



OGS, Centro Ricerche
Sismologiche,
Trieste and Udine, Italy

The 40 anniversary of the Friuli (NE Italy) earthquake: a look back for empowering the next generation to the reduction of seismic risk

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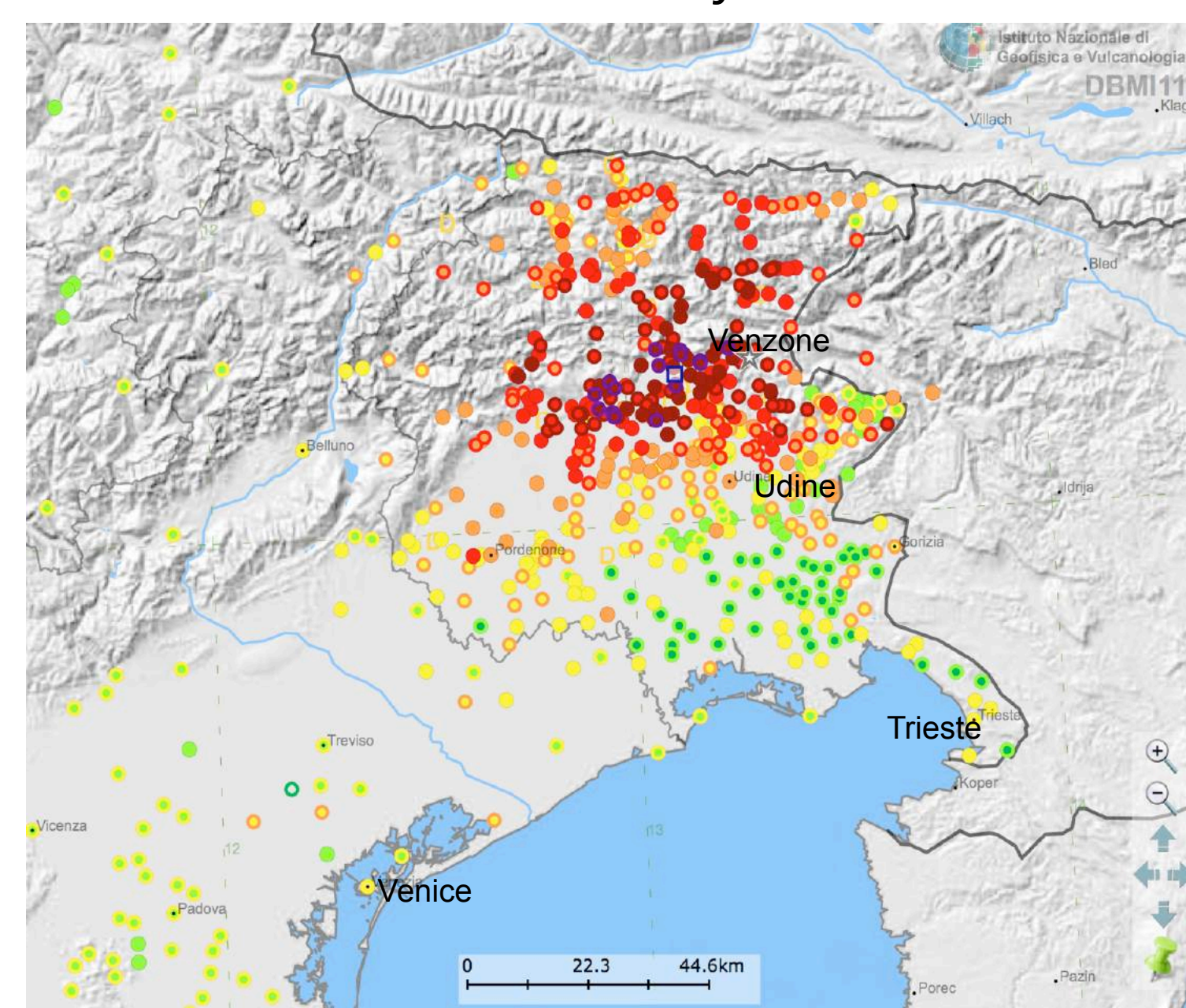


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WHY and WHAT

The 1976 Friuli earthquake

On 6 May 1976 a Ms=6.5 earthquake struck the Friuli area (NE Italy), causing about 1,000 casualties, and widespread destruction. Such event is the largest so far recorded in Northern Italy.



