3,746,089
	ACTIVE (in labor force)														
100	EMPLOYED, not specified			2,123,058		6,775,149						1,087,397	1,483,557		
110	At work		1,829,108		3,879,619		8,466,104	226,309	10,272,827	339,173	3,630,588			1,334,219	7,890,417
111	At work, and 'student'										55,032				
112	At work, and 'housework'										201,360				
113	At work, and 'seeking work'										26,020				
114	At work, and 'retired'										11,943				
115	At work, and 'no work'														
116	At work, and other situation										61,373				
117	At work, family holding, not specified														
118	At work, family holding, not agricultural														
119	At work, family holding, agricultural														
120	Have job, not at work in reference period		36,731		156,006			2,901	257,792	21,262	32,411			29,871	45,629
130	Armed forces														
131	Armed forces, at work													9,630	
132	Armed forces, not at work in reference period													101	
140	Marginally employed														
200	UNEMPLOYED, not specified		117,251	56,753	610,371	61,553	1,299,284	10,672	287,300	62,495	183,725	473,897		155,203	56,105
201	Unemployed 6 or more months														
210	Unemployed, experienced worker												512,715		
220	Unemployed, new worker												77,860		
230	No work available											270,019			61,460
240	Inactive unemployed							1,138	1,026,714						
300	INACTIVE (not in labor force)		1,040,710	2,057,472	3,537,202				7,170,630			963,167		924,633	
310	Housework			1,851,082		729,891	640,366	105,647		305,437	2,489,602				557,280
320	Unable to work/disabled					295,175					147,608				151,033
321	Permanent disability							4,876					55,338		
322	Temporary illness							539							
323	Disabled or imprisoned														
330	In school					436,317	1,659,383	155,130		222,874	1,392,779				816,753
340	Retirees and living on rent							6,662			122,859		932,051		
341	Living on rents														
342	Living on rents or pension									55,332					
343	Retirees/pensioners														
344	Retired					230,000	4,177,059								
350	Elderly														
351	Elderly or disabled														
360	Institutionalized														
361	Prisoner														
370	Intermittent worker														
380	Other income recipient														
390	Inactive, other reasons					43,187	696,943	29,586		65,781	445,779				5,359
391	Too young to work														
392	Dependent														
999	UNKNOWN/MISSING			1						12,634	67,64				32,047

Codes: EMPSTAT

Source: https://international.ipums.org/international-action/variables/EMPSTAT#codes_section. Note: Illustrative only. Some codes omitted for brevity.Integrated
Microdata

Comparability — Argentina [[top](#)]

The 1970 census asks what the person did during "the greater part of the week", specifically during "four normal work days". This definition may under-report labor force participation in comparison to later years. The 1980 sample asks simply what the person did last week, and the work responses are listed first on the form. The 1991 and 2001 samples are more specific, since they consider any economic activity performed in the previous week as work.

The 2010 census asked whether each person had worked at least one hour in the week prior to the census. Persons who reported doing informal work in the last week were considered as "at work." Persons who did not report having work in the last week were asked whether they had looked for work in the past 4 weeks; if so, they were considered unemployed rather than inactive.

The 1970 and 1980 samples distinguish experienced workers from new workers, defined as persons seeking work for the first time.

The 2001 sample includes more detail in the unharmonized source variable, differentiating between persons who are both retired and in school and among different kinds of unemployed persons.

The age universe for the question rose from age 10 or older in the 1970 sample, to age 14 or older in subsequent years.

Comparability — Armenia [[top](#)]

Employed persons are those who worked one hour or more during the reference week. Unemployed persons are those who were actively seeking a job at the time of the census.

Comparability — Austria [[top](#)]

**Integrated
Metadata**

Value added: Household technical variables (including official or IPUMS household weights)



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SELECT HARMONIZED VARIABLES

HOUSEHOLD ▾

PERSON ▾

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SEARCH

CHANGE
SAMPLES

- ☒ HARMONIZED VARIABLES
☐ SOURCE VARIABLES

[HELP](#)
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[COUNTRY ABBREVIATIONS](#)

AN "X" INDICATES THE VARIABLE IS AVAILABLE IN THAT DATASET.

TECHNICAL HOUSEHOLD VARIABLES -- HOUSEHOLD [TOP]									
Add to cart	Variable	Variable Label	Type	AT 1971	AT 1981	AT 1991	AT 2001	AT 2011	
	RECTYPE	Record type	H	X	X	X	X	X	
	COUNTRY	Country [preselected]	H	X	X	X	X	X	
	YEAR	Year [preselected]	H	X	X	X	X	X	
	SAMPLE	IPUMS sample identifier [preselected]	H	X	X	X	X	X	
	SERIAL	Household serial number [preselected]	H	X	X	X	X	X	
	PERSONS	Number of person records in the household	H	X	X	X	X	X	
	HHWT	Household weight	H	X	X	X	X	X	
	SUBSAMP	Subsample number	H	X	X	X	X	X	
	HHDONATE	Donated household	H	X	X	.	X	.	
	STRATA	Strata identifier	H	X	X	X	X	X	

Value added: Person technical & constructed variables (including official or IPUMS weights)

<u>Add to cart</u>	Variable	Variable Label	Type	AT 1971	AT 1981	AT 1991	AT 2001	AT 2011
<input checked="" type="checkbox"/>	<u>PERNUM</u>	Person number <u>[preselected]</u>	P	X	X	X	X	X
<input checked="" type="checkbox"/>	<u>PERWT</u>	Person weight <u>[preselected]</u>	P	X	X	X	X	X

