

Reimagining the Darsmand Afghan Refugee Camp: Honey Homes

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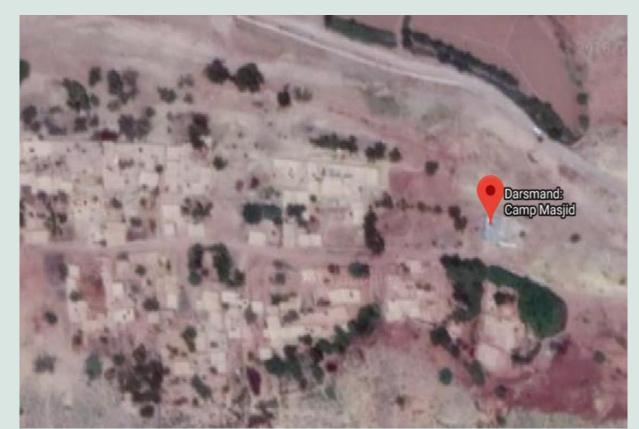
Abstract

Our project set out to redesign temporary shelters for the Afghan refugees living in the Darsmand camp in Pakistan. The purpose is to design a durable, sustainable, inexpensive, easy to set up, and space efficient shelter that meets all cultural aspects.



Afghan Refugees in Pakistan Hardly Dream of Peaceful Homeland. June 2017

