

SP^{EED}KITS

rapid deployable kits as seeds for self-recovery



Shelter Meeting 13a

 International Federation
of Red Cross and Red Crescent Societies

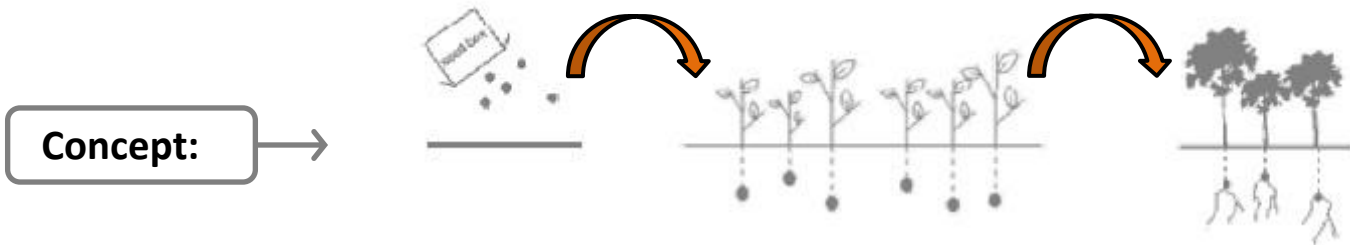
Shelter Research Unit
an initiative of the Benelux Red Cross Societies

Geneva, April 26th

Rapid deployment of shelters, facilities and medical care resources following a major disaster

Definition

S(p)eedkits = Rapid deployable kits as seeds for self recovery



European Commission Founding



Consortium

Partners: →

- 1 - Humanitarian actors
- 2 - Academic Sector & Research Laboratory
- 3 - Private Sector

