



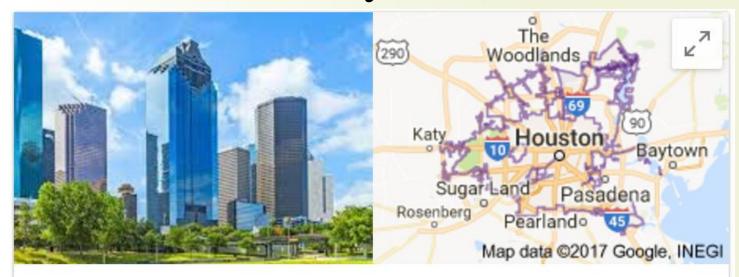
The Rapid Deployment of Mobile Technology to Support a Coordinated Response to Hurricane Harvey

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What's Next: In Data, Leadership, and Community

The Community: Houston, TX



Houston is a large metropolis in Texas, extending to Galveston Bay. It's closely linked with the Space Center Houston, the coastal visitor center at NASA's astronaut training and flight control complex. The city's relatively compact Downtown includes the Theater District, home to the renowned Houston Grand Opera, and the Historic District, with 19th-century architecture and upscale restaurants.

Elevation: 80'

Population: 2.303 million (2016)





The Homeless Population in Texas



Source: http://www.HomelessData.com/Dashboard

Tool Used: Tableau Licensing Model: Freemium

Data Set Used: 2016 HUD Point in Time Data





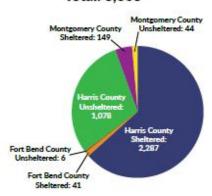
Houston 2017 PIT Summary

2017 Homeless Count



Montgomery County joined The Way Home in 2016, and was included in the 2017 Homeless Count and Survey. For accurate historical comparisons, only 2017 Count data from Houston, Harris County and Fort Bend County will be used. Montgomery County data gathered in 2017 provides a benchmark for measuring homelessness in that area and will be used in future comparisons.

Total: 3,605



Key Findings:

in Houston, Harris County and Fort Bend County

60% decrease in overall homelessness since 2011

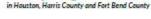
82% decrease in unsheltered chronic homelessness since 2011.

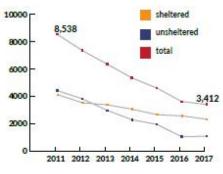
39% of unsheltered homeless individuals had a high school diploma or GED. 21% had some college or a college degree or higher.

78% of unsheltered homeless individuals became homeless in Houston.

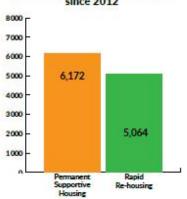
25% of unsheltered homeless individuals reported no income, while 20% reported panhandling for income.