After 40 years, the memory of a devastating earthquake remains in the urbanization and in the people who lived that experience, but it tends to vanish with the quake survivor demise.

What we did

The commemoration of the anniversary becomes an opportunity to refresh the local earthquake history, and the awareness of living in a seismic prone area.

We planned a special educational campaign, mainly devoted to the schools and the young people, to check and, if necessary, to empower the local communities. The activities are focussed on :

- experiential activities for teens, held by researchers in some schools
- weekly opening of our seismological lab to school visits
- cooperation with local science museums.

Through a survey we are checking what the students know, about the 1976 earthquake and about their exposure to the seismic risk.

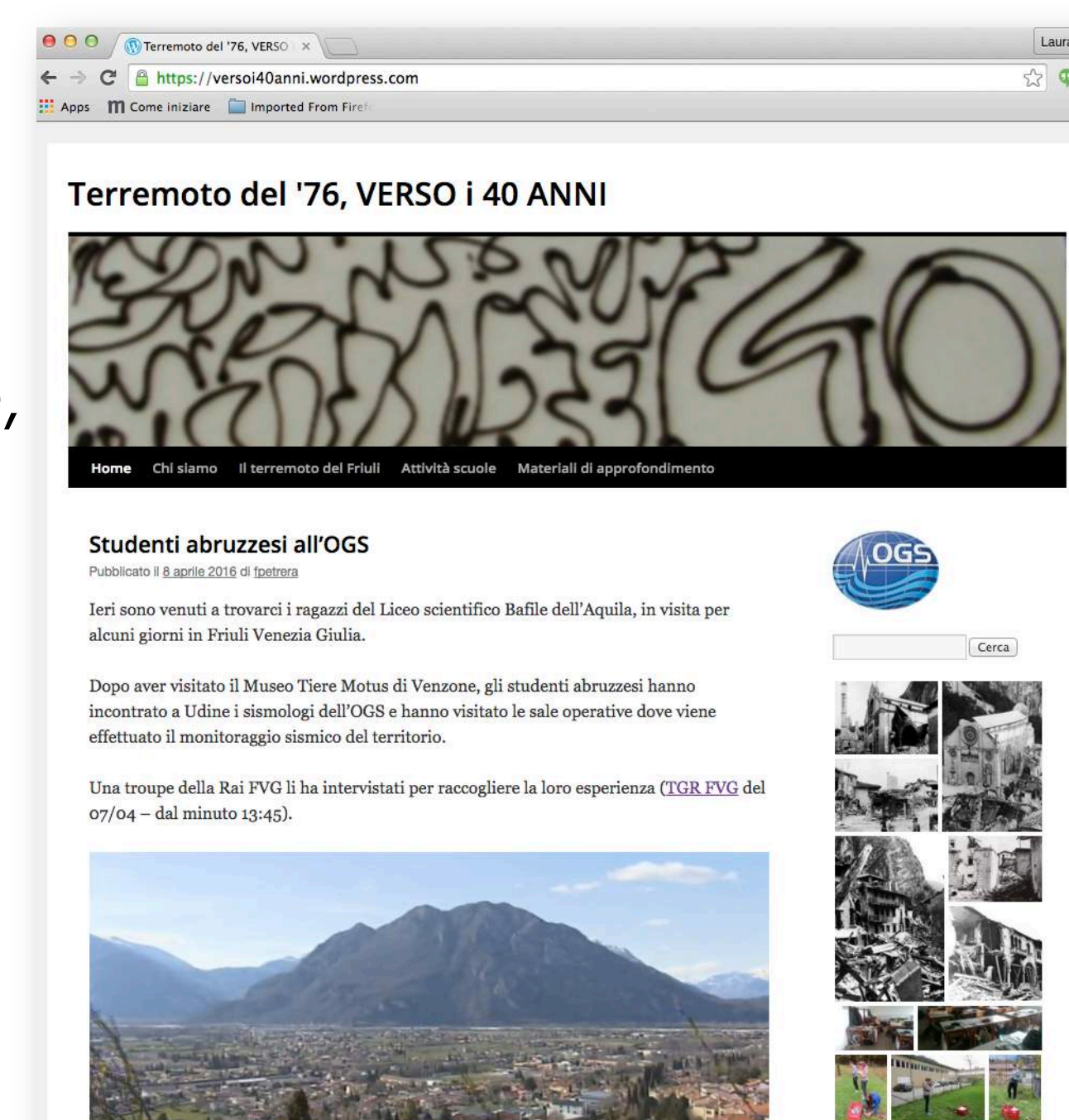
All the initiatives promoted since May 2015 by our lab, *Centro di Ricerche Sismologiche*, have been published in a devoted blog