→ 8 Working Packages

Start:
March 2012

End:
March 2016

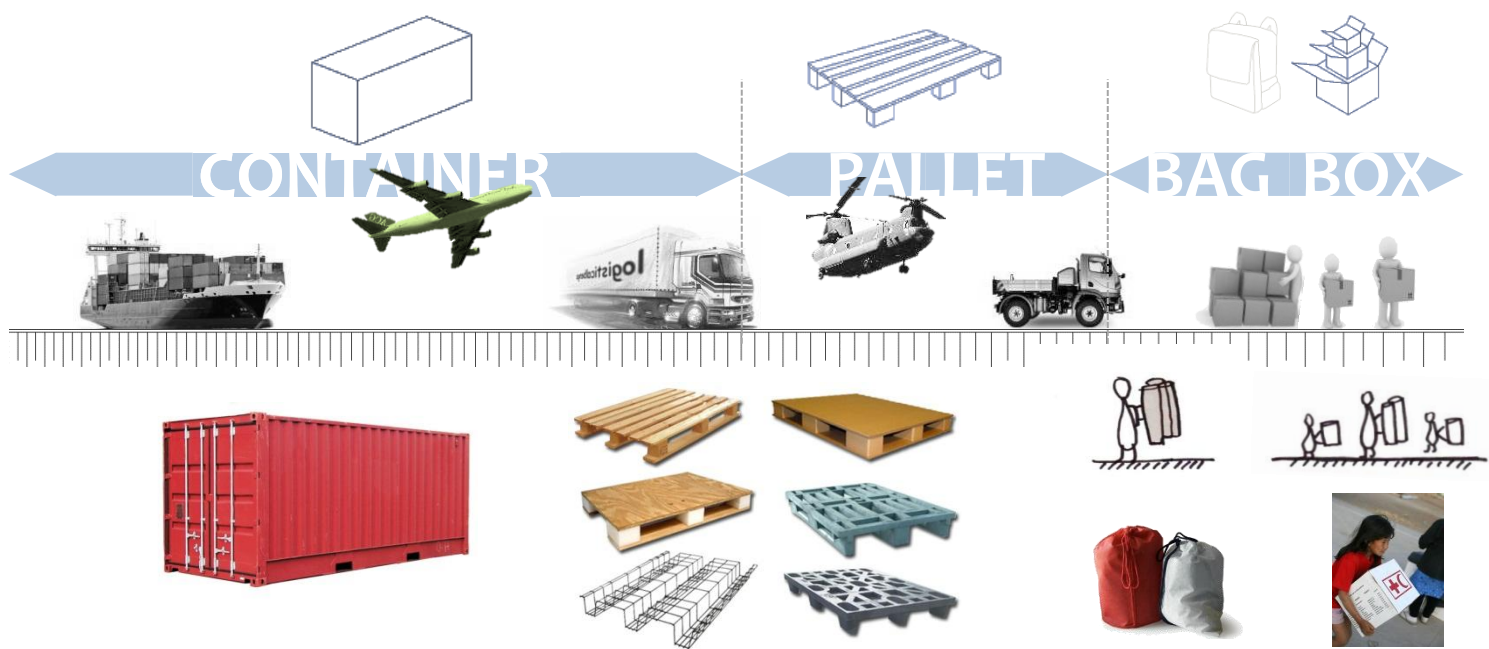


Rapid deployment of shelters, facilities and medical care resources following a major disaster

WP 1

System design

- Task 01 – Packaging
- Task 02 – Optimization & Simplification
- Task 03 – Reduction of the risks
Optimization & transportability



Rapid deployment of shelters, facilities and medical care resources following a major disaster



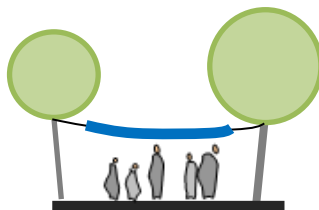
WP 2

Shelters

- Task 01 – Design & Blueprints
structure / components / weight / volume / innovation / adaptability
- Task 02 – Materials development
lightness & robustness / thermal comfort / acoustic / mechanical proprieties
- Task 03 – Structural development → constraints & boundary conditions
Shape incidence
- Task 04 – Mock up + tests

Type 1

Ultra light unit



Type 2

Collective unit



Type 3

Family house unit



Type 4

Warehouse unit



Rapid deployment of shelters, facilities and medical care resources following a major disaster

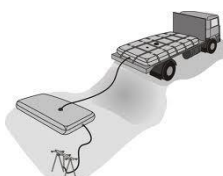
→ WP 3

Facilities + Watsan

Task 01 – Definition of emergency watsan kit

Task 02 – Tests

Task 03 – User manuals & Trainings

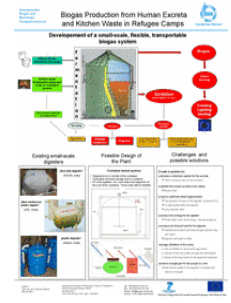
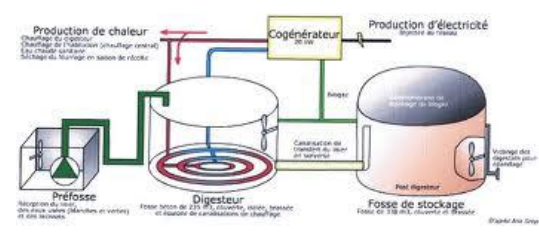
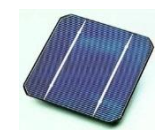


Rapid deployment of shelters, facilities and medical care resources following a major disaster

→ WP 4

Infrastructures

- Task 01 – Container level
Command base + Communication + Medical center
- Task 02 – Energy systems investigations
Biomass + Solar
- Task 03 – Recycling kit for debris



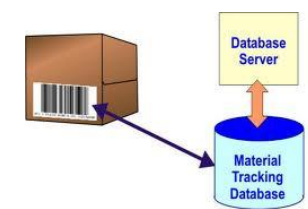
Rapid deployment of shelters, facilities and medical care resources following a major disaster



WP 5

Deployment & Transport

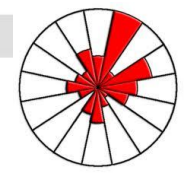
- Task 01 – Deployment Decision Tool
- Task 02 – Tracking System
- Task 03 – Software tool
(open source software)



Software Tools



Test Tool Selection and Implementation



Rapid deployment of shelters, facilities and medical care resources following a major disaster



