INNOVATION PROJECT

The refugee problem



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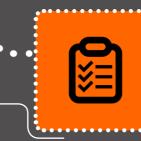
Current situation at the camps



Our solution



Sources













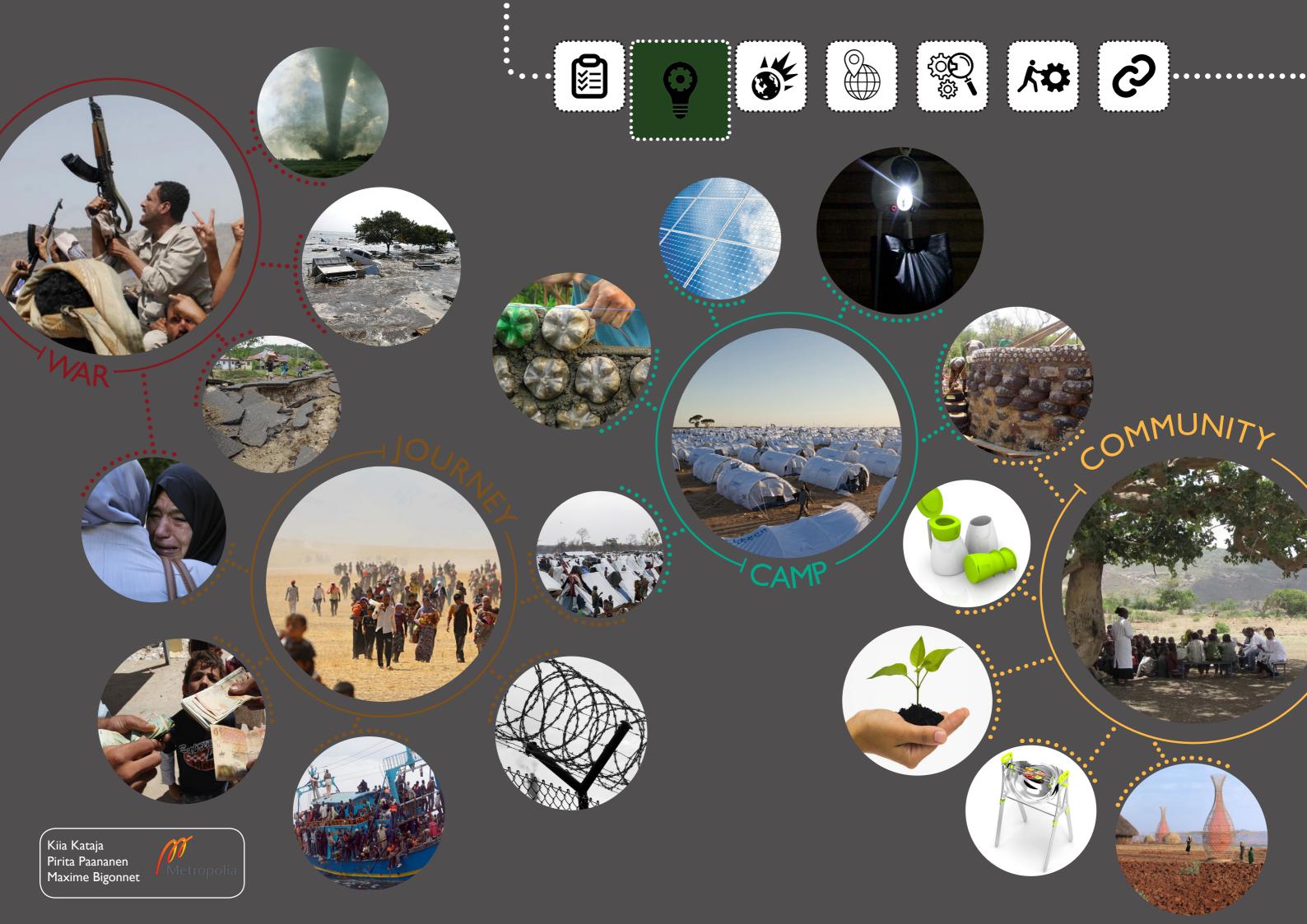


BRIEF

Design helping the refugees/asylum seekers in Finland (Europe)

- What can be done by means of design to help the refugee problem (asylum seekers) in Finland (Europe)
- What is the phase of problem that needs the development most?
- Is the solution a product/series of products or service/course of action?











