Puerto Rico Address Data

Working Group (PRADWG)

A discussion of “Phase 3 Report: Data Goals and Needs for Federal Agencies in the Use and Management of Puerto Rico Address Data”

Presentation for the PRAWG - December 9, 2020

Puerto Rico Address Data Working Group (PRADWG)
The Initiative for Civic Address Systems Assessment In Puerto Rico

PRCAVE & PRADOS Addressing Initiatives
Our Objectives

- Create openly available datasets of standardized addresses for Puerto Rico.
- Provide municipios with cloud-based tools to certify “authoritative” data.
- Share authoritative data with Federal agencies.
Address Governance

- By law, 78 “municipios” are the authoritative source.
- There is a need for capacity building at the local level.
- In 2021, leadership changes expected. Include bottom-up design to ensure sustainability.

TOPIC 1: Puerto Rico Address Data Objectives

“...the optimum state of Puerto Rico address data is to have a physical address for every building and location, linked to parcel data.”
BLUE represents the the **Partido Nuevo Progresista (PNP)**, RED the **Partido Popular Democratico (PPD)**, and YELLOW municipios still processing results.
Federal action needs

- Revise websites to require PR urbanization names for ZIP Codes 006-007 and 009.
- Change paper forms to include Urb. names.
- Improve existing federal datasets before addressing changes in Puerto Rico begin.

TOPIC 2: Improvements to existing challenges

“Because there are so many streets with the same name (Calle 1, for example) within a municipio, having a field for Urbanización/ Neighborhood would be helpful.”
US Postal Service websites add an urbanization field when detecting the user has an address from Puerto Rico.
TOPIC 3: Goals and needs for existing challenges

“...the most important data goals and needs are for standardized, unique (non-duplicative), locatable, locally sourced, and island-wide data...”

- Federal action needs
- Low percentage of geocoded data in Federal agencies.
- In general, Puerto Rico’s population do not use addressing standards.
- Encourage agencies to use software certified specifically for Puerto Rico addresses.
CASS™ Quality Certification
for
Address Matching Software

This certified software performs the following functions:
ZIP + 4" Delivery Point Code  Five-Digit Carrier Route

MANUFACTURER

Configuration: STD
Platform: W32

This certificate is valid 07/2011 thru 07/31/2013 for the following areas:

PUERTO RICO

James O. Wilson
Manager
Address Management
Federal action needs

- Importance of capacity building for federal agencies.
- Need for Puerto Rico local agencies to use standards.
- Including urbanization field in Federal agencies forms and websites will improve addresses from PR.

“Initiate standardized training programs for all agencies that may assist developers and business users to properly enter, correct and collect addresses.”
One house... multiple addresses.

Urb Alturas de Sans Souci
Calle 1 #A1
Bayamón, P.R. 00957

Calle 1 A1 Urb. Sans Souci
Bayamón, P.R. 00957

Als de Sans Souci
Calle 1 A1
Bayamón, P.R. 00957

A1 #1 Urb. Sans Souci
Bayamón, P.R. 00957

Calle 1 #A1
Alturas de Sans Souci
Bayamón, P.R. 00957

Calle 1 #A1 Sans Souci
Bayamón, P.R. 00957

Calle 1 A1
Alts de Sans Souci
Bayamón, P.R. 00957

A1 Casa 1 Calle 1 Sans Souci
Bayamón, P.R. 00957

Alturas de Sans Souci
Calle 1 Blq. A Casa 1
Bayamón, P.R. 00957

Urb Alturas de Sans Souci
A1 1 Street
Bayamón, P.R. 00957

Calle 1 A1
Bayamón, P.R. 00957

A1 Casa 1 Calle 1 Sans Souci
Bayamón, P.R. 00957

Alturas de Sans Souci
Calle 1 Blq. A c/1
Bayamón, P.R. 00957

Sans Souci
Calle 1 #A1
Bayamón, P.R. 00957

Calle 1 A1
Bayamón, P.R. 00957

A1 C/1 Sans Souci
Bayamón, P.R. 00957

Sans Souci
1 Street A1
Bayamón, P.R. 00957
Local address practices

“Urbanization” names are part of the local culture.

Changing repeated street names while preserving the URB name is a doable goal.

Urbanization name, like building names, can be optional information.