Comparing the Counts

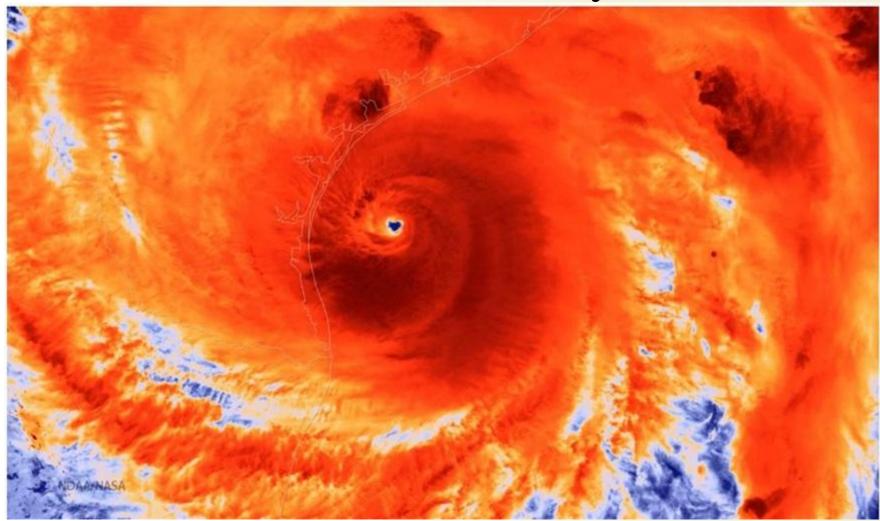




Permanent Housing Placements since 2012



Hurricane Harvey



Source: NOAA



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Tidwell St Before



Source: TIME









Disaster Response Coordination

- Local government (city, county, state)
- Federal government (FEMA, HUD)
- Continuum of Care (CoC Lead, homeless service providers)
- Non-profits (American Red Cross, local agencies)
- Others (volunteers, local businesses)

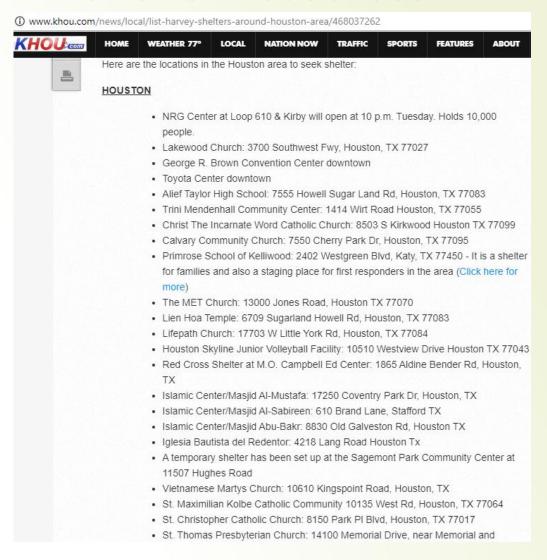
Hurricane Harvey Response

- Many people affected by the storm were evacuated to two major (and largest) shelters:
 - GRB: Operated by the Red Cross & the City of Houston
 - 10K+ evacuees initially
 - NRG: Operated by Baker Ripley & Harris County
 - 2K+ evacuees initially
- TX-700 Continuum of Care received Disaster TA from HUD almost immediately





Shelter Resources



George R Brown (GRB) Convention Center: Emergency Response



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Hurricane Harvey Response (cont.)

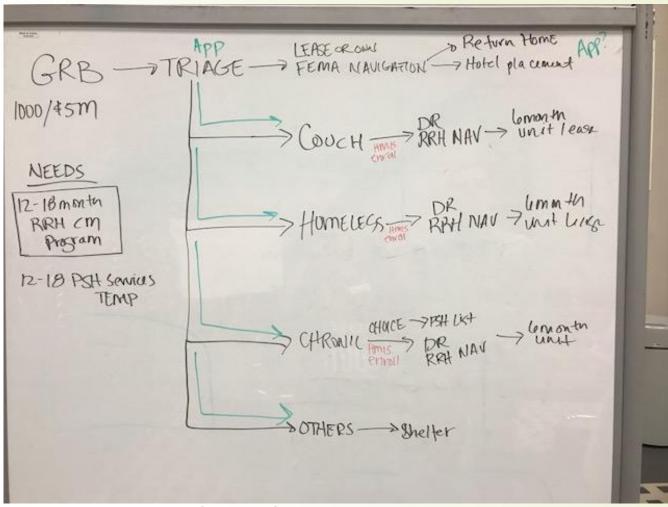
- Homeless response system leadership called to GRB the end of the week of August 31st
 - Shelter census at 2400+
- Task Develop an exit strategy for all residents at the GRB
 - Call went out to all landlords from President of Texas
 Apartment Association and the Mayor
 - Almost 3K units volunteered by landlords
 - New Residences on Emancipation opened by New Hope Housing
 - 295 beds in dormitory style living (4 per room)

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Hurricane Harvey Response (cont.)

