skytek

Trilateral Research

UNIVERSITAS CATHOLICA SACRI CORDIS 1921 MEDIOLANI

FINMECCANICA

UNIVERSITÀ CATTOLICA del Sacro Cuore

IAEMO
MEM REGION SOUTH
Oifig Idirghníomhaireachta
Interagency Office

ONEST SOLUTIONS

CESS
Centre for European Security Strategies

pulse

*Platform for
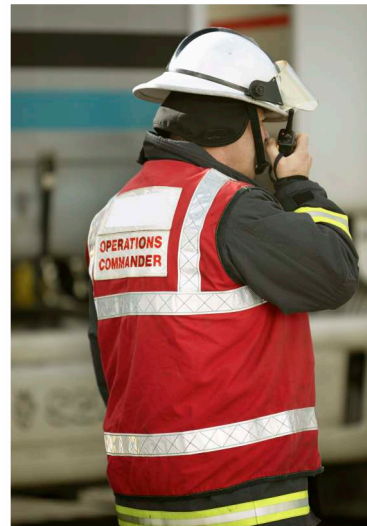European Medical Support
during major emergencies*

... PULSE of the major emergencies management!

PULSE substantially improves the preparedness and response capabilities of the health services involved in major emergency situations, mitigating the loss of life and raising the survival rates among mass casualties.

PULSE's support for an enhanced European health system

- Improvement of the health services in both preparedness and response stages of a major medical incident leading to a more efficient emergency management
- Operational procedures harmonization
- Efficient training tools with real life simulations
- Improved cross border cooperation of the medical services
- Enhanced management of hospital resources
- Improved understanding of public acceptance, legal, ethical and social issues in major emergency management

pulse

web-site: **www.pulse-fp7.com**
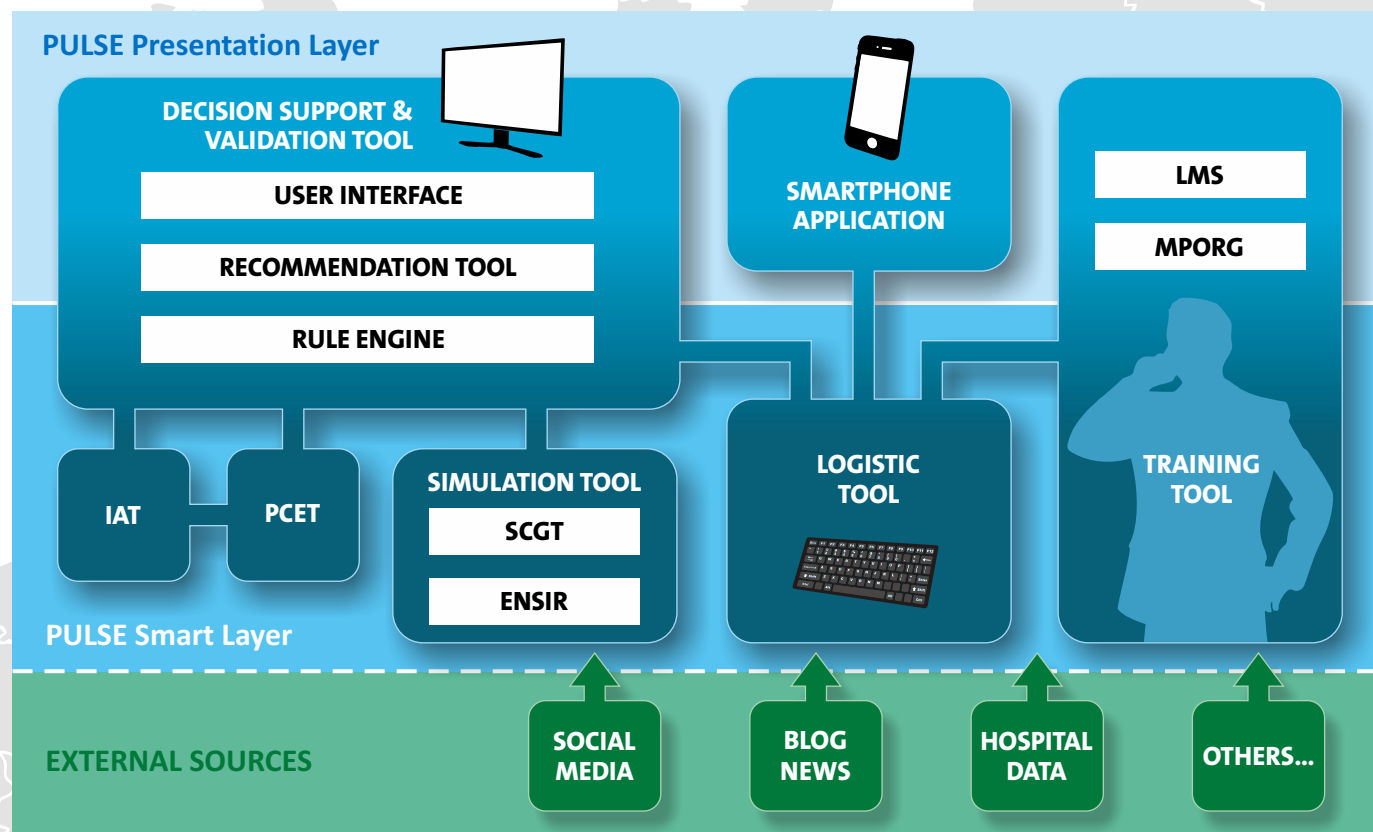e-mail: info@ pulse-fp7.com

Why PULSE was created...

1 To develop a standardised approach to improve preparedness, response and decision making across Europe for major medical emergencies.

2 To provide an operational and technical framework to enable risk managers to undertake a threat analysis, situation assessment and forecast and to react accordingly with effective decision making, resources and logistics planning, assignment and control. The developed framework will be suitable to operate EU wide.

3 To develop innovative tools and technology to support and present a common operational picture to emergency personnel.

4 To analyse the measures planned to deal with a major health incident, it's social acceptance, legal and ethical implications (for technology and procedures).

5 To develop a set of technologies and tools meant to improve the ability of European states to manage a major medical crisis.

6 To provide validated procedures adequate to improve the operation and success of the healthcare system in challenging disaster situations where combined operations are required at local, regional, cross border and international levels.

7 To support key decision makers, by integrating a suite of models/simulations and analysis tools able to provide insights into the collective behavior of the Health Services.

"In these times of rising threats, medical response to major incidents would greatly benefit at field, transport and hospital level from integration among decision support systems and first responder tools. PULSE platform offers a wide range of technical solutions to important aspects of preparedness and response for public health, emergency medical systems and hospital managers and first responders."

Daniele Gui, Chief Emergency Surgery, Policlinico Gemelli Rome Italy

PULSE Platform Architecture

PULSE Presentation Layer

DECISION SUPPORT & VALIDATION TOOL

USER INTERFACE

RECOMMENDATION TOOL

RULE ENGINE

SMARTPHONE APPLICATION

LMS

MPORG

IAT

PCET

SIMULATION TOOL

SCGT

ENSIR

LOGISTIC TOOL

TRAINING TOOL

PULSE Smart Layer

EXTERNAL SOURCES

SOCIAL MEDIA

BLOG NEWS

HOSPITAL DATA

OTHERS...

IAT = Intelligence and Analysis Tool
PCET = Post Crisis Evaluation Tool
SCGT = Surge Capacity Generation Tool

ENSIR = Event Evolution Model for Biological Events
LMS = Learning Management System
MPORG = MultiPlayer Online Role Playing Game