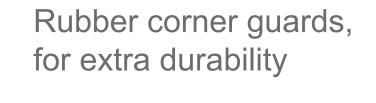
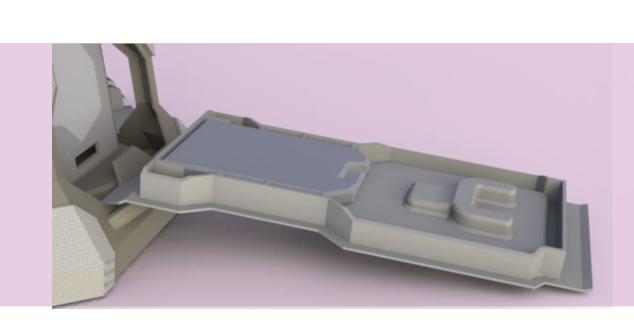


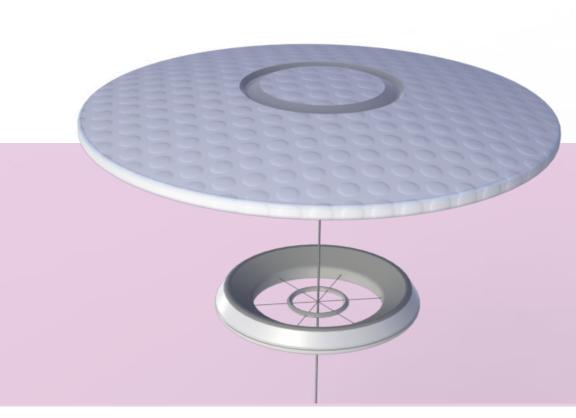
medic tent







Ribs built into the back of the collapse walls act as a grip, holding the battery in place



Inflate the solar balloon

Market delivery

Handles flex in and

out of product wall







protective cover and houses the

battery packs





market opportunity for military based companies to innovate and expand. Mobile energy has been done before but not to the size and ambition as this proposed design - Pushing the core theme of a sustainable energy source that can be used and exported any were in the word to help field medics use life saving equipment

that normal can not be use

This product creates a new

Brand culture



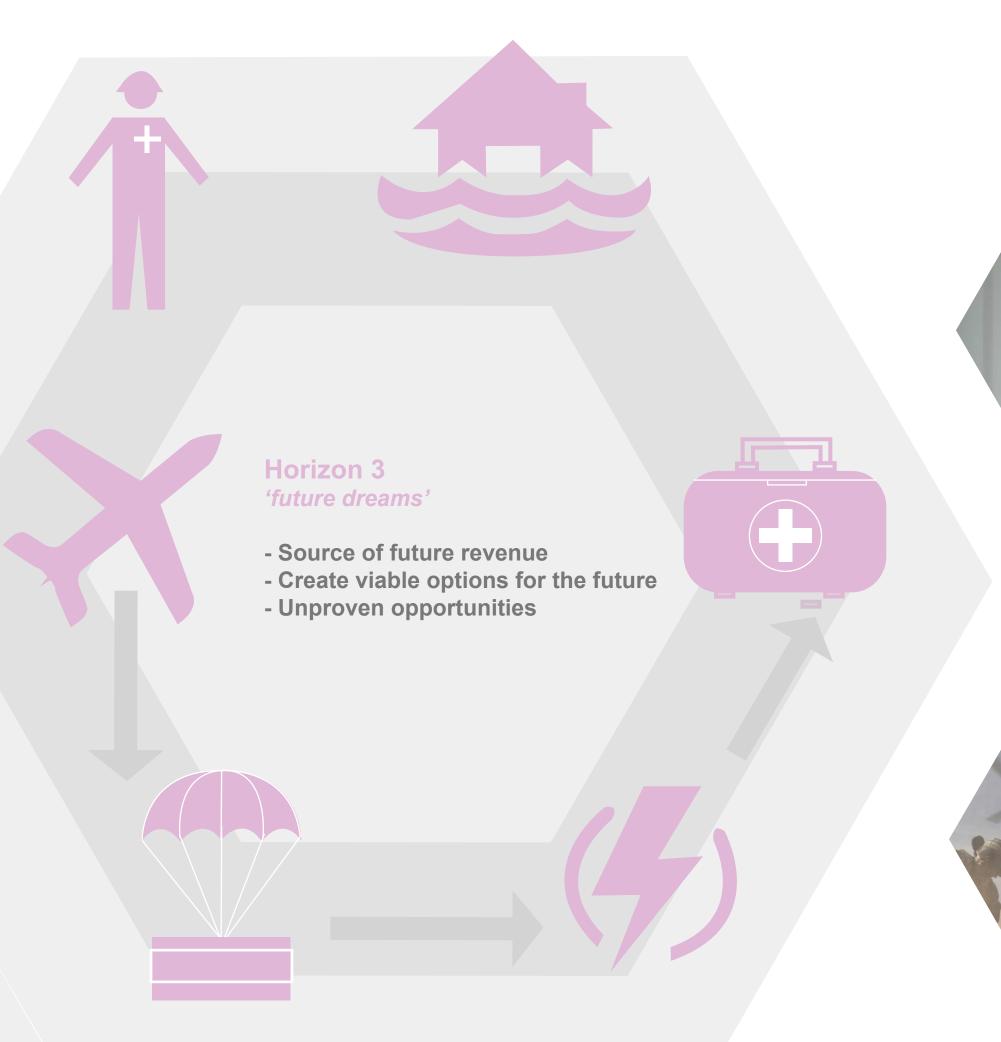
"Going into a situation like a natural disaster is scary, you don't know who's hurt and what your going to need to get them though it" Cpt. P. Newland