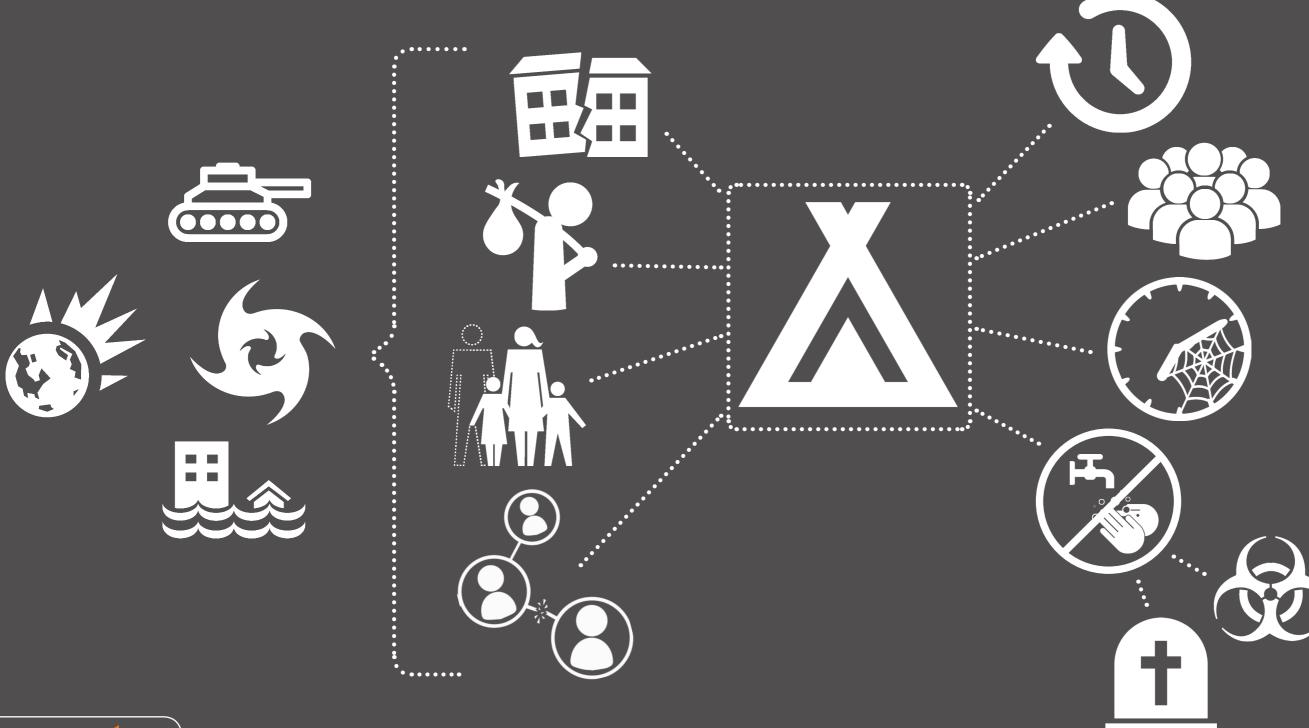








BIG PICTURE















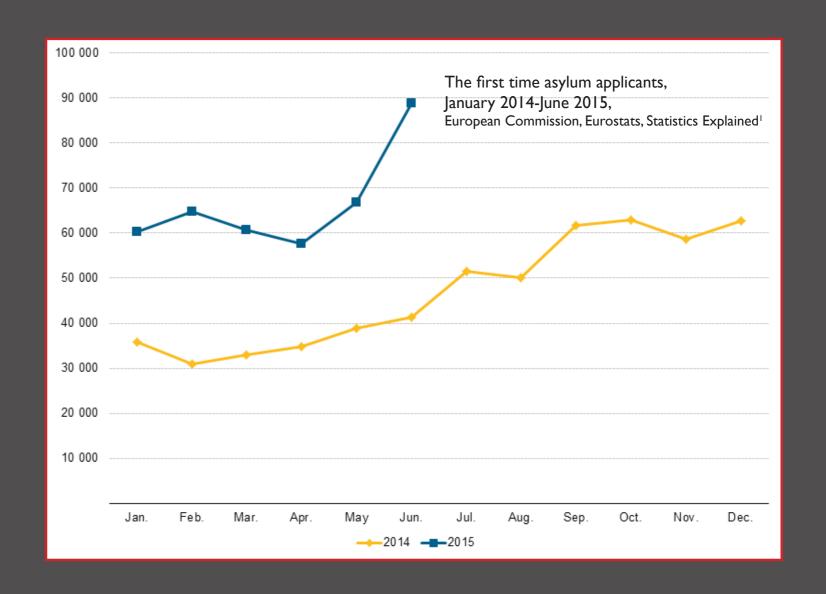




FACTS























CURRENT SITUATION & ISSUES













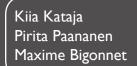




























OUR GOAL:

Building a community
Bringing the people together
Bringing back a sort of routine
Empower the people and their skills
Dealing with primary issues such as hygiene