<https://versoi40anni.wordpress.com>

The blog collects news, photos, videos and all the materials related to the campaign.



Follow also via our social channel
www.facebook.com/ogscrs/



ACTIVITIES FOR THE STUDENTS

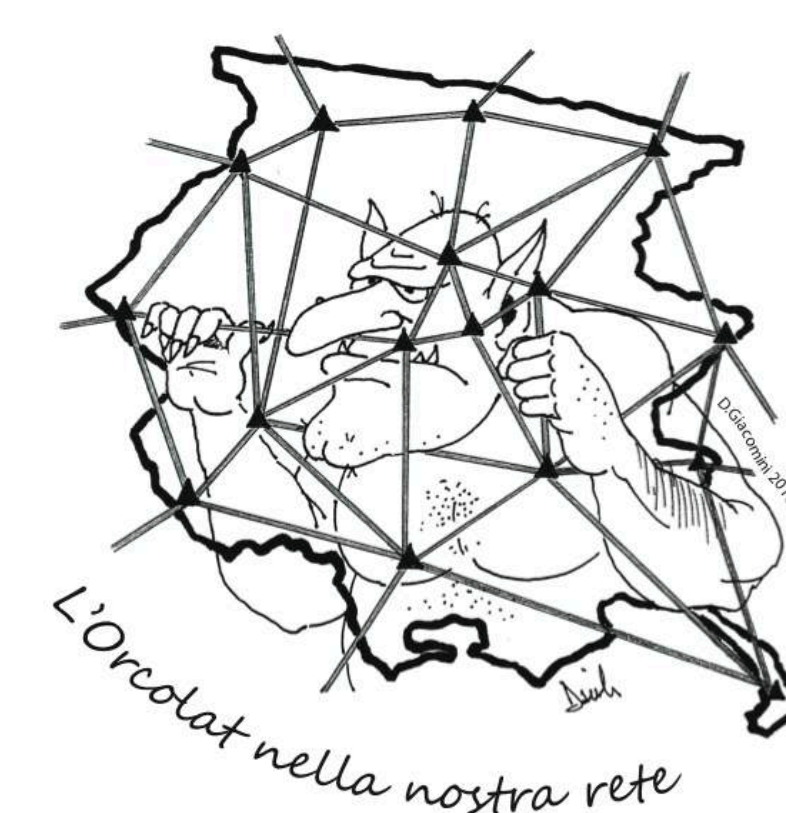
Experiential learning

Learning through reflection on doing is the most effective way to educate the students on the best practice of seismic safety. On this issue we gained lot of experience leading several educational projects (e.g. SISIFO, Peruzza et al., 2016; PRESS40, Barnaba et al., 2016).



Peruzza et al. (2016). Teach & Learn seismic safety at high school: the SISIFO project. *Boll. Geof. Teor. Appl.* doi 10.4430/bgta0157
Barnaba et al. (2016). PRESS40: a project for involving students in active seismic risk mitigation. [EGU2016-3994](https://doi.org/10.1017/egus2016-3994)

Visits to our seismological lab



In the popular traditions of the people living in the Friuli area, the ORCOLAT is the fiend causing earthquakes. We adopt this legendary character as the symbol of our campaign.



