

Trentino Sviluppo S.p.a.

Call for expression of interest

Project e-Ranger

In collaboration with:



UNIVERSITÀ DEGLI STUDI
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CALL FOR EXPRESSION OF INTEREST

“Project e-Ranger”

1. The e-Ranger Project

The **e-Ranger project** is promoted by **Trentino Sviluppo S.p.a.**, in partnership with the Natural Park Adamello Brenta, the University of Trento, TIM, Manfrotto, nVidia, Edmund Mach Foundation and MUSE.

The aim of the project is to identify companies able to design and implement a prototype, with a sustainable development perspective, of an unmanned system for the detection, monitoring, observation and analysis of environmental, geological, flora and fauna data, in protected natural areas.

The final output expected is to design and define models for forecasting the changes useful to support the adoption of policy decisions to safeguard the territory and manage the emergencies.

To this scope, **Trentino Sviluppo is looking for companies that operate**, as unique actors or as groups of companies (consortia or business groups), **in the following thematic areas**:

- Data collection and analysis technologies;
- Predictive mathematical and bio mathematical models for land control and changes in natural habitats, as well as for the integration of previous data with more recent data collected with new technologies;
- Advanced vision systems for the automatic collection and analysis of hr images;
- Data communication infrastructures for remote control of mobile infrastructures (e.g. unmanned vehicles) and fixed infrastructures (e.g. meteorological data collection stations) and for their management;
- Energy storage systems;
- Analysis of new materials to adapt the instruments of observation and control to extreme conditions.

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2. Steps of project:

Steps	Objective	Deadline
1. Publication of the Expression of Interest	Promote the e-Ranger Project to interested companies and collect applications.	From 18 December to 19 January 2017
2. Publication of the call for the submission of technical offer	<p>Identification of three companies (max) or groups of companies based on their compliance with the technical requirement contained in the notice for the submission.</p> <p>A specific Technical Committee nominated by Trentino Sviluppo will be in charge of the selection procedure.</p> <p>Company or groups of companies will be required, in the period between march-august 2018, to develop the technical proposals before the third step.</p>	February 2018
3. Presentation of the projects ideas and proclamation of the winner of the competition	Selection of the best proposal that will receive a grant for the implementation of the new project.	<p>September 2018.</p> <p>A presentation of the scientific contents of the proposal could be presented during the "8th International Conference on UNESCO Global Geoparks"</p>
4. Launch of the project and presentation of first results.	Controlling and monitoring of all the time line of the activities as scheduled on the proposal.	April 2019
5. Close the project	Checking and testing of the prototype and accounting for the expenditures. Supporting the launch of the project on the market.	September 2020

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The winner companies invited to present the proposals will be awarded with **10,000 Euros** for the implementation of the technical project. The winner company or group of companies will receive some appropriate resources:

- a) use of the **suitable spaces** to develop of the business activity;
- b) use of the **test and prototyping sites** for the required tests to come by University of Trento, Foundation Mach, MUSE and Promo-facility of Trentino Sviluppo;
- c) will be ensured **Qualified Human Resources** with technical/scientific competences for facilitating the technological activities and for managing and implementing the project.

Moreover, it could be evaluated the possibility, depending to future availability, to join **promotional events** in Trentino (such as *8^a 8th International Conference on UNESCO Global Geoparks 2018, Meteorology Festival 2018, Economics Festival 2019, International Meteorology Conference 2019*). The types and modes should largely provided in the second step of the planning.

The **winner companies** will have to **establish their business activity in Trentino** region within 60days from the publications of selection results.

Trentino Sviluppo reserves the right to exclude from the competition any proposal that is not in line with the scope and the rules of the Project. The same applies if the funds necessary to assign the prize are no more available or if the resources mentioned in sub-letters a) b) and c) are no longer at disposal. The companies or group of companies, willing to participate to the project, are not entitled in any case to ask Trentino Sviluppo and its partners any compensation and refund, no matter the motivation.

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3. Adamello Brenta Nature Park

Adamello Brenta Nature Park was established in 1967 and it is the largest protected area of Trentino. Located in the western part of Trentino Province - Italy, it is 620,25 km² wide: it includes Adamello and Brenta mountain groups, divided by Rendena Valley and bordered by Non Valley, Sole Valley and Giudicarie Valley.