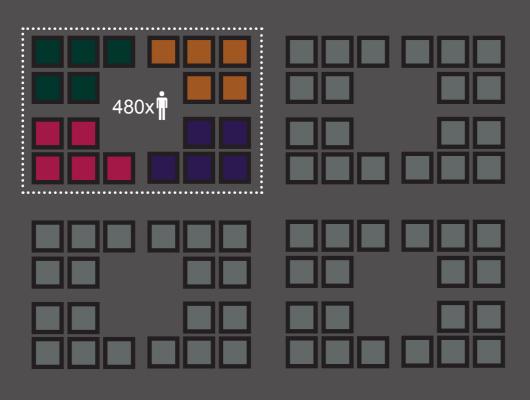




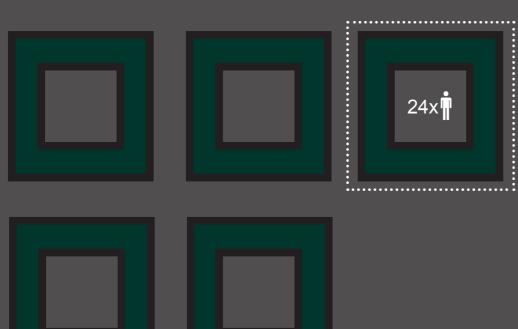


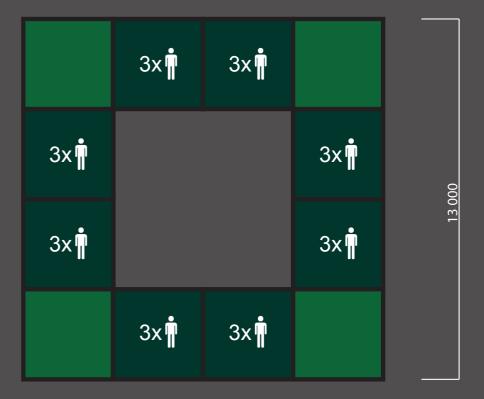
















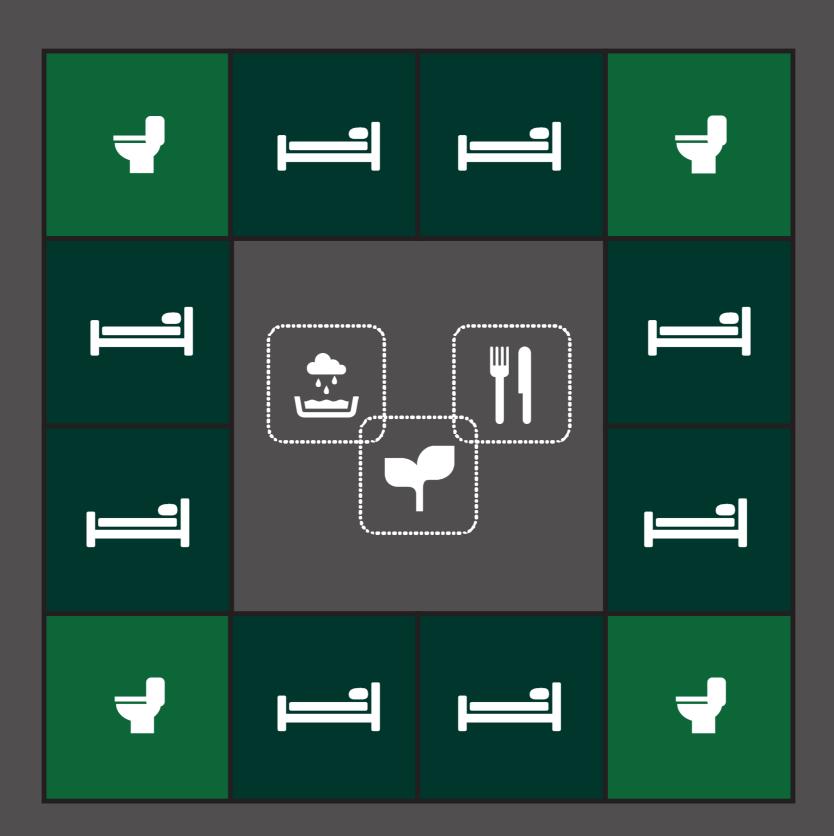


















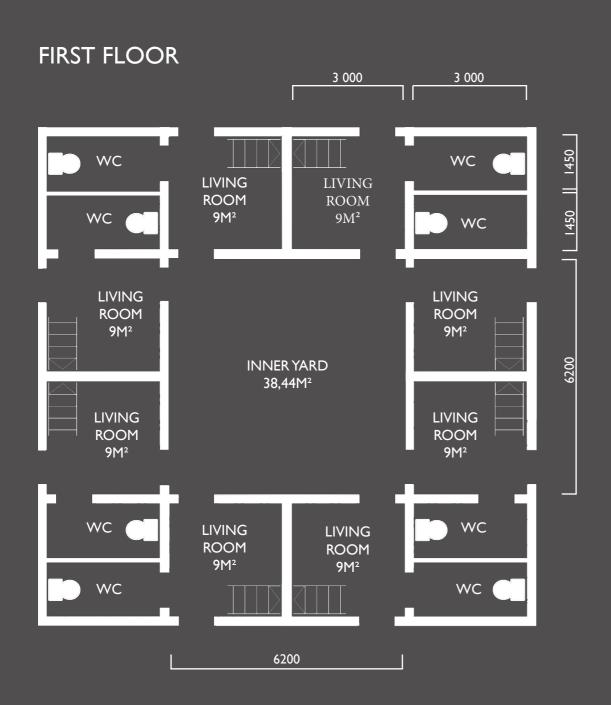




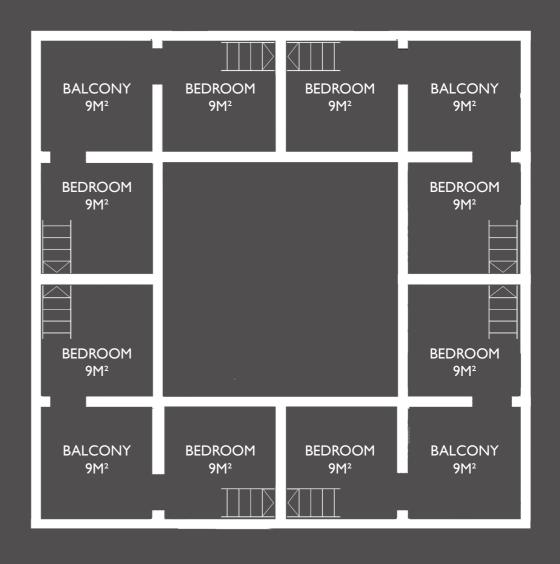








SECOND FLOOR









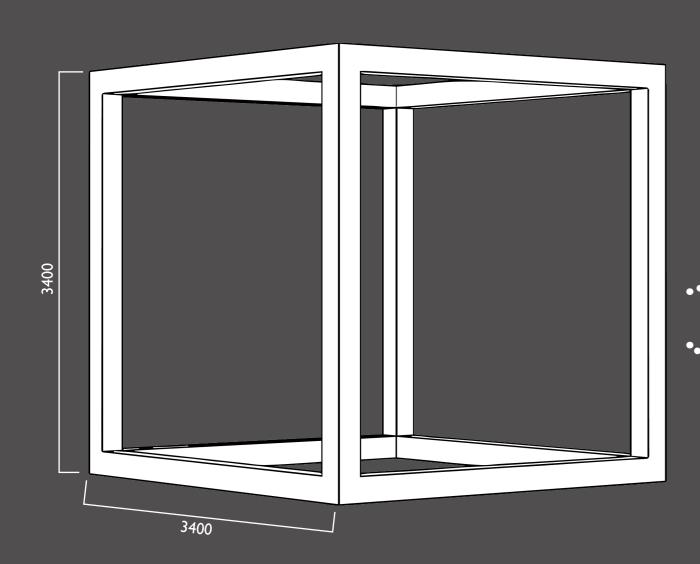


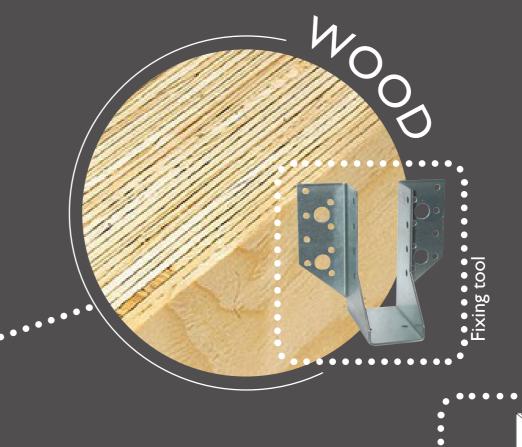


