

# We can complete challenging projects within the set period of time



Novatop Topografia S.L. is a recognised topographical office, established in Llivia, Puigcerda. A team of four expert employees is working on surveying projects for a respectable clientele, ranging from (inter)national enterprises to governments. The office has particularly specialised in the construction of road and engineering structures.

Elias Nova, manager: "The strong point of Novatop Topografia S.L. is that we work on different projects with a close team. This keeps the lines short and makes us flexible. One condition for working with a small team is that we employ our resources very efficiently, so that we can also carry out large-scale projects. An example of such a challenging project is the chair lifts in the skiing area of 'La Masella' in the Catalan Pyrenees, for which we performed the entire measurement of the infrastructure. More and more skiers visit this splendid skiing area near Cerdanya and therefore it was decided to extend the infrastructure to the neighbouring La Masella and La Molina."

Elias continues: "Novatop Topografia S.L. measured the infrastructure for the new ski lifts with a total length of two kilometres in three months. Exact positioning of the pillars of the ski lift is important, as they must be installed with great precision and under rough conditions, sometimes with the help of helicopters. We were able to perform this job perfectly with Topcon's GTS-823, a reflectorless total station. The advantage of this equipment is that only one person can generate the measurement data. However, we first had to measure the entire route. For this an experienced skier went down the route with a GPS+ receiver, the Legacy-E of Topcon. This lightweight GPS+ receiver is packed in a backpack and can be carried along in a comfortable way. There is a constant connection with the base station, a Legacy-E as well. As signals are received of both the American GPS and the Russian GLONASS, and we therefore have almost twice as many satellites available, the measurement data are not only accurate but very reliable as well. Even in this woody area with mountains as high as 3000 metres! This measuring equipment does not only enable us to complete projects within the set period of time, it also allows us to accept more and larger projects."

*"Man and technique complement each other perfectly."*

*"Working in high mountainous areas requires reliable GPS+ equipment."*



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