26 November 1980 IRPINIA earthquake (3 days after the earthquake)

BE FASTER! to save alive victims to help the people who lost everything



Ugo D'Anna, Project Leader EASeR

CNVVF as coordinator

Presented from April 2017 to April 2019

Funded by the European Commission - DG ECHO - Union Civil Protection Mechanism

- Total amount: €2.362.247
- On Preparedeness







BENEFICIARIES

Final Conference Rome, 16 January 2020 Istituto Superiore Antincendi

Monia D'Amico – Project Technical Coordinator Fabrizio Graverini – USAR Senior Expert







www.easerproject.eu

Co-funded by the European Union Civil Protection





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EASeR Enhancing Assessment in Search and Rescue Ref. 783273

Total project eligible cost	€742,189
EU contribution (75%)	€556,634
Dates (24 months)	1 February 2018 – 31 January 2020



Call: UCPM-2017-PP-AG













Barrier Effect refers to

obstacles that hamper the assessment such us: heavy snow; limited escape routes; high level of stress in dealing with affected population; difficulty in management of data from the sites

Objectives

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- to identify all the relevant elements to overcome USAR assessment problems and
- to enhance response capacity in a complex emergency scenario due to catastrophes (i.e. earthquake)



Bottom-up approach from the analysis of real operational needs TO the proposal and co-funding

For all the Rescuers and the Italian National Fire Corps

The priority of intervention is led by the deep concern of saving lives

So as ...

awareness, guidelines, operating procedures and training dealing with barrier effect(s) can support this priority

EASeR has been a TOOL to design and implement viable solutions to respond to actual needs



Dipartimento dei Vigili del Fuoco, del Soccorso Pubblico e della Difesa Civile CORPO NAŽIONALE DEI VIGILI DEL FUOCO

Emergenza e soccorso Prevenzione e sicurezza Difesa civile Formazione

USAR (Urban Search And Rescue)

Vigili del Fuoco

Sei in: Home + Emergenza e soccorso + Alte Qualificazioni + USAR (Urban Search And Rescue)





Lavora con noi Reed Rss Siti web VV.F.

Uffici sul territorio

Amministrazione Trasparente

Amministrazione On Line

Le APP dei VV.F. Servizi di Prevenzione Incendi Testi coordinati di Prevenzione Incendi Norme di Prevenzione Incendi Quesiti di Prevenzione Incendi



Il progetto USAR (Urban Search And Rescue) nasce per migliorare le attività di soccorso in macerie, derivanti da eventi sismici, esplosioni, crolli o dissesti statici e idrogeologici.

Le squadre USAR del Corpo Nazionale dei Vigili del Fuoco affrontano operazioni di soccorso in tali scenari con un adeguato livello di sicurezza e con metodologie altamente evolute concernenti soprattutto la valutazione dei rischi associati, le tecniche di localizzazione e le attività di estricazione delle vittime. Queste operazioni devono essere particolarmente incisive, tempestive e celeri.

Gli operatori devono agire in modo da estricare i soggetti intrappolati entro margini temporali che facilitino il loro trattamento sanitario ed evitino l'insorgere di complicazioni postume o, ancora peggio, il loro decesso.

I vigili utilizzano degli equipaggiamenti e delle attrezzature speciali per la ricerca e il soccorso, quali geofoni, robo termocamere, search-cam, e devono essere inoltre addestrati a fornire immediatamente il supporto vitale di Base **IN**TERNATIONAL SEARCH AND RESCUE ADVISORY GROUP

ITALY is one of these countries

INSARAG

INSARAG Guidelines

Volume III: Operational Field Guide

OCHA United Nations Office for the Coordination of

global network of more than 90 countries and organisations; deals with urban search and rescue (USAR) to establish minimum international standards for **USAR** teams

http://www.insaraq.org/

http://www.vigilfuoco.it/

(BLS).







Funded by The European Union Civil Protection



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Key elements of INSARAG coordination methodology

The 5 INSARAG Operational Levels

ASR Assessment SEARCH & RESCUE

- Level 1 Wide area assessment
- Level 2 Sector assessment
- Level 3 Rapid Search and Rescue
- Level 4 Full Search and Rescue
- Level 5 Total Coverage Search and recovery

ASR 1	ASR2	ASR 3	ASR4	ASR5
Wide Area Assessment	Sector Assessment	Rapid Search & Rescue	Full Search & Rescue	Total Coverage Search & Recovery
	ASSESSMENT			
		SEARCH & RE	ESCUE	
			DEC	RECOVERY CEASED VICTIMS





ALBANIA EARTHQUAKE "Sectorisation" of Durrës





ASR 3 (Rapid Search & Rescue)



ASR 4 (Full Search & Rescue)



ASR 5 (Total Coverage: Search and Recovery)



The memory of earthquakes in Italy in the past 40 years

2 Case studies:

- 1. 1980 Irpinia
- 2. 2016 Central Italy



24 Irpinia Earthquake 1980

Date November 23, 1980
Magnitude 6.9
Time 19,34

•	Affected area	15.400 sq km	
•	Municipalities	687	
•	People involved	6.000.000	
	Deatha	0.044	
•	Deaths	2.914	
•	Injured	8.848	
•	Displaced	280.000	

Quando il raddoppio dei turni di servizio fu esteso a tutti i Comandi Pro vinciali dei Vigili del Fuoco, risultavano presenti nelle zone terremotate circa <u>4.259 unità,</u> cioè quasi un terzo di tutto l'organico del Corpo Nazionale, forniti di 1.101 automezzi ordinari e speciali oltre che di 4 elicotteri.



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1980IRPINIASPEECHOFPRESIDENT:SANDROPERTINI

From Irpinia Earthquake: Barrier Effects



Between the two case studies (from 1980 to 2016) much has been done from legislative and operational point of view

Law no.225/1992

The National Service of Civil Protection has been established and the National Fire Corps has been defined as a fundamental component



80 detection stations in the 80s (not centralised management) Law Decree no. 381 29/09/1999 The National Institute for Geo-phisics and Vulcanology is established 500 detection stations (centralised management)





Moreover ...

Ministry of Interior Regulation n.28/1991 Organizzation of Regional Mobile Columns

Central Directorate of Emergency Regulation n.01/2001 Riorganization of Regional Mobile Columns: USAR Team Concept

Central Directorate of Emergency Regulation n.05/2013 USAR Team Definition (according to EU standard and INSARAG Guidelines)









Date	On 24 August 2016
Magnitude	6.0
Time	3,36 a.m.
Affected area	8.000 sq km
Municipalities	138
People involved	d 600.000

•	Deaths	299	
•	Injured	365	
•	Displaced	17.000	

SITUAZIONE SISMA PROVINCE DI RIETI, ASCOLI PICENO E PERUGIA DEL 24/08/2016



2016 CENTRAL ITALY EARTHQUAKE

ACCUMOLI WAS THE EPICENTER OF THE EARTHQUAKE THAT AT 3.36 A.M. HIT THE AREA

Thanks!

Any questions?

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