

BEFAST EMT initiative

Mission Kirikan, Turkey

Introduction



History

- ▶ Earthquake in Haïti
 - ▶ 200000 deaths in a few seconds
 - ▶ Difficult organization
 - ▶ Dangerous
 - ▶ Country without rules



Problems

- ▶ Chaos

- The entire world was sending help

- Fieldhospital - african priest

- Problems: food /water / sleeping /....

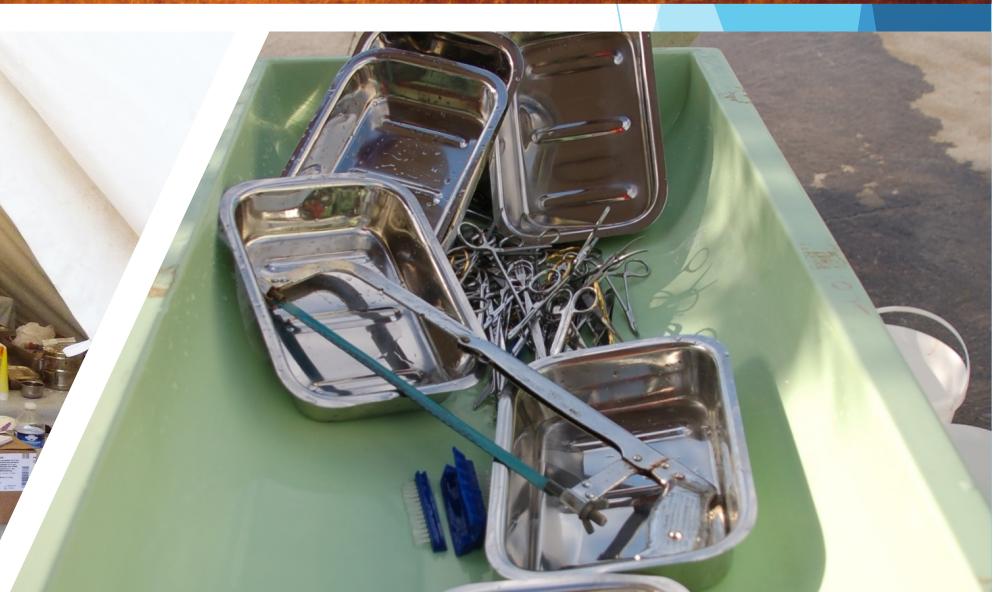
- ▶ No rules

- ▶ No accountability

- ▶ No pt. File

- ▶ Quality?

- ▶ Degree in medicine?





WHO Solution



EMT

- ▶ Emergency medical teams
- ▶ 911 for the world
- ▶ Rules for disasters

Rules

- ▶ Registration
 - ▶ Materials and people
- ▶ Qualitelabel, JCI for fieldhospitals
- ▶ Test
- ▶ License
- ▶ PT registration
 - ▶ Checklist + inform consent
 - ▶ Medical file
 - ▶ Archive

**TYPE 1 MOBILE**

Provide outpatient initial emergency care of injuries and other significant health care needs

**TYPE 1 FIXED**

Same as Type 1 Mobile but work out of a fixed structure and provide up to 12 hours per day of care, 7 days a week.

**TYPE 2**

Provide emergency care including surgery, 24 hours a day.
Deploy field hospitals with atleast 20 beds and can replace and support small district hospitals.

**TYPE 3**

Provide inpatient referral care and complex surgery. Provide large 40-100 bed facilities and can support and replace tertiary hospitals.

**SPECIALIZED TEAMS**

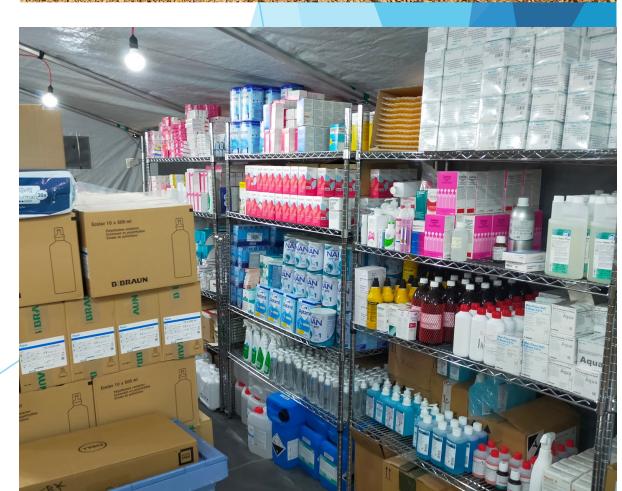
Specialize in specific medical area. May be as small as two three senior specialists, or a specialist facility eg. Ebola or Rehabilitation.
Must bring appropriate equipment and supplies with them.

