MCI and Disaster Preparedness Program of the AUSL di Bologna

The GECAV training and education center

SERVIZIO SANITARIO REGIONALE
EMILIA - ROMAGNA
Azienda Unità Sanitaria Locale di Bologna

GECAV 118

Dr. Stefano Badiali MD - AUSL di Bologna - Emergency Dpt.
MCI & Disaster Preparedness Program

The GECAV center

Mission:

Medical Emergency Response of Railways and Highways Long Tunnels (70 + 60 km) accidents

- Boring phase
- Activity phase

Organization:

Part of the 118 system

The GECAV center

Vision:

- Training of specialized teams
- MCI management

Tools:

- Simulations
- Drills
- Planning

Training needs survey

What the System needs:

- Training of specialized teams
- Awareness of MCI management concepts
- Planning capabilities

What the Operators need:

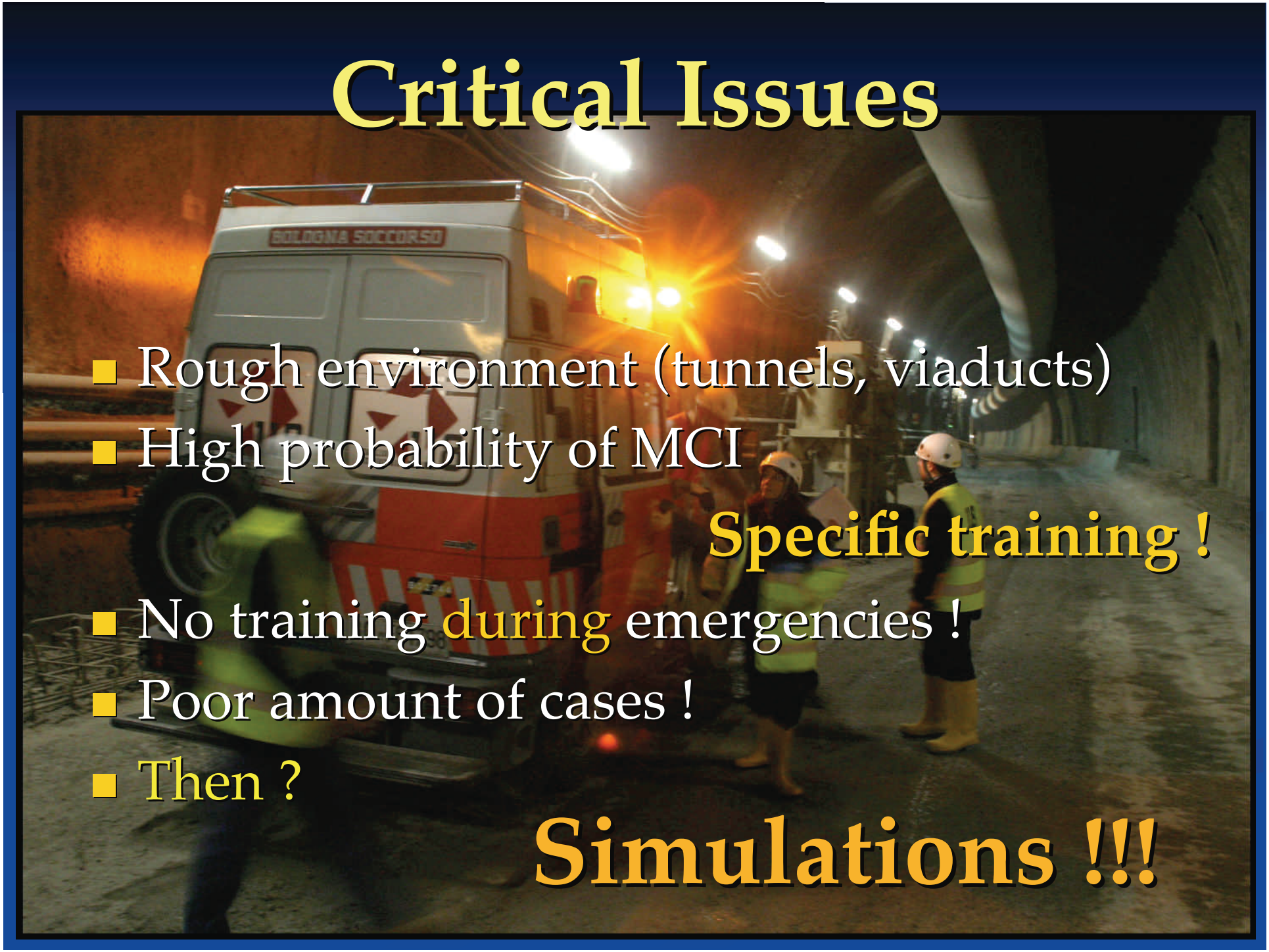
- Simulations
- Drills

GECAV Training Policy

- Training of specialized teams
  - Specific abilities courses
- Awareness of MCI management concepts
  - Joint training courses (by means of Emergo Train System®)
- Planning capabilities
  - According to AIMC (Italian Disaster Medicine Society) program

In addition to usual Medical Emergency training (BLS-ALS-ATLS, ecc.)

Critical Issues



- Rough environment (tunnels, viaducts)
- High probability of MCI

Specific training !

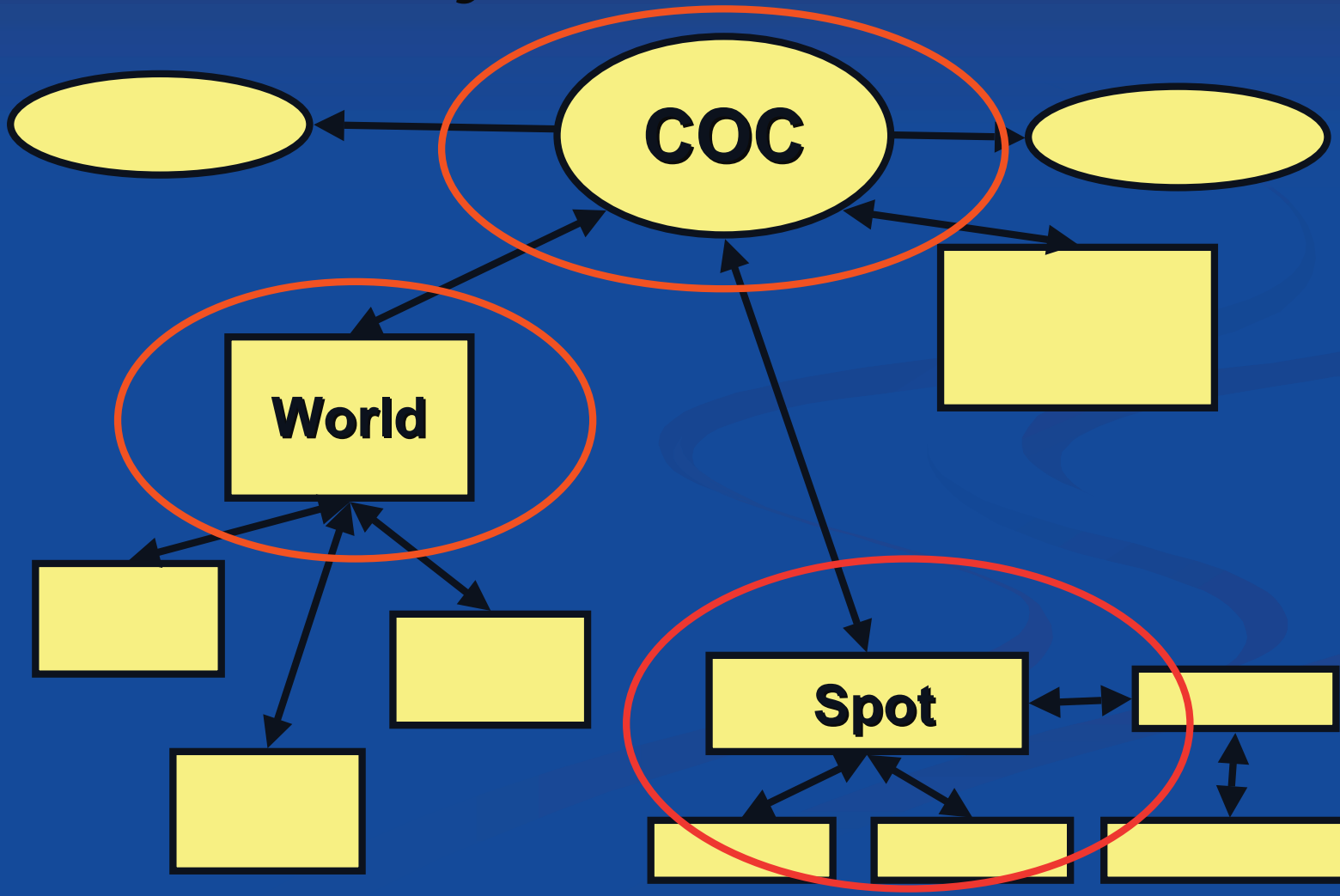
- No training during emergencies !
- Poor amount of cases !
- Then ?

Simulations !!!

Which Kind of Simulation ?

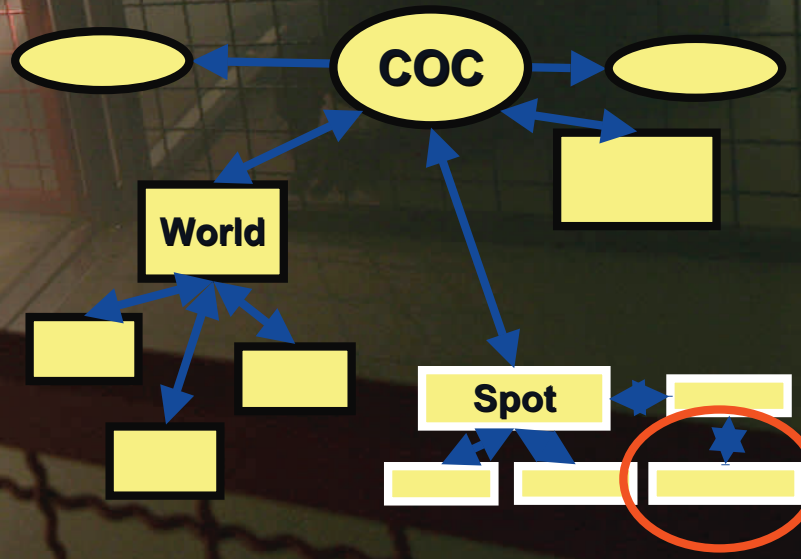
- What we want to reproduce ?
  - A complex system
- How we want to analize our drill ?
  - Splitting the whole system in subsystems
  - Performing subsystem simulations/drills

MCI/Disaster as a Complex System



ACAR* Course

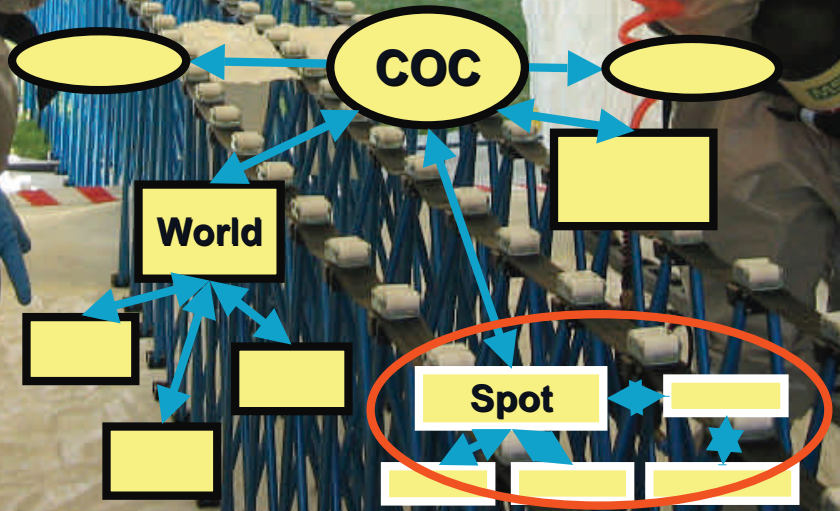
Focused on a specific performance



* = Ambienti con Carenza di Aria Respirabile (Low Oxygen Environment)

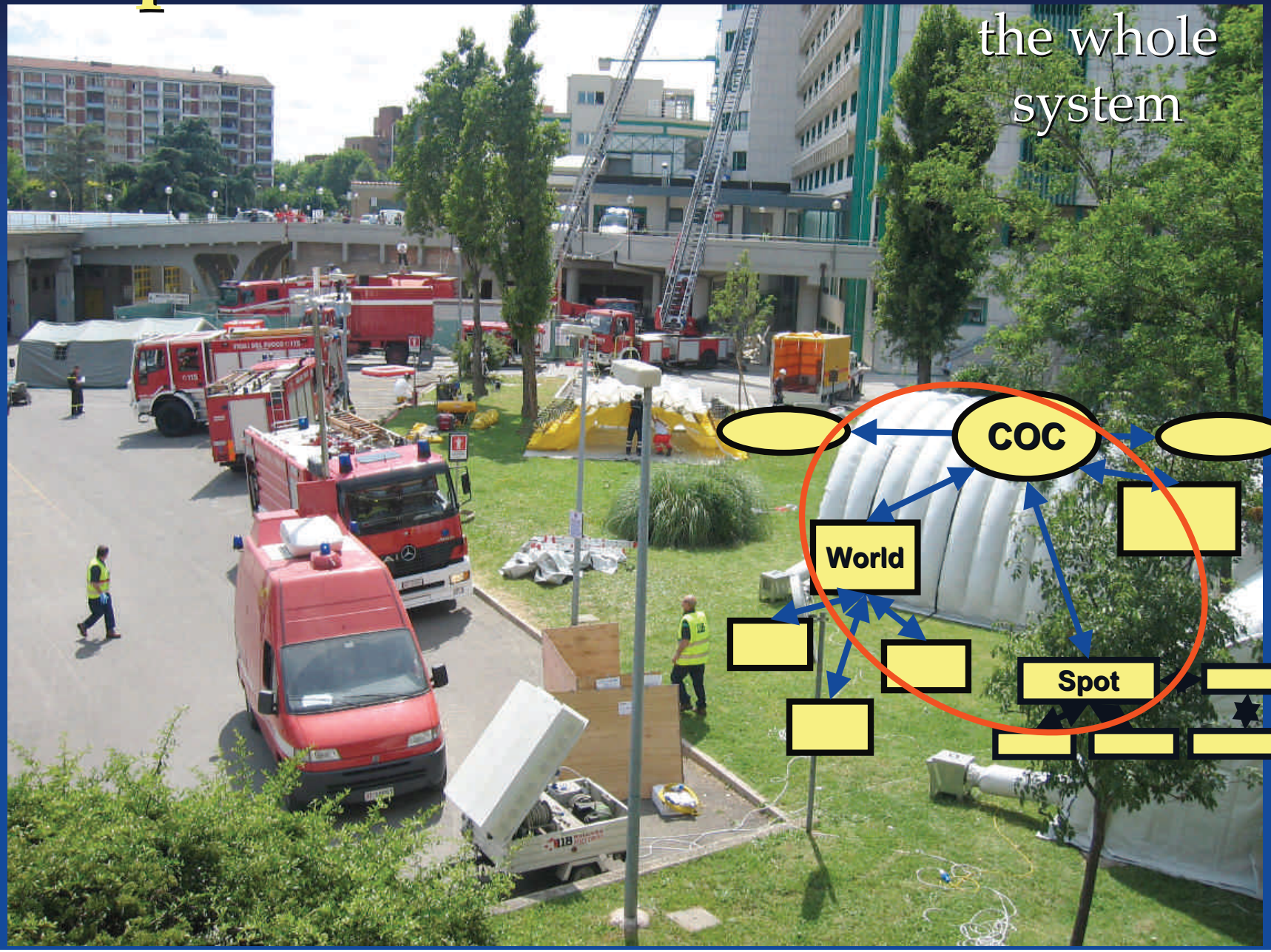
UNIDEC Simulations

Focused on a subsystem



Hospital Fire Drill

Focused on the whole system



Emergo Train System

Emergo Train System®

An educational tool for Disaster Medicine teaching and training

http://www.emergotrain.com

Emergo Train System®

is an educational tool for teaching and training in disaster medicine

- owned by:
- developed and quality controlled by:
- Adminstered by:

County Council of Östergötland

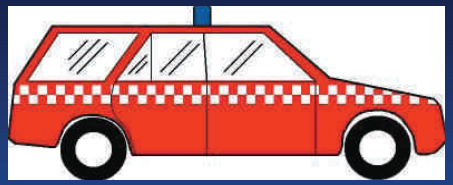
Linköpings universitet
FACULTY OF HEALTH SCIENCES

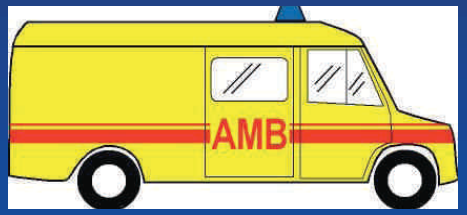
KMC

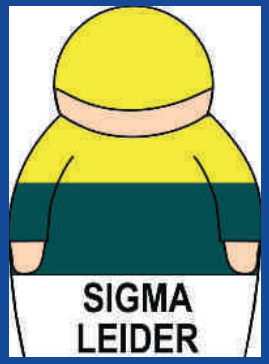
Centre for Teaching and Research in Disaster Medicine and Traumatology

Since February 2008, AUSL di Bologna is the owner of the Italian Regional ETS License

