

Public Domain Tools for Enhancing the Quality, Timeliness and Analysis of Data for the 2020 Census Round

Oliver P. Fischer
International Programs
Population Division
U.S. Census Bureau

This presentation is intended to inform interested parties of ongoing work at the U.S. Census Bureau. Any views expressed on statistical, methodological, technical, or operational issues are those of the presenter and not necessarily those of the U.S. Census Bureau.

Outline

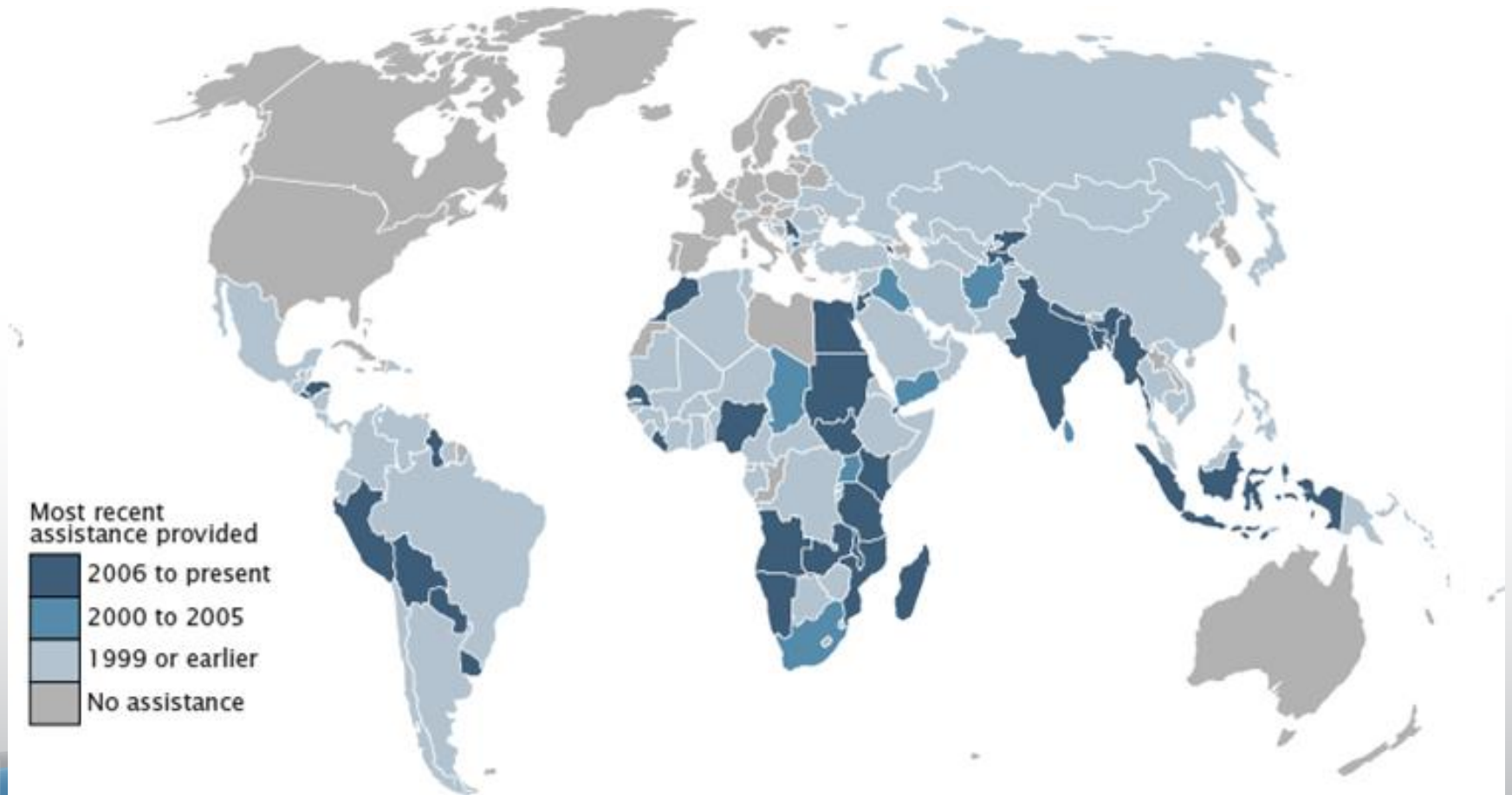
- U.S. Census Bureau's International Programs Overview
- Tool for Assessing Statistical Capacity (TASC)
- Census and Survey Processing System (CSPPro)
- Demographic Analysis and Population Projection System (DAPPS)

