

EMBRACING *Change* AND ACHIEVING *Success* FOR ALL



Mobile Point-in-Time Count Survey Development

Ashley Wynn, HMIS Manager, Tampa
Hillsborough Homeless Initiative
Zak Miller, Co-Founder, Hyperion Data LLC

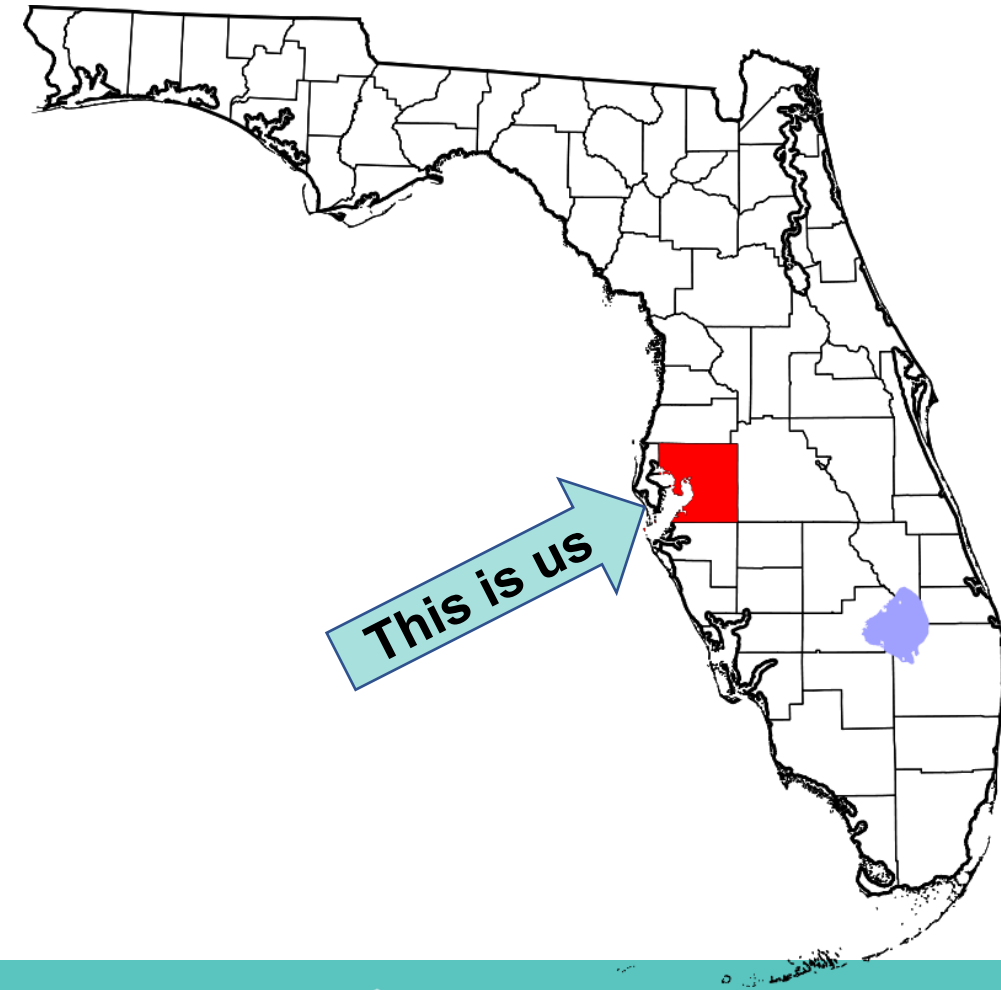


October 9-11, 2019 • Rosen Centre Hotel • Orlando, FL

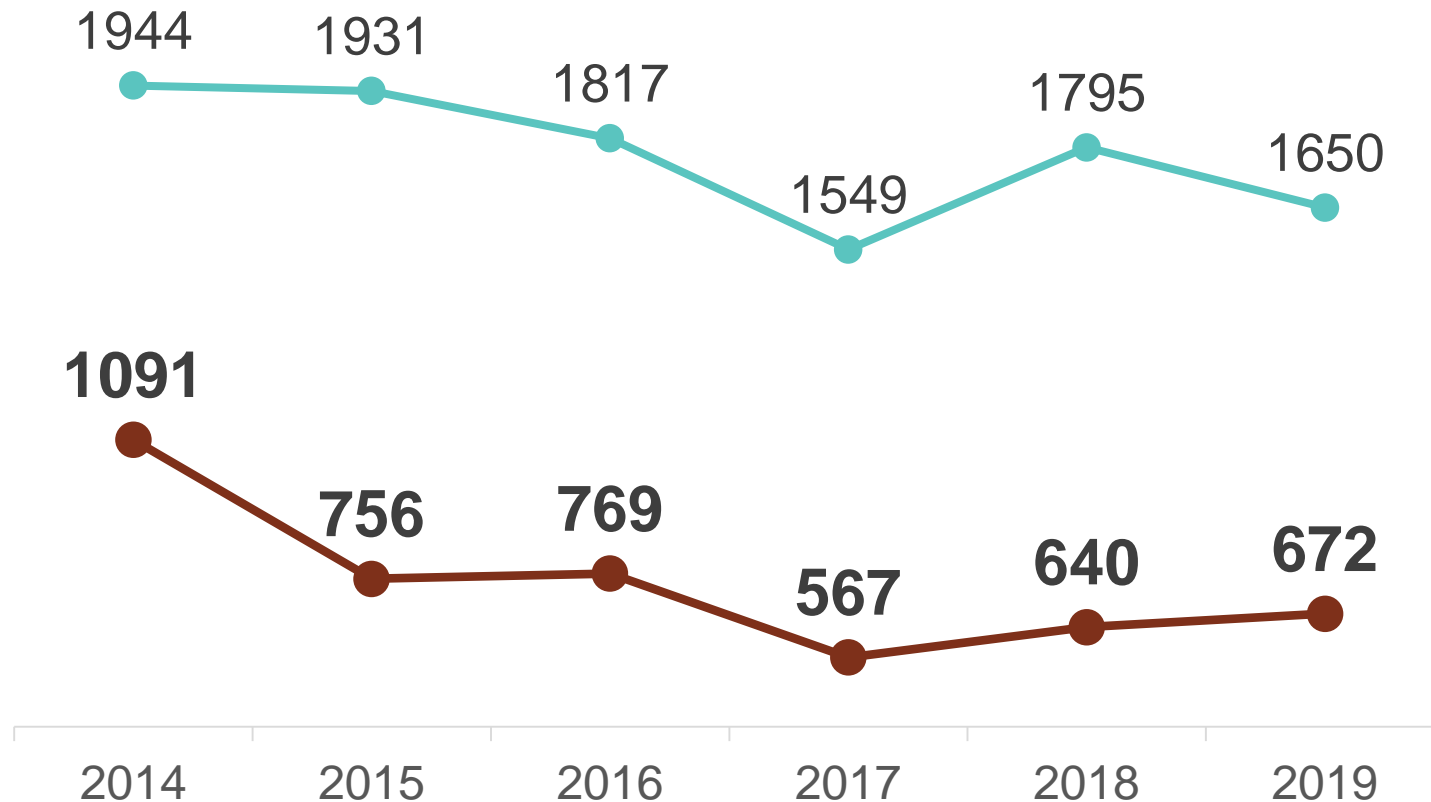
www.fchonline.org

Community Profile: Tampa/Hillsborough County CoC

- Geography: **Hillsborough County, Florida**
- Area: **1,266 square miles**
- Population: **1.409 million people**
- Poverty Rate: **15.7%**
- CoC & HMIS Lead and Collaborative Applicant: **Tampa Hillsborough Homeless Initiative**
- 2018 CoC Award Amount: **\$6,347,400**
- 2019 PIT Count: **1,650**



