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CLE AND THE MITIGATION OF EMERGENCIES AND
NATURAL CRISES

FIG WORKING WEEK 2015

17-21 MAY SOFIA BULGARIA

Organised by:   CHAMBER OF GRADUATED SURVEYORS




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April 6, 2009 3:32 am
Magnitude 6,30

308 deaths | 1,500+ injured | 65,000 homeless

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CONDIZIONE LIMITE PER L'EMERGENZA

is the condition in which even after an occurrence of an earthquake and despite the physical and functional damages that may interrupt almost all urban functions, a settlement can still retain the operations of most of its emergency strategic functions and its accessibility and connection to and with the local urban framework

- Reduce the number of casualties in an occurrence of seismic event
- Recover and reintegrate existing public and private buildings, and infrastructure
- As a tool for improved (or updated) urban planning

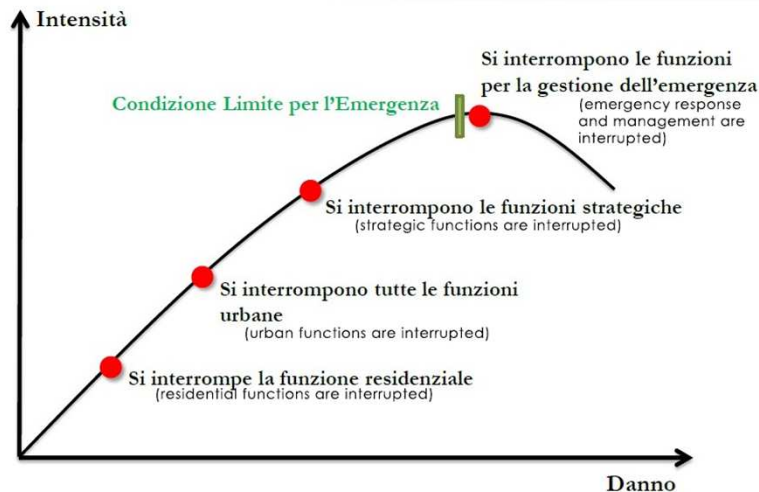


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ANALYSIS OF CONDIZIONE LIMITE PER L'EMERGENZA

- formally introduced in 2012 through Ordinanza PCM 4007/12

The analysis of CLE of a specific settlement is essentially to identify:

- strategic structures to address emergency, as indicated in DPC Emergency Plans;
- road connections between these structures and its accessibility from the local urban framework

One of its main objective is to provide a bigger picture on how a specific settlement will respond to seismic emergency management in its territorial functionality.



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ANALYSIS OF CONDIZIONE LIMITE PER L'EMERGENZA

it is composed of five technical modules corresponding to the different structural types to be surveyed and studied.

They, aside from the Index, are:

- ES Edificio Strategico / Strategic Building
- AE Area di Emergenza / Emergency Area
- AC Infrastruttura Accesibilità - Connessione / Road Accessibility-Connection
- AS Aggregato Strutturale / Structural Aggregate
- US Unità Strutturale / Structural Unit



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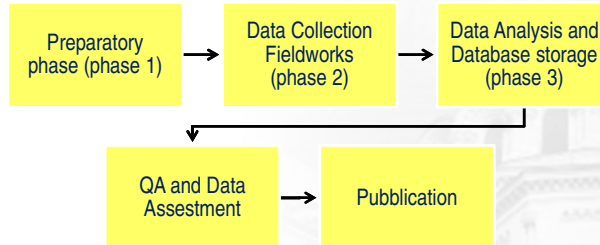