Belgian EMT 2 Fieldhospital

- ▶ 20 beds
- ▶ Staff: 120 people (dokters, nurses, engineers, logisticians,...)
- ▶ Emergencie departement
- ▶ OR + Sterilisation
- ▶ ICU
- ▶ RX
- ▶ LAB
- ▶ Maternity + pediatrics
- ▶ Burnunit
- ▶ Infection control

Logistieks

- ▶ Medical suply's
- ▶ Water
- ▶ Food
- ▶ Sleeping
- ▶ Electricity
- ▶ Satelite connection
- ▶ ...





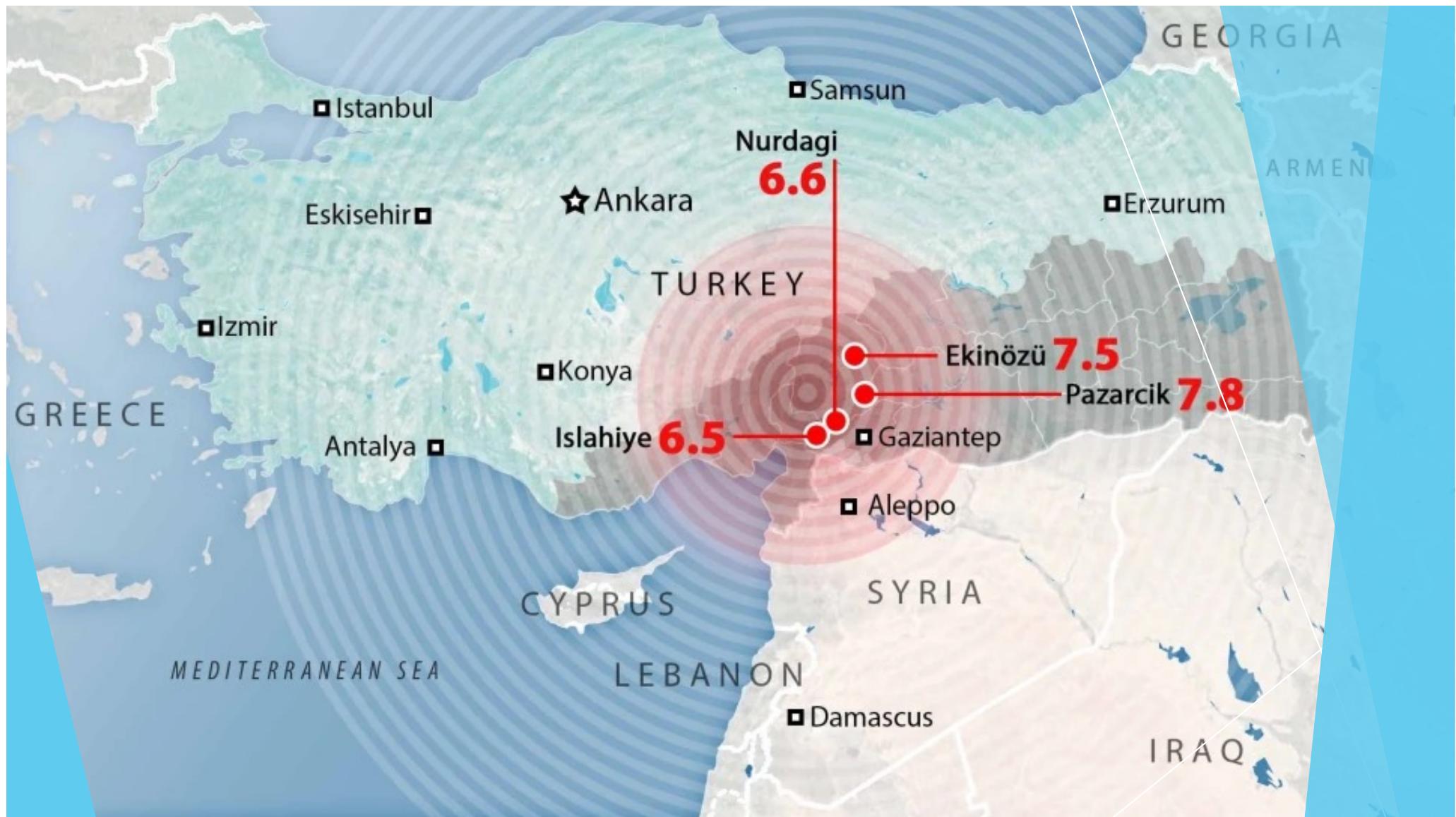


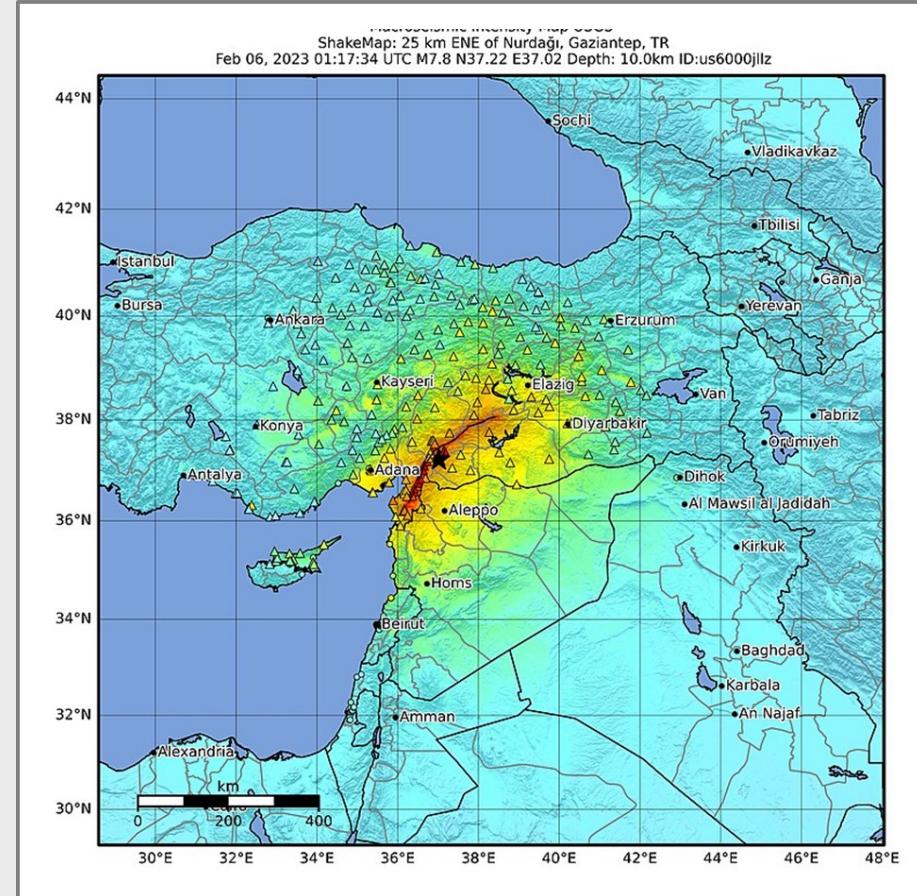
Earthquake
turkey





Reddingswerkers op zoek naar overlevenden en lichamen in Kirikhan. © REUTERS





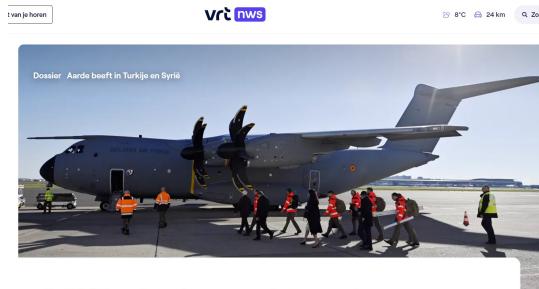
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heavy
PGA(%g)	<0.0464	0.297	2.76	6.2	11.5	21.5	40.1	74.7	>139

