















KEY FINDINGS THE INCREMENTAL PROCESS WORKS



The *Structure* approach offers **low-cost**, transitional tentage for forcibly displaced people, capable of lasting the **duration of displacement** through upgrading with local materials. Its modular metal framework can be deployed with a tarpaulin cover and serve as an **emergency shelter** in the immediate aftermath of a disaster or conflict.

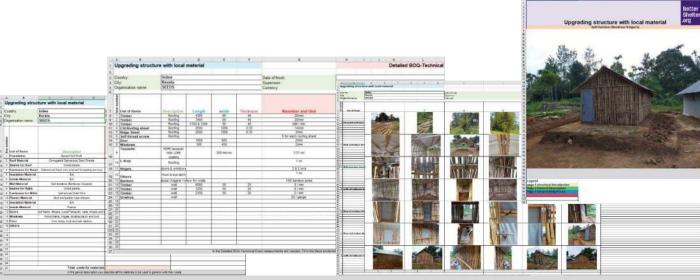
Over time, as communities and markets recover, *Structure* can be upgraded with **local materials** by humanitarian actors, local government and civil society, and/or residents themselves. In this way, *Structure* enables **incremental upgrading** and can be adapted to different climates and contexts, building traditions and cultural norms.

The frame is a proven design with over 60,000 units deployed, as the Refugee Housing Unit, which includes additional composite panels that can also be added at any time to *Structure* shelters. Made from steel, the frame lasts for ten years and can be reused, repurposed and recycled. Equally, the tarpaulin and local materials used in the *Structure* approach can, if carefully selected, be **re-used** in **repair** and **reconstruction**, thereby constituting 'transitional tents'. The *Structure* approach considers sheltering as an incremental process, offering inhabitants the maximum control and flexibility, as well as minimizing both costs and environmental impacts, as all materials used in the emergency shelter have follow-on uses or value.

KEY FINDINGS COMMUNITY INVOLVEMENT



- Easy to deliver, distribute and build.
- Comprehensive assembly manuals and a training of trainer approach involves the community to build, take ownership and maintain the structures.
- The decision how to construct durable shelter must not be taken during the emergency phase.
- Communities can and should be involved in all phases of the shelter response.



KEY FINDINGS PROGRAMMATIC DIFFERENCES



- Low weight to volume ratio it is suitable both for emergency fly in and for stock piling.
- Tarpaulin based on universal humanitarian standards can be used for emergency cladding, procured both locally or globally.
- Suitable to stockpile both Structure and upgrading materials
- Decisions on materials to use can be done later together with the community.
- Structure can be implemented at scale both by implementing partners or by community driven approaches.
- The use of the emergency solution later in the recovery phase is the main benefit of the Structure approach.
- The modularity and flexibility of structure makes it suitable not only for shelter but also for other infrastructure.

KEY FINDINGS THE NEED FOR GUIDANCE AND FRAMEWORKS





- Better Shelter will focus more on providing guidance and support
- Structure has been evaluated by Shelter Center for Sphere Coherence and Design Evaluation both on tarpaulin use for emergency and local materials for recovery.
- BoQs for various claddings should (and are) being collected to share within the community.
- Building guidelines that can be distributed to beneficiaries both to build but also to perform maintenance.
- Selection of materials and techniques should be made on possibility for affected communities to independently perform maintenance and repair, to allow for longer lifespan.
- Further evaluations of reuse, repurpose and recycle measures should be done.
- Joint R&D between Better Shelter and various organizations both on HQ and field level has proven very successful.

KEY FINDINGS EXTENDED WITH WASH AND COOKING





- Structure should allow for upgrade with WASH and Cooking areas.
- The modular frame of Structure works well to extend at later stages.
- Pilots are planned in NW-Syria to evaluate WASH and Cooking extensions
- The combination of different materials and the use of space can be explored further to achieve a more durable shelter with more dignity and privacy.
- The modularity can also work well to adapt the shelter for PWSN.

NEXT STEPS CONTINIOUS DEVELOPMENT



- Continuation of small scale pilots for new partners.
 Geographical, operational and organisation fit
- Pilot at Scale (100-1000 units). What are implications going from 15 to 150 or 1000 units?
- Collaboration platform online for guidleines, BOQ and materials to share knowledge in the community



Want to get involved, let us know!

INTERRESTED IN PILOTING STRUCTURE CONTACT US





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