- HMIS Needs
 - Modified version of the CA Assessment to be used as Disaster Assessment
 - Harvey HMIS Assessment revised.pdf
 - Disaster Navigation program created to enroll those ready to be housed
 - Disaster RRH program created for long-term case management after housing
 - This will be through an RFQ process

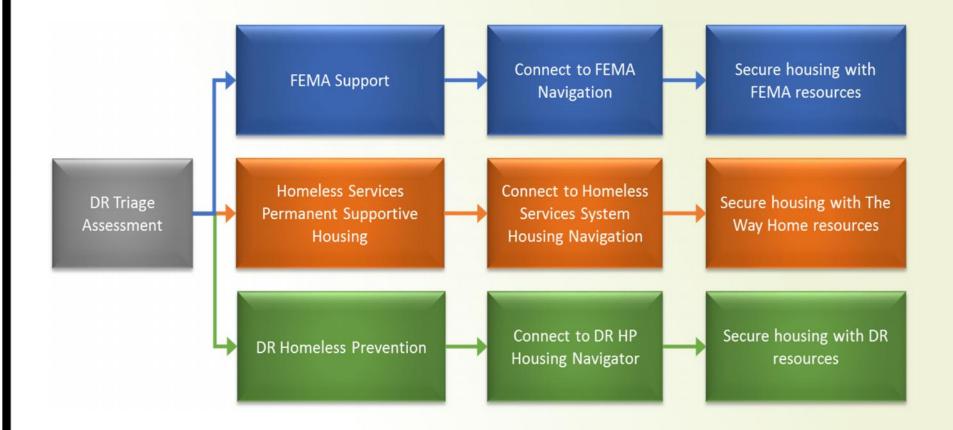
The Whiteboard



Tools Used: Join.Me for conferencing

Licensing Model: Freemium

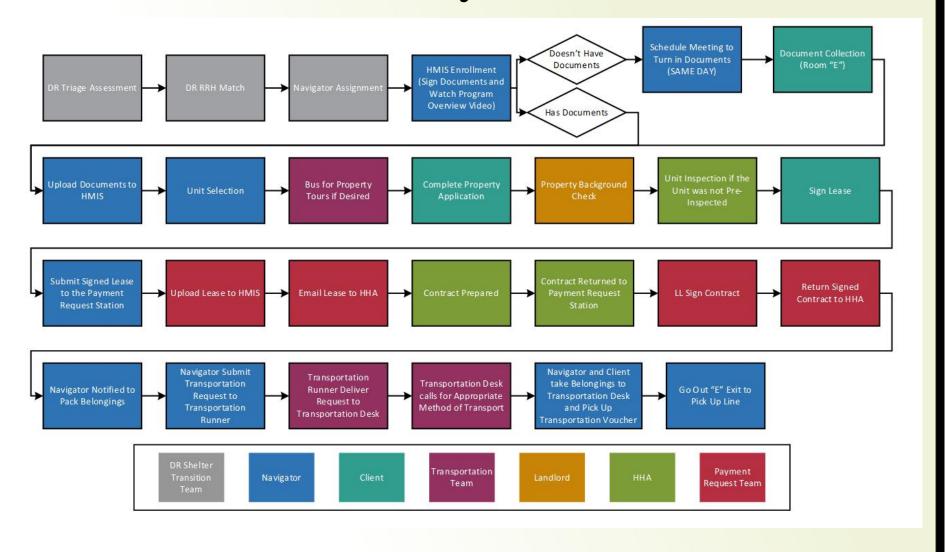
The Revised Approach



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Disaster Recovery RRH Workflow







Disaster Relief Housing Navigation Handbook

From an emergency response to permanent housing

Disaster Relief
Housing Navigation Handbook

#HousingForHarvey

Housing Navigators are responsible for supporting households through the process of securing permanent housing and accessing disaster relief resources....

