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About the motif:
The thistle (lat. carduus) is a special symbol to us and patron for our name. It is a medicinal and pioneer plant in one, grows even under poor conditions and prepares the ground for other plants. It is defensive and with its flowers beautiful at the same time. It can also be found almost everywhere in northeastern Syria, where we have been active since our foundation in 2014.
Their are not enough ambulances and medical personnel in conflict zones.

5 staff and 2 vehicles are required to transport 1 patient.

Driver + Medic + Support vehicle = Patient
The intent is to create an open source system to convert buses into ambulances as buses are in ready supply in most parts of the world.

These buses are not expensive custom buses imported from afar but something existing on the ground that can be refitted at low cost and as needed as crisis unfolds.
THE SOLUTION

AMBULANCE = 5 Staff for 1 Patient

BUS = 2.5 Staff for 1 Patient

2nd Ambulance

RV

Sedan or Wagon
In the Ukraine distances are vast

A bus is built for these sorts of distances and has a greater range than an ambulance
A variety of Off the Shelf Ambulance buses exist ranging from $105K USD without equipment however these units are generally assigned specific uses in first world countries and may not be equipped or available for conflicts or crisis.

Many countries may not be able to afford to have these buses standing by and it can take time to relocate a bus to a conflict zone.

The Mobile Makers Space has the ability to convert an existing bus on the ground and fit it out with the necessary medical equipment much more inexpensively and to respond to the conflict or disaster wherever it may happen as it happens.
1/ ICU MODE
Act as a mobile ICU in conflict situations

- 2
- 6
= 4

2/ TRANSPORT MODE
Move injured patients

- 2
- 6
= 4

3/ CARE MODE
Act as a ward for patients in need of care

- 4
= 4
A **Patient Treatment Unit** is the equipment needed to treat a single patient.

- Defibrillator: Zoll X Series, Bistos BT-770
- Injection Pump: Braun Compact, Laerdal Suction
- Monitor: Hamilton T1, Edan SE3
- Suction Pump: Tasmanian Tiger Medic transporter
- Ventilator: Stryker 6100 M1
- Equipment Pack: Tasmanian Tiger Medic transporter
- Stretcher: Stryker 6100 M1
PATIENT RAMP

- Rigging to assist stretcher lift
- Access stairs
- Ramp for loading patients on Stryker into bus

SECURE STRETCHER

- 50 X 50 X 5 MM Brackets on seat fixing rail
- 5cm Ratchet across stretcher to lugs
- 50 X 50 X 5 MM Brackets in seat fixing lugs
**SEAT PLAN**

- Fold out seat for second driver
- Seats for medics or passengers if needed
- Seats with extra leg room for raised leg for example
- Rear facing seat to look over patients

**OVERHEAD HOLDS**

- Holes for rigging or placing gear (part of existing bus)
- Overhead hand holds for stability or inserting brackets for gear
PREPARATION STATION

- Medical equipment
- Tape rack
- Slide out drawer for laptop
- Drawers for equipment
- Fridge

WATER INTERFACE CLEAN

- Movable faucet to clean where is needed
- Clean tub placed on rails
- Towel rails
- (Sink module conceptual)

WATER INTERFACE DIRTY

- Garbage bag holder for urine bags
- Urine into black water tank via sink
- Feces emptied directly into tank
- Trap door fixes to desk to hold open

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**STORAGE**

- 6 x (420 x 420 x 700) Storage compartments to suit field kit bags
- 2 x (420 x 420 x 700) Storage compartments to suit field kit bags

**VENTILATION**

- Ventilation when moving connected to the AC system
- Ventilation when moving
- Ventilation when stationary
- Ventilation when stationary
CADUS works in medical and technical emergency and disaster relief to lead people in crisis and disaster areas out of life-threatening situations and to enable healthy, safe and self-determined living conditions on site.

Effective cooperation, Interdisciplinarity and critical reflection of current NGO practice, as well as early involvement of local communities, are among the core values of CADUS.

From doctors to hackers to technicians, over 300 volunteers have contributed to CADUS' development into an international NGO that takes new approaches to humanitarian work.

In the meantime, CADUS has been able to actively contribute to supporting people in crisis situations in 11 countries. Since March 2022 CADUS is responding as Emergency Medical Team in Ukraine.

We are very conscious of where your money goes. Your donation will help with these following areas

**PARTNERS**

We are looking for financial and supplier partners to actualize these buses around the world

**BUS DONATION**

$65 K USD will allow the fit out of an entire bus including bringing in specialized staff to oversee the refit of the bus with the help of volunteers

**EMT MODULE DONATION**

$50 K USD will create buy an EMT Module with all the equipment to treat one patient

**MEDICINE**

Donations are needed for medical supplies.