

## **Geoenvironmental Mapping for the Local Landuse Planing**

**NIEĆ MAREK, KAWULAK MAŁGORZATA, SALAMON EWA**  
Mineral and Energy Economy Research Institute, Polish Academy of  
Science, Kraków, Poland

. Geoenvironmental factors constrain free landuse planing. Mineral deposits, surface and underground waters, fertile soils, unstable ground and landsscape features are the main components of environment that needs to be considered as a basic for sustainable developement of local communities. Their presentation on 1 : 25000 and 1 : 10000 maps was found the most suitable for the local landuse planing. Systematic such mapping of communities within the Krakow district (voivodship) is realized since 1994. Map presentation, in computerized GIS based mode, allow to check environmental constraints for mining, quarrying, settlement building, road construction, as well as natural hazards possibilities (as lanadslides in montainous regions). They allow to focus attention on mineral and industrial rock resources available for local and general use, not limited by protection of other components of environment and protect them if necessary for their future utilization.