

Background

 The journey to the US/Mexican border can take months as most people are travelling on foot, bus, and hitchhiking

 They arrive to the Matamoros refugee camp in dire need of essential items, exhausted, scared and often in need of medical care



Background

- A refugee camp of about 3,500 people formed in Matamoros, Mexico due to the 2019 Migrant Protection Protocols (MPP)
- NGO's provided essential services as there was little government intervention









Hurricane Hanna

 Hurricane Hanna hit the camp on Jul 23, 2020, rapidly creating a significant and need for shelter distrubition

 COVID-19 was also at a peak during this time, exacerbating the severity of the need for shelters



Distribution Problems

- Previous distribution methods were physical paper lists made by country leaders
 - Led to confusion

- Acquisitions of favoritism led to high social tensions
 - Created unequal access
- The lack of tracking of resources created logistical challenges
 - Slow response time





Post-Hurricane Humanitarian Distribution

Shelters, Platforms, Tarps

Dignity_Village_Tent_Distribution

Resource Distribution with Survey123

- Posted QR codes in community spaces
- Country leaders helped filled them out
- Challenges:
 - Multilingual
 - Security
 - Illiteracy
 - Lack of internet



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	un foto de su carpa actual q reemplazarse:*
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Gracias por su participacion. Su nombre ha sido añadido en la lista oficial. Vamos a revisar su aplicacion y alguien va a contactarte por Whatsapp para cordinar como entregarle la carpa. Toda su información va a ser privada y no sera compartida con nadie. Para ver la opcion de privacidad de datos, haz clic aqui:

https://www.esri.com/en-

us/privacy/privacy-statements/privacystatement

Powered by ArcGIS Survey123

Escribe su numero de WhatsApp a incluye el codigo de pais (el nume la persona que va a recibir la carpa,

Tomaño de familia registrada con INM?

Queuing

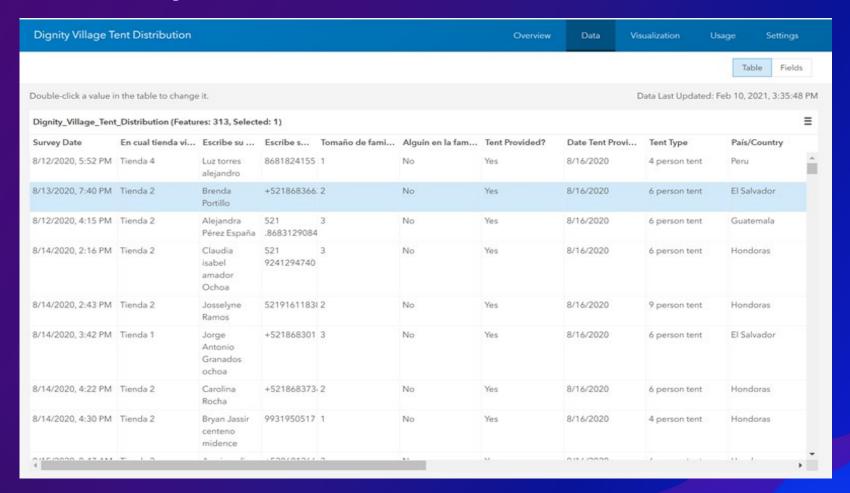
Distribution

Survey123

Resource Distribution with Survey123

With the information collected via Survey123, tents, platforms and tarps were distributed

 Dispatcher organized requested resources



Survey123

Queuing

Distribution

Resource Distribution with Survey123

- Dispatcher gives the organized resources to the country leaders
- Country leaders delivered resources to the asylum seeker

Resources Distributed:

- 198 tents
- 600+ platforms
- Countless tarps





Survey123

Queuing

Distribution

Resource Distribution with Survey123

- Solving the language barrier
 Survey were presented in Spanish
 but recorded in English
- Created equitable access to shelters
- This solution was seen as unbiased, significantly easing social tensions
- Improved communication among stakeholders
- Improved response time







