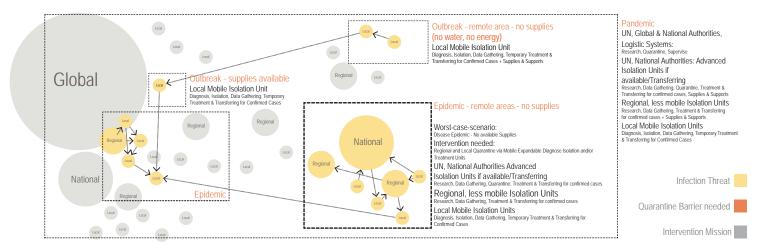
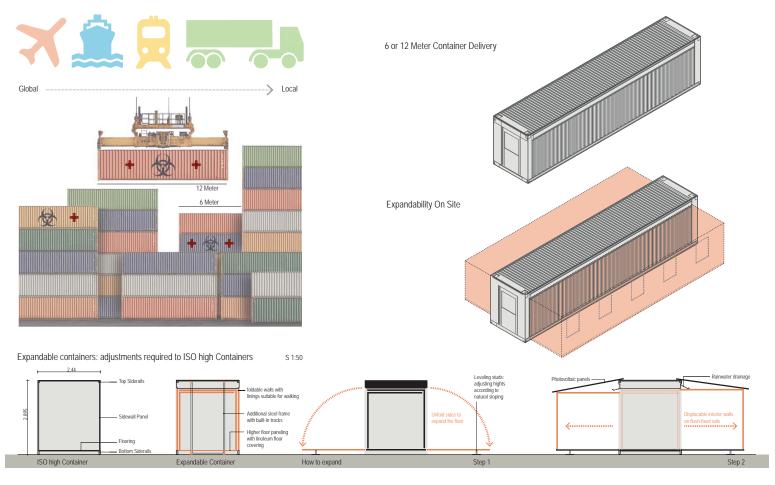
2015 UIA-PHG International Student Competition

Design of a Mobile Isolation, Diagnosis and/or Treatment Unit for use, in Ebola or Other Communicable Disease Epidemics

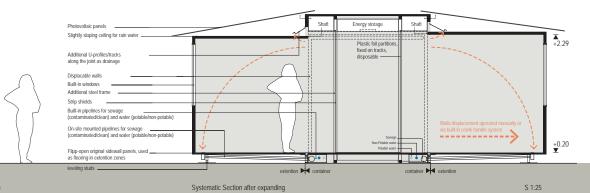
## Levels of Action in Case of Infectious Disease Spread



Necessary approach: overall strategy - logistics - shipping - mobility - flexibility - expandability - case specific



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Expandable Containers: How does it work?
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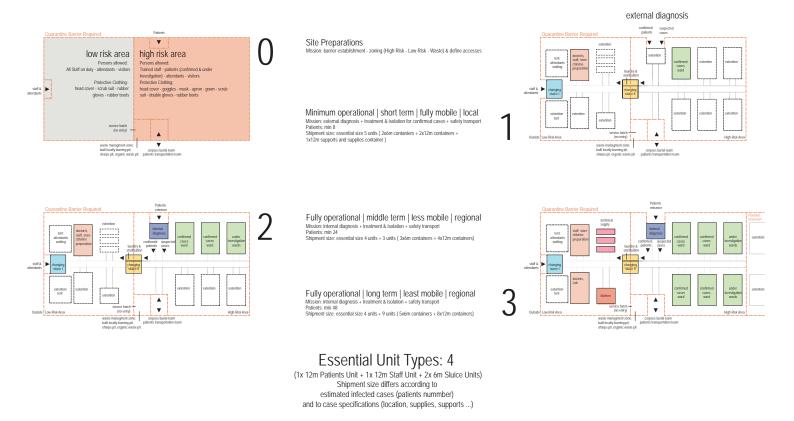


Systematic Section aefore expanding (shipment)

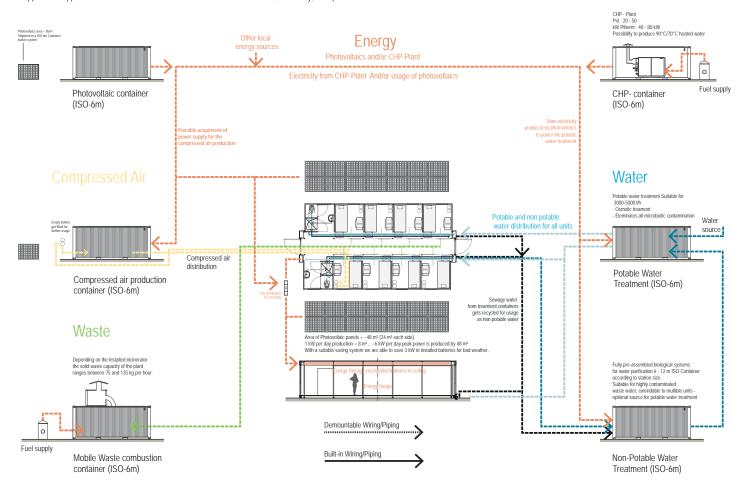
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Design of a Mobile Isolation, Diagnosis and/or Treatment Unit for use, in Ebola or Other Communicable Disease Epidemics

## Expandable Container: a flexible system & a practical solution for remote areas Functional Distrubution, Site Management & Shipment Size



## Shipment Add-ons: Supports, Supplies & Self-efficiency (on demand - case specific) All Supports & Supplies containers must be secured and situated at low risk area; eventually, on top of the essential units



From Outside

Design of a Mobile Isolation, Diagnosis and/or Treatment Unit for use, in Ebola or Other Communicable Disease Epidemics

## Expandable Container: Patients Isolation/Treatment Unit - Essential Unit Types

Sluice Unit 1 Outside - Low Risk Staff Unit Low Risk anding after transp val of delivery to the site ling after transp 10. Install exterior basin 11. Fix foot bath tub 11. Prepare for patients' adm Packing after use cking after us back Shipment Shipment Expanded Expanded dranging cobin 1 dranging cabin 2 Ŭ  $\odot$ To Staff Unit -\-> 0 . May out 0 To High Risk changi cabin ' M washing \_\_\_\_\_ \_ \_ \_ \_ \_\_\_\_ To High Risk Sluice Unit 2 Low Risk - High Risk Patients Unit (Confirmed Cases / Under Investigation) High Risk Expanded Expanded Ø Aprotestaff only laundry & sterilisation dirty side abir (•



Shipment

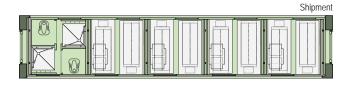
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partition to these factors after USE: spossible items finanture and all surfactors all doors are looked it senage pips leaderic repping (senage-water) ectics and network wing



9. Fold the sidepantes back 10. Remove the leveling studs 11. Transport to another site Expanded

S 1:50



Explanding after wantsport. 1. Arrival of delivery to the site 2. Distribute and fix leveling studs 3. Unfold sitegramesh and fix on leveling studs 4. Pull both built-in Walls outwards on their tracks manually or via the built-in crank bandle system. 5. Install photovalia: panels on the roof 6. Install electric and network witing 7. Install electric and network witing 7. Install electric mising feasons, susten

acking after USE: Remore disposible lems Disinfect all fumiture and all surfactes Circe and lock bathnorm doors Put bath protable compressed at bottles inside circss (applicable to all patients cabine) Circe and lock the coset, then side in under the linets bed (applicable to all patients cabine) Meis sure all knows are indived 9. Install new foil partitions and sitip shields on the tracks 10. Install both basins 11. Prepare for patients' admission

8. Remove all exterior piping (sowage-wardor) 9. Remove electric and network wiring 10. Remove electric and network wiring 11. Publ both built in Walls along their tracks back manually or via the built in carsh handle system. 12. Fold the sidepanies back. 13. Remove the leveling studs 14. Transport to another site