WP 6

+HOSPITAINER



PRACTICA

D'APPOLONIA



SIOEN

CEN
TEX
BEL

ARTSEN
ZONDER GRENZEN

NRC
NORWEGIAN
REFUGEE COUNCIL



Demonstration

Task 01 – Development and demonstration plan with different prototypes

Task 02 – Demonstration of individuals Emergency Response Kits
+ Cross check watsan implication

Task 03 – Rapid Deployment Demonstration under difficult conditions
during winter in the Luxembourg hills

Task 04 – Demonstration / Tests in the field



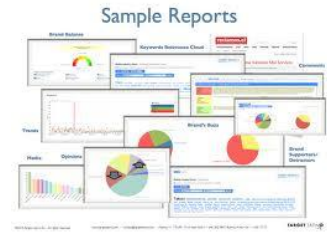
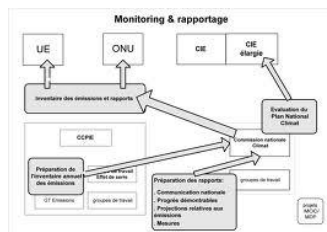
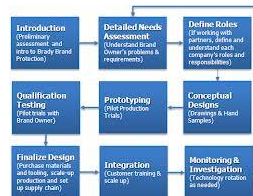
Rapid deployment of shelters, facilities and medical care resources following a major disaster

WP 7

Exploitation & Dissemination

**Task 01 – Development and Execution
 Dissemination Plan + Dissemination Event**

**Task 02 – Exploitation Plan
 Study & Monitoring**



Rapid deployment of shelters, facilities and medical care resources following a major disaster

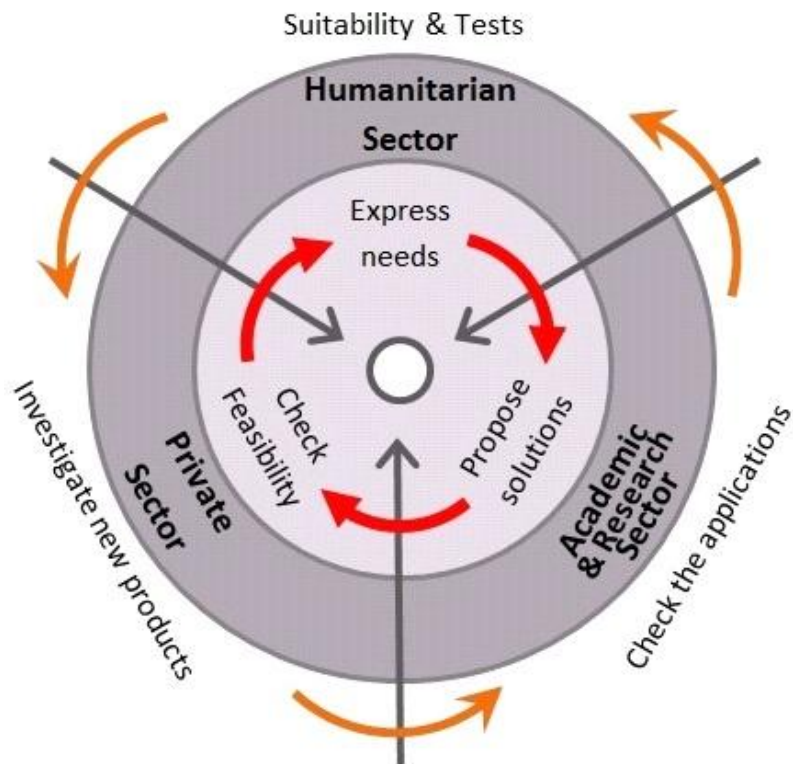


WP 8

Coordination

Task 01 – Quality Management
(Quality Assurance + Planning + Improvement + Control with monitoring of the results)

Task 02 – Coordination



Prototype development
Proof of principles
Demonstration phase
Field evaluation

CEN
TEX
BEL



WASTE

DIAPYPOLOONLA



SPEEDKITS

rapid deployable kits as seeds for self-recovery



Vincent Virgo, vincent.virgo@croix-rouge.lu