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HMIS Pros

- Existing database with client records
- Customization capability
- Unique HMIS identifiers
- Capturing geodata
- Local control
- No additional cost

HMIS Cons

- No time available for customization & sync
- More complex user training & set up
- New user friendliness issues
- Bad quality data added in HMIS
- Geodata accuracy issues
- No direct geo-mapping capability

Mobile App Pros

- Quick deployment
- App download to many devices
- Quick customizations
- Simple user training & setup
- Real-time geo-mapping
- Available tech support

Mobile App Cons

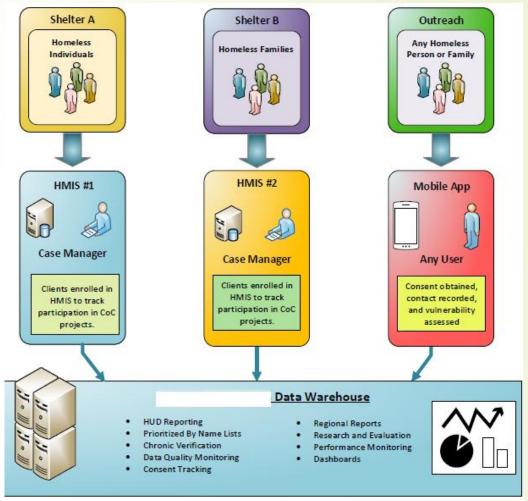
- Third-party software
- Existing HMIS clients still must be recreated
- Duplication & data quality issues
- Data re-entry in HMIS
- Additional privacy & security issues
- Additional cost?





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The Technical Framework



Tools Used: Microsoft Visio

Licensing Model: Licensed (cheap at TechSoup.org for non-profits)

Data Collection via Mobile App

- Gathered info needed for triage & rapid response
- Dashboards provided a high-level recap of the situation
- Integration with HMIS will help us measure the impact on homelessness during the 2018 PIT and beyond

Mobile response allowed multiple staff to quickly and effectively gather information with minimal additional disruption to evacuees, and with minimal effort to deploy.

URL: App Store and Google Play

Licensing Model: Free







Triage Worker Guidance

Step 7: Select Survey

Choose the appropriate "Sheltered Survey", either Individual or Household, If a household, enter the number of people in the household.

Step 8: Register

Ask "Were you either a homeowner, or on a lease, before the flooding?" If yes, tap "Enter Address" and enter their address information. If no, tap "Next Step".

Step 9: Conduct the Survey

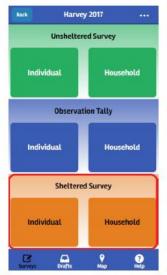
Select "Harvey Relief" for the organization, "GRB Convention Ctr" for the Project, enter the legal first and last name, and date of birth and scroll down.

Step 10: First Time **Homeless & Chronic**

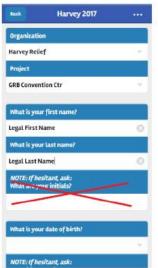
If the person was in housing before Harvey, enter "Yes" for "Is this the first time you have been homeless?" question. Otherwise, select "No".

Step 11: Submit the Survey

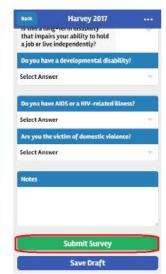
After completing the rest of the survey, if the person owned or leased, ask "Have you returned to your house and if so is it damaged?" Enter in either "Yes-Damaged", "Yes-No Damage", or "No" in the "Notes". Tap "Submit Survey".









