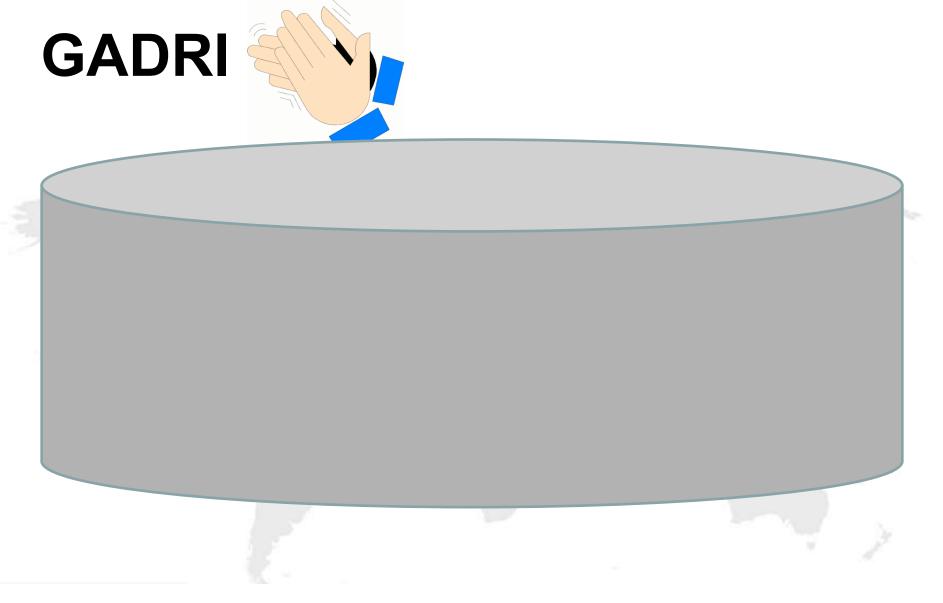
GADRI Workshop, DPRI 13 October 2015

Towards an Integrated Disaster Risk Assessment Platform for Hydro-Meteorological Hazards

GADRI and AGORA – is there a fit?

Charles Scawthorn

Professor (ret.), Kyoto University





Allied, what more can DRIs (GADRI) do?

- Foster scientific exchange
- Collaborative research
- Support creation of global databases
- Create/support global disaster analysis tools (~ GEM)
- Create global standards for disaster risk / reduction
 - Rating systems (buildings, tools, programs...)
 - What is the benefit/cost of DRR?
- Endorse Member DRI research proposals
- Speak globally, at the UN and other world bodies
 ~ IPCC









NATURAL HAZARDS

-EARTHQUAKE

MITIGATION

-WIND

LOSS ESTIMATION

-FLOOD...

Cost Justification →

AGORA

Greek → means a "open place where people meet" (often, a marketplace)



In this case,

an international forum contributing to reducing natural hazards death and destruction through open risk modeling.

Fostering:

Open Methods

Open Tools (esp. software)

Open Data (ie, generic hazard and

vulnerability data; generally does not mean

asset-specific data)



globally

www.risk-agora.org



1st International Workshop on Open-Source Risk Sofware

California Institute of Technology 27-28 February 2007

- California Institute of Technology
- Cambridge University (UK)
- Extreme Situations Research Center (Moscow)
- Imperial College (London)
- •Kandili Observatory (Bogazici University, Istanbul)
- Kyoto University (Japan)
- Lloyd's of London

- •Mid-America Earthquake Center MAE
- •NEES Network for Earthquake Engineering Simulation
- Old Dominion University (USA)
- Russian Academy of Sciences
- Southern California Earthquake Center
- SPA Risk LLC
- University of California, Berkeley
- University of Pavia (Italy)
- US Geological Survey
- Virginia Tech (USA)



LLOYDS

THE TIME IS RIGHT

OPEN-SOURCE CAT MODELLING

23 FEBRUARY 2007

Lloyd's Franchise Performance

In general the existing CAT modelling applications have the following issues:

- Limited resource, individual opinion
- Time Delay
- No option to mix and match…"

"We wish to raise the idea of an open source catastrophe model framework...

- •The framework should be fully open source under GNU General Public Licence
- •We believe that the time is right to develop the concept of open-source catastrophe modelling."



Risk-related Open Software

HAZARD

P(H E)



VULNERABILITY
P(D | H)







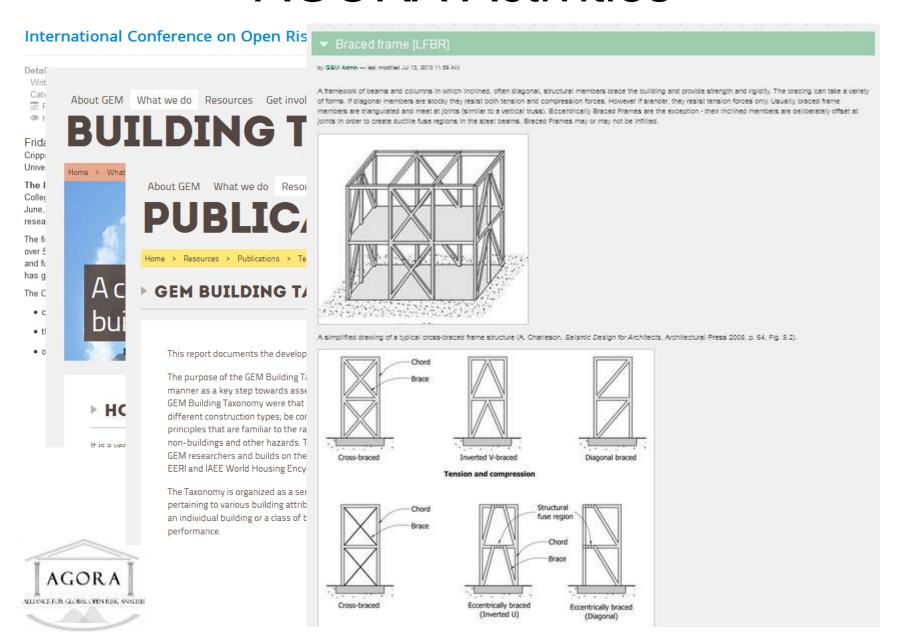


Key Workshop Points

- Loss estimation (risk software) is a key step in loss reduction
- Current software: slow adoption, low impact
- Open Source movement shows the way
- Current Open Riskware projects here and there
- AGORA:
 - channel for communications, sharing, tech exchange
 - synergy, mutual support (proposal letters of support...)
 - OpenRisk development underway



AGORA Activities



Is there a fit?





Thank You

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