

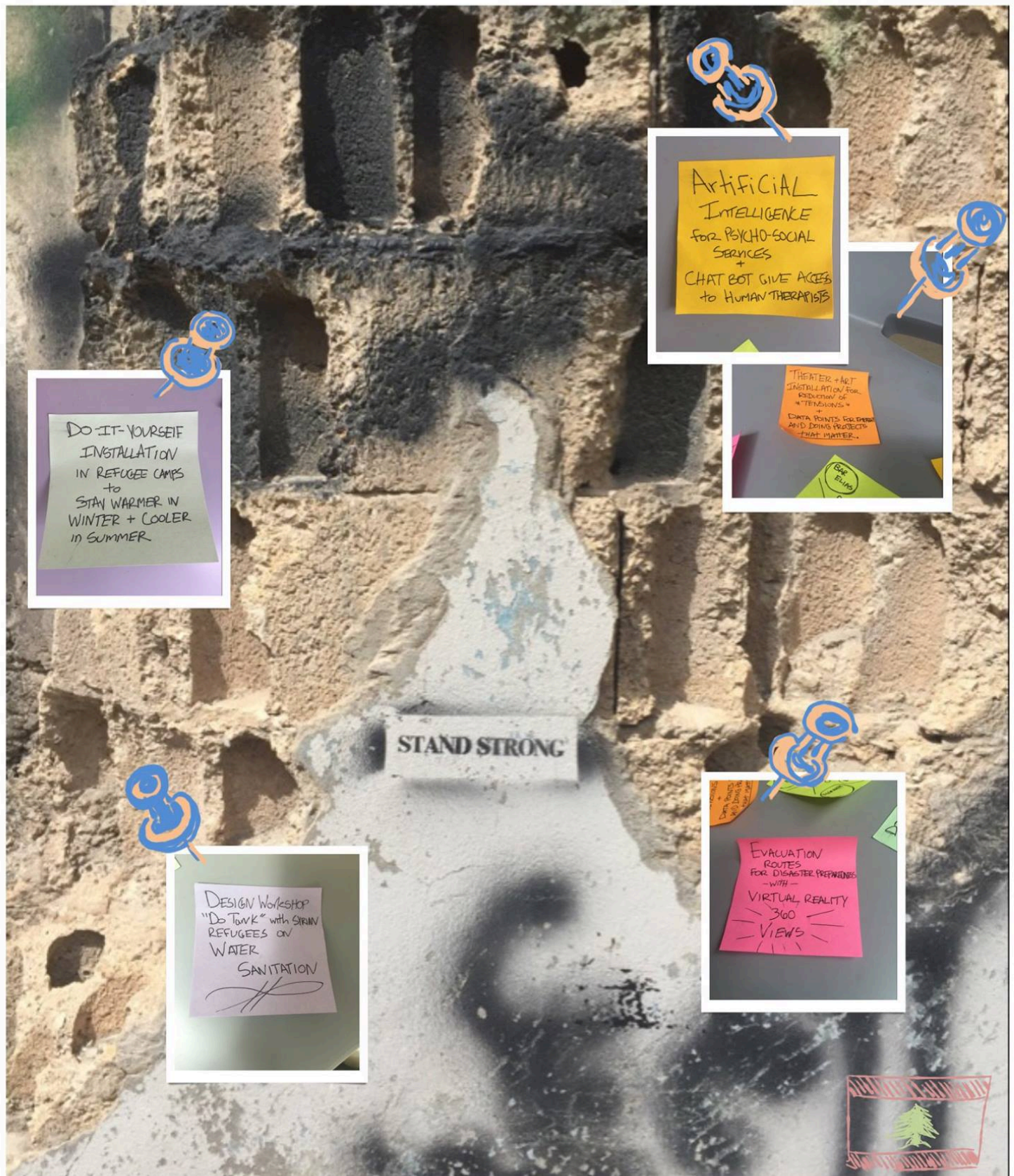
Syrian Refugee Crisis Deployment

March 15th - 25th, 2016

Lebanon



Field Innovation Team & partners deployed to the Syrian Refugee Crisis in Lebanon to empower humans to create cutting-edge solutions in 5 locations.