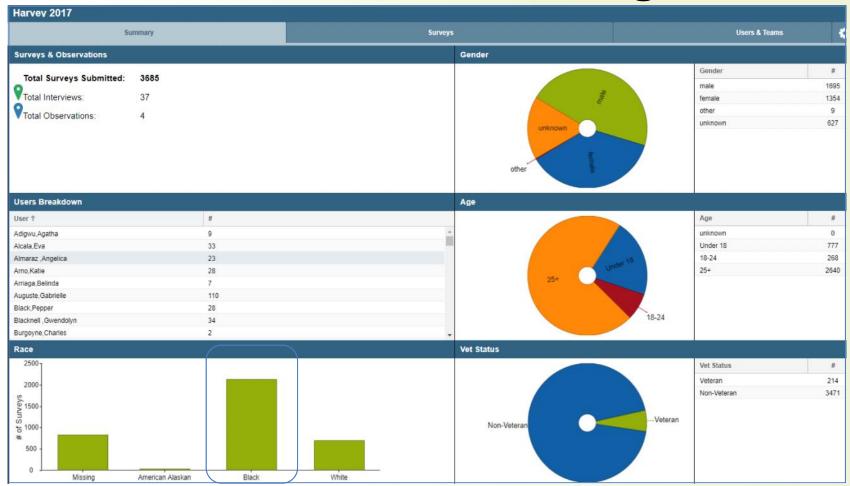


Tools Used: Windows Snipping Tool and MS Word





Command Center to Manage Info

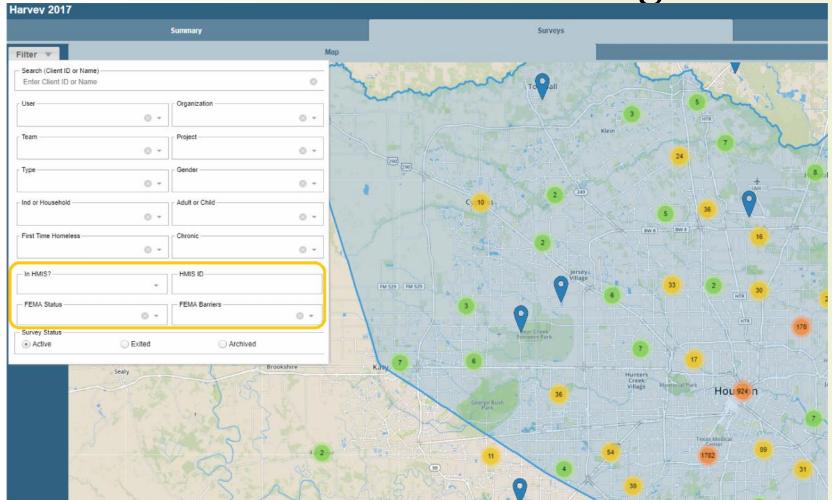


URL: https://www.WeCantTellYou.com

Licensing Model: Proprietary



Command Center to Manage Info

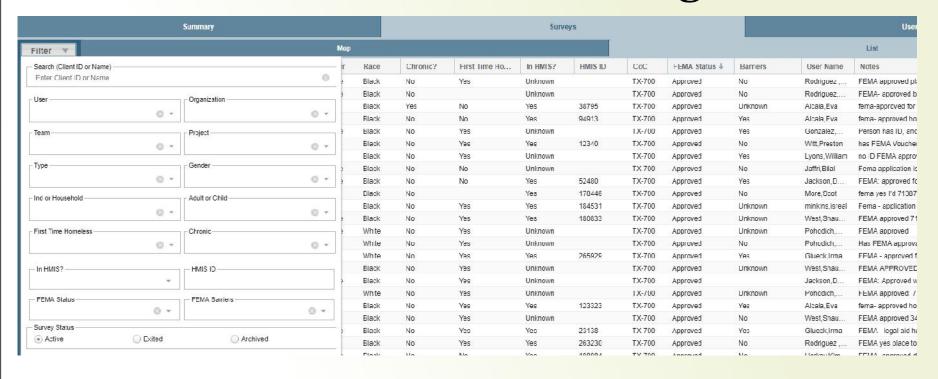


URL: https://www.WeCantTellYou.com

Licensing Model: Proprietary



Command Center to Manage Info



- The details from evacuees can be filtered as needed to support the triage efforts.
- Disaster recovery specific fields include FEMA status and barriers.
- CoC code is derived from the GPS coordinates.
- HMIS ID was sourced through a data match.



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Who was Homeless Prior to Harvey?

Matching evacuee info with HMIS for historical and future analysis.