Statistics

- ▶ 50,096 deaths
- ▶ 115000 injured
- ▶ 345000 flats destroyed
- ▶ 164000 houses destroyed
- ▶ 2,7 miljoen people homeless

EMT Starts

- ▶ Belgium goverment sends a fieldhospital
- ▶ Volunteers are called
- ▶ Reconnaissance team flys to Turkey
- ▶ Kirikan



B-FAST-verkenningsteam dat op zoek gaat naar een geschikte plaats voor een Belgisch veldhospitaal, is aangekomen in Turkije

Vanavond is de eerste delegatie van het Belgische interventieteam B-FAST in Turkije aangekomen. Ons land zal er een veldhospitaal oprichten en bemannen om de druk op de Turkse ziekenhuizen na de aardbevingen van maandag te verlichten. Ten laatste volgende week donderdag moet het veldhospitaal volledig klaar zijn.

Nils Schillenweert, Belga
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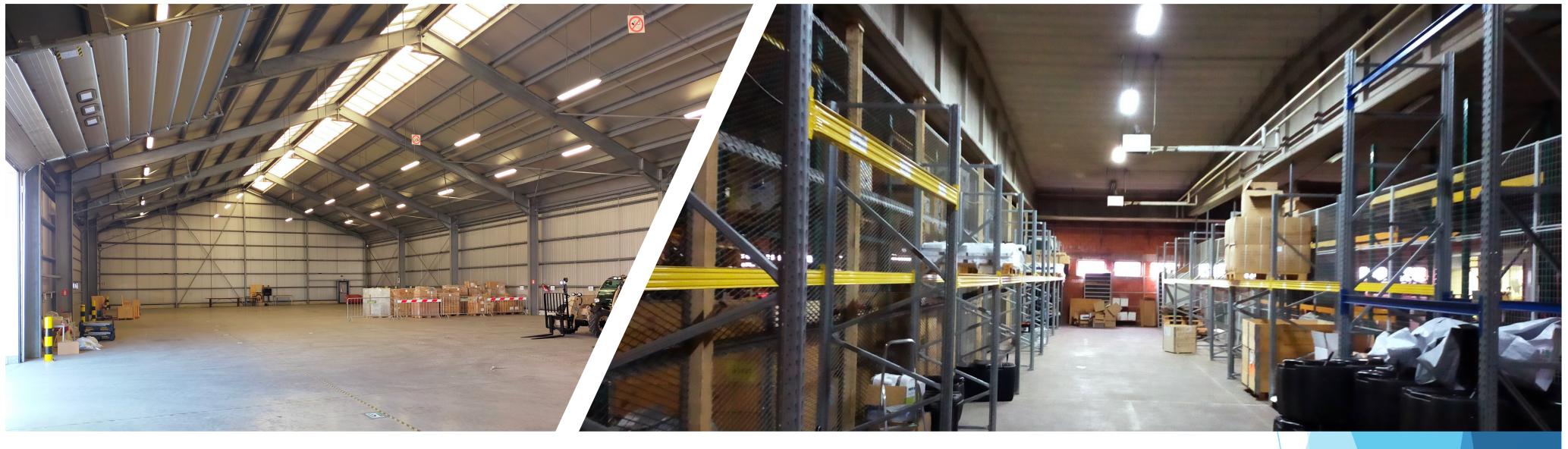
Logistical nightmare

- ▶ Incomplete hospital
- ▶ No medical supplys
- ▶ Never tested
- ▶ Never transported before
- ▶ First flight in 2 days

Mobilisation of Belgium



- ▶ Defence for transportation
- ▶ Public health for supplies
- ▶ Home Affairs for testing, packing,...
- ▶ Private sector
- ▶