♥ SYRIAN REFUGEE CRISIS, LEBANON 2015

Lebanon March 15 - 25th, 2016

State of Affairs

Number remains contested, United Nations state 1,055,984 million Syrian refugees in Lebanon with a population of approximately 4 million. The number fluctuates, however Syrians are continuing to come over the border. Several camps we visited are weary about welcoming new travelers because of security and capacity concerns.

[www.data.unhcr.org/syrianrefugees/regional.php](http://data.unhcr.org/syrianrefugees/regional.php)
Accessed 3/10/16

No President in place & parliament is trying to pick up pace for citizen demands.

<http://www.al-monitor.com/pulse/originals/2015/12/lebanon-president-elections-hariri-jumblatt-franjeh.html>

Accessed 4/10/16

Tensions exist between Syrians & Lebanese. Tensions amongst Syrians on politics also exist (pro-revolution vs. the Regime.) Some students drew the Syrian flag with traditional colors (red, white & green), while others changed colors (red, white & black) for a new Syrian flag. Some children associated certain kids from particular communities (Daraa) as being at fault for the war.

[Gu.com/p/4ecgd/sfb](http://gu.com/p/4ecgd/sfb)
Accessed 3/5/16

Conflict broke out in the Central Valley between Lebanese Army, ISIL & Hezbollah towards end of our deployment. 20 minutes from part of our relief work.

<http://english.alarabiya.net/en/News/middle-east/2016/03/10/Nine-dead-as-Lebanese-army-clashes-with-militants.html>
Accessed 4/5/16

Garbage protests came to a head while we were deployed. After 7 months of garbage buildup, a warning of 1,000s protesting on the streets of Beirut & cars having to swerve around trash pile up. At least 10,000 tons of garbage were lifted off the street.

<http://www.dailystar.com.lb/News/Lebanon-News/2015/Oct-02/317401-activists-torpedo-lebanon-trash-plan-call-for-fresh-protest.aspx>

Accessed 4/1/16

Start-up Tech community is thriving and fiercely fighting even with economic downturns. Cranes also lace the skylines demonstrating growth in the city of Beirut.

Every seat in classrooms for refugees is full. Each teacher has approximately 25-30 students. Many students do not have proper winter clothing, several age groups together and a diesel stove fumes as it provides the heat for classrooms. Through resource challenges, the teachers are always there ready to teach and the kids are all smiles as they concentrate & learn.

Trilingual Arabic, English + French
Make it to grade 8, pass a standardized test & then transition into Lebanese public school.

$$x^2 + y = 3$$

1, 2, 3, 4

Security checkpoints increased throughout our trips to central Bekaa Valley.

A dozen UN convoys with peacekeepers drove down the Cornish headed south & a military helicopter swarmed overhead in Bekaa Valley.

Mission: Create cutting-edge solutions with Syrian refugees.

Lebanon

Beirut



Road to
Damascus

Mediterranean
Ocean

Bar
Elias

Algrahih

Majal Anjar

Joub
Janine

Syria

Damascus

Mountain Range

Map Key:



Build out of evacuation routes, materials from workshop/exercise with community & continued future prep led by communities



Theater workshop & art installations w/ Lebanese & Syrian youth reducing tensions & build empathy. Placing the world in the "shoes" of refugee youth.



Public Health through artificial intelligence, accessibility of mental health to refugees & aid workers.



Water sanitation/disease outbreak workshop & exercise with Syrian community.



Living Lab to improve living conditions for refugees. DIY installation project gives entrepreneurial opportunity, reduces garbage challenge & better living conditions.

Emergency evacuation routes with Syrians utilizing 360 degree camera/video reality capture for disaster preparedness.