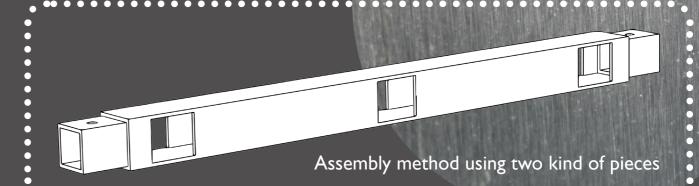


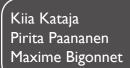




























THE DIGNITY TOILET

By Mike Loveless & Terence Woodside (Bridgeable)



- Sealed, sanitary storage for solid waste, for 3 people, for approximately 7 days
- Composting method, avoiding the use of water and sewage infrastructure
- Avoiding water contamination and diseases
- Social aspect, empowering individuals within the community





























Kiia Kataja Pirita Paananen Maxime Bigonnet

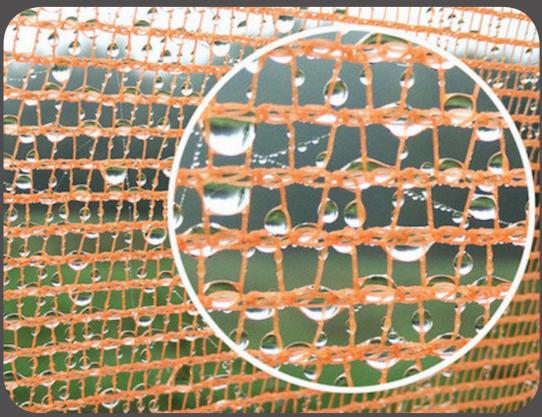


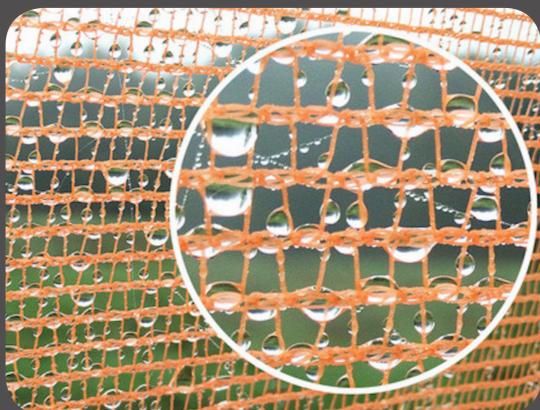














- Textile sliding roof covering the inner yard, providing shade or sunshine when required
- Combined with a plastic mesh (nylon and polypropylene fibers), allowing to gather water from air humidity and to maintain coolness