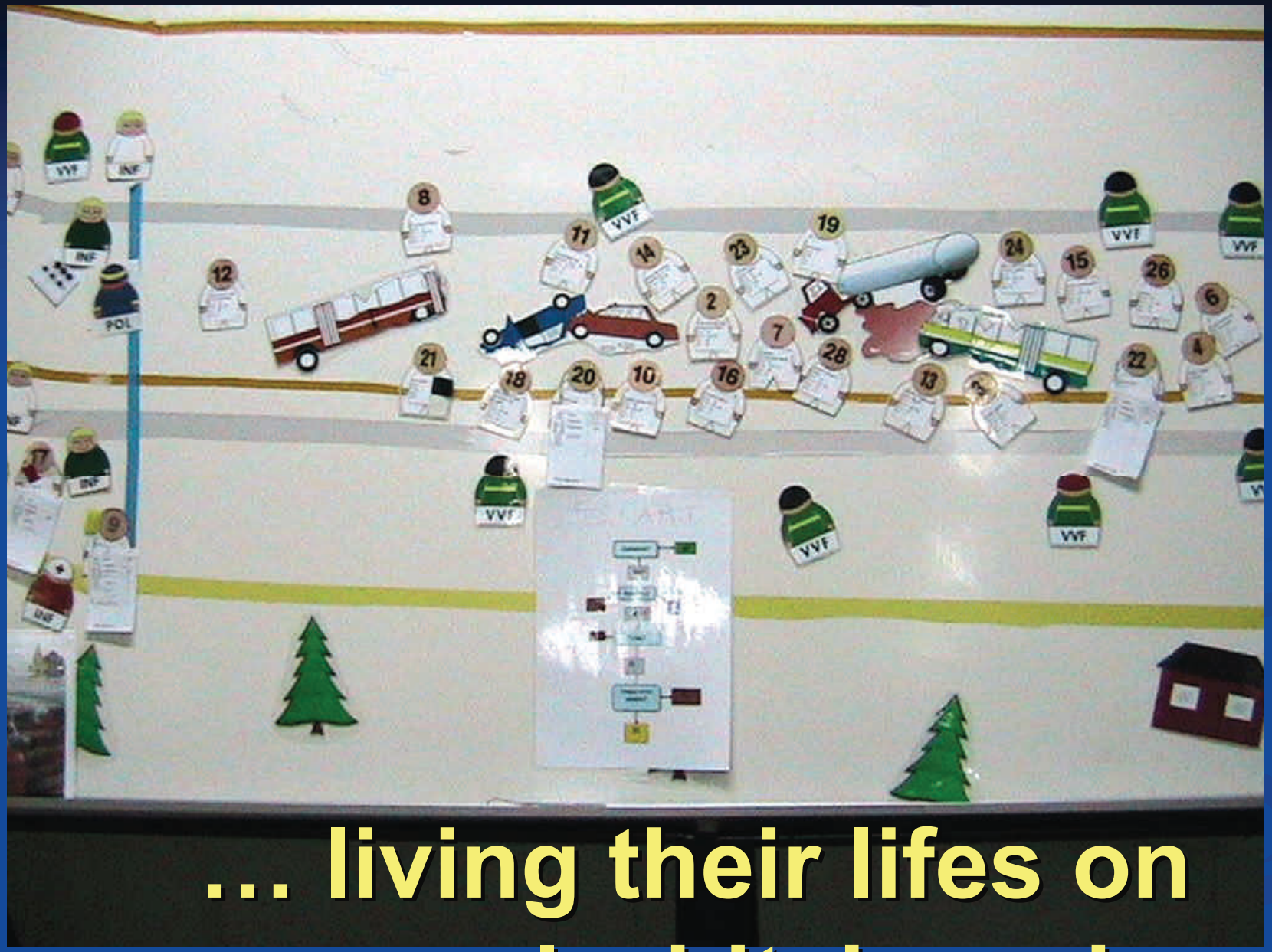
An Emergo Train exercise is a **simulation** focused on the medical chain in dealing with accidents, major incidents and disasters







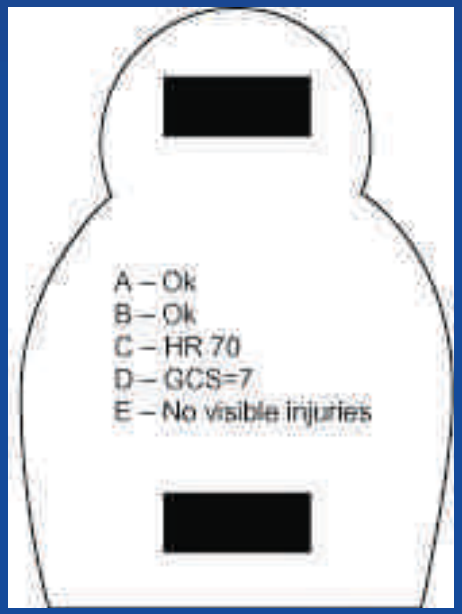
Based on a number of magnetic symbols….

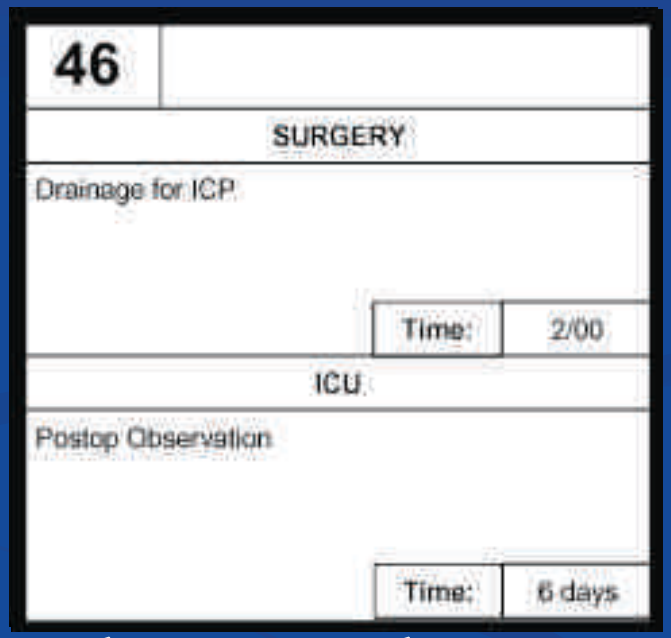


… living their lifes on several whiteboards

… and a Data Base of 300 Patients …

Front side **Back side** Front side Back side





…each one with a clinical management card according to the ATLS®

Exercise set up

Whiteboard N°1
Map of overall resources

Whiteboard N°2
Scenario

Whiteboard N°3
A.M.P.