++ CONSTRUCTED FAMILY INTERRELATIONSHIP VARIABLES -- PERSON (GROUP CONTINUED ON NEXT PAGE...) [TOP]

<u>Add to cart</u>	Variable	Variable Label	Type	AT 1971	AT 1981	AT 1991	AT 2001	AT 2011
<input type="checkbox"/>	<u>MOMLOC</u>	Mother's location in household	P	X	X	X	X	.
<input type="checkbox"/>	<u>POPLOC</u>	Father's location in household	P	X	X	X	X	.
<input type="checkbox"/>	<u>SPLOC</u>	Spouse's location in household	P	X	X	X	X	.
<input type="checkbox"/>	<u>PARRULE</u>	Rule for linking parent	P	X	X	X	X	.
<input type="checkbox"/>	<u>SPRULE</u>	Rule for linking spouse	P	X	X	X	X	.
<input type="checkbox"/>	<u>STEPMOM</u>	Probable stepmother	P	X	X	X	X	.
<input type="checkbox"/>	<u>STEPPOP</u>	Probable stepfather	P	X	X	X	X	.
<input type="checkbox"/>	<u>POLYMAL</u>	Man with more than one wife linked	P	X	X	X	X	.
<input type="checkbox"/>	<u>POLY2ND</u>	Woman is second or higher order wife	P	X	X	X	X	.
<input type="checkbox"/>	<u>FAMUNIT</u>	Family unit membership	P	X	X	X	X	.
<input type="checkbox"/>	<u>FAMSIZE</u>	Number of own family members in household	P	X	X	X	X	.
<input type="checkbox"/>	<u>NCHILD</u>	Number of own children in household	P	X	X	X	X	.
<input type="checkbox"/>	<u>NCHLT5</u>	Number of own children under age 5 in household	P	X	X	X	X	.

Integrated geographies

93
71



PROJECT

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IPUMS GEOGRAPHY OVERVIEW

IPUMS provides geographic information to facilitate cross-temporal and cross-national comparative analyses. Multiple census years are available for most countries in the database, and geography variables are harmonized taking into consideration changes in administrative boundaries over time.

GIS BOUNDARY FILES DOWNLOAD

IPUMS boundary files (shapefiles) facilitate subnational, national and international data mapping. The attribute data in all shapefiles corresponds to a specific geographic variable in the IPUMS International microdata for mapping purposes.

LIST OF ALL GEOGRAPHY VARIABLES

A comprehensive table that lists geography variables across all the countries in the IPUMS database. The table lists spatially harmonized and year-specific geography variables as well as map (JPEG) images for all mappable geography variables.

**Integrated
Geography**

Outline: IPUMS-International: Big, Integrated Population Microdata for Russia?, Europe and the World

1. IPUMS-International: the first 18 years

- ❖ From 7 countries (2001) to 85 (2017) and beyond (funded through 2020)

2. What is IPUMS-International used for? bibliography.ipums.org

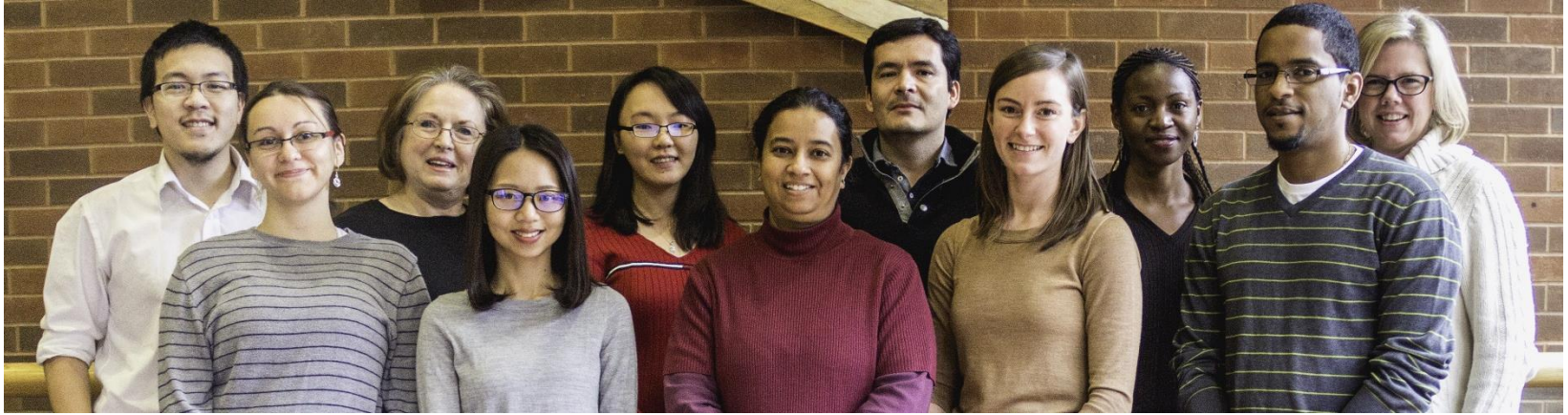
- ❖ ~1500 citations; search by country, topic, and/or keyword

3. How do you get data?

4. How does the IPUMS microdata factory work?

5. 6 IPUMS secrets

- ❖ Help
- ❖ Revise and resubmit an extract
- ❖ Tabulator: analyze data online
- ❖ Teaching with IPUMS – special features for group work
- ❖ Attach characteristics for Mother, Father, Spouse, Householder
- ❖ Unharmonized variables – if you don't trust IPUMS integration!



Thank you!

international.ipums.org