FIT'S CHIEF WRANGLER DEST

ALI, ALGARHIH CAMP LEADER

OLDEST LIVING MEMBER IN CAMP 106 YEARS

Joub Jannine



Team meets with Camp Leader, Ali. Community maps out evacuation routes utilizing virtual reality 360 video for preparing future evacuation.



CHECK OUT OUR PILOT EVACUATION ROUTE

<https://vimeo.com/162311941>



360° FOOTAGE OF COMMUNITY EVACUATION ROUTES



Algarhih Camp in Al-Marj area of Bekaa Valley, Lebanon. 160 of approximately 250 tents hosting approximately 2,500 refugees were burned to the ground. A baby less than two years old perished.

<http://news.yahoo.com/baby-killed-fire-syria-refugee-camp-lebanon-180525002.html>

After the fire of 2015 completely engulf the Algarhih Camp in 30 minutes, Ali expressed concern for evacuating the elderly. The eldest camp member makes his way out of the fire just in time, however as noted above- a young Syrian child did not make it out. Ali wants to make sure his community remains safe and prepared.

<http://www.dailystar.com.lb/News/Lebanon-News/2015/Jun-02/300198-fire-ravages-bekaa-refugee-camp-kills-syrian-child.ashx>

Once the team completed disaster preparedness evacuation routes with 360 degree footage, we were invited for foosball, tea & video games.



Field Innovation Team

Do-It-Yourself Up-Cycle Better Sheltering Conditions

*Note in-depth guide by Emeline attached in annex of this After Action Report.

- RESOURCES:**
- LARGE THICK PLASTIC BAGS
 - SMALL PLASTIC BAGS/NEWSPAPER
 - THICK THREAD
 - NEEDLE
 - TAPE OR STAPLE



STEP 2:
SEW TWO HORIZONTAL LINES TO OPEN SIDE, CREATING THREE POCKETS

STEP 3: LIGHTLY BLOW SMALL BAGS + TIE IN KNOT, PUT INTO AIR POCKETS OF LARGER BAGS

STEP 4: STAPLE OR TAPE BAGS TOGETHER.

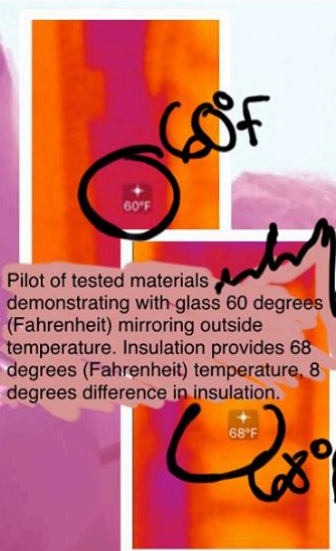


STEP 1:
SEW LARGE BAGS ON 3 SIDES (KEEP 1 WIDE SIDE OPEN)

STEP 5: INSTALL IN HOME!

Eventually air will leave the bags, however as long as the plastic, newspaper or egg cartons keep small air pocket it will trap air & insulate.

DO-IT-YOURSELF
INSTALLATION
IN REFUGEE CAMPS
to
STAY WARMER IN
WINTER + COOLER
IN SUMMER



BEKAA VALLEY IS SURROUNDED BY MOUNTAINS, WINDY AND COLD IN WINTER. NEAR SYRIAN/LEBANESE BORDER.

REFUGEE CAMPS VALLEY

1. Up-Cycle Materials
2. Do-It-Yourself Sustainability
3. Entrepreneurial Opportunities

Resident(s) in one of the tents became allergic to materials. Winter in the Bekaa Valley can be cold and windy. The family has three children including a 10-day old baby. Warmth in the winter is necessary and cooler temperature in the summer is desired to keep the family comfortable during their time in the valley. Our home tests indicated a difference of 8-10 degrees in temperature with the insulation from our past experiments.



Artificial Intelligence to provide access to health resources.



Karim, part of the X2 Psychological Artificial Intelligent Avatars was designed to focus on building trust, providing psychosocial education, & addressing Arab-specific requirements. Karim is a "chatbot", not a human.