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ANALYSIS OF CONDIZIONE LIMITE PER L'EMERGENZA



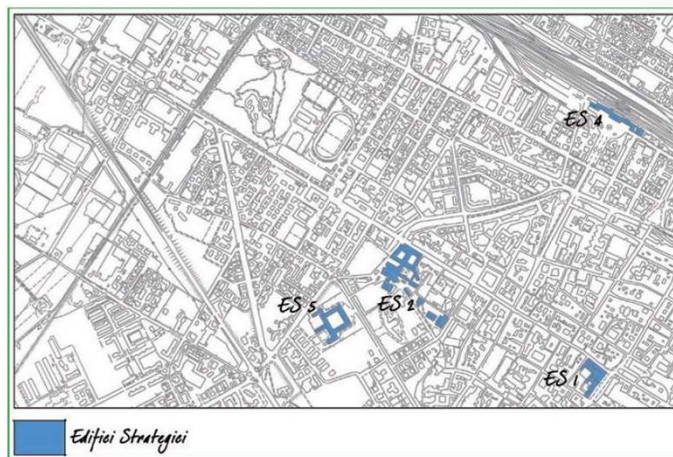
ANALYSIS OF CONDIZIONE LIMITE PER L'EMERGENZA – PHASE 1

Building identification (ES, AE, AC, AS) on existing Regional Technical Maps (CTR) and Emergency Plans (local or DPC's)



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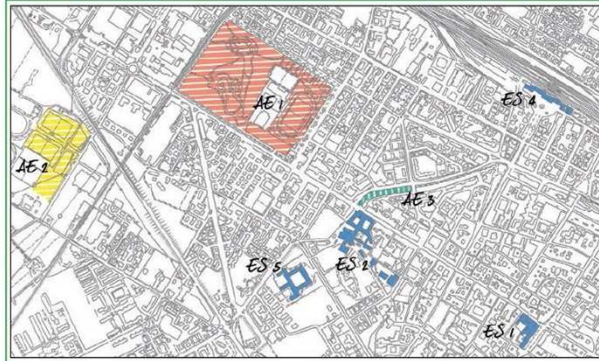




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- Arce di Emergenza (ammassamento)
- Arce di Emergenza (riservato)
- Arce di Emergenza (attesa)



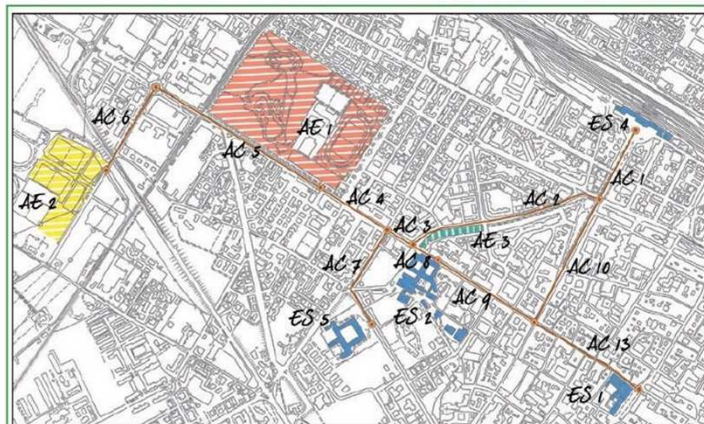
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Infrastrutture di connessione



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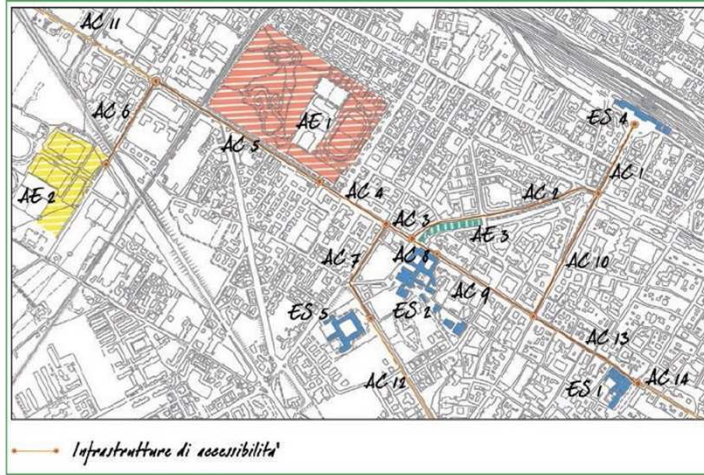




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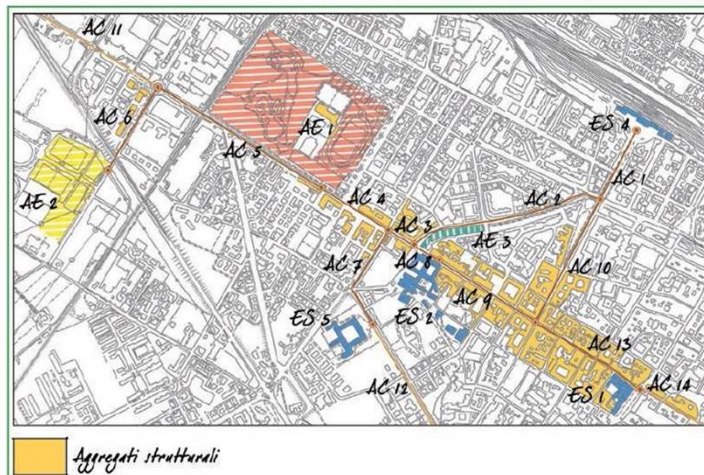
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ANALYSIS OF CONDIZIONE LIMITE PER L'EMERGENZA – PHASE 2

Data Collection through fieldworks to verify current state of the identified elements, their composition and characteristics, interference and relevance, and conservation



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Commissione tecnica per la microzonazione sismica

Manuale per l'analisi della CONDIZIONE LIMITE PER L'EMERGENZA (CLE) dell'insediamento urbano

Versione 1.0

EdMultimedia Roma 2014



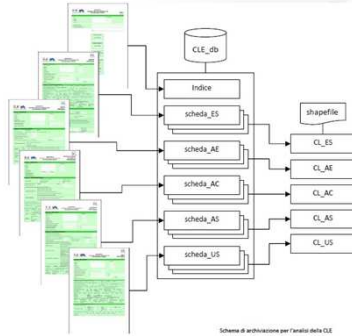


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ANALYSIS OF CONDIZIONE LIMITE PER L'EMERGENZA – PHASE 3

Data Analysis is carried out wherein collected data are studied and the previous "plan" from phase 1 would be modified and/or reintegrated. All data are uploaded to DPCN's database via a specific software freeware (SoftCLE). Corresponding shapefiles are produced.



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Legenda

Codice Provincia : 044

Codice Comune : 007

Sistema di gestione dell'emergenza

-  001 Edificio strategico
-  1000 Area di emergenza (ATTESA)
-  1000 Area di emergenza (RICOVERO)
-  1000 Area di emergenza (AMMASSAMENTO)
-  1000 Infrastruttura di accesso
-  1000 Infrastruttura di connessione
-  1000 Aggregato strutturale interferente
-  01 Unità strutturali interferenti
-  01 Unità strutturali non interferenti



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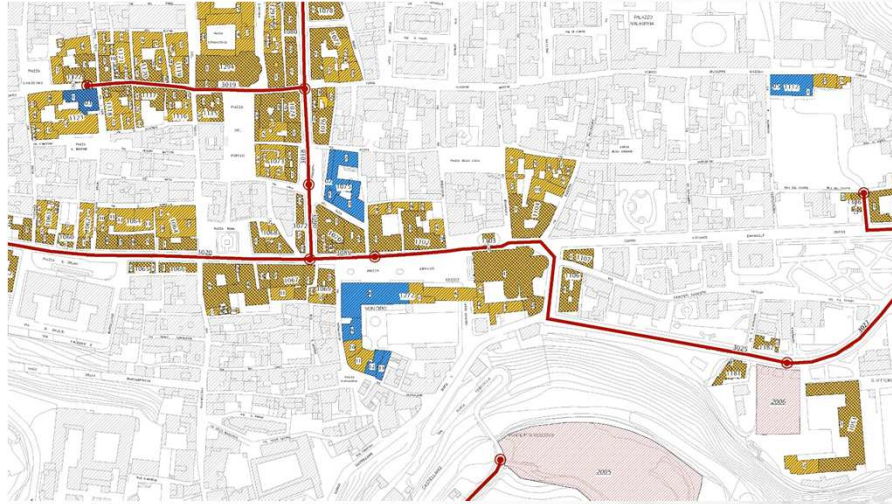




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Collegio dei Geometri e Geometri Laureati di Ascoli Piceno



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