Kiia Kataja Pirita Paananen Maxime Bigonnet





























COOKING SOLUTIONS







- Brick barbecue kind for cooking
- Using simple molds to creat bricks out of local soil/clay



Chrysalis, solar barbecue by Alexandra Abidji & Ugo Janiszewski

- Recycled aluminium blades, allows to focus the sun rays for an optimal cooking
- Does not use charcoal, gas or electricity (environmentally-friendly and can be used practically anywhere)















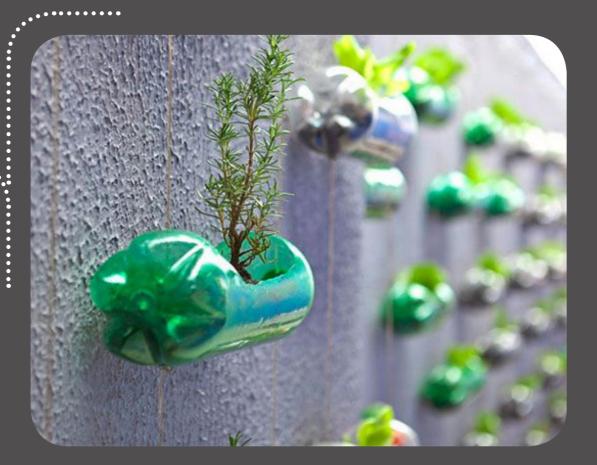




GROWING SOLUTIONS









 Some filled with sand/soil, some empty to get light through, some used to grow plants



- Recycling tires into wall planters
- Space optimization



















Options we thought about for building the walls





Textiles could be used for inner walls and openings

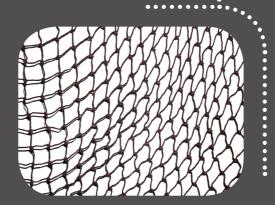


 Use of waste materials as part of the walls such as tires and plastic bottles





• Use of sandbags, that could be sent there empty, or even handcrafted if there was a possibility, then fulled with sand or soil on site



Nets to support the sandbag walls



Handmade bricks made out of the natural ressources on site, using rudimentary molds









