



Mountain Education & Innovation Manifesto

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Bearing in mind that:

Mountains cover 27% of the world surface, providing up to 60-80% of all freshwater resources for our planet. They host some of the most intact and well-preserved habitats and ecosystems worldwide and are home to many endangered species.

About 1.1 billion people globally reside in mountain areas, with a great diversity of cultures largely preserved from fast-paced globalisation. At the same time, mountains are often characterised by lack of work opportunities and qualified jobs, which are often centralised in urban areas.

Mountains are suffering from lack of infrastructures and basic services. Also for this reason, youths living in mountain areas have less chances to access high quality education within their territory and often pursue their career in urban centres located in the lowlands.

Despite the specificities of the mountain environments, cultures and economies, schools and universities do not address these specificities: the majority of curricula lack a mountain-oriented focus. However, we consider mountain education as a key driver to overcoming global sustainability challenges, as much as we know that actual sustainability challenges need new ideas and new solutions.

We recognise that:

Climate change is having concrete impacts on mountain areas, which can be considered as “sentinels of change” due to their close links with the surrounding regions and lowlands. Indeed, at present average temperatures are increasing more rapidly in mountain areas than in flatlands. At the same time, the increased pace of ice and snow melting, as well as the shortening of cold seasons, is affecting the availability of water resources with consequent negative impacts on agricultural practices and other vital activities located in mountain areas as well as in the nearby lowlands. Species composition and abundance are being increasingly impacted from changes in the cryosphere temperature. **The risk for natural hazards is steadily increasing putting pressure on human settlements.** The profitability of winter tourism is declining mostly due to temperature raise affecting local economies.

Mountains are hotspots of biodiversity, covering only 27% of the world’s surface, they host more than 85% of the species of mammals, birds, and amphibians, many of which are found only in mountain regions.

About 75% of the world's agro-biodiversity has been lost over the last century. Food diversity is crucial to preserve the cultural landscape and ensure food security within mountain communities.

We live in an interconnected world empowered by data and information, and technology is part of our life. However, there is still a digitalisation and technology access gap especially to be found in mountain and remote areas.

Virtual and physical connections, focused on the promotion of concrete action on strategic topics in line with the Agenda 2030 for Sustainable Development, as well as and cooperation among schools, universities and local communities **enable us to think differently and imagine a better future for all**. Moreover, interconnections enable youth living in remote areas to share their own uniqueness, expand their horizons and build a lively community.

Entrepreneurship, Research and Innovation are key prerequisites to foster economic livelihood and contribute to sustainable development in mountain areas. Research and Innovation can address lack of services, goods, and other basic needs empowering youths to become innovators and entrepreneurs, especially in the framework of small and medium enterprises, in their mountain territories.

We, the Young People, ask:

MOUNTAIN ORIENTED EDUCATION

- to include in school and university curricula specific lessons and experiences on climate change, biodiversity, interconnections and technology, innovation and entrepreneurship for promoting a better environment to live in for everyone;
- to include in school and university curricula practice-oriented training, mentoring and incubation, including experience and best practices from mountain entrepreneurs;
- to be connected to all the available knowledge and access all higher education courses and opportunities among different Countries and different mountain areas;
- to share local projects, meet and work together on community projects overcoming physical distances;
- to promote transnational and international experiences - e.g. students exchanges, summer camps, capacity building meetings - in other mountain areas promoting exchange on strategic environmental and societal challenges mountain areas are currently facing;
- to promote high quality education in mountain areas through the use of technological tools in order to ensure that no one is left behind: a University centre well-connected to different stakeholders and networks, from the local to the international level, can attract young people in mountain areas, preventing those who have finished their studies from going abroad while at the same time promoting place-based research and technology transfer able to answer to the needs of the local communities;
- to link school programs with projects able to bring value to our territories and enhancing local communities, for example promoting experiences related to

sustainable tourism in mountain areas, as a way to foster the understanding and valorisation of their cultural and natural heritage;

- to sustain school attendance through the promotion of public transports as a way to foster physical connections and reduce environmental impact.

MORE SPECIFICALLY WE ASK

- to be taught about the risks and changes linked to **Climate Change** and about the environmental impact of fast-paced production and consumption.
- to be taught about concrete and innovative actions we can take in order to reduce our environmental impact and mitigate Climate Change.
- to be taught about natural hazard prevention, mitigation and adaptation and understand the risks linked to Climate Change.

- to be taught about **Biodiversity**, its loss, its value, the problems it is currently facing, and its crucial importance for all human activities.
- to be taught about actions that can be taken on the local, national and global scale in order to tackle the phenomenon of biodiversity loss.
- to be taught about the value of biodiversity also on economical terms and be empowered with tools to measure and assess that value.

- to be taught about **Connections, networks and technologies**, and how to exploit existing information and technical knowledge to connect territories and culture for contributing to mountain sustainable development.

- to be taught about the opportunities for **Entrepreneurship and Innovation** in mountain areas, as well as about business regulations and financement opportunities in our regions.
- to be taught how to create new value from traditional production practices and develop new value chains, as well as manage production and consumption in a sustainable way preserving natural resources and mountain fragile ecosystems.

EMPOWERING OUR ACTIONS

- to be provided with interactive and engaging tools to participate in climate change and biodiversity preservation discussions;
- to be heard and to be involved in political decisions concerning climate change and biodiversity preservation measures at local, national, and global level;

- to be able to meet and exchange best practices, and learn from each other, as well as to encourage bottom-up actions and participation in concrete projects at home and abroad;
- to be empowered with the tools to understand local economy trends, develop innovative ideas for for the sustainable improvement of local businesses and services;
- to promote the development of specific policies able to take into account mountain biodiversity's economic, cultural and environmental value;
- to be granted with the means to move within mountain areas and towards urban centres in order to learn, exchange and innovate with a systemic approach;
- to grant free and high-quality access to technology and infrastructures to all young people even in the most remote mountain village, as well as promote technology transfer and technology adaptations to mountain communities' needs reducing the interregional gap between cities and mountain areas.