

# Education and training



For the knowledge transfer, iTarg3T project organizes short courses, field trips and conferences at the graduate, MSc, PhD and professional level.



For the sake of dissemination to non-specialized public iTarg3T members participate in talks and dissemination activities.



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation.

**iTarg3T Consortium**  
The iTarg3T Project is a consortium with 13 partners from research institutes, academia, service providers and mining industry from the seven member states including Spain, Portugal, Germany, Czech Republic, Poland, Ukraine and Sweden.



Innovative Targeting & processing of Tin, Tungsten and Tantalum ores



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



## Raw materials

Europe has a large potential for the production and self-supply of W, Sn, Ta, and Li - raw materials, 'critical' for the economy. Despite ore deposits are abundant, there are specific problems related to their exploration, resource evaluation, comminution and social license that hamper their development. The iTarg3T Project aims to overcome these limitations, promoting the supply of these critical metals by providing innovative tools for deposit targeting &



Visit us in:

WEB

<https://www.itarg3t.eu>

SOCIAL MEDIA

<https://www.researchgate.net/project/iTarg3t>

<https://www.linkedin.com/in/i-targ3t-280332187/>

@iTarg3T



Scan me



## iTarg3Tproject

One of worldwide richest tungsten-tin (tantalum-lithium) mineral belts is located in western and central-eastern Europe, where different types of mineralization are related to felsic intrusive rocks. These ore deposits were intensively exploited until the 1980's, when they closed due to market constraints. However, currently there is an increasing demand of these metals, likewise, Europe hosts some active mines and dozens of advanced exploration projects. Most of these projects are brownfields and are located at or near existing mining sites. W-Sn mining differs from the large scale ones, since the deposits are generally of high grade—low tonnage and mostly worked by SME's. These differences are related to the grade control, resource evaluation and mineral processing. In addition, their location in distinctive ore belts with specific geological controls have kept these deposits away from recent advances in conceptual exploration. All these problems have hindered greenfields exploration and major advances in resource evaluation.

The iTarg3T project aims to provide solutions for the exploration of W-Sn-(Ta-Li) deposits via effective ore targeting, the improve resource estimation and ore processing. The aim is to contribute to the mid-term self-supply in Europe and promote the know-how on these deposits via training of students, transfer of knowledge and the promotion of start-ups synchronises with the solution of scientific, economic and technical problems. The project is divided in different work packages including the state of the art of W-Sn mining, recycling and substitution as well as social license, definition of the key guides for mineral exploration, new methods of geophysical exploration and resource evaluation and comminution tests using a novel and efficient prototype of water and energy saving for comminution (VeRo Liberator®).