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The Vital Role of Geologists as crucial skills for climate action with the support of young generation.

In the context of COP30 and in relation to **Voices for regeneration: Youth, Knowledge and skills for climate action** that will be discussed in Italy Pavilion on November 12, 2025 in my role of President of CNG (Italian Council of Geologists) I am writing to emphasize the critical importance of geologists in addressing some of the most pressing challenges facing our planet today — from combating climate change to regenerating degraded environments, and inspiring young people to take part in building a sustainable future.

Geologists play a central role in understanding the Earth's processes and resources. Their knowledge helps us monitor and predict natural hazards, manage water and mineral resources responsibly, and develop strategies for reducing the impacts of climate change. By studying the Earth's past climates and geological formations, geologists provide invaluable insights into how our planet responds to environmental changes — insights that guide sustainable decision-making for the future.

In the fight against climate change, geologists contribute to vital areas such as carbon capture and storage, renewable energy development, and sustainable land use. They help identify suitable sites for wind farms, geothermal projects, and the safe storage of greenhouse gases underground. Moreover, geologists are key players in land and soil regeneration, working to restore areas affected by mining, erosion, and pollution, and ensuring that ecosystems can recover and thrive.

As COP30 takes place in Belém, at the gateway to the Amazon, we are reminded of the immense value of scientific and local knowledge in protecting some of the planet's most fragile and strategic ecosystems. The collaboration between science, local communities, and youth is a powerful path toward regeneration and climate resilience.

Equally important is the role of geologists in education and community engagement. By sharing their passion for the planet and their expertise in understanding Earth systems, they inspire young people to pursue careers in science, sustainability, and environmental stewardship. Encouraging youth involvement in geology not only cultivates curiosity about the natural world but also builds the next generation of problem-solvers and innovators who will continue to protect our planet.

In conclusion, geologists are indispensable in the global effort to create a more sustainable and resilient world. Their skills, research, and commitment make them powerful allies in regenerating our environment and inspiring positive change among young people.

Thank you for recognizing and supporting the essential work of geologists in shaping a better future for all.

Yours sincerely,

CONSIGLIO NAZIONALE DEI GEOLOGI

IL PRESIDENTE
Roberto Troncarelli