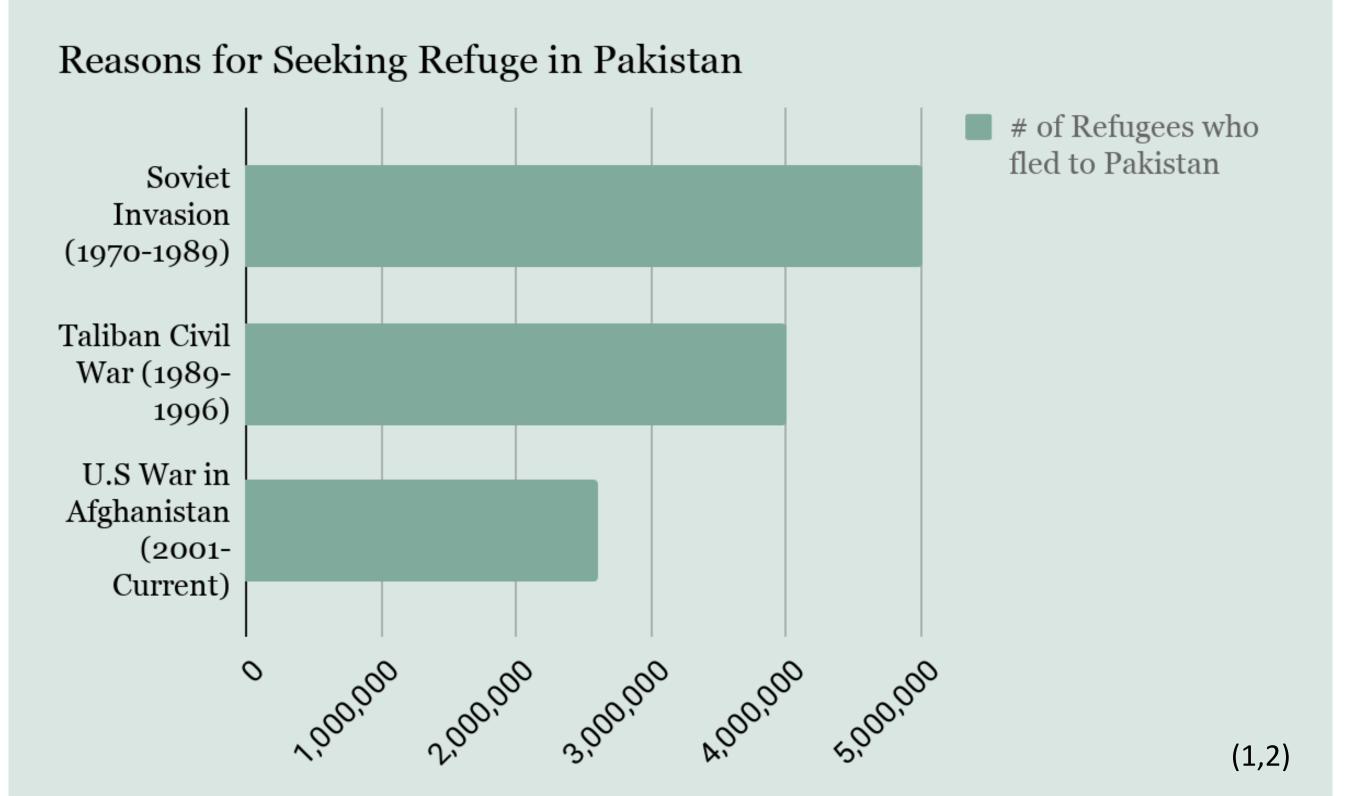
Background





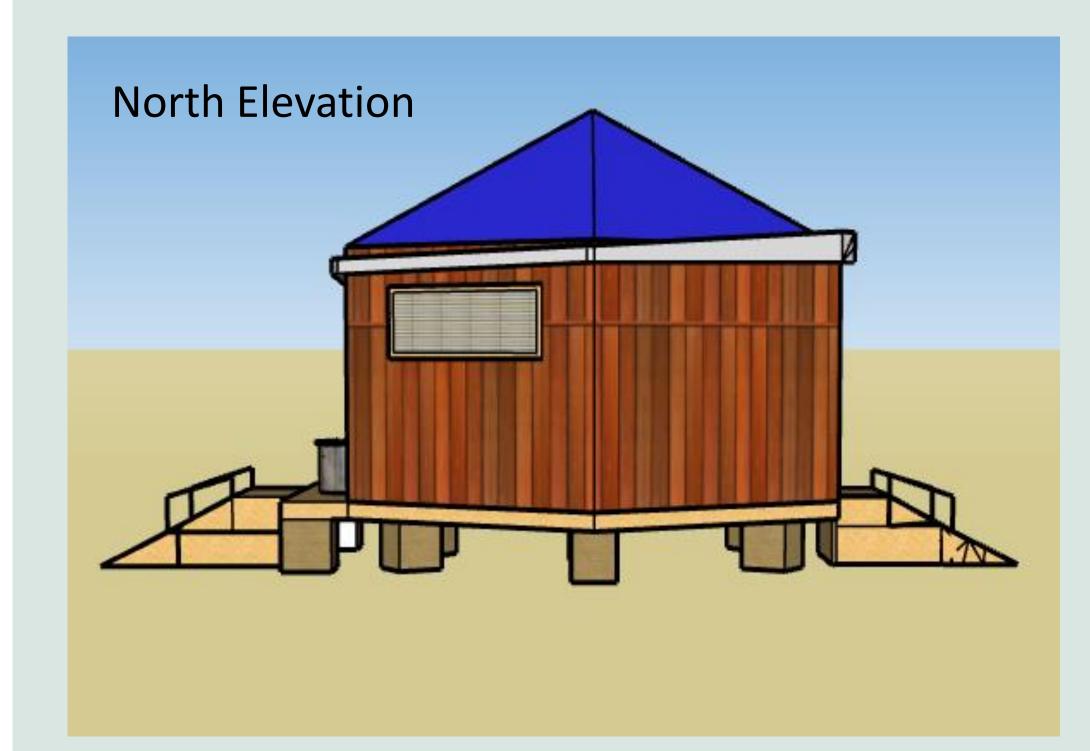
Location of Camp in Darsmand, Pakistan. Source: Google Maps

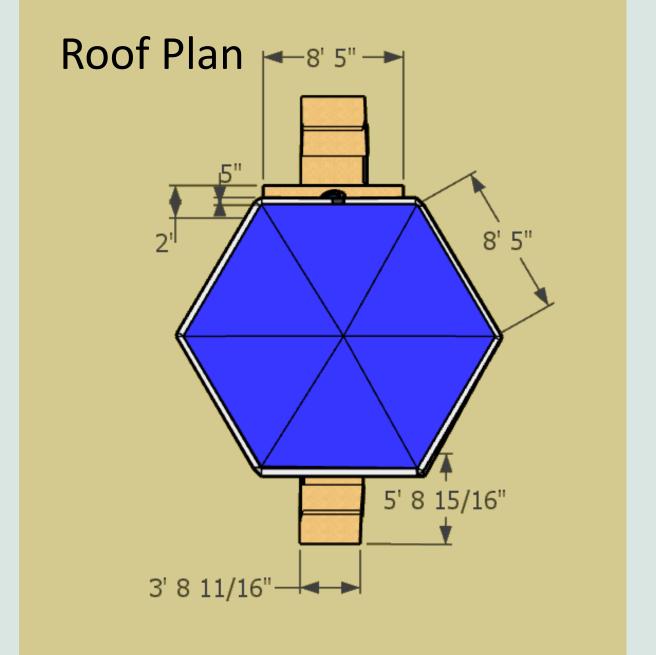
Culture **Camp Conditions** Geographic Traditional Disease ridden Desert: hot and and unsafe arid climate gender roles & genders don't Temperatures mix exceed 100°F in Overcrowded the summer and hot and average 38- Islamic religion 62°F in the Lack of winter resources Natural resources: Shakalai Nadi_(3, 6) (3, 6)(5) River