29% of evacuees had a record in HMIS

1	A		В	
1	SURVEY_ID	*	HMIS_ID	"T
3	100006404	12		314187
11	100281962	22		25889
20	100667022	24		149419
21	100728442	26		271361
24	100835068	38		96275
26	100875932	20		86772
29	100935407	77		311313
35	101263042	26		35197
36	101266648	33		163613
40	101391184	14		330091
42	101449807	73		69651
47	101629169	91		121073
48	101664325	52		210010
52	101734798	35		340477
56	101908898	30		184531
58	101983542	23		221431
64	102138747	70		246091
67	102247179	90		253506
68	102253775	53		93280
69	102259844	19		4987
71	102322866	52		336987
75	102448314	13		322804
77	102454578	34		129618

Tools: Excel, The-Link-King, SQL

Licensing Model: Per-Seat, OpenSource, and Proprietary

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Matching Records in Excel

STEP 1 – Copy data from data sets to be merged into two tabs in Excel

STEP 2 – Create Unique Key Fields Using Demographic Info DataSet1KeyField =concatenate(lastname,DOB,gender) DataSet2KeyField =concatenate(lastname,DOB,gender)

STEP 3 – Match Records from One Tab with Records on the Other =vlookup(DataSet1KeyField,DataSet2,ColumnNumberOfDataToB eReturned,FALSE)

Tools: Excel

Licensing Model: Proprietary but cheap on TechSoup.org

Using Excel to Pull Data Out of Notes

STEP 1 – Export data into Excel. (normally in a CSV format)

STEP 2 – Create a column (B2) next to the notes field (A2) to contain the value you are checking for. For example, "FEMA".

STEP 3 – Use the "ISNUMBER" formula in cell C2 to check if the value "FEMA" in cell B2 is contained in the notes field in A2.

=ISNUMBER(SEARCH(B2,A2))

This will return a value of "TRUE" if the notes text in field A2 contains the string "FEMA" that was written in cell B2.

