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ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

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Cover In the foreground the crater "La Fossa di Vulcano". On the left, in the background, the snow-capped summit of Etna volcano. The photo (courtesy of Stefano Branca) was taken on 8 April 2022 during an overflight with the support of the Coast Guard of Catania | *In copertina In primo piano il cratere La Fossa di Vulcano. A sinistra, sullo sfondo, la cima innevata dell'Etna. (Foto di Stefano Branca, ripresa l'8 aprile 2022 durante un sorvolo con il supporto del 2° nucleo aereo Guardia Costiera di Catania).*

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Emergent tools to promote understanding of natural hazards

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How to improve understanding of natural hazards is a major challenge for the research community. The multiple aspects of the hazard, from earthquakes to volcanic eruptions, landslides and costal erosion, require new methods not only for data acquisition, but also for data processing and consequent management. In this respect, emergent tools, such as augmented and virtual reality, offer great versatility and effectiveness.

Also, gaining insight into natural hazards with these tools can help communication to the general public as well as teaching to the digital native generation, particularly accustomed to these techniques for playing video games.

In this presentation we describe our outreach activity by using augmented reality to help understand hazardous events, increasing preparedness and resilience.