Cooperation with TIERE MOTUS museum of Venzone

A visiting path to explore the earthquake social impact

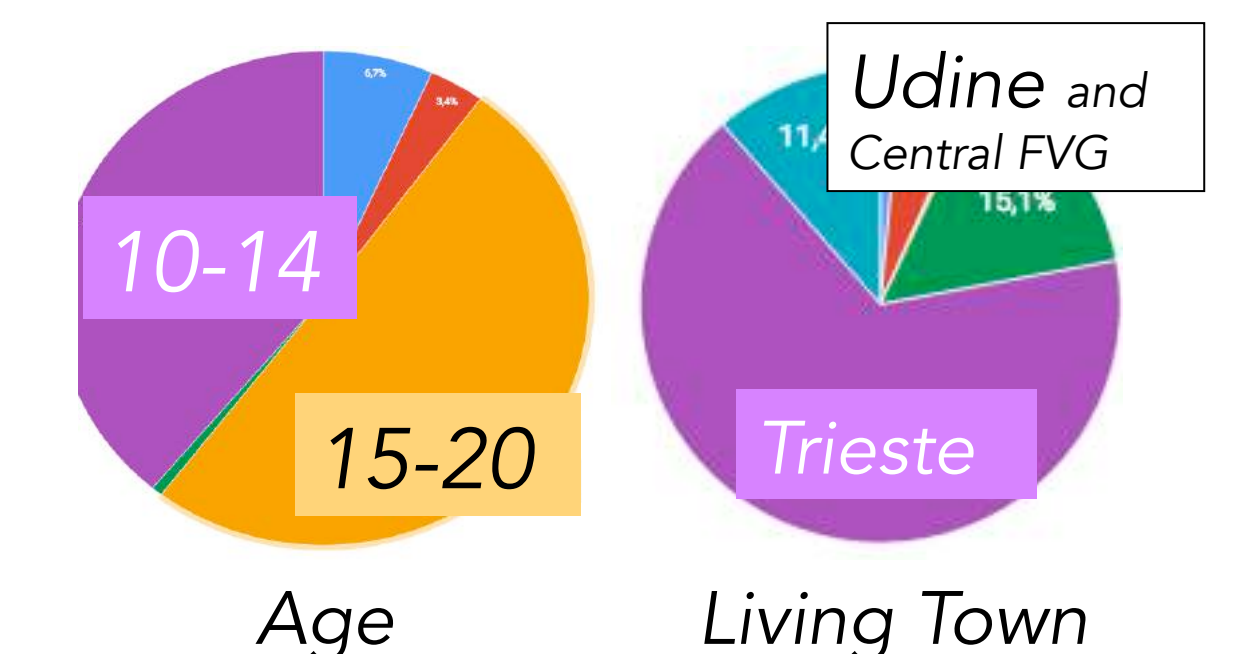


Courtesy of Aldo Di Bernardo, Museo TIERE MOTUS, Venzone (Udine)

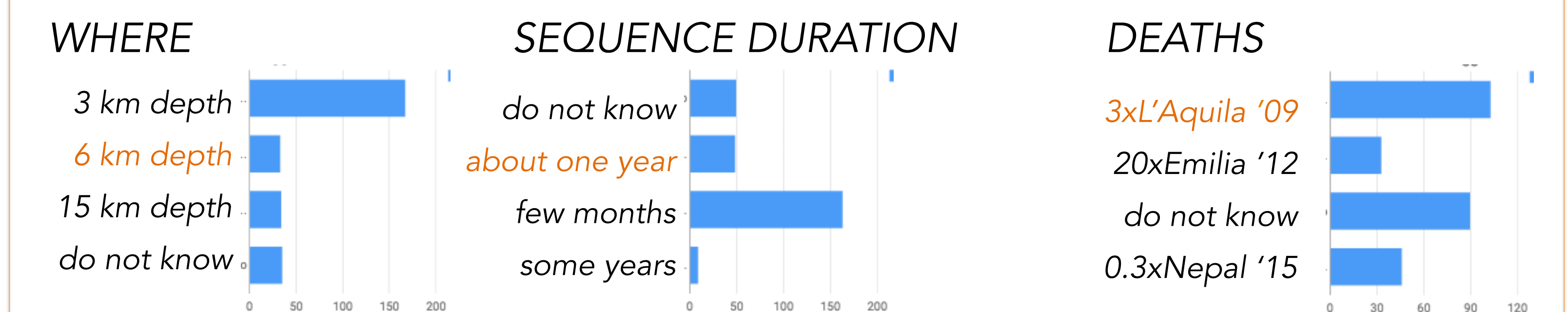
THE SURVEY

What do the students know about the Friuli earthquake after 40 years ?
Which natural hazard they believe to be exposed to?
How do they behave for reducing seismic risk?