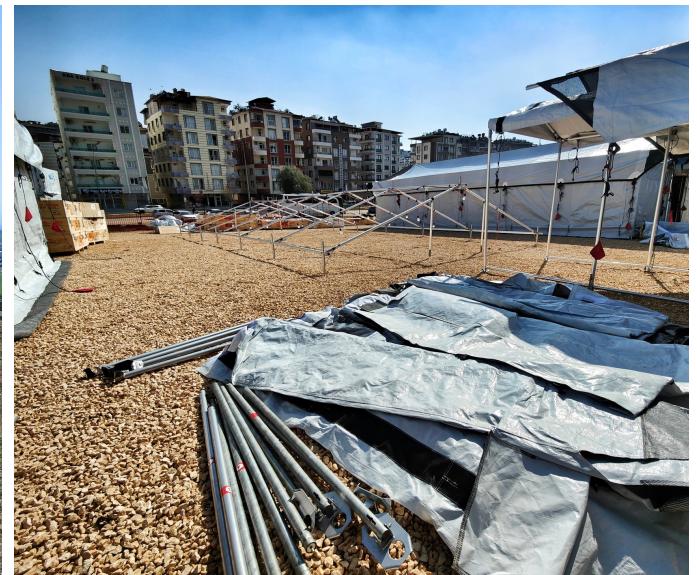
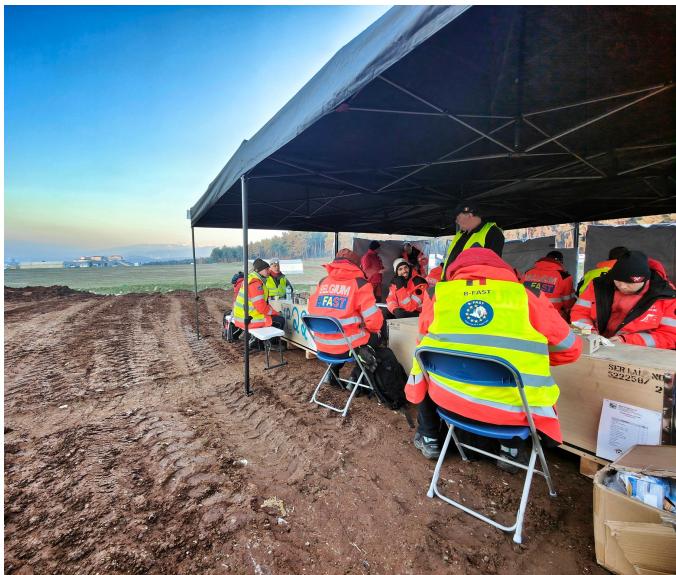
Result

- ▶ First plane left after 2 days
- ▶ 1 plane a day, 9 days
- ▶ Hospital operational after 10 days

Kirikan

- ▶ City of 60000 people
- ▶ largest hospital in the area
- ▶ Temperature at night -6
- ▶ No water
- ▶ No electricity

