



22-25 May 2017 **Rome Table Top Exercise**

PACES: Preparedness for Appropriate Accommodation in Emergency Shelters

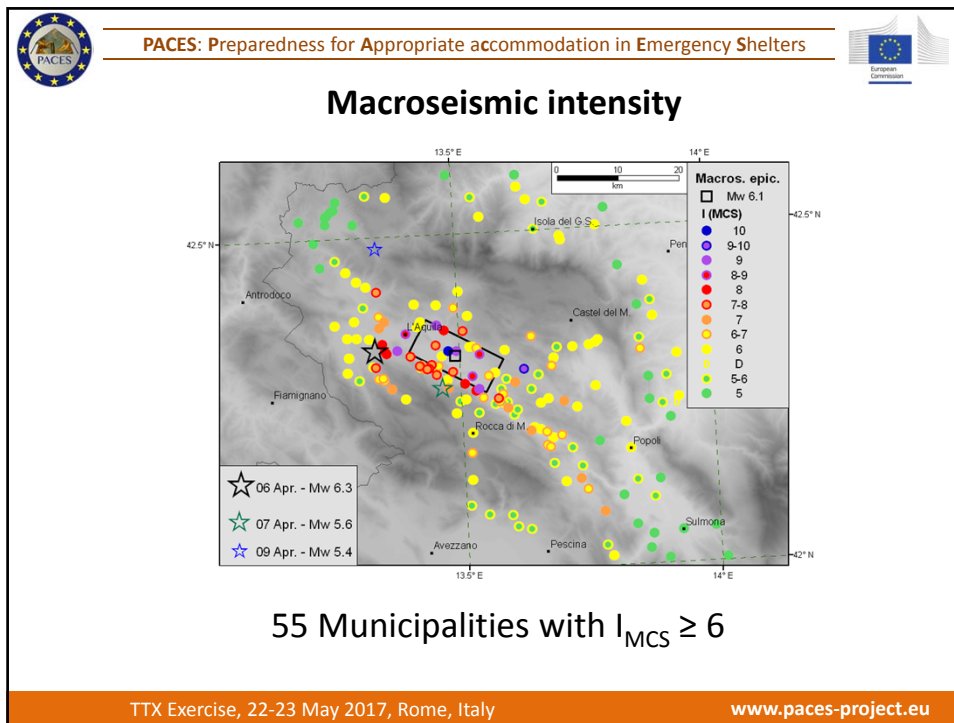
TTX Exercise – Damage assessment
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Seismic and Volcanic Risk Office*

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The event	Baseline
<p>The event Mw=6.3 Io (MCS) = IX-X Epicenter L'Aquila</p>	<p>L'Aquila Municipality 473 sqKm 70,000 inhabitants</p> <p>L'Aquila Province 5047 sq Km 108 municipalities 300,000 inhabitants</p>

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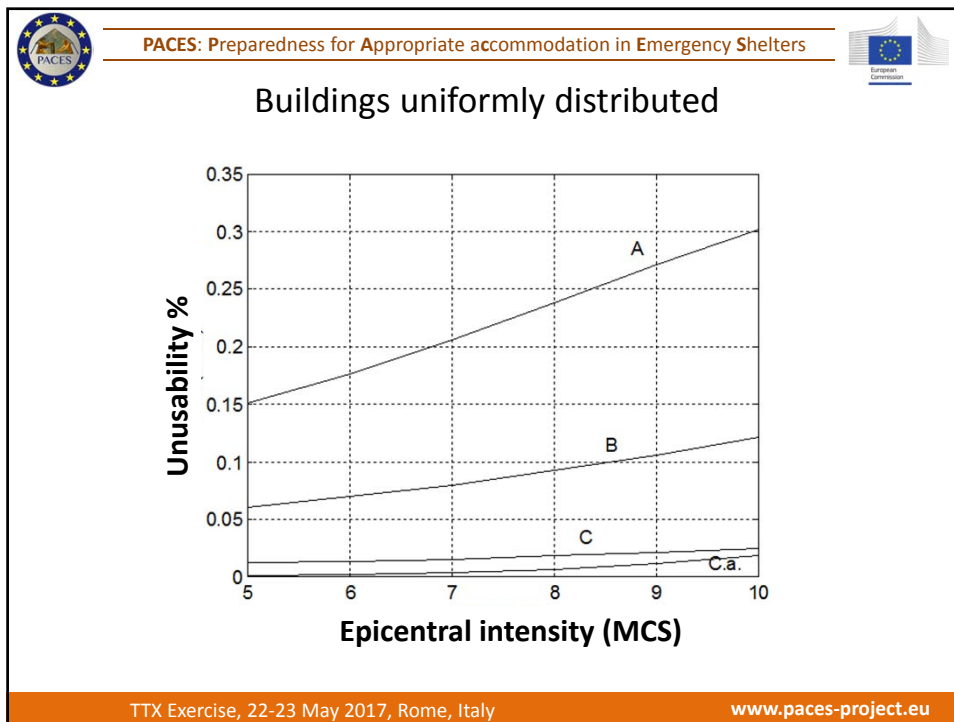
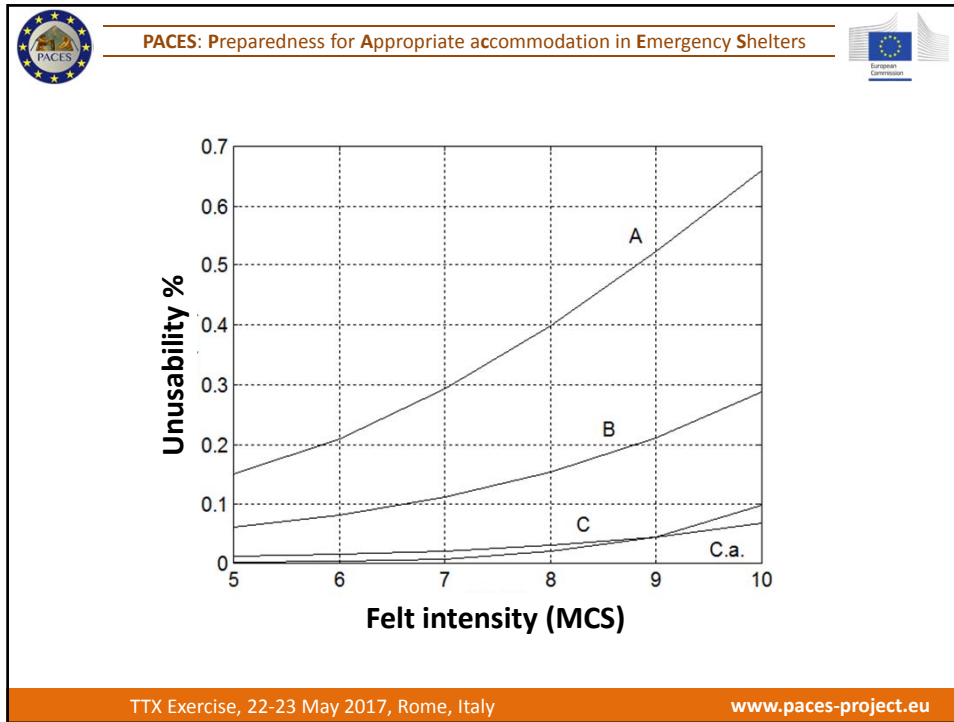
Assumptions


- 2.5 inhabitants per building
- Average productivity of one team = 10 buildings assessed per day
- Peak/Average daily teams = 2.5
- Peak time = 0.15 assessment duration

Building vulnerability


Class	A	B
L'Aquila municipality	30%	70%
Villages	80%	20%

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Assumptions

Cost of one person per day
(accommodation and hotel) 100 €


Cost of computerisation = 6 € per form

Management
1 person every 25 inspectors

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To do's


Evaluate the expected number of unusable buildings

Evaluate the number of homeless in the short term and in the long term


Define alternative strategies to tent camp

Quantify the number of people to be hosted in tent camps, based on expected homeless and alternative strategies

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Select the most ideal location for inspection management among the 3 sites in the following pages

Propose a building assessment strategy able to reduce the duration of tent camp assistance

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Select a proper duration of the building assessment

Estimate the average number of inspectors needed per day

Estimate the peak number of inspectors needed per day and when the peak occurs

Estimate the staff needed for inspection management



Estimate the cost of the assessment including inspectors, management and data computerization excluding salary

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Location A



Lucoli Alto
Masonry building
Not in use
300 sqm
10 rooms



Undamaged


Large parking area in front

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Location B
Coppito

Reinforced concrete buildings
Adjacent to DICOMAC
1000 smq



Damages to infill walls

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Location C
Tempera

Reinforced concrete building
150 sqm
5 rooms



Damage to partitions



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