

## SUPER-COMPACT STRUCTURES OF QUALITY STANDARDS FOR HEALTH AND SECURITY IN THE SUSTAINABLE DEVELOPMENT OF A MINING BASIN IN ROMANIA

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### **ABSTRACT**

*The article presents a synthesis of resources in different internationally areas (Europe, Africa, Middle East, Romania), physical map and positioning of the Carboniferous Basin Jiu Valley in Romania, and it is noted that the general economic development, with the declared objective for sustainability, is difficult, following some anthropic mining situations that affect the environment. The authors talk about the need for quality change, its reconceptualization in mining areas. They believe that it is time to identify forms of quality conversion, and not so much a conventional description, only of finding, or statistics, about its content and levels, especially in the mining / post-exploitation areas. The quality conversion in the Carboniferous Basin of the Jiu Valley can be highlighted, in context, by reporting the matrices of the stated parameters to field standards, in the eco-system for the studied mining area. "The new economy for the Jiu Valley Carboniferous Basin," according to the authors, must be "the post-mining economy reborn." The competitiveness given by the conversion of quality and the conversion to a new quality is important, but under the conditions of digitalization. The typing of the tangible, intangible and operational sub-structures is applied in the mining constructions in the area and in the organization of the different mining production lines, based on 3 main functions: the engineering - intra / economic function, the engineering - Trans / intra / social function, and the engineering - intra / communicative function.*

**KEYWORDS:** Coal Resources, Environment, Efficiency, Quality Conversion, New Post-Exploitation Economy