Locations: Al Marj, Joub Jannine & Bar Elias

Translation to Arabic: We learned standard Arabic, google translate & upwork.org was not enough. Translation was challenging from English and the many dialects/variations. Thus, the team worked with local Lebanese & Syrians to support our efforts. Moving forward X2ai is hiring Syrians knowledgeable in translations to the Damascus (Levantine) dialect.

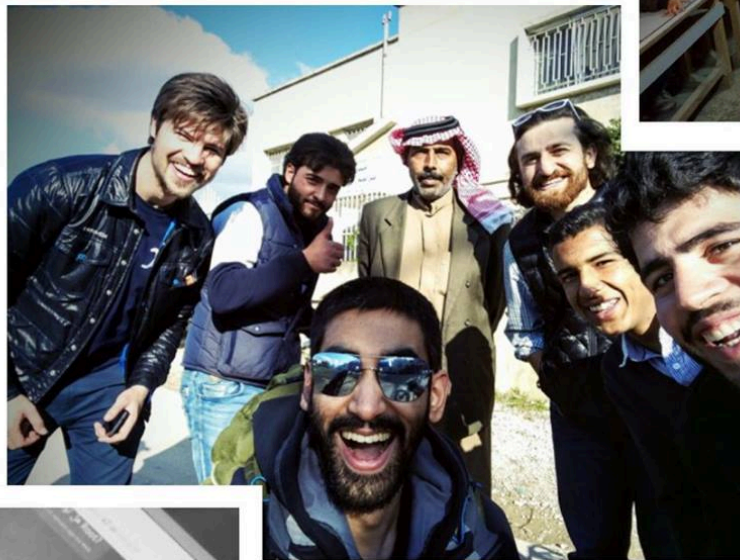
التدخين يضر بالصحة

Cultural stigmas to mental health leave many refugees without access to resources. Syrians admitted to a need for mental health resources can be viewed as putting the family reputation at risk, often resulting in physical punishment.

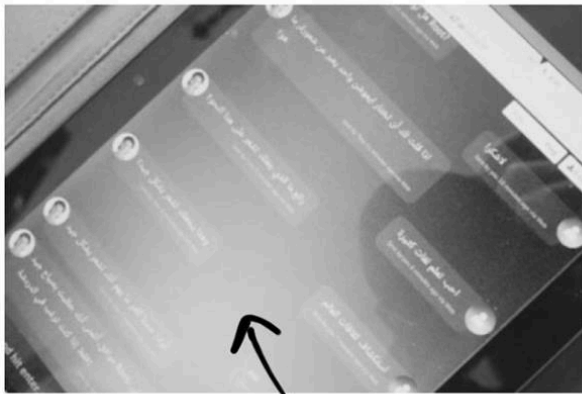


DAMASCUS DIALECT OFTEN INTERCHANGEABLE WITH STANDARD ARABIC - DOES RECOGNIZE

STANDARD PHONETIC LEVANTINE



1 psychologist currently the principal at the Jusoor school in Joub Jannine. The school is doing an incredible job with very talented staff. A full-time counselor will be joining the team serving over 45 teachers, 1,500 school children & parents. Forward thinking of the administrators and staff have created a calm & excellent education environment despite external challenges (i.e.- war/ conflict, resource constraints & abundance of children 5-14 years.)



Creating a open environment to speak in groups worked well, especially with women.

Trust barriers are high, refugees have experienced a lot. It's important they have open & optional platforms, feeling empowered to share their story when ready.

Conversation with Karim, the chatbot.

Millions of refugees need access to healthcare due to experiencing conflict, war & displacement.



Artificial Intelligence
for PSYCHO-SOCIAL
SERVICES
+
CHAT BOT GIVE ACCESS
to HUMAN THERAPISTS

STEP ONE

GRAB A SMARTPHONE.
MOST REFUGEES HAVE
OR HAVE ACCESS TO
ONE.



STEP TWO

TYPE # INTO
WHATSAPP TO
ADD "KARIM."

STEP THREE

START TEXTING
"KARIM", THE
CHATBOT.



STEP FOUR

YOU CAN SWITCH
TO A HUMAN
THERAPIST IF
YOU LIKE.

Disease Outbreak & Water Sanitation Do Tank in Majdal Anjar.



In Majdal Anjar (near Syrian/Lebanon border), Syrians and Lebanese are concerned about water contamination & potential outbreak of waterborne diseases. The refugees in one informal tent settlement expressed concern with inadequate access to clean water that is transported in. Wells in the camp are shallow and have become contaminated, causing illness.

DESIGN WORKSHOP
"Do Tank" with SYRIAN
REFUGEES ON
WATER
SANITATION

3 Groups for the Do Tank:

Researchers: "Disease Detectives" developing data collection systems on waterborne disease from clinics in Majdal Anjar to allow for timely monitoring and early detection of potential outbreaks. A big success was the decision by the workshop participants and the municipality to set up the first ever Health Committee in Majdal Anjar.

Entrepreneurs: Prototyped solar-based water purification systems. First solution is to co-opt the SODIS solution (Solar Water Disinfection) and create a large-scale water bottle filtration system in which bottles are placed at an angle in the sun for 6+ hours (angles are tested based on longitude/latitude of region.) Second solution is purification through an evaporation-based system prototyped in AutoCAD by a Lebanese engineer on the team. These solutions are for communities that cannot access purified bottled water on a daily basis.

Educators: Building theater, song, dance & an information booklet to educate on water sanitation. The booklet is focused on ages 5-11. There are a lot of kids in the camps! The team is fundraising through hand-crafted items used from up-cycled materials to create a booklet for dissemination.

Celebrated the kick-off of the FIRST Health Committee in Majal Anjar came out of our Do Tank!

Living Lab in Beirut with Up and Coming Syrian & Lebanese Millennials.

25 Lebanese, Syrians, Americans & Canadians came together to work on challenges faces in the refugee camps.

Refugee Enterprise that enhances future outlook & builds on economy to support benefit to the host country (not take existing opportunities, but expand.) Syrian refugee entrepreneurs 15-24 years old struggle to access the market due to legal & social challenges.

Syrians need a way to moderate temperature (modifying cold/hot) in tents. Access to up-cycled existing materials & planning how to test prototype using tech in the field. This includes creating a "home" & identifying how to get everyone higher on Maslow's hierarchy to be empowered beyond worry of safety, food & shelter.



WORKING HARD + HAVING A BLAST

Idea 1: Focus on Syrian youth under 12 to build a productive outlet with purpose & future by building school gardens.
*Connect team to Bootcamp 4.0 Urban Gardeners, future collaboration.

Syrians & Lebanese students grades 4-5, attending public school need a way to co-exist because of violence they are experiencing. Come together: Coffee for intros, sweets for growing friendship & salty foods for becoming family.

Working with Syrian Youth Taught Us the Real Meaning of Resilience...& the Amazing Teachers!



BAR ELIAS CAMP

WE ALSO
WORKED IN
BEIRUT
(capital of
LEBANON)



JOUB JANNINE

ALGARHIH CAMP,
BEKAA VALLEY

JUSOOR TAKES 1,000s of Syrian youth - incredibly well-run & thoughtful programs help kids get into Public schools. ♥

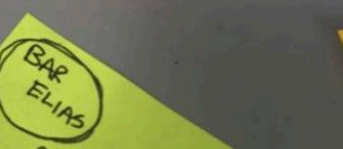
100's of Syrian children and very dedicated teachers. Teachers are similar to local responders - they are there from the beginning to end.

The team did art installations, theater tension reduction programming and survivor story-telling for children 5-15 years and youth programming 16-23 years.

Our team worked in Joub Jannine, Beirut, Al-Marj (Algarhih) and Bar Elias serving 919 Syrian youth.



THEATER + ART
INSTALLATION FOR
REDUCTION OF
* TENSIONS *
+
DATA POINTS FOR BEHAVIOR
AND DOING PROJECTS
THAT MATTER.



Tension reduction theater programming & survivor story-telling

40 Syrian youth from ages 12 - 22 joined us. All youth were either from Homs, Damascus or surrounding communities. The workshops separated the young men and women.

*Note photos, names & personal information may be removed due to the request of the individual. Photos next to stories do not necessarily reflect the survivor in the story.



"My father is a brave soldier. My family crossed the border into Lebanon and my father was taken. He is now a prisoner of war, we don't know where he is but I am proud of him. I plan to be a soldier too." Syrian survivor, young male approximately age 12.



"You always have a choice, you don't have to look when heads are being cut off. Younger kids get scared in the house, but not me. At first I was scared, but I am have grown used to it. You have choices in conflict, to look & to be scared. I choose not to do either." Syrian Survivor, young man age 15.

"Walking to school, a young Syrian boy of 13-14 stood behind the fence and flung rubber bands at me. I told him to stop, he didn't until he ran out of his stash. I picked the rubber bands up and stuffed in my pocket. The boys eyes looked crazed, he picked up a rock and threw it at me. He is traumatized from the war, he's not in school and he's terrorizing the teachers. ...when does this boy decide to cross past the fence and enter the school?" Rafael, Aid Worker in Lebanon.

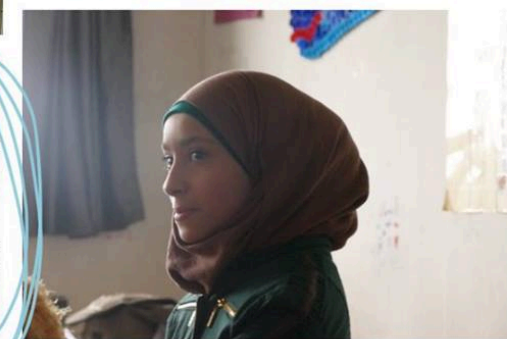
"Letting go my faculty position & home was challenging. I look at this as my opportunity to start a new passion by showcasing the amazing artwork of my fellow Syrians." Faculty member at the University of Damascus.



"...missiles fell all around my town in Syria, my uncle called me and told me he had ordered me a taxi far away from this place. I am now in Bar Elias, Lebanon. I would tell future survivors to never give up on their education, if you find your country at war or your husband is abusive, your way out is through an education." Syrian Survivor, young female approximate age 18.



"I was jailed for 6 months without knowledge of why. One day, one of the inmates passed & when I told them, the prison guards shrugged. We were left with a corpse in our cell." Syrian survivor, approximate age 35.



"A witch came to me in the camp, she put a spell on me, creating a web over my nightmares and I no longer think about the beheadings or violence." Syrian Survivor, young man age 13.



"Olive trees that is what I remember. I used to run through them, now they are all burned & gone. Whenever I need to go back, I remember those olive trees." Syrian male, principal.



"We are teachers, on the front lines. Taking care of the children, sometimes we forget that we, too have lost our homes and our communities." Teacher (Syrian) supporting young Syrians to learn English & get into Lebanese public school system.

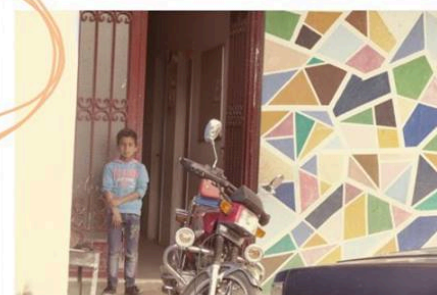


Pictures of present showed guns firing and soldiers but when asked to draw their futures, everyone had suns, blue skies, smiling faces, and positive outlook. ...yet others drew the revolutionary Syrian flag, astronauts & elephants.

ALL SURVIVORS DESERVE AN OPPORTUNITY TO TELL THEIR STORIES.



Syrian motorcyclist drove over the mountain range now living & working in Bar Elias.



...a few of our amazing volunteers
empowering innovation in real-time.