Blue Ocean Market

Focused on innovating new value -Innovating new market -

- Generate new market sectors - Innovate new product features
- Transfer new / emerging technologies

High risk - high return





British Red Cross

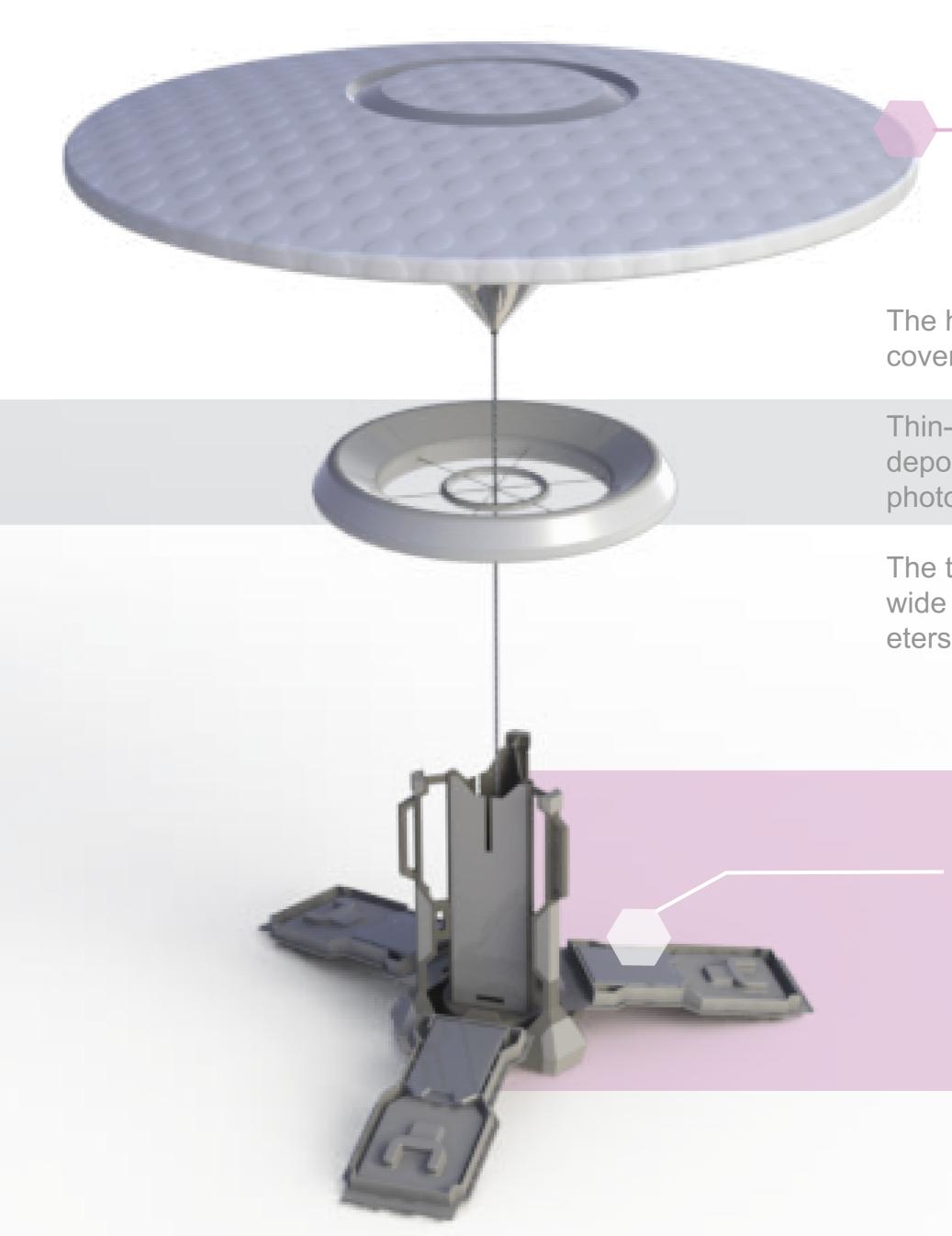








"Red Cross is committed to helping vulnerable people around the world to prevent, prepare for, and respond to disasters, complex humanitarian emergencies, and lifethreatening health conditions. Our emergency response and disaster preparedness programs provide relief and development assistance to millions of people annually who suffer as a result of natural and man made disasters around the globe."



The helium-filled balloons, are covered with thin-film solar panels

Thin-film photo voltaic cell is made by depositing one or more thin layers of photovoltaic material on a substrate

The thickness range of such a layer is wide and varies from a few nanometers to tens of micrometers

- > Silicon nanostructure
- > Modifying incident spectrum (concentration), to reach 300-500 suns and efficiencies of 32% to +50%.
- > Use of excess thermal generation (caused by UV light) to enhance voltages or carrier collection.

The battery bank, will be key in the storage of the off the grid power. LiFePO4 will be the chosen battery that will be stored inside the drop down doors of the unit.

LiFePO4 Box Battery with DC controller is a ideal battery for solar power storage because of its long cycle life, high temperature performance and full protection from overcharged and discharged.

Materials

Roll-to-roll processing is the process of creating electronic devices on a roll of flexible plastic or metal foil.