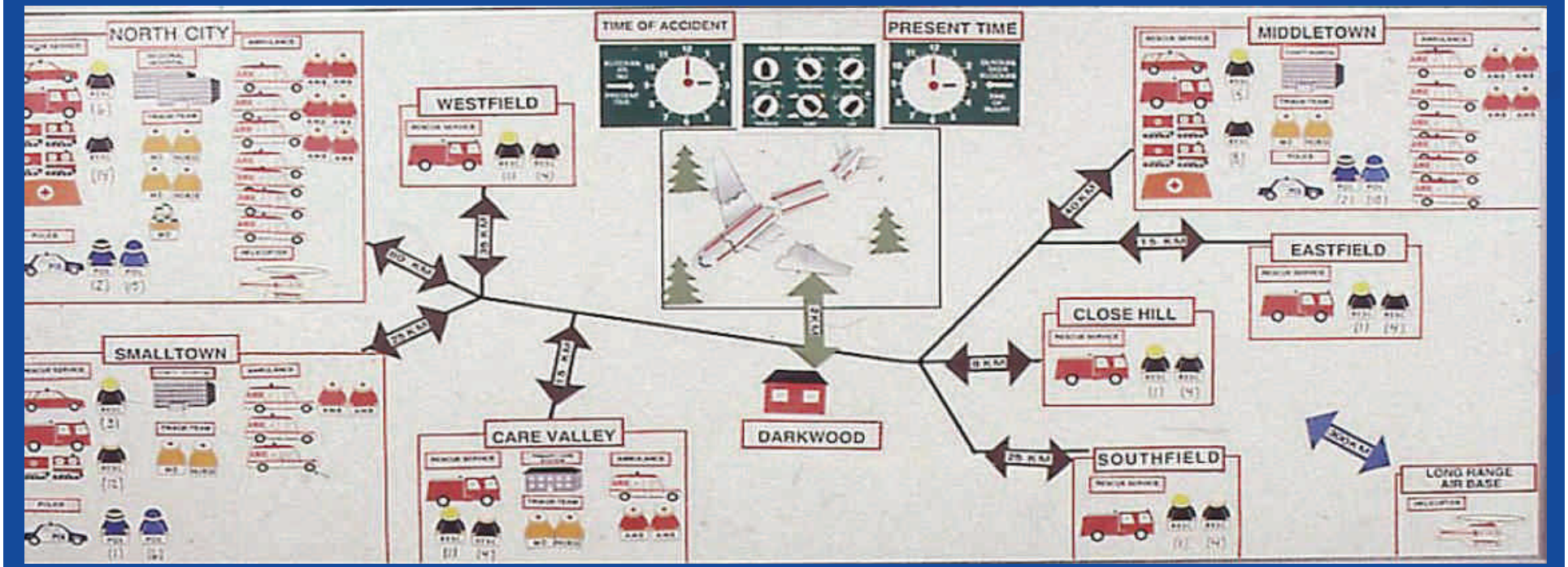
Whiteboard N°4
Dispatch

Whiteboard N°5
Evacuation

Whiteboard N°6-7-ecc.
Hospital/s

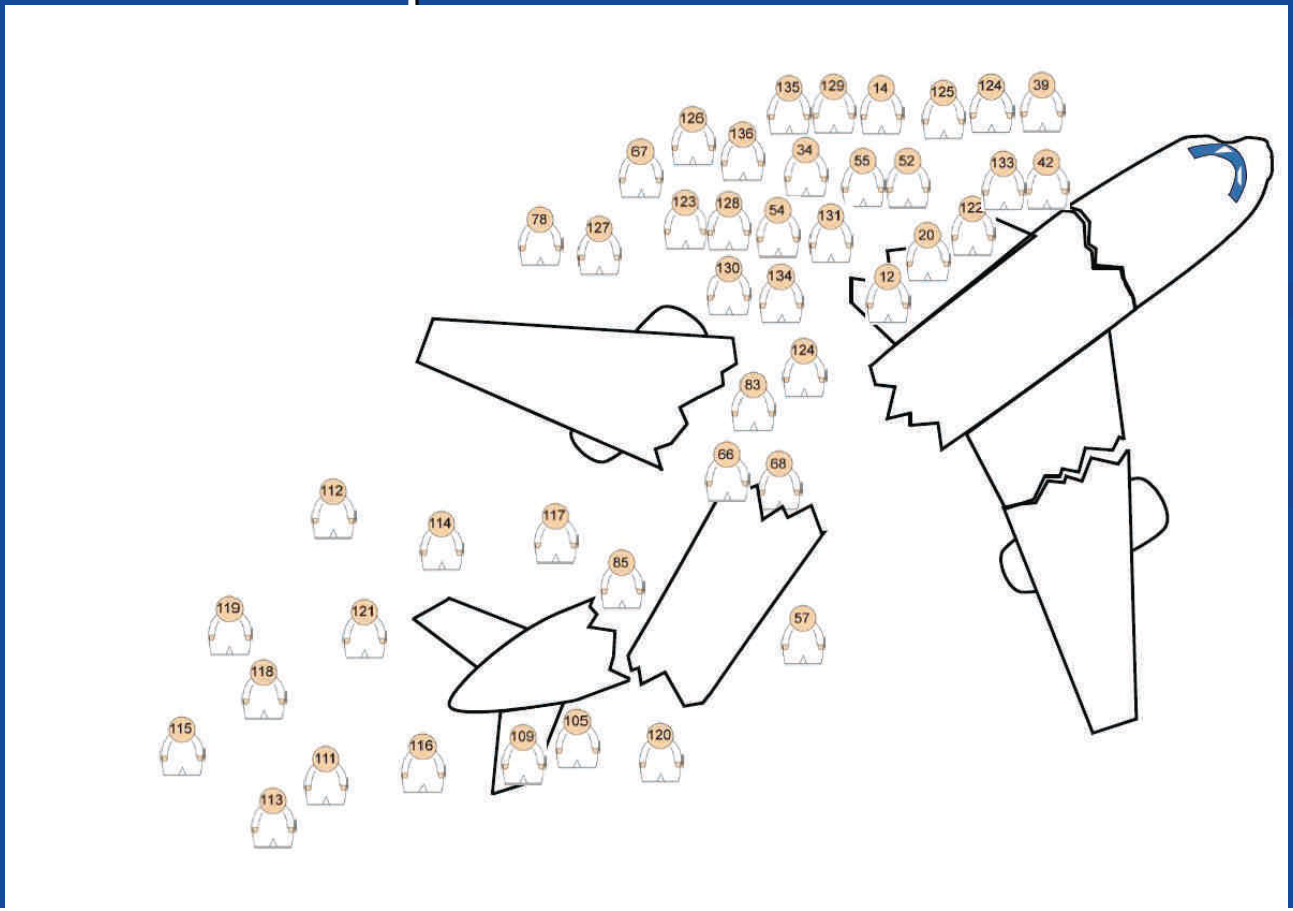
Whiteboard N°1
Map of Available Resources

- Overview of the involved area and a map of the overall available resources.