**Conclusion**: 1. Perspectives about the future

“Ideally, Puerto Rico should completely revise their addressing system to eliminate urbanizacións and building name (for example, Edificios) addresses without street addresses.”
# City Style Address Formats

## City Formats

<table>
<thead>
<tr>
<th>Format</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Lines</td>
<td>471,607</td>
<td>33%</td>
</tr>
<tr>
<td>2 Lines</td>
<td>141,901</td>
<td>10%</td>
</tr>
<tr>
<td>Building</td>
<td>150,519</td>
<td>11%</td>
</tr>
<tr>
<td>Urb St. Name</td>
<td>7,651</td>
<td>1%</td>
</tr>
</tbody>
</table>

### Postal Rural
- **URB AVANTI**
  - 58 CALLE 4
  - BAYAMON PR 00961-3305

### Postal Boxes
- **COND CRISTAL**
  - 123 AVE MATADOR STE 250
  - SAN JUAN PR 00909-6633

### Alphanumeric
- **URB AVANTI**
  - PONCE PR 00716-2121

## Other Formats

<table>
<thead>
<tr>
<th>Format</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postal Boxes</td>
<td>314,060</td>
<td>22%</td>
</tr>
<tr>
<td>Postal Rural</td>
<td>341,442</td>
<td>24%</td>
</tr>
<tr>
<td>PO BOX 346904</td>
<td>217,488</td>
<td>15%</td>
</tr>
<tr>
<td>CALLE A</td>
<td>6,598</td>
<td>0.46%</td>
</tr>
</tbody>
</table>

### US Postal Service Regions

- **SFC 006**
- **SFC 007**
- **SFC 009**

### Sources
- iCasaPR

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Initiative for Civic Address System Assessment in Puerto Rico

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Need for Support

- Currently, municipios cannot access funds to finance existing addressing projects.
- Several ongoing addressing projects stopped due to lack of funding to finance low cost items like street signs.

Conclusion: 2. Perspective about the future

“The bottom line is that there is no comprehensive addressing plan for Puerto Rico, and it must be developed. Anything else is a band-aid.”
<table>
<thead>
<tr>
<th>MUNICIPALITY</th>
<th>TOTAL RECORDS</th>
<th>PERCENTAGE %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAGUAS</td>
<td>13,300</td>
<td>3.60%</td>
</tr>
<tr>
<td>SAN SEBASTIAN</td>
<td>9,673</td>
<td>2.63%</td>
</tr>
<tr>
<td>HUMACAO</td>
<td>8,845</td>
<td>2.59%</td>
</tr>
<tr>
<td>JUANA DIAZ</td>
<td>8,493</td>
<td>2.49%</td>
</tr>
<tr>
<td>BAYAMON</td>
<td>8,355</td>
<td>2.45%</td>
</tr>
<tr>
<td>TOA ALTA</td>
<td>8,162</td>
<td>2.39%</td>
</tr>
<tr>
<td>AGUADA</td>
<td>8,031</td>
<td>2.35%</td>
</tr>
<tr>
<td>HATILLO</td>
<td>8,021</td>
<td>2.35%</td>
</tr>
<tr>
<td>NARANJITO</td>
<td>7,993</td>
<td>2.34%</td>
</tr>
<tr>
<td>CAMUY</td>
<td>7,875</td>
<td>2.31%</td>
</tr>
</tbody>
</table>
Preliminary work needs

- Most federal agencies achieve less than 25% location accuracy for PR addresses.
- Mailers in Puerto Rico achieve over 97% data accuracy for their mailing addresses.
- PR vendors do not have easy access to Federal agencies.

Conclusion: 3. Perspective about the future

“Not having accurate data on housing units location/address delays all recovery projects...”
Puerto Rico

City Style vs Rural Residential Addresses

US Postal Service Residential Deliveries
1,069,997

68%
689,025
USPS City Style Addresses

32%
323,349
USPS Rural Style Addresses

905,377
Rural Addresses - Est. Pop.

153,504
PO Box Residential Addresses

Total Population (ACS)
3,386,941

Rural Routes by Municipio
- Over 60%
- 40% - 60%
- Less than 40%

PUERTO RICO

323,349
USPS Rural Style Addresses

Rural Routes by Municipio
- Orange: Over 60%
- Light Orange: 40% - 60%
- Light Blue: Less than 40%

32%

905,377
Estimated Population
A Simple Vision: One House... One Address.

OUR MISSION

iCasaPR is a 501(c)(3) organization created after Hurricane Maria to improve the address infrastructure of Puerto Rico and to inspire breakthroughs in the way we tackle the issue of “data invisibility” affecting communities.

OUR VISION

Our vision to enhance Puerto Rico’s address infrastructure to help the process of reconstruction, improve the response of aid and emergency services, and foster a more dynamic and resilient future for the Island.

iCasaPR Initiative for Civic Address Systems Assessment in Puerto Rico

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THANKS!

Any questions?
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