L'Aquila earthquake of April 6 2009: a turning point in the educational strategies for seismic risk reduction



teachers and students, the project changed its methodology and contents. EDURISK PROJECT METHODOLOGY IN "PEACETIME"

This work compares the experience of the EDURISK Project (www.edurisk.it) educational program on risk reduction, achieved in the Abruzzo's schools before and after the L'Aquila (Abruzzo, Italy) earthquake of April 6 2009. In order to face the new emotional and cognitive needs of

The Edurisk Staff [seismologists, historians, geologists, engineers, psychologists]

KNOWLEDGE

AWARENESS

ACTION

Tools

ww.edurisk.it



Teachers teaching skills



School Children (Infant, Primary, Secondary Schools)

PROJECT ASSESSMENT

EDURISK PROJECT METHODOLOGY AFTER L'AQUILA EARTHQUAKE, APRIL 6 2009

The Edurisk Staff [seismologists, historians, geologists, engineers, psychologists]

KNOWLEDGE AWARENESS

ACTION



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Parents Teachers teaching skills

School Children (Infant, Primary, Secondary Schools)

PROJECT AND **PSYCHOSOCIAL** (Teachers, Parents, School Children) **ASSESSMENT**

CONTENTS IN "PEACETIME" **KNOWLEDGE AWARENESS ACTION** Competencies and capabilities history, geology, physics, seismic vulnerability reduction believes, fears, anxiety

engineering, phenomenological approach

1st module. General information on EDURISK Project: Principles, Goals, Methodology, Contents, Tools.

Scientific information

2nd module. Seismicity and Seismic hazard: General seismicity, theories instrumental and hystorical data Italian and local seismicity. Seismic hazard. Hazard maps.

4th module. Earthquake and psychological effects. Emergency and psychological levels of prevention. Psychological reactions. What to do during and after an earthquake. The role of

confidence

3rd module. Evaluation and risk

techniques, emergency plans,

civil protection

Definition of risk (vulnerability, exposed value, hazard). Rules and actions to reduce risk. Civil Protection structure.

CONTENTS AFTER L'AQUILA EARTHQUAKE APRIL 6 2009

KNOWLEDGE

AWARENESS

ACTION Competencies and capabilities

After L'Aquila earthquake, the borders among the three educational areas became reduced and the area of awareness seemed to be more important than the other two ones. The stucture of training sessions and contents of the modules were adapted to specific local needs. The training sessions were reduced to a single day divided intro 3 modules (geological and seismological topics, psychological and social topics, educational activities).

1st module. General information on EDURISK Project: This module has been reduced to a short introduction. Proposals of educational activities were included in module 4.

2nd module. Seismicity and Seismic hazard: This module has been redefined to meet the main sensitive issues emerged in the post earthquake: forecast, communication, hazard assessment, political and administrative responsibilities, policies forthe risk reduction.

^{3rd} module. Evaluation and risk reduction. The contents of this module have been included in module 2, by adding a section on the safety of buildings after the earthquake.

4th module. Earthquake and psychological effects. This module has been revised according to earthquake.

effects in several local areas and based on emotional needs of participants. Some topics both individually and collectively of great relevance have been added: memory and repressed memory, grieving process, risk perception, recovery and reconstruction activities.

On the Left: Results of Edurisk Project evaluation conducted by Output EDURISK Project Questionnaire in November 2009.

On the Right: Preliminary results of the Post-Ante Questionnaire and Quality of Life Assessment (WHOQOL-Brief) conducted after April 6 2009 L'Aquila earthquake.

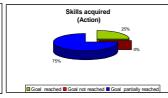
Output Edurisk Project Questionnaire

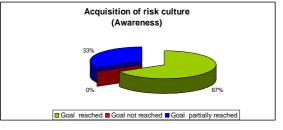
educators. Educational

programs on emotions

Results of Edurisk Project evaluation conducted by Output EDURISK Project Questionnaire on the teachers of the three schools that participated to the Edurisk Project from November 2008 until April 2009. The data show the effectiveness of the Edursik project for the areas of Knowledge, Awareness and



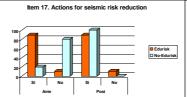


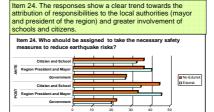


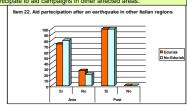
Post-Ante Earthquake Questionnaire

Item 17. Action for seismic risk reduction. EDURISK Project participants take actions to reduce risk both before and after the earthquake of April 6. Teachers who have not participated to the Edurisk project have taken no action to reduce risk before the earthquake but took actions only after the

Item 22. Answers show that, after the earthquake of April 6, all teachers would participate to aid campaigns in other affected areas.







Quality of Life Assessment (WHOQOL-Brief)

The brief version of Quality of Life Assessment was conducted in November 2009 after the earthquake

Unfortunately, we haven't previous data on quality life in this area. The retest will be carried out at the end of 2010.