

# Geographic Partnerships In Support of the 2020 Census

U.S. Census Bureau, Geography Division  
SDC/CIC Annual Training Conference  
June 3, 2015

# Agenda

- **Geographic Program Schedule**
- **Geographic Updates Partnership Software (GUPS)**
- **Local Update of Census Addresses (LUCA)**
- **Geographic Support System Initiative (GSS-I)**
- **Boundary and Annexation Survey (BAS)**
- **Boundary Quality Assessment and Reconciliation Project (BQARP)**

# Geographic Programs

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# High Level Schedule

- Redistricting Block Boundary Suggestion Project (BBSP)
  - Materials available to states in December 2015
  - Verification in December 2016
- Redistricting Voting District Project (VTD)
  - Materials available to states in December 2017
  - Verification in December 2018
- Boundary and Annexation Survey (BAS)
  - Annual response in December and January of each year
  - Submit material through May
- Local Update of Census Addresses (LUCA) Program
  - Invitation Fall of 2017
  - Materials Available Winter 2018
  - Feedback shipped Summer 2019
- School District Review Program (SDRP)
  - Every two years with states
- Participant Statistical Areas Program (PSAP) and Tribal Statistical Areas Program (TSAP)
  - In planning materials available to December 2018
- Boundary Validation Program (BVP)
  - Highest Elected Officials initial notification January 2020
  - Final review of BAS 2020 May or June 2020

# Geographic Update Partnership Software (GUPS)

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# GUPS Program Interfaces

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GUPS will support updates to the following geographic programs:

- Redistricting Block Boundary Suggestion Project (BBSP)\*
- Redistricting Voting District Project (VTD)\*
- Boundary and Annexation Survey (BAS)
- Local Update of Census Addresses (LUCA) Program\*
- School District Review Program (SDRP)
- Participant Statistical Areas Program (PSAP)\*
- Tribal Statistical Areas Program (TSAP)\*
- Boundary Validation Program (BVP)
- New Construction Project (NC)
- Public Use Micro-data Area (PUMA) Program
- Traffic Analysis Zone (TAZ)/Traffic Analysis District (TAD) Program
- 2020 Census Count Question Resolution (CQR) Program

**\*Program requires a GUPS interface as well as verification or feedback interface**

# GUPS Project Scope

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- To provide a common geographic update tool, with shared core functionality, that will allow over 40,000 tribal, state, and local governments to submit digital updates for geographic programs.
- To make geographic program participation more convenient for participants and for the Census Bureau by offering the following electronic tools for Census Bureau geospatial and tabular data:
  - Viewing
  - Updating
  - Correcting
  - Verifying

# Community TIGER

Brian Timko

Chief, Geography Division

# What is Community TIGER?



- Address and spatial data management and exchange tool for each government in the United States
  - Currently, no one system solution that also allows partner involvement
  - Different missions
  - Different formats
  - Varying positional and temporal accuracies
  - Inconsistent attribution
  - Over/under geographic coverage

# Local Update of Census Addresses (LUCA)

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# 2020 LUCA Improvement Research

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- To develop potential alternative designs for LUCA 2020 based on research by four subteams
  - Looking Back at 2010 (assessments, surveys, lessons learned)
  - Geographic Support System Initiative's (GSS-I) impact on LUCA (utilizing address data, software and processes for LUCA)
  - Reengineered address canvassing's impact on LUCA (in-office validation)
  - Focus Groups

# Current Activities/Next Steps

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- In-office validation processes, procedures and tools development.
  - Current small scale testing with the In-Office Verification Group (consisting of Non-ID, LUCA and In-Office Canvassing staff)
  - Larger test using partner supplied addresses prior to the 2017 Census Test, and comparing the results to the Address Canvassing results
  - Define relationship between Administrative Records and LUCA and determine whether Administrative Records can be used as an independent source of validating LUCA submitted addresses
- Define relationship between Address Canvassing and LUCA, taking into consideration the timing of LUCA feedback and the appeals operation.

# Current Activities/Next Steps (continued)

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- Determine the feasibility of implementing technical recommendations for 2020 LUCA.
- Develop and Test LUCA component of the Geographic Update Partnership Software (GUPS software)
- Determine feasibility of using areas where we have planned field activities to validate LUCA records
- Work with OMB to develop a 2020 LUCA Appeals process.
- Determine the relationship between late decade GSS-I and LUCA.

# Boundary Activities

Boundary and Annexation Survey (BAS)

and

Boundary Quality Assessment  
and Reconciliation Project (BQARP)

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# 2015 BAS – What's New?

- Digital-only updates and submissions
- Secure Web Incoming Module
  - <https://respond.census.gov/swim>
- BAS training and informational videos
  - [http://www.census.gov/geo/partnerships/bas/bas\\_videos.html](http://www.census.gov/geo/partnerships/bas/bas_videos.html)
- New processing review and update methods



# 2016 BAS – What's Different?

- Geographic Update Partnership Software (GUPS) tool replaces the MAF/TIGER Partnership System (MTPS) tool
- The return of BAS paper maps
  - Minor updates to design
  - PDF available online
- Redistricting Data state contacts may submit boundary corrects for reconciliation with BAS contacts
- Research the redesign of the BAS forms
  - Implement new design in BAS 2017

# BQARP – Summary

- Review spatial data sources as well as legal documents and descriptions to assess and analyze the MAF/TIGER Database (MTDB) corrections
- Compare locally sourced data to Census boundaries and adjust where necessary
- Coordinate effort with State partners
- Improve the spatial quality of legal and administrative boundaries within the MTDB
  - Set the boundaries spatial accuracy
  - Lock the boundaries so unsupported reshape doesn't occur

# BQARP – Status



- Complete updates for Montana and Utah
- Assess and process updates for Arizona, New Jersey, New Mexico, Oregon, Virginia, North Carolina, Washington and Federal Public Lands
- Establish list of target States for 2016 and contact State partners

# Questions?