The students visiting our lab were asked to answer 10 survey questions. We present here some preliminary analyses performed on about 300 surveys.



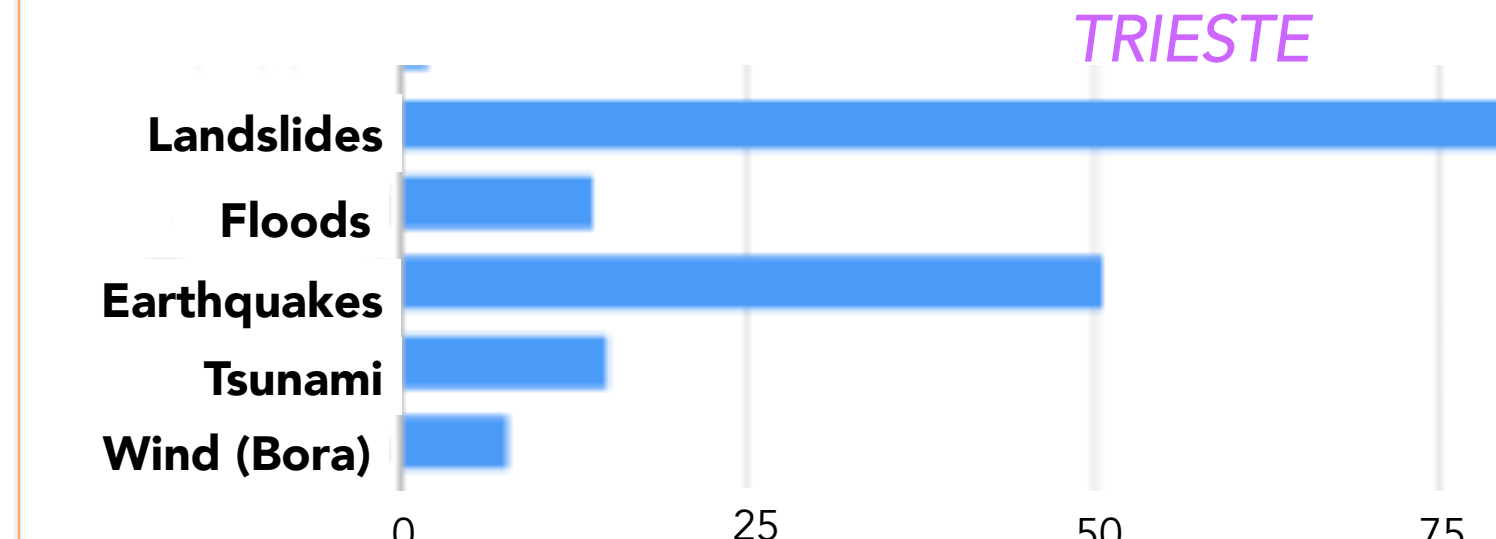
Knowledge about the 1976 Friuli earthquake



Bad knowledge of the earthquake physical features. Fairly known is the social impact.