Large circuits made with thin-film transistors and other devices can be easily patterned onto these large substrates, which can be up to a few metres wide and 50 km long. Some of the devices can be patterned directly. For most semiconductors, however, the devices must be patterned using photolithography techniques

- Durable
- Flexible plastic substrate
- Roll-to-roll manufacturing to minimize handling costs
- Amorphous silicon to avoid dependence on the silicon wafer market cycle
- Printed interconnection to automate the cell connection process.



- The capsule that houses the solar balloon / balloons, helium and battery storage is mainly made from Hadfield steel or Manganese steel
- This steel contains 12–14% manganese which when abraded forms an incredibly hard skin which resists wearing
- The alloyed steel is perfect for the capsule as the product will be in variety of testing environments where the extior through such

Manufacture

Many advantages make rotational moulding the best choice. One of the greatest advantages is the reduced cost of tooling.

Moulds can be machined, cast or fabricated from materials such as stainless steel or aluminium.

Other benefits of rotational moulding include:

- Design flexibility to meet specifications
 One-piece seamless construction
- One-piece seamless constructionMetal inserts and fittings as integral partsUniform wall thickness
- Resistance to corrosionVariety of colours and finishesLightweight

- Product longevity

- Lightweight- Excellent Load-bearing properties- U.V. resistance
- U.V. resistance- Moulded-in graphics, such as logos, and embossing

Safety lid

Main handle grip

Drop down battery storage

Solar ballon storage

Rubber corner guards

Helium canister