Tampa/Hillsborough County PIT Count



Tampa/Hillsborough County CoC PIT Count Total and Unsheltered Count from 2014 to 2019

● Total Count
● Unsheltered Count

Point-in-Time Count Methodology

PIT Count Methodology



Sheltered Count:

- HMIS Data
- Some Provider Level Surveys

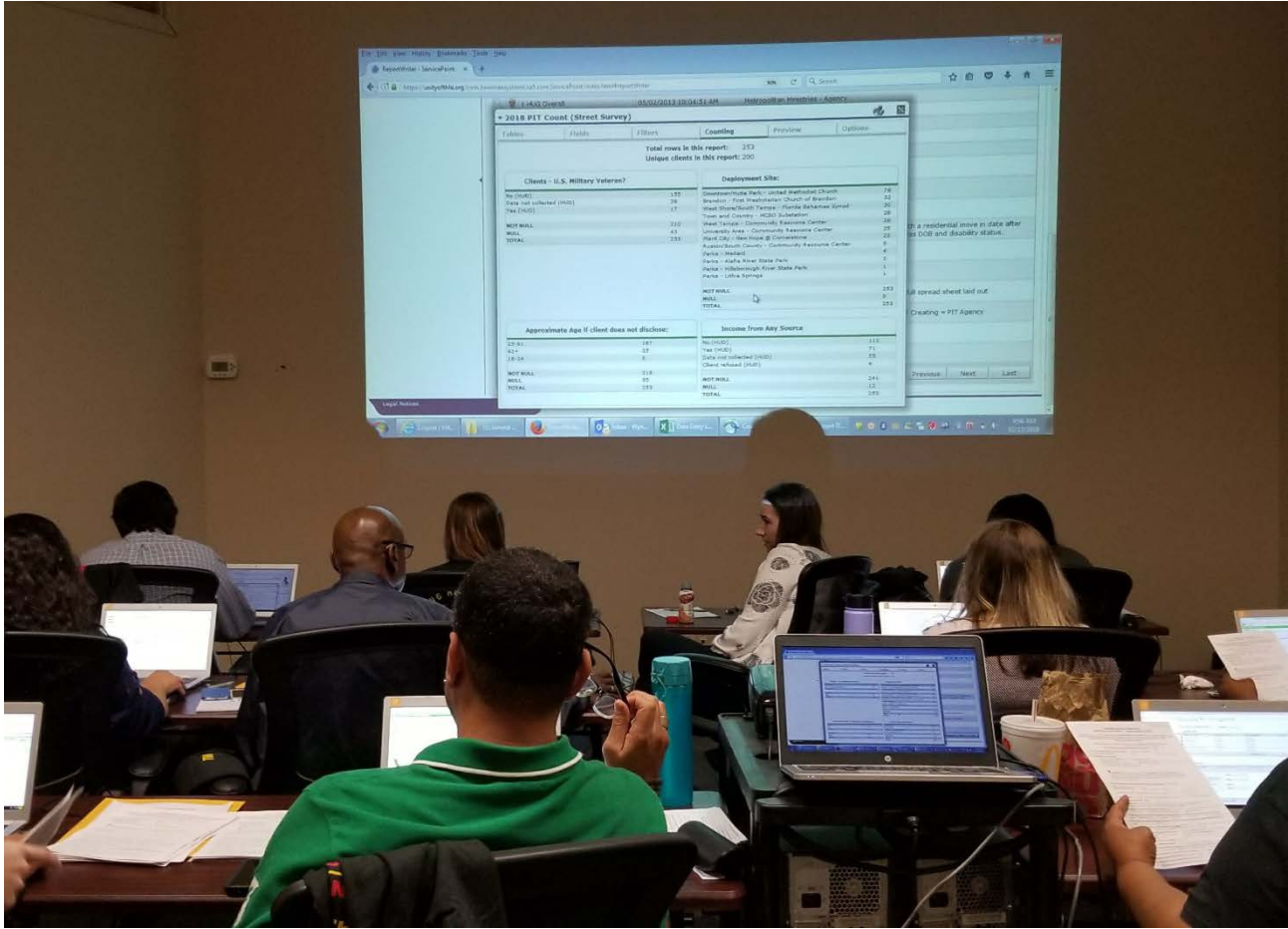
Unsheltered Count:

- Street Count (Complete Census)
- Service-based Count
- HMIS Data





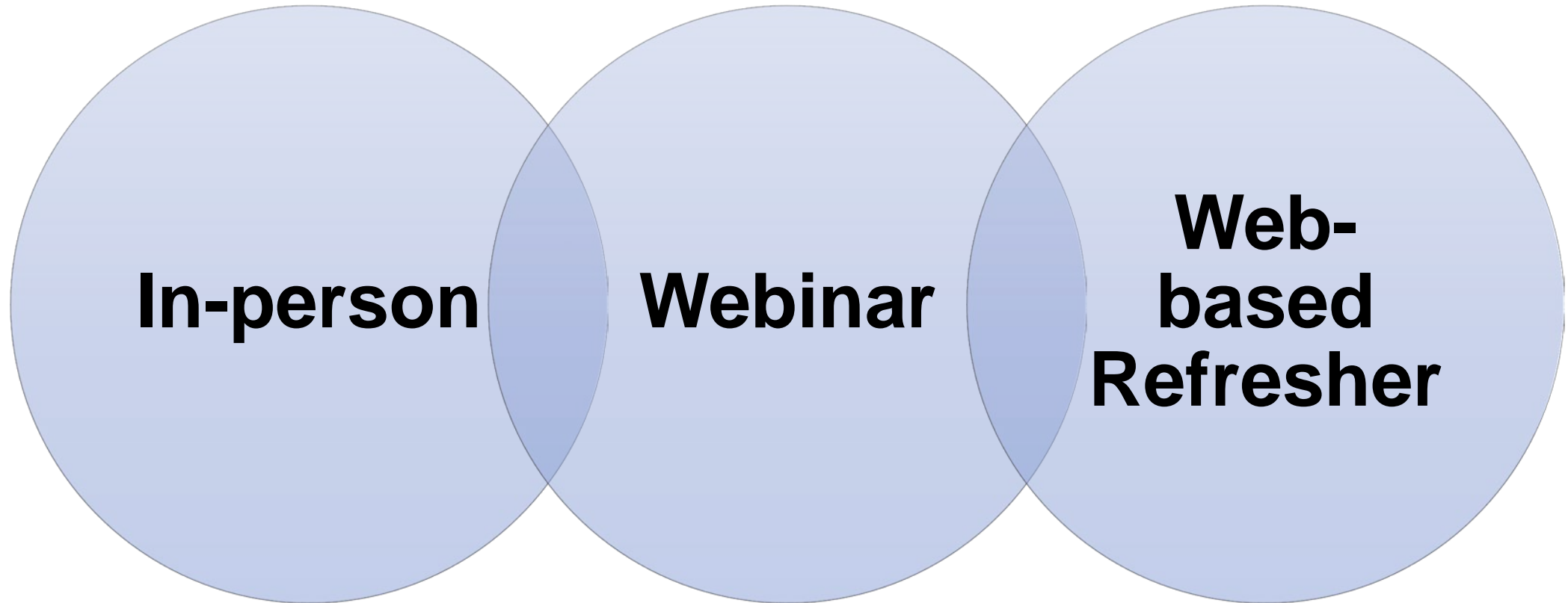
2018 Street Count
Volunteers



2018 Data Entry
Lab

EMBRACING *Change* AND
ACHIEVING *Success* FOR ALL

Volunteer Training Options



Why an Electronic PIT Survey?