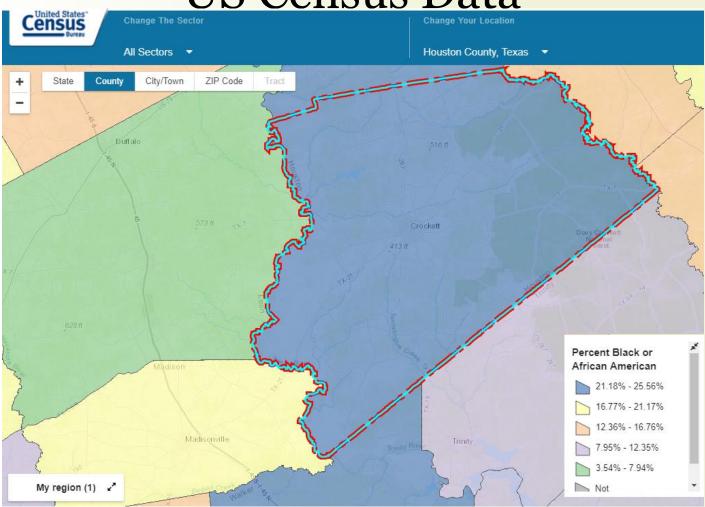




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US Census Data



URL: https://cbb.census.gov

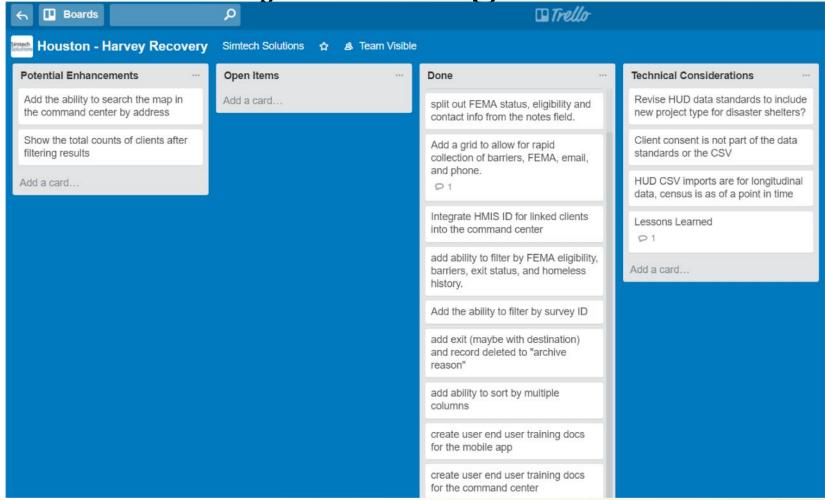
Licensing Model: Free





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Project Management



Tools Used: Trello.com Licensing Model: Freemium







Contact Management

Email Address		
First Name		
Last Name		
Region		
	_	
Subscribe to list		

MailChimp is a simple tool to manage email lists and send out blast emails to all participants.

Tool: mailchimp.com, form is at http://eepurl.com/c4uPMr

Licensing Model: Freemium



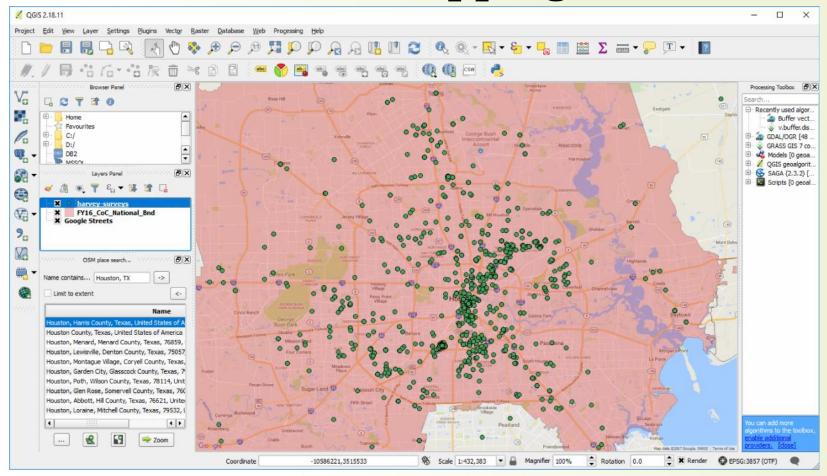
Event Management

Name of Sender:	Simtech Solutions		USE MAIL	CHIMP!
	Simtech Solutions			
Deal To			Want designer online inv	vitations?
Reply-To:	matt@simtechsolutions.com		♣ US	E
Subject Line:	You're invited to Post-Harvey Collaboration		EVENTKINGDOM	
Atti	nd Event	Event to be held at the date: Friday, September 29 12:00 PM to 1:00 PM	, 201/ trom	

Tool: EventBrite.com

Licensing Model: Freemium

GIS Mapping



URL: https://QGIS.org

Licensing Model: Open-Source, no hosting required (FREE)

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Hurricane Harvey Response (cont.)

- Now:
 - GRB & NRG shelters closed
 - 300 currently in Red Cross HCC
 - 100 currently in Red Cross Shell
 - 400 currently in Red Cross Greenspoint
 - 50 currently in St. Thomas More
 - 230 residents moved into Residences on Emancipation
 - 40 families enrolled into HMIS & moved into apartments
 - Households continue to be assessed & assigned to Navigators to be housed and then connected with long term Disaster Case Management

Preparedness for Future Disasters

- Facilities
- Staff
- Electricity
- Internet
- Database platform
- Pre-planning

Future Technical Considerations

- Disaster-specific data elements in future HMIS Data Standards?
- HUD CSV Export from Mobile App & Import to HMIS?
- Status of Temporary Emergency Shelters re: HUD reports (PIT, HIC, AHAR, SPM)?

Lessons Learned

- People with mental health conditions may not be able to access meds
- Those with severe mental and physical health conditions have more extensive service needs
- Senior citizens also have different care needs
- Hard to match the need for help with the resources
- FEMA, Red Cross, and shelters need to be connected ASAP to ensure an effective workflow
- Need to be careful of survey overload
- The Boy Scout motto rings true

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Questions?

Contact Info

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