There are two different morphological areas: one is a calcareous and sedimentary, the Dolomiti Brenta group, created in primordial seas and now it has less water than in the past; another one is a crystalline and intrusive massif that it is called Adamello - Presenella, generated by "fire" and now it has more water than in the past. Eighty lakes and one of the largest glaciers in Europe, the Adamello Glacier, characterize its territory.

The two groups of mountains are separated by Rendena Valley, that it is crossed by Sarca river.

In 2008, the Park has achieved recognition as the Adamello Brenta Geopark, becoming part of the European Network and Global Geoparks: a network of protected areas that work together to valorise the geological heritage of the Earth under the auspices of UNESCO.

In 2009, Dolomiti Mountains was included on the World Heritage List.

In 2015, the Park Brenta became part of the "UNESCO Global Geoparks".

In 2016, Legambiente Foundation awarded Adamello Brenta Nature Park with the "Oscar of the Ecotourism" prize.

In mountains that still provide a home for the brown bear, it is not surprising that the wildlife is extraordinary - chamois, red and roe deer, and eagles. Also steinbock, foxes, badgers, martens, black grouse, capercaillie, marmots, ptarmigan and numerous other large and small animals.

The presence of two groups of different morphology and their geographic positions, near the Garda Lake and with a large gradient height (477m-3558m s.l.m.), makes the Park a particular and specific territory. In the space there are two different climate, the first is like a Mediterranean climate in the southern of Brenta Park and the second is like Arctic climate in the part of Adamello and Presanella Park.

From the sunny slopes of the mountains in the south of the Park to the high peaks lashed by the frozen glaciers, the observant visitor cannot help but notice the variety of plant habitats, from the boundless forests to the minuscule plants that challenge the harshness of the highest rocky crests. The Park hosts more than 1500 plant species.

Numerous side valleys, among the most beautiful in the Alps, provide access to the Park's wildest and remotest environments. Each with its own distinctive characteristics, they confirm the indissoluble link between man's actions and their geological-environmental context.

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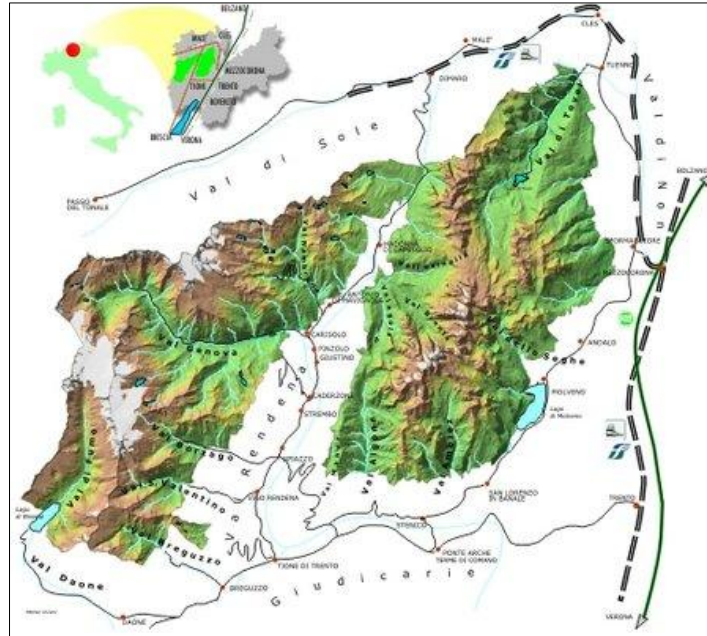
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Rich woods and meadows, fruits and flowers which are rare to find, thousands of insects, birds and other animals whose life is determinant for the biological equilibrium of the Park and of the Earth, need now more than ever to be protected, and with Your help too.

Fig.1 Maps of the Adamello Brenta Park



(Source: <http://www.pnab.it/vivere-il-parco/mappa-del-parco.html>)

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4. Info Point

Companies or groups of companies interested in participating to the Project are required to complete the **Expression of Interest form** at <https://agora.trentinosviluppo.it/> by **19th January 2018, 12.00 noon (CET)**.

For any information regarding the Project, please contact (+39) 0464-443111 or by email at attrazione.investimenti@trentinosviluppo.it with "Project e-Ranger" as subject.

[References: Mr. Massimo Zorzi or Ms. Monica Carotta]

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