Empowering humans to create
cutting-edge solutions.

CHIEF
ARCHITECT
OF DIY PROJECTS



MASTER COOKIE
EATER +
CREATIVE
PROGRAMMER



ONE OF
JUSOOR'S
"BIG CHEESE"



MASTER OF
DISASTERS



WATER SANITATION
CREW: KAVEH, KIRSTY,
TONI, REBEKA, JESS.

Michel, Doc. of
Artificial Intelligence.



MVP MOTO DRIVER + VIP
FOR LATE NIGHT DRIVING



CHIEF WRANGLER
DESIGN

FOUND IN CAMP
© SYRIAN CAMP
ALGARIN



SUHA +
SARA S.

Much Love To: Sara S, Suha, Ahmad, Tamara, Kaveh, Toni, Kirsty, Michel, Eugene, Rebeka, Munir, Dania, Amazing teachers of Jusoor, Suharto, Bayan, Zeina, Kristin, Hilary M, Mohammad, Farah, Bashar, Libby, Brett, Alicia J, Gilbert, Nabil, Jess, Petra, Arkbar, Tuna, Nathaly, Raya, Erika, Emeline, Archie, Angeles, Artisede, Rafael, Tony, Mustafa, Ali, Rakan, Hobie, Hana & lovely Lebanese and Syrian communities.

Thank you to everyone involved!

The Syrian Refugee Crisis

Our overall experience taught us that Syrians are smart, hardworking & dedicated to being empowered to improve the conditions of their community. There are incredible Lebanese & Syrian educators, camp leaders, administrators and community advocates all working together to help human-kind. Thank you for all you do.



Do It Yourself

Shelter Insulation Manual



WARNING: Please note that this solution is not fire retardant. Please do not install plastic panels near an open fire or cook stove. Project administered at your own risk.

MATERIALS YOU WILL NEED

Needle , Thread and Scissors



Large CLEAN Garbage Bags (substitutions: Rice sack, Burlap or Cement bags)



Or



Or



Note: Make sure no toxic smell or particles

Any kind of Plastic for stuffing (substitutions: crumpled newspaper, egg crates)

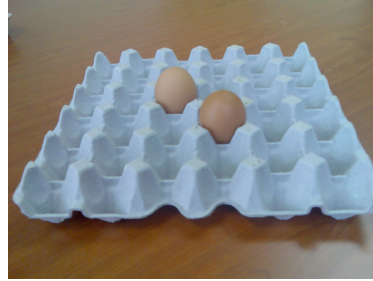


WARNING: Please note that this solution is not fire retardant. Please do not install plastic panels near an open fire or cook stove. Project administered at your own risk.

Or



Or



OPTIONAL TOOLS



INSTRUCTIONS

Sew two plastic bags together on three sides leaving one side open. Alternatively use stapler instead of sewing them together.



Sew two sections in a straight line from one end all the way to the other end, making several compartments/panels.

WARNING: Please note that this solution is not fire retardant. Please do not install plastic panels near an open fire or cook stove. Project administered at your own risk.

Ideally, blow air into smaller discarded plastic bags that can be stuffed into the three panels.



Stuff the compartments with discarded plastic, crumpled news paper or anything that will hold air in between the materials, Straw is another good option.



WARNING: Please note that this solution is not fire retardant. Please do not install plastic panels near an open fire or cook stove. Project administered at your own risk.

Lightly seal the last side by stapling them together



Measure the wall of the shelter or tent and connect enough plastic bag panels together by stapling them together on one side.



WARNING: Please note that this solution is not fire retardant. Please do not install plastic panels near an open fire or cook stove. Project administered at your own risk.

Install the panels in the inside side of the shelter or tent by staple gunning them to the wood structure.



If there is no staple gun, packing tape is also an option. Hanging these panels will depend on the type of shelter. The less gaps between panels, the more efficient the insulation.



WARNING: Please note that this solution is not fire retardant. Please do not install plastic panels near an open fire or cook stove. Project administered at your own risk.