What We Do

Promote international development and capacity building on a reimbursable basis through

- Technical assistance
- Training
- Demographic and economic research
- Software and methodological tools development

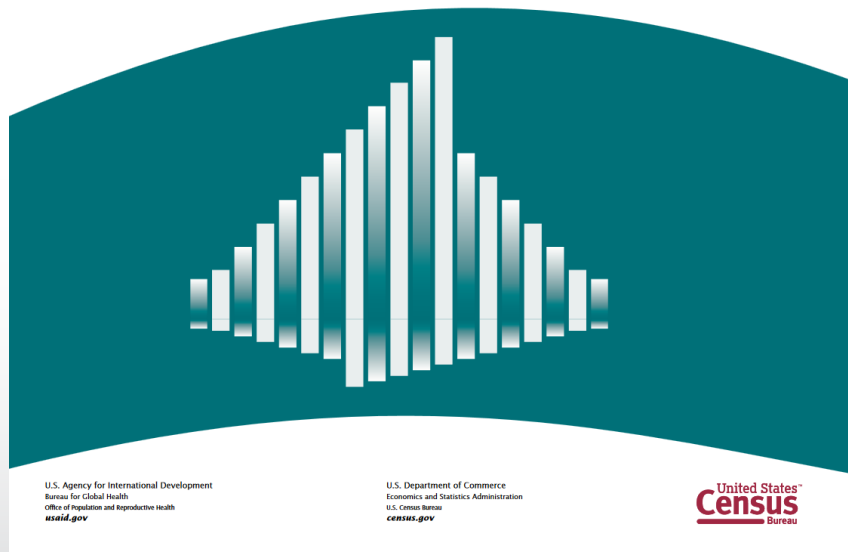
Where We Have Worked



Tool for Assessing Statistical Capacity (TASC)

Tool for Assessing Statistical Capacity (TASC)