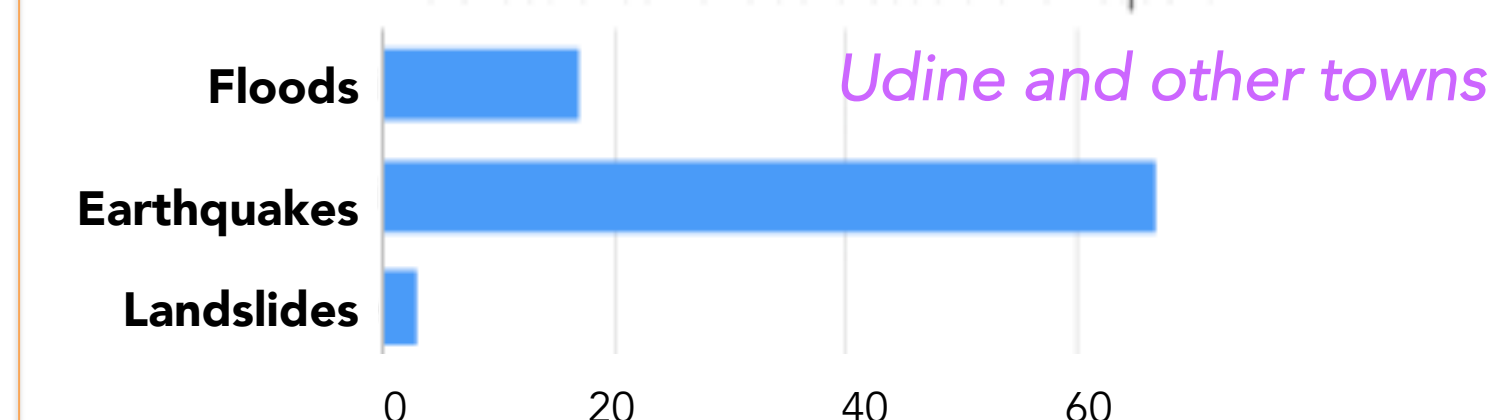
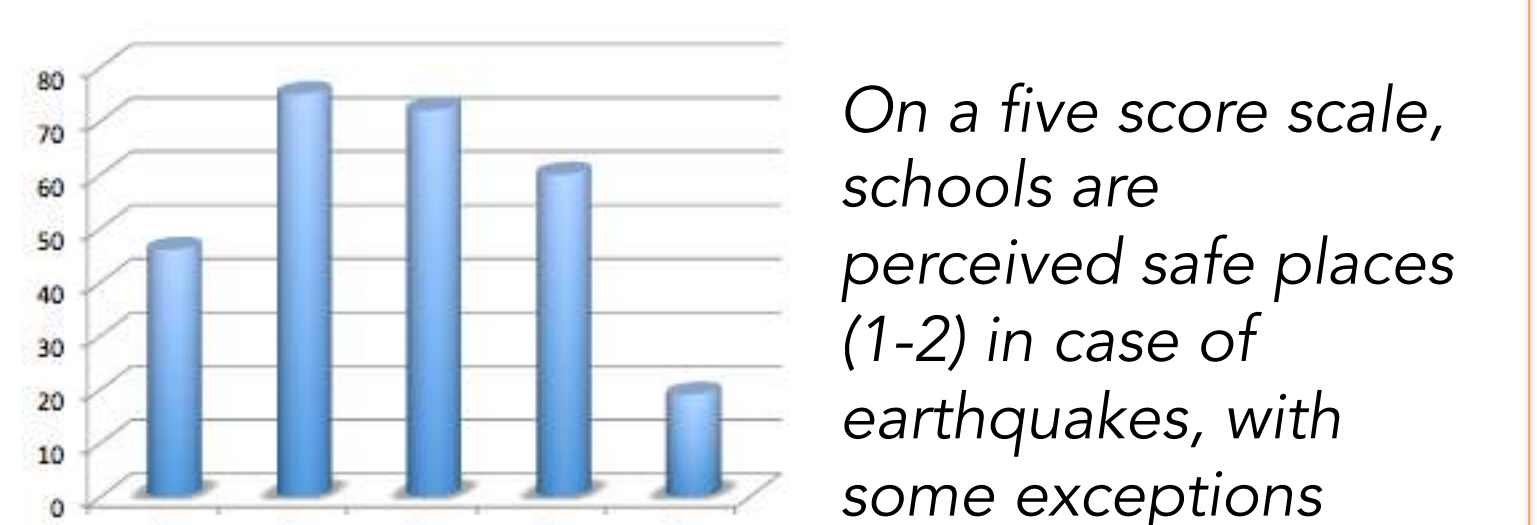
Beliefs

What is the major natural hazard where you live?



Behaviours

SEISMIC SAFETY at SCHOOL



DEFENSE AGAINST EARTHQUAKES

The only open question of the survey asks to describe 2 actions for the defence against earthquakes. The majority of the students (99.6%) described actions to be taken during the earthquake. Preventive actions, e.g. building retrofitting, are not considered at all!

The memory of past earthquakes is well rooted in the Central Friuli, and floods are properly addressed among the main natural threats. In Trieste, students identified phenomena not well connected with the real hazards.

...more at the next ESC in Trieste, Sep. 2016 !



Please consider submitting an abstract to the session:
#23 - Educational seismology: Empowering the community for seismic risk reduction

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