



and preparedness for a possible new shock.

It will provoke damages: this is why being informed is fundamental, as well as prevention has already suffered damages to things or people. It is possible that the next earthquake majority has a low energy) and on the vulnerability of buildings. The area where you live depends on the magnitude of the earthquake (thousands occur every year, and the

WILL THE NEXT EARTHQUAKE PROVOKE DAMAGES?

A seismic shock provokes oscillations, more or less strong, that move buildings in various ways. The most damaging oscillation are the horizontal ones. The oldest buildings and the ones without seismic protection cannot bear such oscillations and, therefore, represent a danger for people. Collapsing houses kill people, not earthquakes. Today, every new building must be built in compliance with seismic regulations.

WHAT HAPPENS TO A BUILDING?

Over the last thousand years, some 3,000 earthquakes have provoked damages more or less severe. About 300 of them (with a magnitude over 5,5) have caused destructive effects and one every 10 years has had catastrophic effects, with an energy comparable to the earthquakes of Central Italy in 2016. Every Italian municipality can be subject to earthquake damages, despite the strongest earthquakes concentrate in precise areas: Northern-Eastern Italy (Friuli Venezia Giulia and Veneto), Western Liguria, Northern Apennines (from Garfagnana to the Rimini area), and, above all, along the Central and Southern Apennines, in Calabria and Eastern Sicily. You too live in a dangerous area, where, in the past, earthquakes occurred or their effects have been perceived. And it could happen in the future too.

ITALY IS A SEISMIC COUNTRY

It improves the knowledge of the phenomenon and its effects, through territorial monitoring and specific projects; it promotes and carries out policies to reduce the vulnerability of public and private buildings, to make houses, schools, hospitals, cultural heritage and structures for emergency management safer; it updates seismic classification and regulations, indicating criteria for buildings in areas at risk and for a correct territorial planning; it carries out education programmes, drills and awareness activities for the population: being aware and prepared is a starting point for risk reduction. From 2017, with the "Sismabonus", every citizen can deduct from taxes a significant percentage (up to 85% in five years) of the costs incurred for seismic strengthening, improving and adapting edifices for dwellings and productive activities in the most dangerous areas (1, 2 and 3). Expenses must be incurred between 1 January 2017 and 31 December 2017 and the works must have been authorized after 1 January 2017.

WHAT DOES THE STATE DO FOR SEISMIC RISK REDUCTION?

On equal distance from the epicentre, the intensity of the shock provoked by the earthquake depends on the conditions of the territory, in particular on the type of soil and structure of the landscape. Generally, the shock is greater where the soil is softer, and minor in case of stiff soils as rock; the position is also important for the effects of the shock: it will be greater on the edge of mountains and along the borders of slopes.

THE EFFECTS OF AN EARTHQUAKE ARE THE SAME EVERYWHERE?

Nobody knows, it could happen in any moment. We know lots of things on earthquakes but we can't predict exactly when, with which energy and where they will occur. However, we know which are the most dangerous areas and what to expect from a seismic shock: being prepared is the best way to prevent and reduce the consequences of an earthquake.

WHEN WILL THE NEXT EARTHQUAKE OCCUR?

The **IO NON RISCHIO** terremoto campaign is promoted and carried out by



in collaboration with



Civil protection volunteers take part to the **IO NON RISCHIO** terremoto campaign with the local sections of Ana, Anc, Anai, Anpas, Anvvfc, Avis, Caritas italiana, Cisom, Cives, Cngei, Cri, Era, Fin, Fir Cb, Legambiente, Misericordie, Nucleo di protezione civile Inps, ProciV-Arci, ProciV Italia, Rnre, Ucis, Unitalsi, Vab. Moreover, the regional associations and local groups of Calabria, Campania, Emilia Romagna, Friuli Venezia Giulia, Lazio, Marche, Puglia, Sicily, Valle d'Aosta and Veneto will participate.

IO NON RISCHIO is a national informative campaign on natural and man-made risks that affect our country, carried out in collaboration with the involved Regions and Municipalities. It is addressed to the citizens with the aim of promoting their active role during prevention. The volunteers of civil protection - organized, trained and prepared citizens - are the protagonists of this initiative. Women and men that, on a daily basis, contribute in first person to risk reduction. Besides the days in the squares, the campaign provides for initiatives dedicated to the world of work and schools.



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IO NON RISCHIO terremoto

BUONE PRATICHE DI PROTEZIONE CIVILE



What to know and what to do **BEFORE** an earthquake



What do you need to know?

Where you live

Italy is an entirely seismic country but its territory is classified in areas with a different dangerousness. Who builds or modifies the structure of a house must comply with the seismic regulations of their own area, in order to protect the lives of its inhabitants. To know the seismic area where you live and which regulations to follow, ask to the relevant office of your Region or your Municipality.

Safety at home

It is important to know when and how your house was built, on which type of soil and with which materials. Above all, you need to know whether any modification was carried out in compliance with seismic regulations.

If you have any doubt or wish to know more, you can ask to the technical office of your Municipality or to an expert technician.

What to do before

With the advice of a technician

Sometimes you might just need to reinforce load-bearing walls or improve connections between walls and floors: to make the right choice, seek the advice of a qualified technician.

On your own, immediately

- Move heavy furniture away from beds or sofas
- Fix to the wall shelves, bookcases and other tall furniture; hang pictures and mirrors with closed hooks, in order to prevent them to come off the wall
- Put heavy items on lower shelves; on the higher ones, you can hold objects with double-sided tape
- In the kitchen, secure the cupboard flaps where plates and glasses are contained, so that they do not open during the shake
- Learn where are and how to close the taps of gas and water and the master switch of the light
- Keep at home a first aid kit, a flashlight, a battery-powered radio and make sure everyone knows where they are
- Get informed if there is a Local Plan of civil protection of your Municipality and what it provides for; should it not be available, ask for it, in order to know how to behave in case of emergency
- Delete any factor that, in case of an earthquake, can be a danger to you or your family
- Learn the correct behaviour to adopt during and after an earthquake and, in particular, pinpoint safe places in the house, where you can find a shelter in case of a shake

LEARNING TO PREVENT AND REDUCE THE EFFECTS OF AN EARTHQUAKE IS EVERYBODY'S TASK

Share your knowledge with your family, your schoolmates and your colleagues: each of us should contribute to the dissemination of information on earthquake risk.

