

Title: GREENPEG

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GREENPEG (<https://www.greenpeg.eu>) is a consortium of 13 academic, government and industry partners in Austria, Germany, Ireland, Italy, Norway, Portugal and Spain and the United Kingdom, and led by Oslo University. Its principal aim is to develop virtual toolkits of geological, geochemical and geophysical methods that can be applied in mineral exploration for buried pegmatite bodies. Pegmatites are key sources of lithium, tantalum and other rare metals, along with high purity quartz. These materials are essential in many modern technologies, in particular those concerned with electricity storage and miniaturised electronics. However, it has so far proved impossible to locate pegmatites except where they are exposed on the surface, hence the need to develop ways to detect buried deposits.

Julian Menuge (UCD iCRAG) leads Work Package 4, which deals with the development of prospect-scale methods. Other work packages focus on district and province scale methods, and on integrating between scales. GREENPEG also seeks to develop new exploration technologies, to develop and promote sustainable exploration and mining, and to convert its technical findings into industry-ready products.