Honey Homes





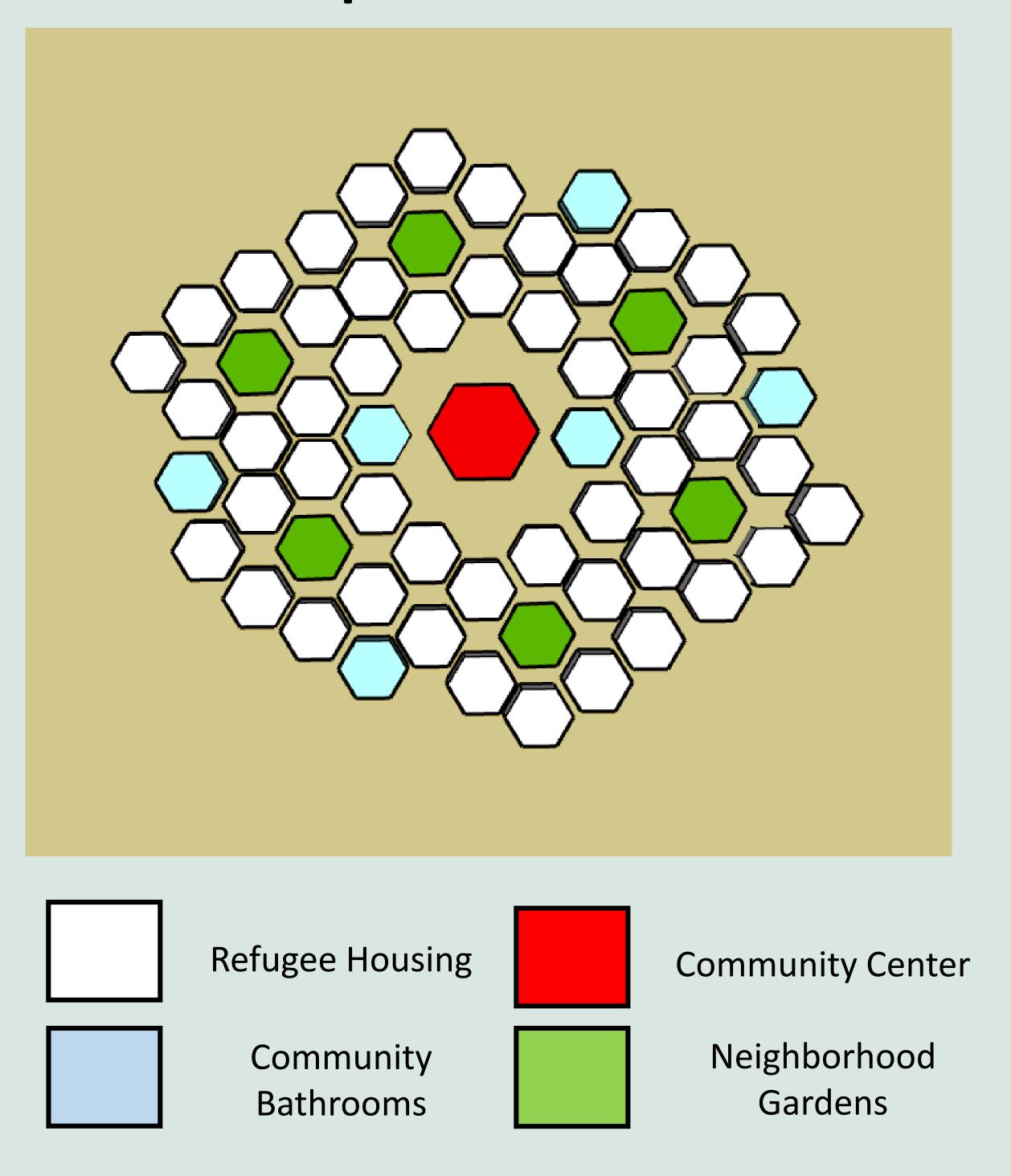




Design Concept and Analysis

- Structure is 188 squared feet
- Inspired by honeycombs and Paper Log House by Shigeru Ban (4)
- Waterproof paper tubing for walls with slanted tarp roof
- Collapsible roof for added insulation on hot days
- Windows located on opposite sides for cross ventilation
- Raised on crates filled with sand to protect against flooding
- Rainwater collection system
- Wooden door and ramp

Camp Master Plan



References

(1)Afghanistan in Conflict Timeline of Events.... After WWI 1919, Britain and Afghanistan fought. 1960's Afghanistan has Constitutional Monarchy (not very. - ppt download. (2018). Slideplayer.com. Retrieved 29 November 2018, from

https://slideplayer.com/slide/6185345/
(2)Afghan Refugees Camp Population in KP March 2018, Khyber Pakhtunkhwa, Peshawar, Pakistan. (2018). Kpkcar. 1-2. Retrieved 1
November 2018, from

http://kpkcar.org/images/docs/Afghan%20Refugees%20Camp%20Population%20in%20KP%20March%202018.pdf (3)Baha, L. (1986). Afghan Refugees: Socioeconomic Implications. *Islamic Studies*, 25(2), 161-179. Retrieved from

http://www.jstor.org/stable/20839765 (4)Carbonari L.T., Librelotto L.I. (2018) Temporary Housing Made from Recycled Paper Tubes. In: Mortal A. et al. (eds) Increase. Increase 2017. Springer, Cham

(5)Ghufran, N. (2006). Afghan Refugees in Pakistan Current Situation and Future Scenario. *Policy Perspectives, 3*(2), 83-104. Retrieved from http://www.jstor.org/stable/42922641

(6)Refugees, U. (2018). Social and economic impact of large refugee populations on host developing countries. UNHCR. Retrieved 1 December 2018, from https://www.unhcr.org/en-us/excom/standcom/3ae68d0e10/socAL-conomic-impacT-large-refugee-populations-host-developing-countries.html