Version 1.0

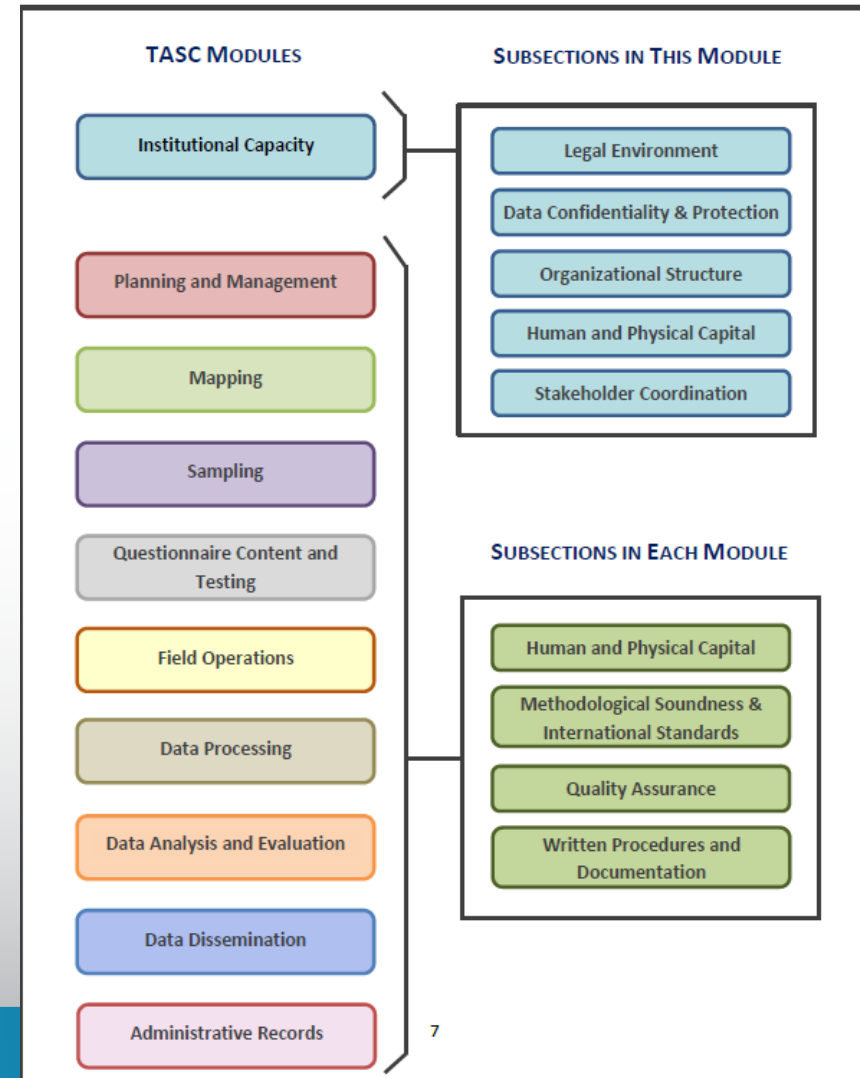


What is the TASC?

The TASC is designed to provide quantitative measurements highlighting areas of strength and weakness of an NSO to conduct a high quality population and housing census or recurring household based survey.

TASC Administration

- TASC divided into ten modules
 - One institutional capacity
 - Eight – operational
 - One – optional administrative records
- Utilizes participatory approach



TASC Administration

TASC results can be utilized to:

- Identify areas of strengths and weaknesses of an NSO
- Effectively target strategic capacity building initiatives
- Assess effectiveness of technical support by comparing pre and post-support TASC measurements

Armenia



Malawi





Census and Survey Processing System (CSPro)

What is CSPro?

Public domain tool widely utilized throughout the world to process census and survey data.



- Data Capture

- Enter and verify data, with sophisticated control over skips and consistency checks



- Batch Editing

- Apply logic to edit data to ensure consistency



- Tabulation

- Create tables from data

CSPro Data Entry Features

- Develop and test on Windows
- Target multiple platforms
 - Android support since 2014  
- Multiple languages
 - Unicode support since 2012
- Tightly controlled path
- Powerful programming language
- Data synchronization

CSPro Android Utilization in the 2020 Round

- Lesotho, 2016 (pop ~ 2.1M)
- Ethiopia, 2017 (pop ~ 100M)
- Cameroon, 2017 census (pop ~24M)
- Malawi, 2018 (pop ~18M)
- The census list is growing quickly

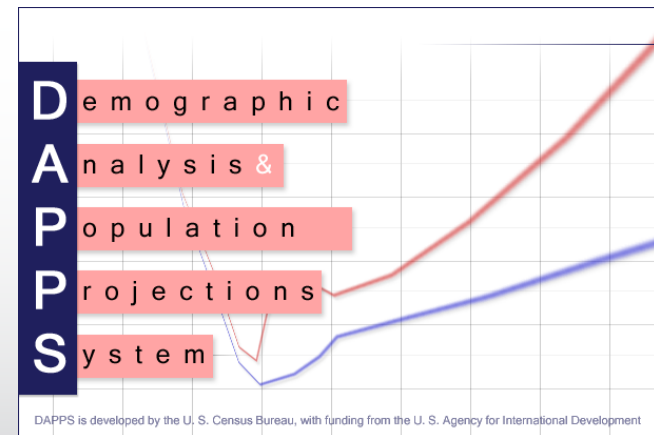




Demographic Analysis and Population Projections System (DAPPS)

What is DAPPS?

- A U.S. Census Bureau developed software package designed to help users produce and analyze population projections
- Modernization of widely utilized PAS and RUP
- DAPPS 2.0 released in 2014
- DAPPS 3.0 released in 2017



Why DAPPS?

- Vision: Gold standard tool to assist users with varying levels of capacity to produce population estimates and projections
- One-stop shop for analysis and projections
- Intuitive and user-friendly interface
- Enhanced and modernized outputs

Thank you!

<https://www.census.gov/population/international/software/>