Survey123

Survey123 has been instrumental in collecting local and immediate data to help make informed decisions

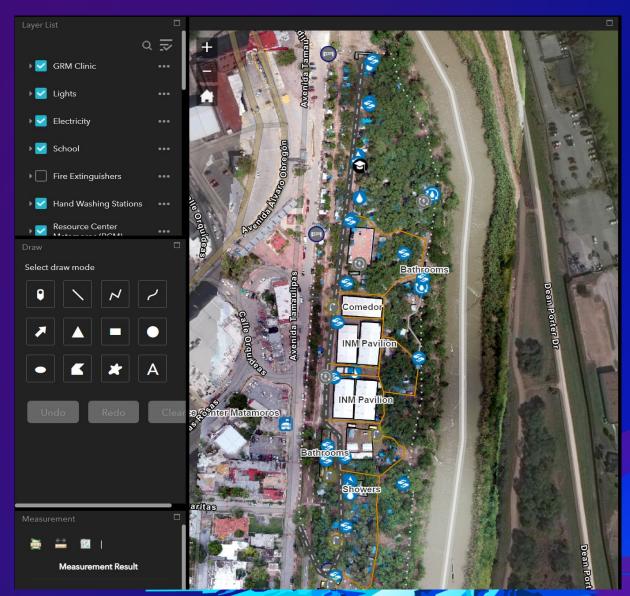
Projects include:

- Chlorine Monitoring Survey
- Water, Sanitation and Hygiene Survey



Collector, Dashboard, Drone2Map and ArcGIS Pro

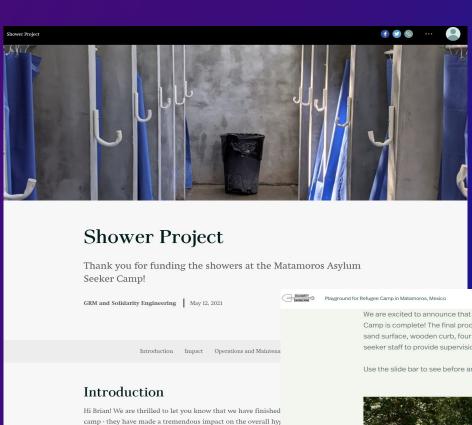
- Maps of the camp were made quarterly during 2020 to document the constantly changing context
- Other projects include security maps and mapping possible new clinic sites



StoryMaps

StoryMaps have been an invaluable communication tool that has allowed:

- Innovatively and formally say thank you to donors
- Effectively write and communicate proposals
- Present project updates to stakeholders



camp - they have made a tremendous impact on the overall hys

We are excited to announce that Phase 1 of the Playground Project at the Matamoros Refugee Camp is complete! The final product includes a 30'x30' fenced in playground area, with a soft sand surface, wooden curb, four custom play features for children ages 2-10, and a paid asylumseeker staff to provide supervision

Use the slide bar to see before and after photos of the playground area.



Before and After Photos of the Playground

In true Solidarity Engineering fashion, the first step of this project was to check with the community about what they wanted and expected. Planning and design included considering different site locations, sourcing construction materials and play equipment, and doing a ton of research to ensure the best option for the camp was chosen.

After consulting the neighbors and getting their enthusiastic approval for the location, the Solidarity Engineering team started the groundwork. This included digging drainage channels and flattening the soil foundation. We then constructed a wooden curb around the entire area. With the help of one of our asylum-seeker community members, we got in touch with a reputable, local playground equipment supplier, and was able to buy custom equipment, aimed at children ages



Camp Update – May 2021

- The camp closed in February of 2021 due to a change in policy that allowed those from the camp to wait on the US side
- Camps have begun forming in other parts of Mexico, such as Reynosa and Tijuana
 - Lessons learned from implementing ArcGIS software in Matamoros will be applied in other camps along the border





Reach Out

 Any questions or comments contact: christa@solidarityengineering.org

 To view a StoryMap outlining all the ArcGIS work completed in the Matamoros Refugee Camp, scan the QR code below