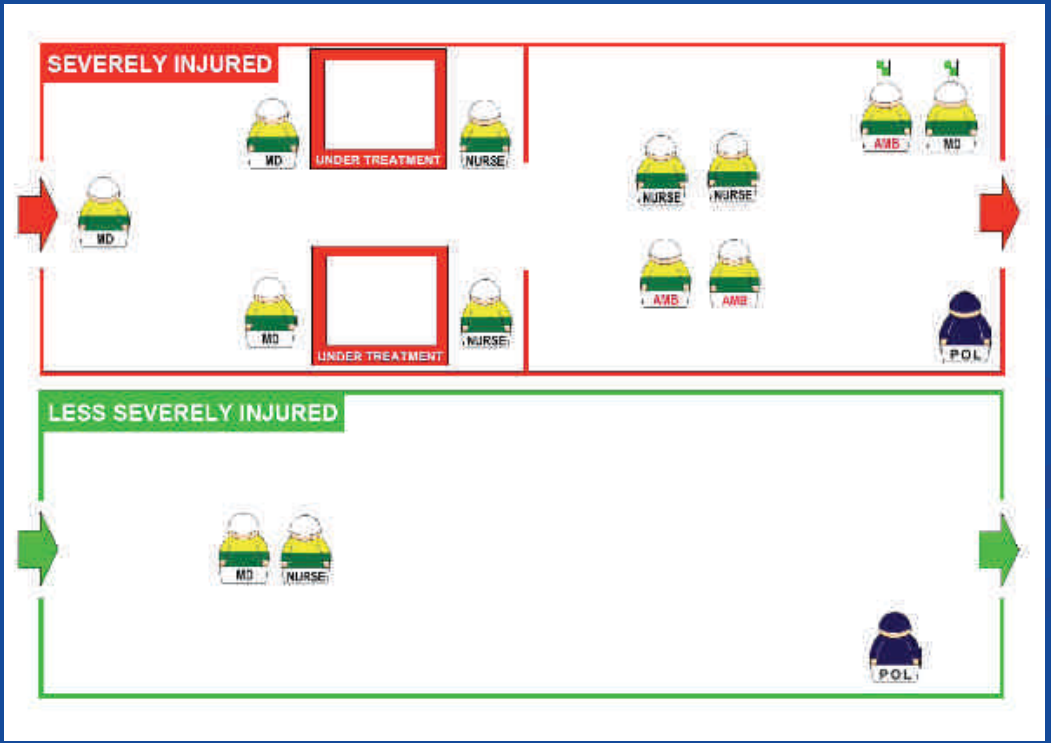
Whiteboard N°2
The Accident Site Close-up

- Usually shown only when the first team arrives on the spot.



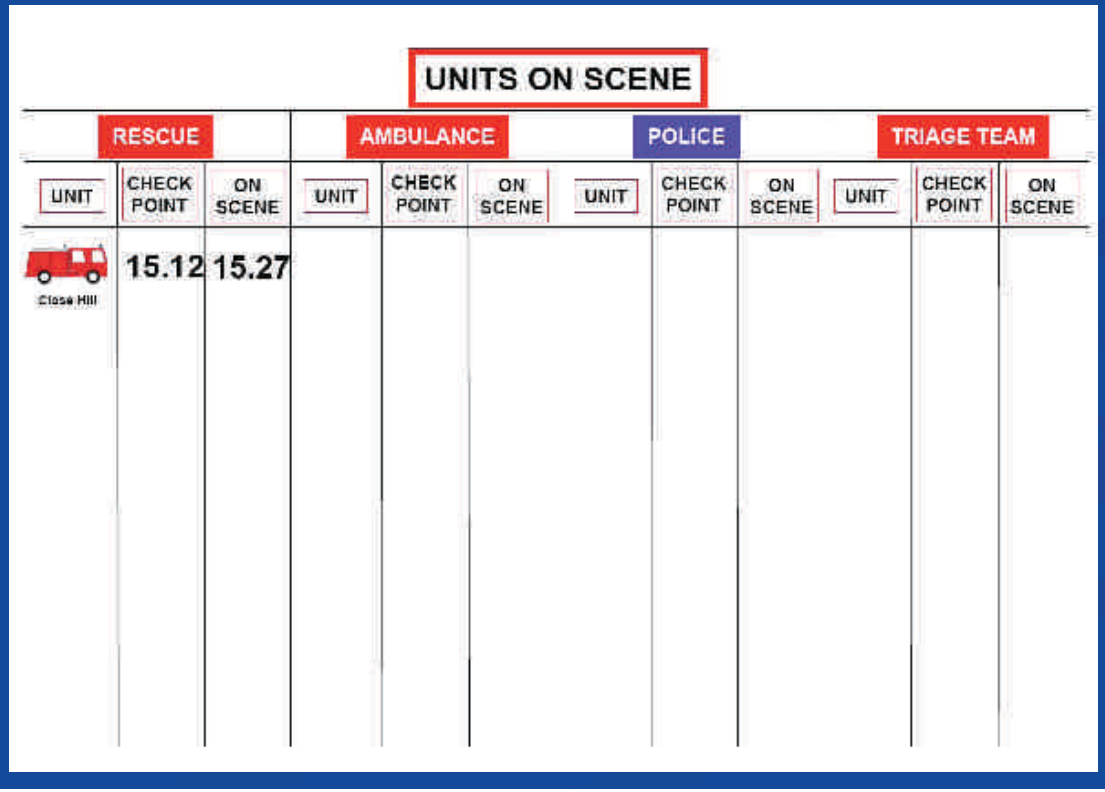
Whiteboard N°3
P.M.A. (or other definition)

- Allows to focus the simulation on the pre-hospital patient clinical management



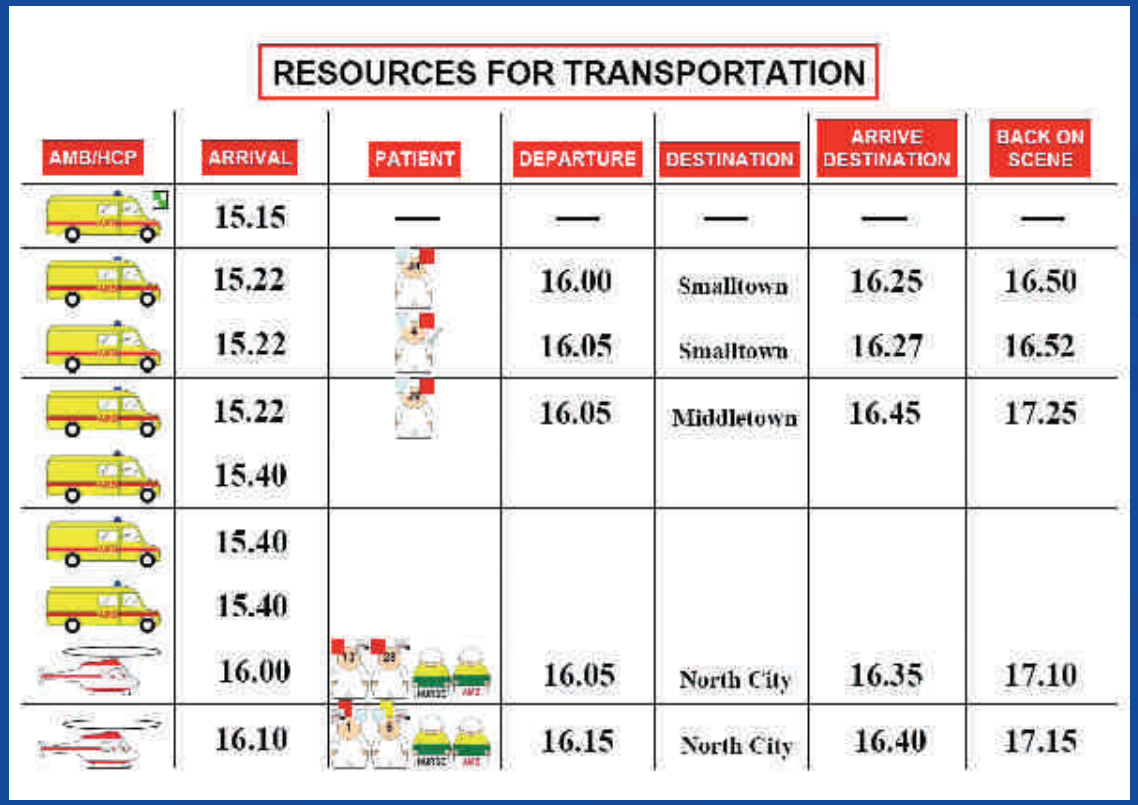
Whiteboard N°4
Resources Dispatch

- Allows to keep the resource availability realistic



Whiteboard N°5
Evacuation

- Allows to manage the flow of patients to the hospital(s) according to realistic time

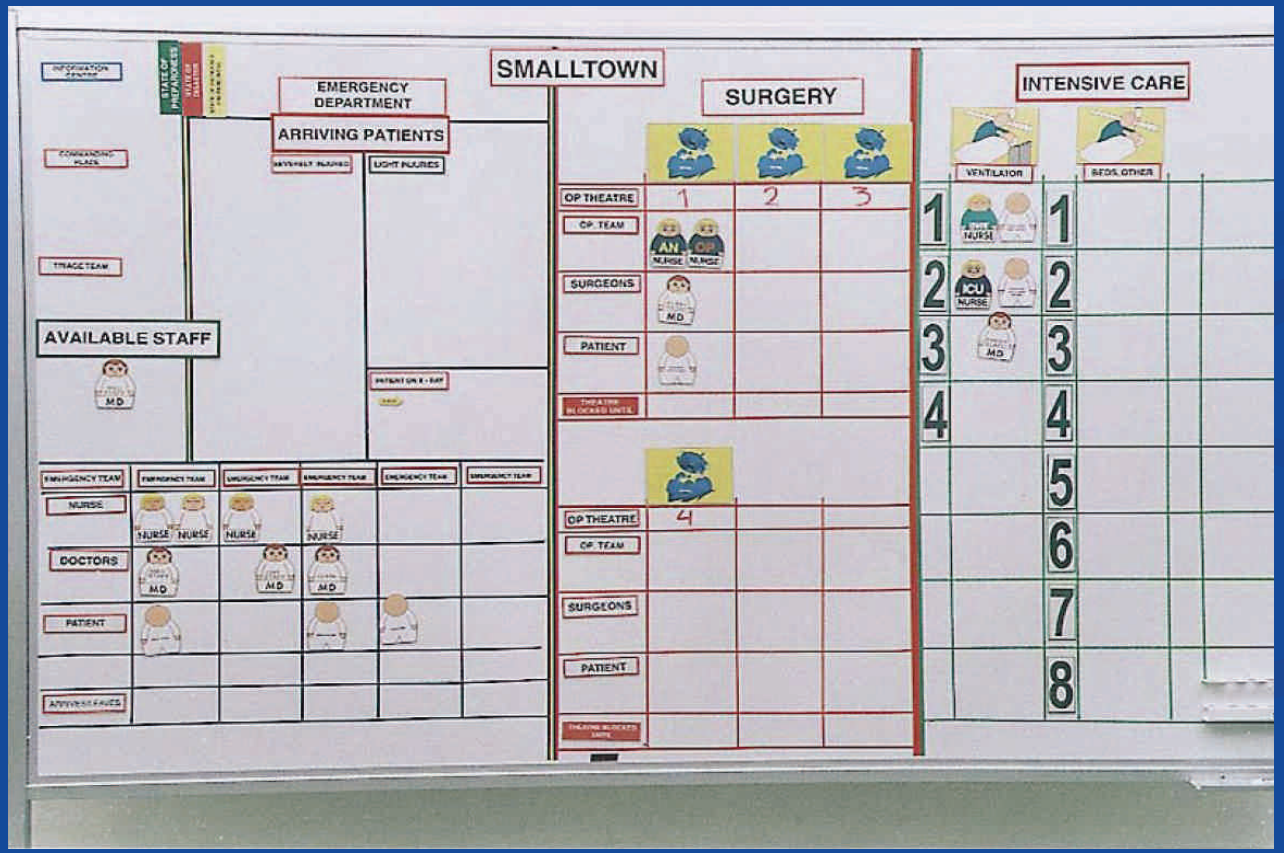


RESOURCES FOR TRANSPORTATION

AMB/HCP	ARRIVAL	PATIENT	DEPARTURE	DESTINATION	ARRIVE DESTINATION	BACK ON SCENE
	15.15	—	—	—	—	—
	15.22		16.00	Smalltown	16.25	16.50
	15.22		16.05	Smalltown	16.27	16.52
	15.22		16.05	Middletown	16.45	17.25
	15.40					
	15.40					
	15.40					
	16.00		16.05	North City	16.35	17.10
	16.10		16.15	North City	16.40	17.15

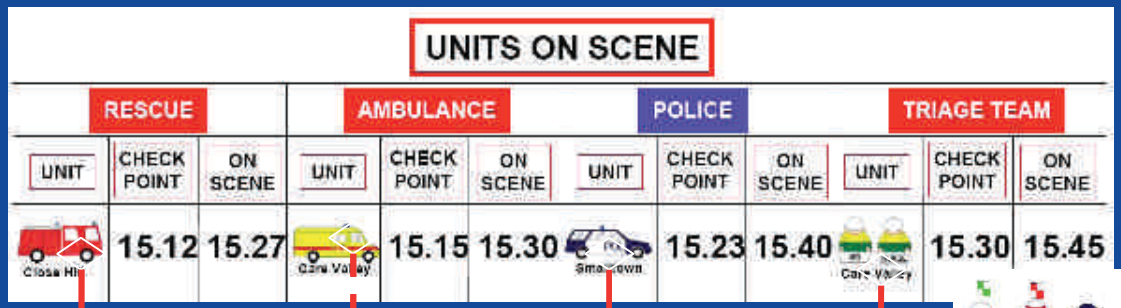
Witheboard N°6 (7-8, ecc.) Hospital(s)

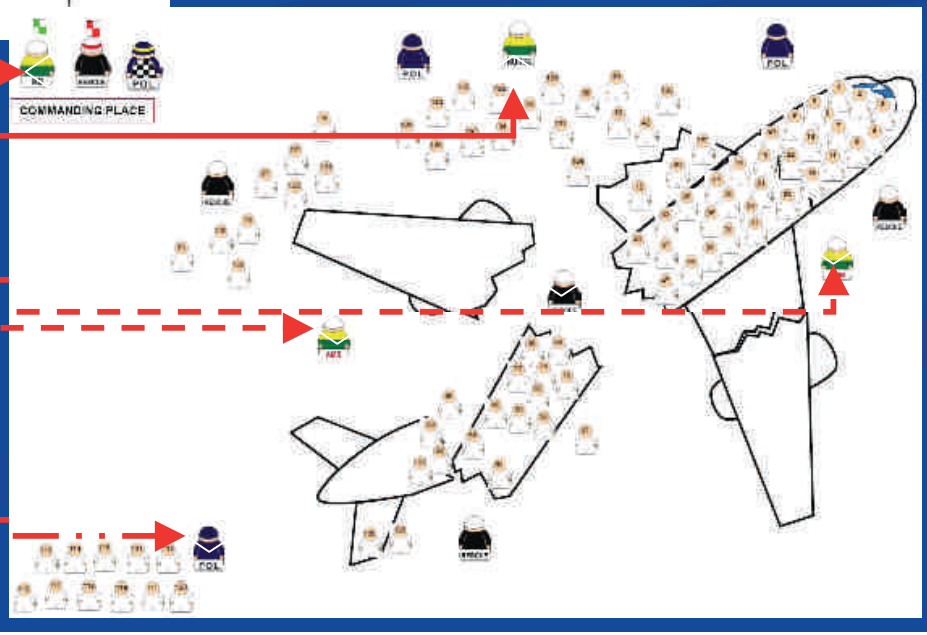
- Detail of the involved hospital(s)



Simulation in real time

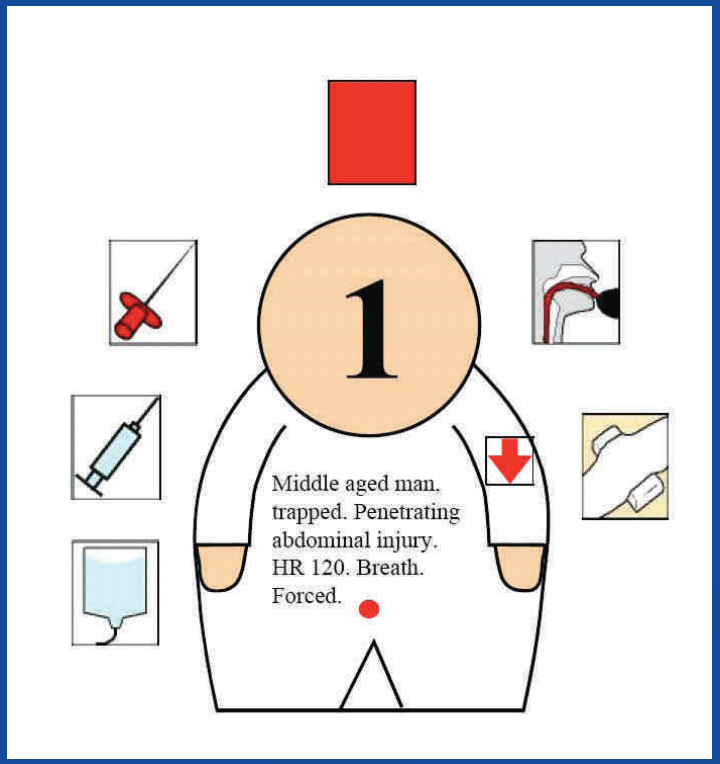
- On-scene personnel and resources availability is ruled by the actual dispatching time.

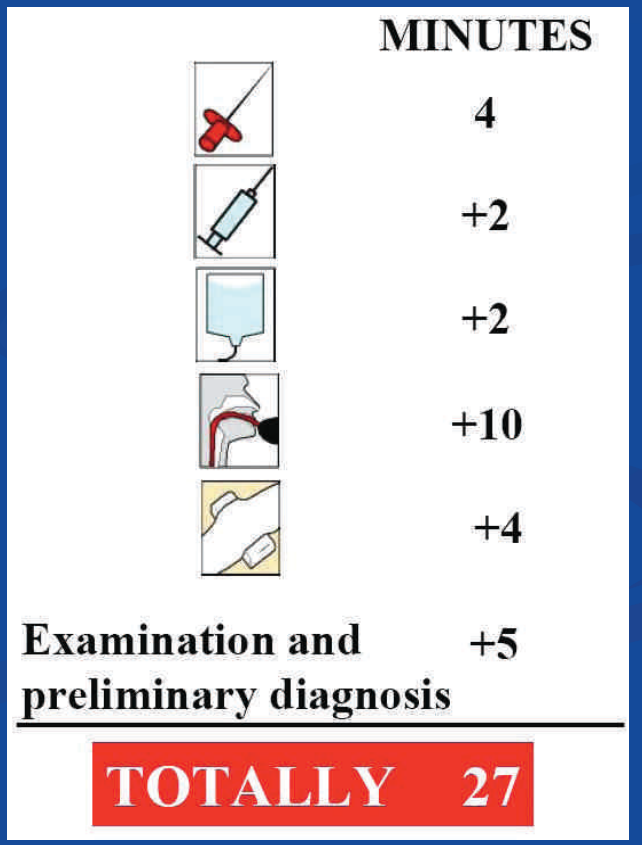




Simulation in real time

- Even simulated, the patient treatment is performed according to the actual time needed in order to perform it.





ETS strength points

- Allows a broad vision of an MCI scenario
  - Decision making processes involving all the Emergency Agencies
- Resources and scenarios can be adjusted to the local/regional situation
- The interaction between participants 'builds' the exercise

which is the most important difference compared to computer simulation!

Emergo Train System®
in Emilia-Romagna

- MCI & Disaster Preparedness Program of AUSL di Bologna

Emergo Train System®
in Emilia-Romagna

- MCI & Disaster Preparedness Program of AUSL di Bologna
- Regional Authority training plan for the safety of workplaces

Emergo Train System®
in Emilia-Romagna

- Training tool included in the Regional Guidelines for Emergency Plans

Conclusions

- MCI/Disaster response is a complex system
- MCI and Disaster Training requires an integrated approach
- Training should focus on integrated system processes
- First responders ask for (and appreciate):
  - Broad spectrum training
  - Practical and interactive training techniques