InvestRM – A Multifactor Model for Investment in Raw Material Sector, Case Study Bosnia and Herzegovina

Sibila Borojević Šoštarić1, Vječislav Bohanek1, & Anže Markelj2

1 University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering, Pierottijeva 6, HR-10000
2 Geological survey of Slovenia, Dimčeva 21, SI-11000

Under the project InvestRM, Bosnia and Herzegovina raw materials multi factor analyses was conducted composed of the following elements: (1) Legal data; (2) Social data; (3) Economics data, and (4) Geological data for a total of 126 deposits/geological occurrences of critical raw materials (CRM) existing in B&H – antimony, bauxite, fluorite, magnesite. For the purpose of harmonization and standardization of the CRM geological data are aligned with Mineral intelligence network structure and recommendations of the Raw Materials Initiative, making a fundamental contribution to the European Innovation Partnership on Raw Materials (EIP RM).

CRM deposits are described in tables contains following sets of information (i) basic geological information, deposit characteristics, raw materials characteristics, reserve characteristic, processing characteristic, waste/environmental characteristic and some additional information including supporting literature. Information for each of the deposits have been divided in three categories considering data quality. Data level represents the combination of available references for specific deposit and ability of information to express required characteristics.

- **Level A:** Data are based on references that describe the specific deposit (Elaborates, Technical documentation, Reports, Scientific papers, Geological maps) or references that in details describe the area with similar geological characteristics, within the deposit. Moreover, the benchmark for assessing this level is at least ¾ of essential characteristics delivered in the deposit template.

- **Level B:** Data are based on references that describes the deposit’s wider area (Publications, Scientific papers, Geological maps), with similar geological characteristics. The second benchmark for assessing this level is at least ½ of essential characteristics delivered in the deposit template.

- **Level C:** Data are based on references that describes the deposit’s wider area on regional scale (Publications, Scientific papers, Geological maps). In this group less than ½ of essential characteristics are delivered in the deposit template.

Data level A and B are obtained from 13 antimony deposits, 42 bauxite deposits, 5 fluor spar deposits and 38 magnesite deposits, while only 22 of the studied deposits have data level C. Geological data, supported with raw materials tailored legal, economic and social data for canton, entity and B&H are fully accessible via project web page at http/investrm.eu.

This project is funded by the European Institute of Innovation and Technology (EIT), a body of European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation.