



Global Risk Forum Davos

Founded in 2008 by Dr. Walter
 J. Ammann CEO and President



- Funded by Swiss federal, cantonal and local government, private sector, other sources.
- Three biennial International Disaster and Risk Conferences (2006-2010) held: a fourth is planned for August 2012.
- Network of collaboration with 12 UN organisations, 40 international organisations and many academic and research institutions.
- Formal co-operation agreements with EU, UN, China, Singapore, etc..



GRF Pillars

IDRC
Davos
Biennial
International
Conference

IDRC
regional
conferences
and
workshops

Risk Academy

Think-tank Issue and knowledge management **Training** courses Public awareness E-journal (good practice) Planet@risk

Web-based
networking
platform
platform
Stakeholder
management





Awareness raising

- •exhibitions
- •movie screenings
- public round tables

Education

- training courses
- •workshops
- epublic lectures
- publications

GRF Risk Academy

Services & Products

- •e-journal
- regular updateson global risk
- •GRF edited books

R&D

project development on integrated risk management

Current GRF Projects:-



- · a programme of serial publications
- two major international conferences
- · a suite of disaster management courses
- a series of research proposals on disaster risk reduction and resilience.

GRF One Health Summit 2012

One Health – One Planet – One Future Risks and Opportunities

19-23 February 2012 Davos, Switzerland







4th International
Disaster and Risk Conference

IDRC Davos 2012

Integrative Risk Management in a Changing World

26- 30 August 2012
Davos / Switzerland
with pre- and post-conference
events

For up-to-date information and to sign up for our newsletter please visit www.grforum.org



Recent research by David Alexander



Damage level 1: minimum



Damage level 2: mainly non-structural

Character
-isation of
damage for
assessment
of personal
risk level



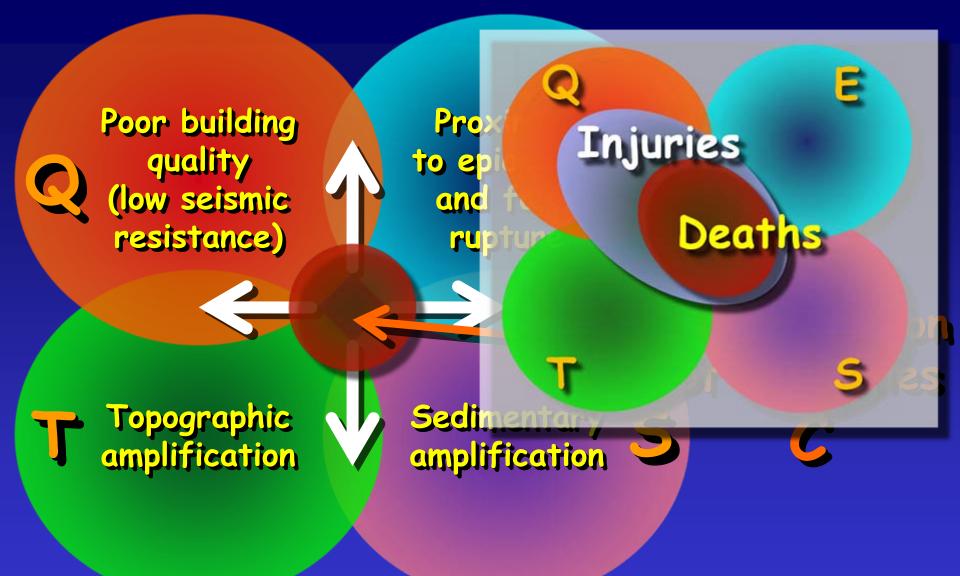
Damage level 3: architectural



Damage level 4: serious structural

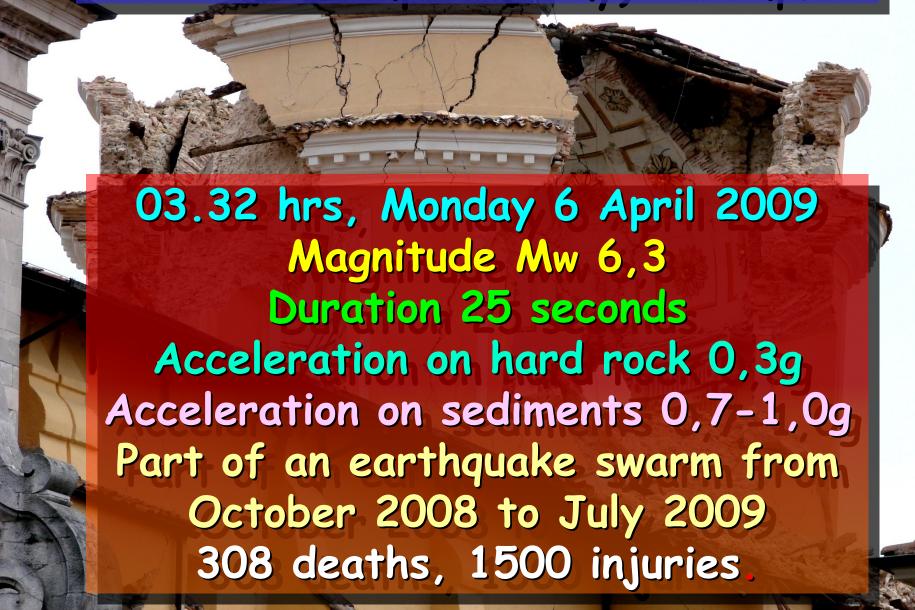


Damage level 5: collapse



$$C = f\{E,Q,S,T\}$$

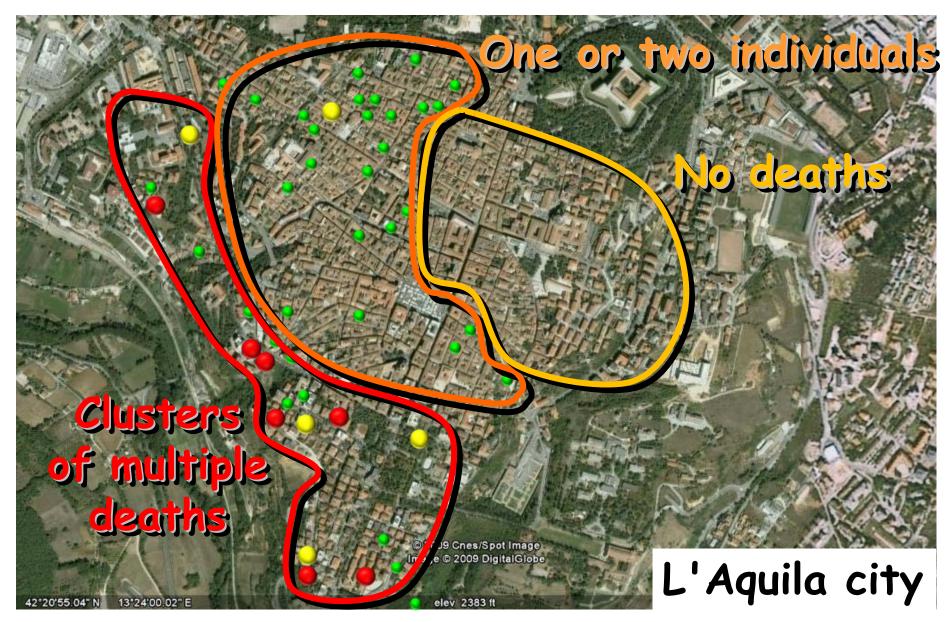
The 2009 L'Aquila (Italy) earthquake



n = 202

6-25 deaths

3-5 deaths
1-2 deaths



No deaths:
housing stock was
in relatively good
condition and
damage was limited

Damage/risk scale: 1-2



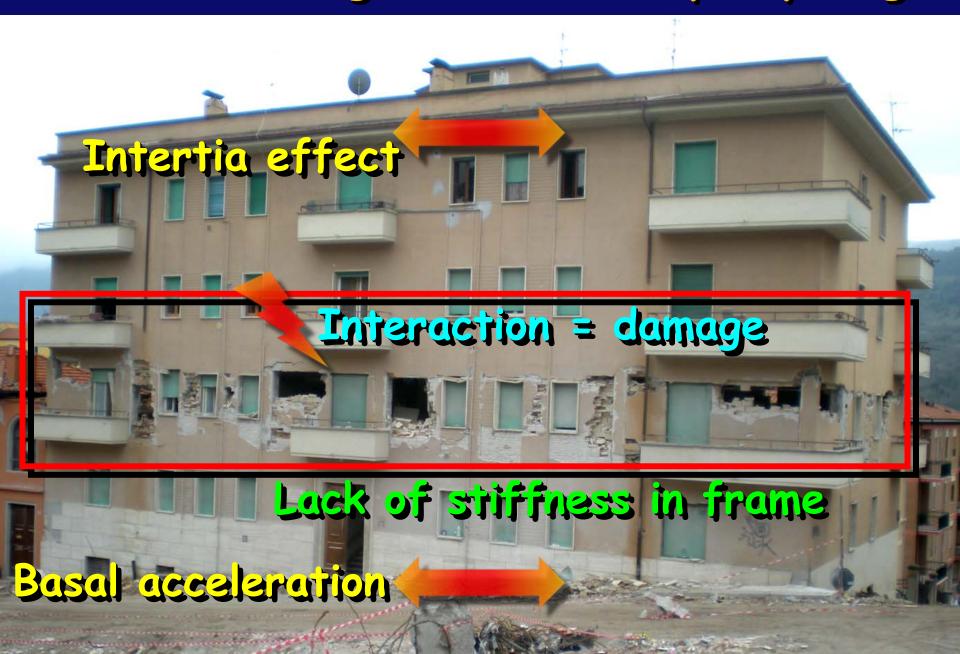




... or in the collapse of stairwells.



Mid-floor damage to multi-occupancy bldg:



Models of typical vernacular housing building types





Analysis of characteristic failure modes





Determination of appropriate crisis behaviour









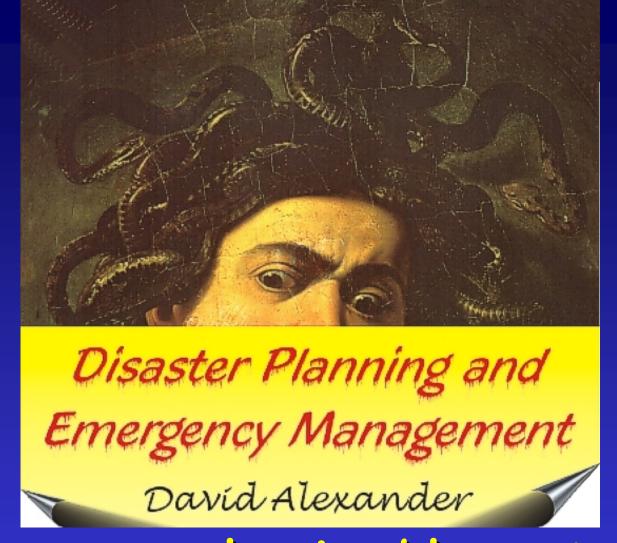
Education and training of households







Culture of protection and resilience



emergency-planning.blogspot.com www.slideshare.net/dealexander D.Alexander@alice.it