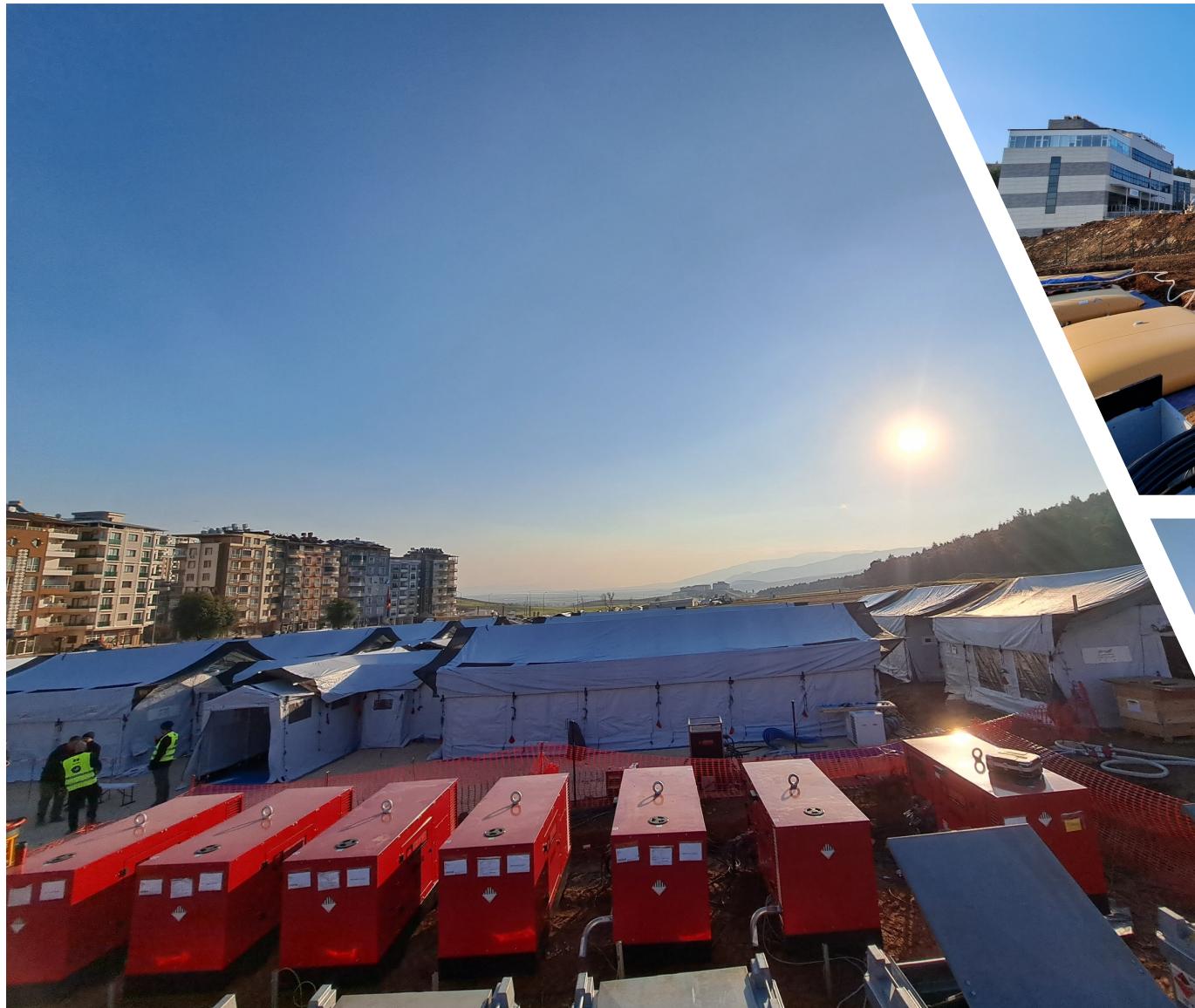












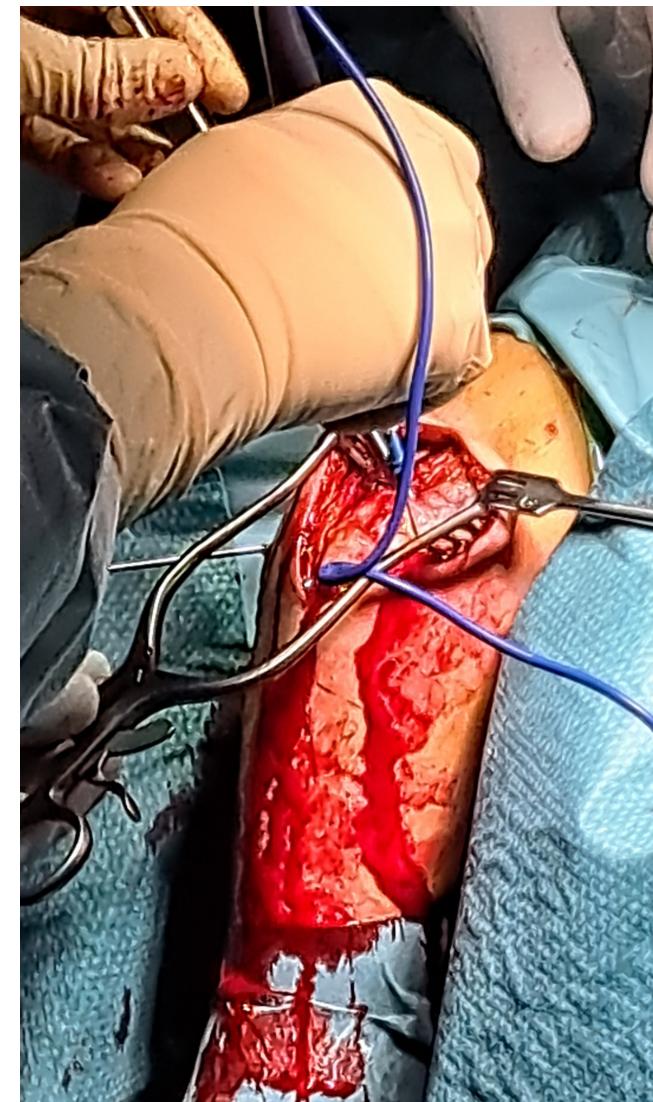






Type pathologie

- ▶ First rotation 1600 pt
- ▶ 160 surgical pt.
- ▶ Burns, childeren
- ▶ Fracture
- ▶ Laparatomie
- ▶ C-section
- ▶ Wond infections
- ▶ Scabies,....



