DESIGNING OF MINES OSTRAVA Ltd.



- Company is based in Ostrava city, the hub of Ostrava Karviná mining district.
- BPO gained its experiences in underground works and mine technologies within the Ostrava- Karviná Group of Mines.
- BPO a.s. provides complex project designs for underground and surface mines
- BPO covers all project stages from exploration to operation and eventual closing of mines
- Designs are processed mostly in AutoCad, Microstation, Carlson or Minex software

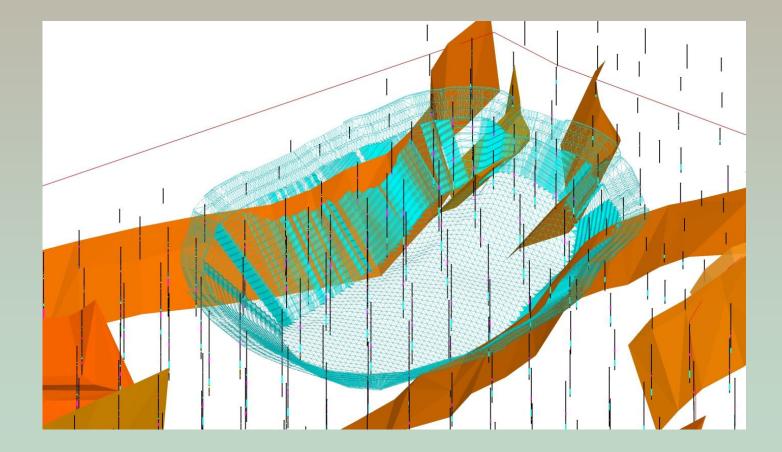
- BPO keeps traditional contacts with Czech Mining Authorities, Ostrava Mining University and other institutions
- BPO is certified in ISO 9001- 2009 quality management standard
- BPO is constituent member of Czech Mining Technology Association
- Czech Mining Law requires that every mining designer has to be certified by Czech Mining Authority
- Some professions, e.g. designer of electrical appliances has to be certified according to particular regulations

- Safety at work is a prerequisite for mining process.
- Designer has to observe and comply with all mining rules and instruction from the very beginning of mining intentions through all project stages.
- Mining engineering is very comprehensive issue where everything is interrelated
- Designer has to prepare plans in a way to avoid any danger or risk of accidents, i.e. proper way of opening of a mine, proper mining technology, sufficient ventilation, appropriate transport system etc.

- Mining regulations lay down detailed instructions on designing of all particular elements of a mine development and operation.
- Each project design has to include risk assessment
- Risk assessment has to include all hazards, namely:
 - mechanical
 - weak ground, caving
 - rock strikes
 - gases, outburst of coal and gas
 - coal dust, explosion protection
 - ground water
 - danger of self-combustion an fire protection
 - rescue plan

- All these hazards exists within Ostrava Karvina mines
- BPO designers are well trained how to protect our mines from these hazards
- This is integral part of our designing works
- Every project design must be based on proper knowledge of geological and mining conditions
- Understanding of local mining experiences and history is also very important.
- Mining is a matter of experience .

EREN Holding company – Kushmurun quarry 3D model



CZECH EXTRACTION AND MINING TECHNOLOGY ASSOCIATION

