

Mobile modular unit

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Mobile Modular 120m2 Unit



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SPEEDKITS

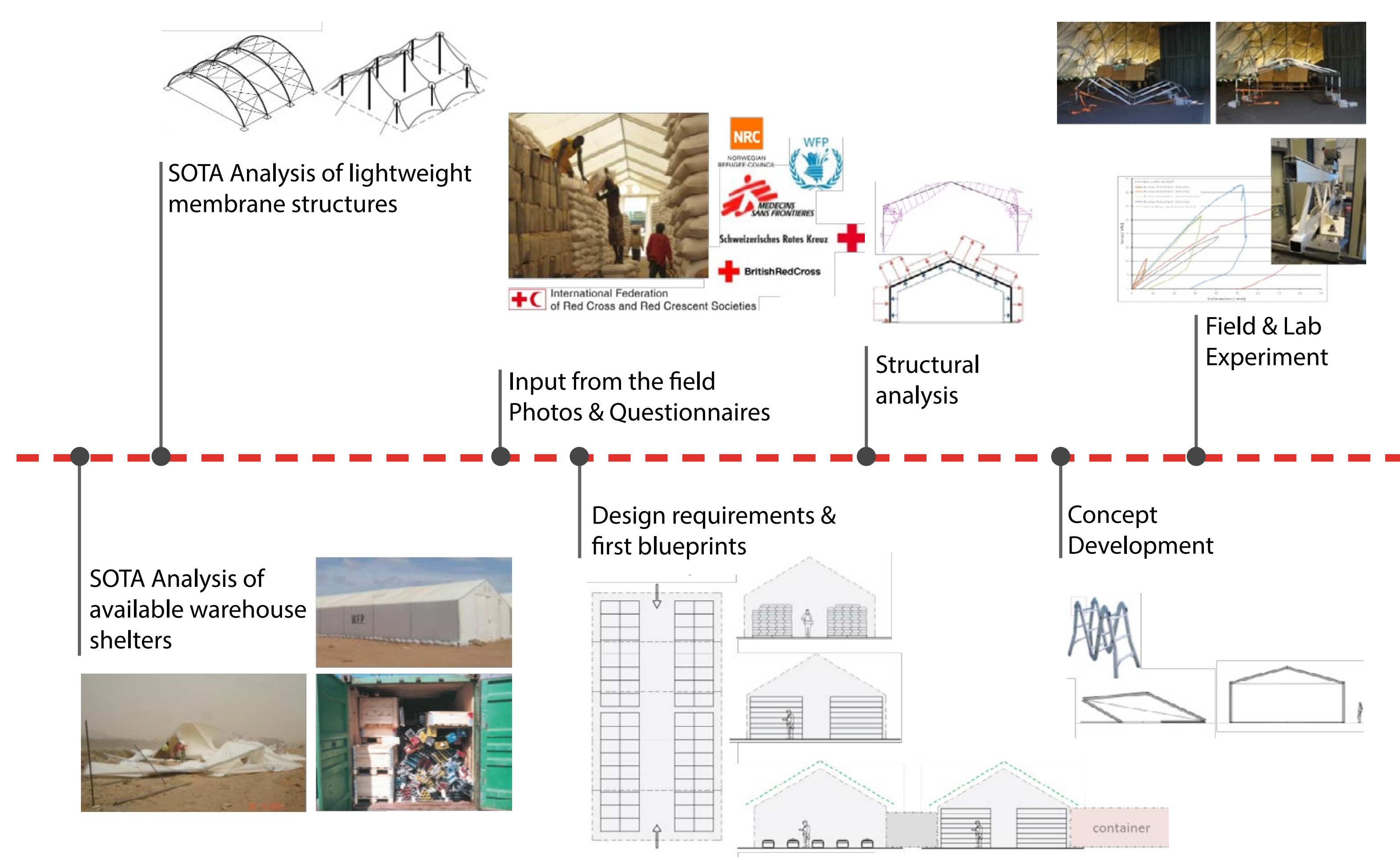
EMERGENCIES OCCUR IN DIFFERENT CLIMATE CONDITIONS, HUMANITARIAN ORGANISATIONS ARE DEMANDING MULTIFUNCTIONAL SHELTERS ADAPTED TO CLIMATE CONDITIONS.

The European S(P)EEDKITS project responded to this demand. Therefore, the University of Technology Eindhoven (shelter research group), IFRC-SRU (NGO) and WRG (industrial partner) designed and produced a prototype of a multifunctional tent adaptable to the climate conditions which is tested in the field.



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1. RESEARCH of requirements for concept design



2. CONCEPT design with adaptability



- Structural safety & Reliability
 - Setting a new structural safety standard
 - Temporary tents: 3 months safe use (EN 13782)
 - MMU120: 10 years safe use (EN 1990/1991)
- Personal safety & ease of assembly
 - Manual assembly method without climbing or power tools
- Versatility & compatibility
 - BASIC KIT
 - 10 year lifespan, low wind, no snow
 - PLUS KITS
 - Structural upgrades for heavy wind & snow loads
 - ADD-ON KITS
 - For extended functionality and connectivity

3. FIELD TESTING

- November 2015: Senegal deployment of MMU120
- Procurement through WRG (Wijnroemer Relief Goods)
 - Manufacturing
 - Logistic handling
 - Assembly manual



RESULTS

- Modular lay-out, quick assembly and multiple configurations possible, competitive pricing
- Dimensions: 8m span x 15m length (+3m extensions)
- Reliability
 - 2.8m side wall height
 - PLUS KITS for structural upgrades
 - 2 Wind classes: W1 - 20 m/s | W2- 31 m/s
 - 2 Snow classes: S0- no snow | S1 - 50 kg/m2 | S2 - 100 kg/m2
- Acceptance
 - Positive -> Upgrade and modification of a proven system (MSF used WRG system in Sudan & in Ebola campaign)
- Modularity
 - Functional ADD-ONS to increase possibilities for size, connectivity, acclimatization and use