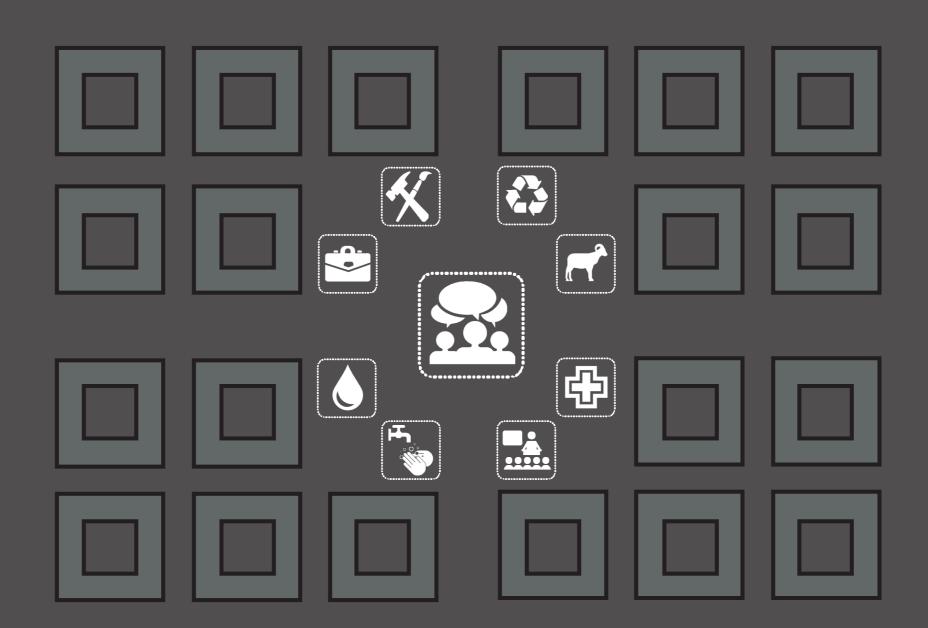






















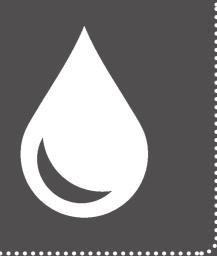






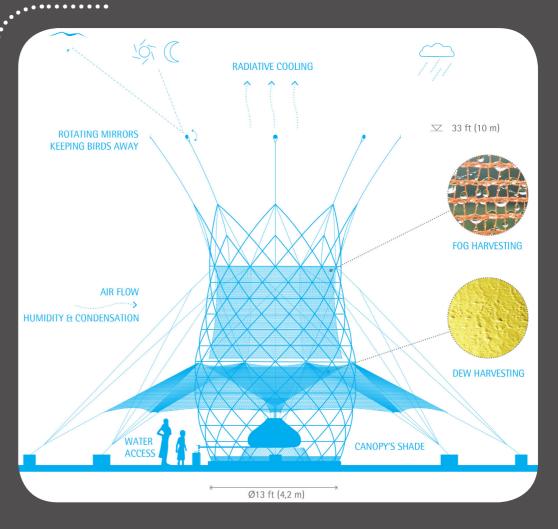
WARKAWATER

By Arturo Vittori & Andreas Vogler (Architecture and Vision)



- An alternative source of water : captures air humidity to have drinkable water
- Can gather from 20-30 L to 50-100 L a day (different models)
- A social place with shade
- Five modules that can be easily assembled by the people themselves
- Made of bamboo, it only costs 400€ (against 10 000€ for a well with a pump)











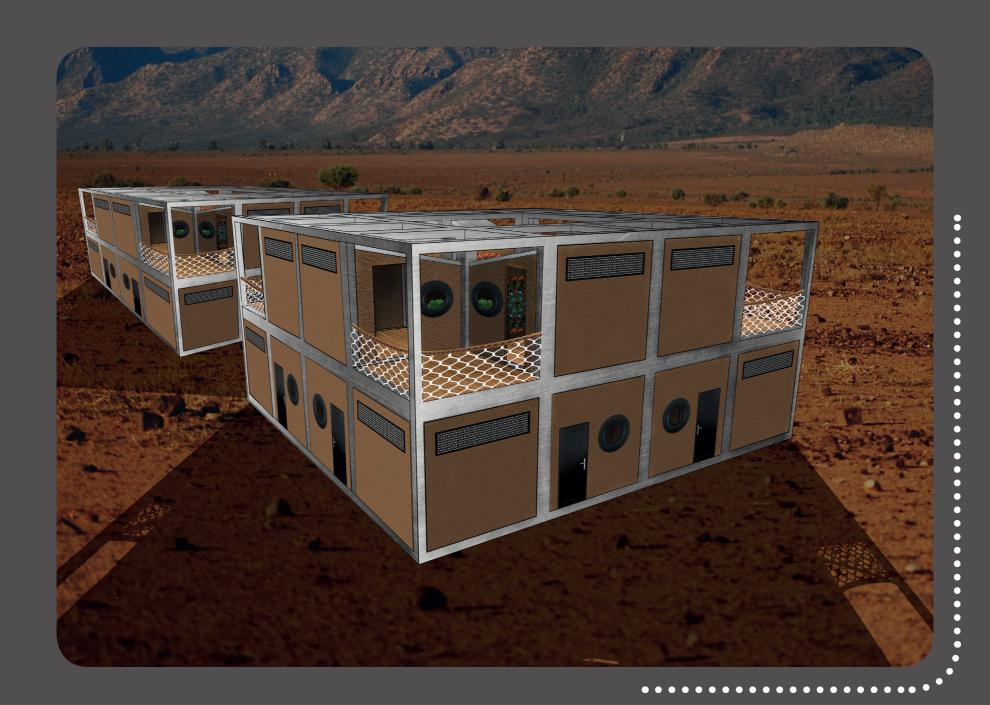




























The next step





············ Develop the Market place

············ Making a prototype

:.....Solve the structural problems

















SOURCES

Thank you:

Saara Lehmuskoski, Finnish Church Aid Heidi Tuhkanen, Metropolia Student Union METKA Mo El-Fatatry, Masar Smart Energy Anonymous, working with the refugees Anonymous, refugee

Sources include but are not limited:

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THANK YOU.