Sterilization



Sterilization Haïti



Sterilization EMT fieldhospital



Problems to solve

- ▶ Nothing was tested
- ▶ No Sterile sets
- ▶ no consumbles (papier, soap, products, peelpack,.....)
- ▶ No staff
- ▶ We had to start operathing from day 1



Solutions

- ▶ Medical emergency team from defence
 - ▶ Consumables for 3 days
 - ▶ Sterile instruments for 5 operations
 - ▶ 2 nurses and logisticien used to work in the field
- ▶ Single use instruments
- ▶ Manuals to read in the plane
- ▶ Industry



Murphy's law

Murphy

- ▶ Autoclave crashed with first bowie and dick test
- ▶ Washing machine 1 hour later
- ▶ -5° in the sterilization
- ▶ Back up autoclave was between Brussel and Turkey

Solutions

- ▶ Heating in the sterilisation 24/24
- ▶ Called a technician in Belgium
- ▶ Started in a have day with the africain autoclave



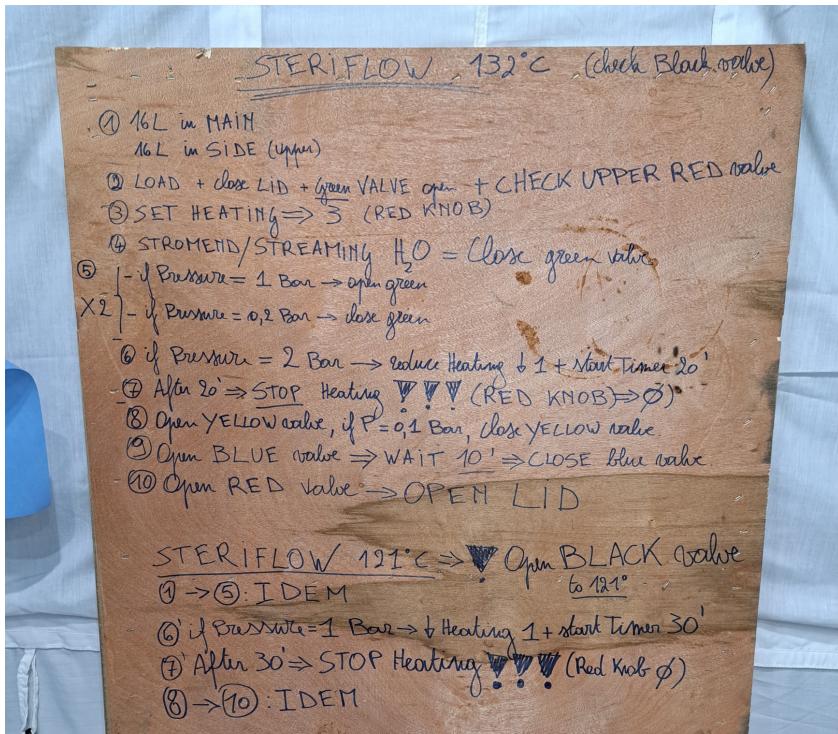
Robustex autoclaaf

Africa autoclave



Advantages / disadvantages

- ▶ It works on electricity , gas, wood, oil,...
- ▶ Easy
- ▶ Manually
- ▶ Time consuming
- ▶ No safety protocol
- ▶ No Quality protocol
- ▶ No peal pack



Procedure

Belgian brewery

- ▶ Others made fun of our installation
- ▶ Tried to shut us down
- ▶

Result



- ▶ All our tests were good
- ▶ Only country without sterilization problems
- ▶ Asked for help

Turkey in numbers

- ▶ Fieldhospital worked for 22 days
- ▶ 3503 patients
- ▶ 200 operations
- ▶ 8 births
- ▶ Used 9 planes
- ▶ Transported 180tons medical equipment