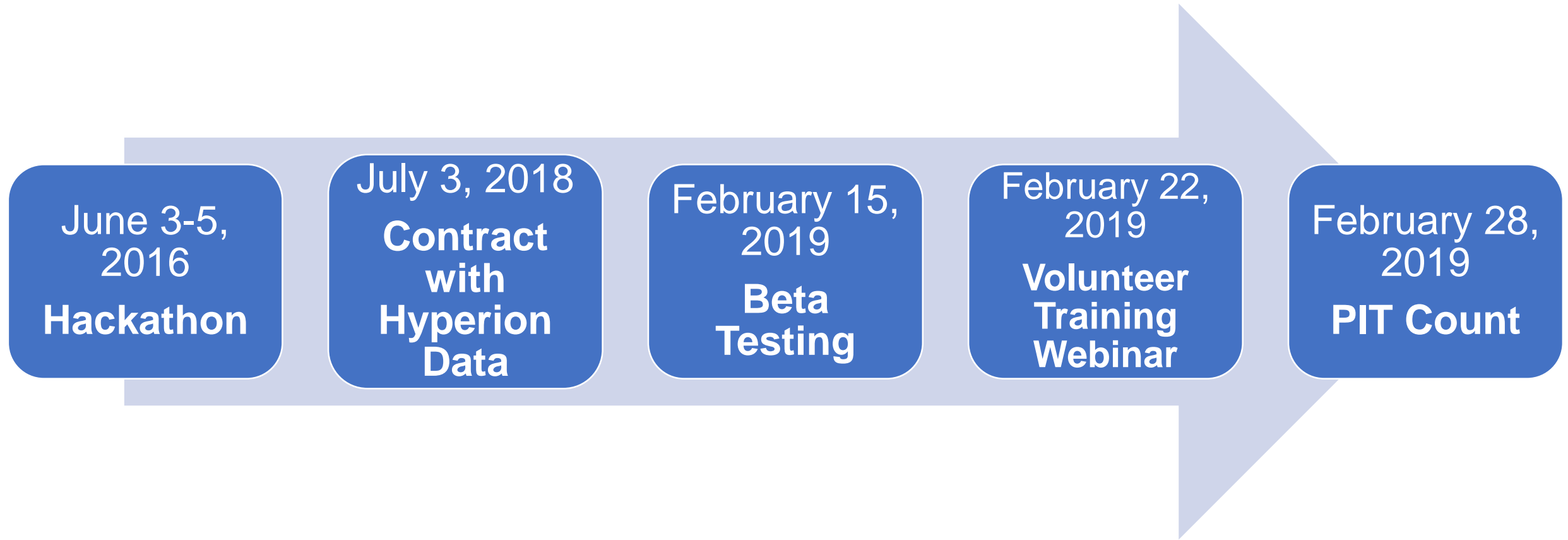
- Save time and volunteers needed for data entry
- Improve data quality & access to real-time results
- Capture more accurate encampment location information
- Save trees!

Initial Reservations

- Would volunteers be open to using their personal devices and data for this purpose?
- Would we create barriers to volunteer participation?
- How would persons being surveyed perceive the use of personal devices?

Development Process

Development Timeline



Homeless Solutions Hackathon

“Gimme Shelter” themed CodaPalooza event June 3-5, 2016

- In conjunction with 2016 National Day of Civic Hacking
- Held by Tampa Innovation Partnership and Code for Tampa Bay
- Teams of two or more developers
- Chose from 10 modules addressing homelessness
- Competed to develop technology-based solutions

More info:

<https://tampainnovation.com/2019/03/13/codapalooza-leads-to-improvements-in-homeless-survey-process/>

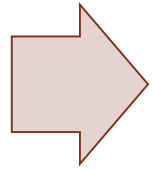
Homeless Solutions Hackathon

- 120 people participated in teams of 2 or more
- Coders behind THHI's Electronic PIT Survey
= "TEAM SUPPORT"
- Code created for the app during Hackathon available on GitHub: <https://github.com/code-for-tb/PITCensus>

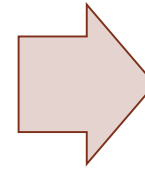
**TEAM SUPPORT's
Electronic PIT
Survey App took
2nd Place**

Hackathon to Development Contract

THHI released
Request for
Proposals that
included deploying
and testing the app



Different company
selected, BUT was
unsuccessful



Reached back out
to the original
developers and
contracted with
them

Contract included deliverables to:

- Get the app ready for use, including adding encryption
- Monitor the app during the 2019 PIT Count
- Export complete data set following the Count

Contract to Complete Development

- Additions to the base app:
 - Identify and set up server hosting and sub-domain
 - Encryption for privacy protection
 - Stress testing
 - Survey customization
 - Provide documentation for training, troubleshooting, and customization

Technical Details

- Cloud Server hosting: **Amazon Web Services**
- Survey development: **SurveyJS** <https://surveyjs.io>
- Other Components:
 - [PyMongo](#) and [MongoDB](#) to store the data from the surveys in the database
 - [PyGal](#) to create the charts for the data

Key Features



**Conditional
Logic**



GIS Tracking



**One-click
data export**



**User-friendly
design**

App Testing

- First round of testing completed internally by developers
- Beta Testing 2 weeks prior to Count
 - 20 minute time period
 - Invited volunteers to test the app
 - ~20 volunteers submitted 54 surveys during the test
 - Volunteers provided feedback about usability and functionality

App Training for Volunteers

- Webinar Training for App about 1 week ahead of the Count
- Encouraged volunteers to attend training
- Webinar recording made available for all volunteers
- If a volunteer did not receive app training, we still let them try it out on the day of the Count

Day of Count Experience

- Electronic Survey used by about 30% of volunteers (more than 100 volunteers)
- Use included:
 - Street Count Volunteers
 - Service-based Count
 - School social workers
 - Park Rangers
- **No issues reported throughout the day**
- Real-time data displayed at the COMMAND CENTER

Impact and Outcomes

Unsheltered Count

Old Process

- 300 – 500 Volunteers
- 600 – 800 Paper Surveys collected
- Surveys entered into HMIS by Data Entry Volunteers
- Data exported for analysis

New Process

- Volunteers enter survey data on their Cell Phones/Tablets
- Significantly reduced need for Data-Entry Volunteers
- One-click data export

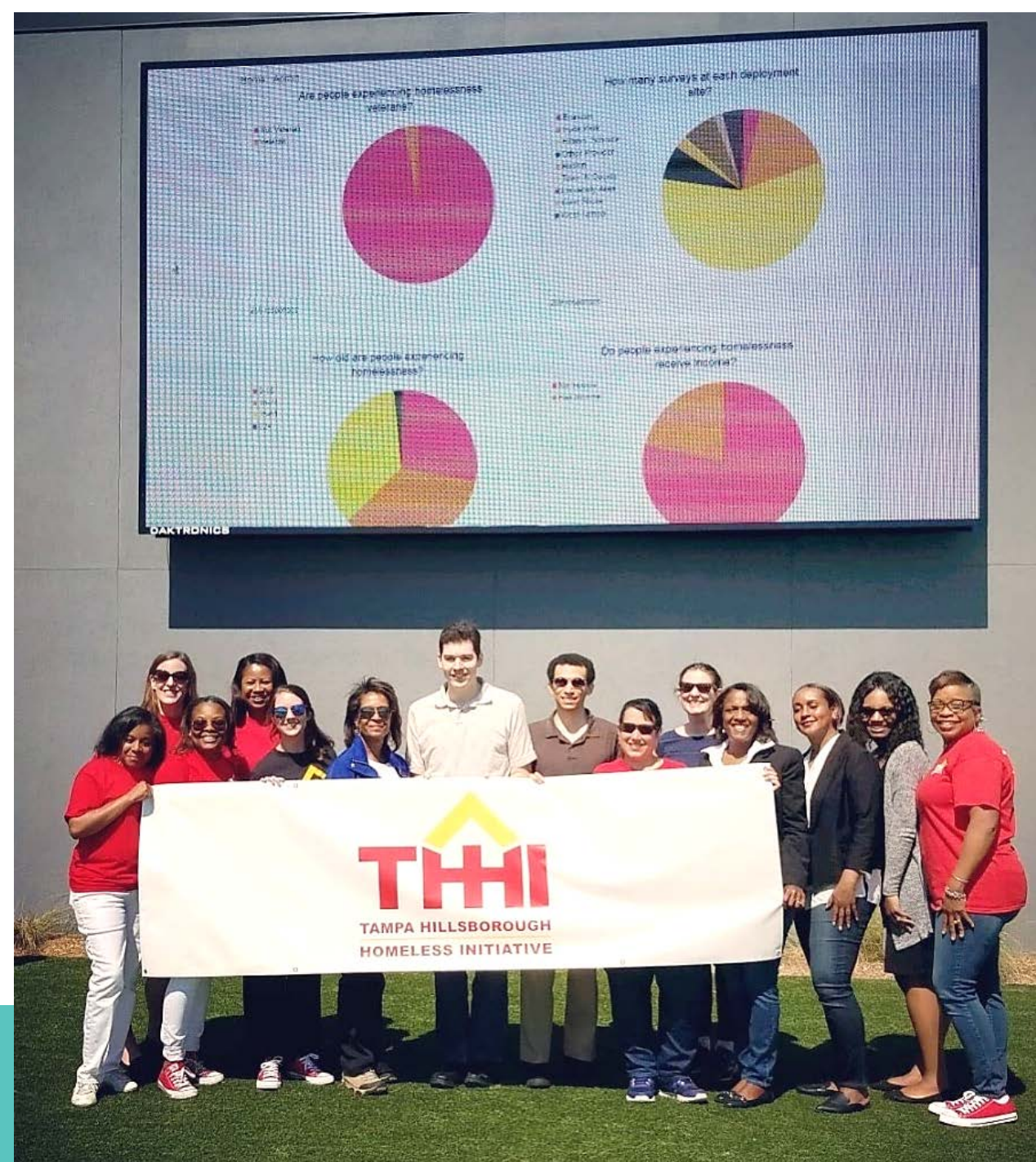
Impact

- ✓ Streamlined data collection
- ✓ Reduced data entry time
- ✓ Increase accuracy of data
- ✓ GIS Locations for improved maps
- ✓ Real-time data available

COMMAND CENTER

- **Real-time data displayed at COMMAND CENTER**
- **Social Media Campaign:** Partnered with Sparkman Wharf & The Corners Pizza to give free pizza to volunteers
- **Opportunity to engage** with general public and volunteers
- Sparkman Wharf now regularly provides the space to non-profits free of charge

EMBRACING *Change* AND
ACHIEVING *Success* FOR ALL



School District Involvement



- 39 School Social Workers at public high schools participated
- Surveyed all McKinney-Vento eligible students
- This year they used the electronic survey app
- Hillsborough County School District Homeless Liaison is **key** to this success
- Dashboard created using school data to facilitate conversations within school district

Volunteer Feedback

“LOVED the online survey and training related to that.”

“It felt like less of a barrier with a phone instead of a clipboard.”

“From a user-perspective, it was less cumbersome than the paper surveys”

View a blog highlighting the Electronic Survey here: <https://trinitycafe.org/do-i-count/>

Moving Forward

- Electronic Survey will be primary tool for the 2020 Count
- Training on Electronic Survey will be included in all volunteer trainings
- Paper surveys will remain an option

Start Using an Electronic Survey Locally

- THHI's Electronic Point-in-Time Count Survey code is available open source on GitHub
 - <https://github.com/unityhmis/PITCensus>
- Host a “Hackathon” event locally
 - Connect with local innovation and technology groups
- Research ready to use Point-in-Time solutions
- The option that's right for your CoC depends on a variety of factors



Ashley Wynn
HMIS Manager
THHI
WynnA@THHI.org

Zak Miller
Co-founder
Hyperion Data LLC
zak@hyperiondata.io