ENGINEERING GEOPHYSICAL SURVEYS DURING INFRASTRUCTURE DESIGN

- Geophysical works at the stage of engineering geological surveys for a new development together with engineering geological drilling and methods of field soil tests:
  - Adjustment of engineering geological and hydrogeological conditions of a construction site
  - Evaluation of physical and mechanical properties of in-situ soils
  - Evaluation of soil corrosion activity and impact of wandering currents on steel structures
  - Study of negative natural and industrial processes and phenomena (karst and boil, landslides, erosion, flooding, etc.)
  - Study of influence of industrial dynamic impact on stability of soil massifs
  - Adjustment of location and condition of utility lines
  - Microzonation

- Monitoring of buildings subjected to influence of future construction:
  - Condition survey of soil basis, foundations and structural units of buildings subjected to influence of construction
  - Condition survey of underground constructions (tunnels, collectors, reservoirs, etc.)
  - Condition survey of road carpets and airport pavements
  - Evaluation of dynamic impact on land and underground utility lines during construction works (hammering, vibration, etc.)
  - Evaluation of industrial impact of development on geological environment and activation of negative geological processes and phenomena, formation of induced physical fields (vibratory, temperature and electromagnetic fields)

THE FOLLOWING EQUIPMENT IS APPLIED:

- IDS-1 Pile Testing Device
- OKO-2 Ground Penetrating Radar
- Borehole GPR Complex
- LAKKOLIT-X-3 Multichannel Seismic Station
- ERA-MAX Low Frequency Resistivity Instrument
- ERP-1 Electrical Instrument

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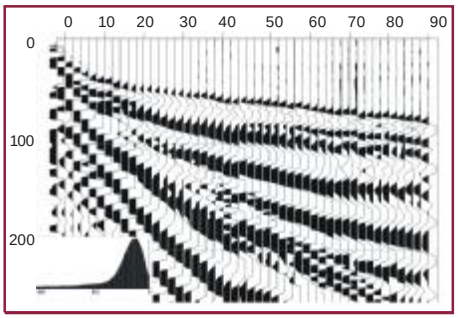
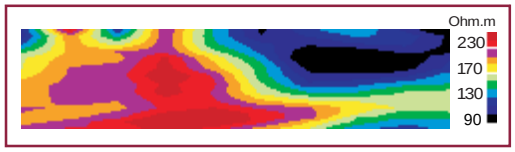
KRASNAYA POLYANA - SOCHI 2014

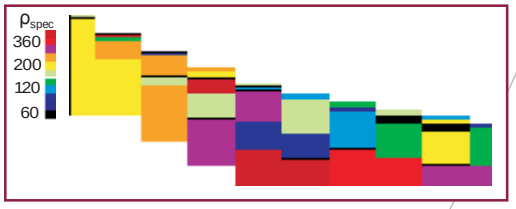
Initial seismograms with registered wave field



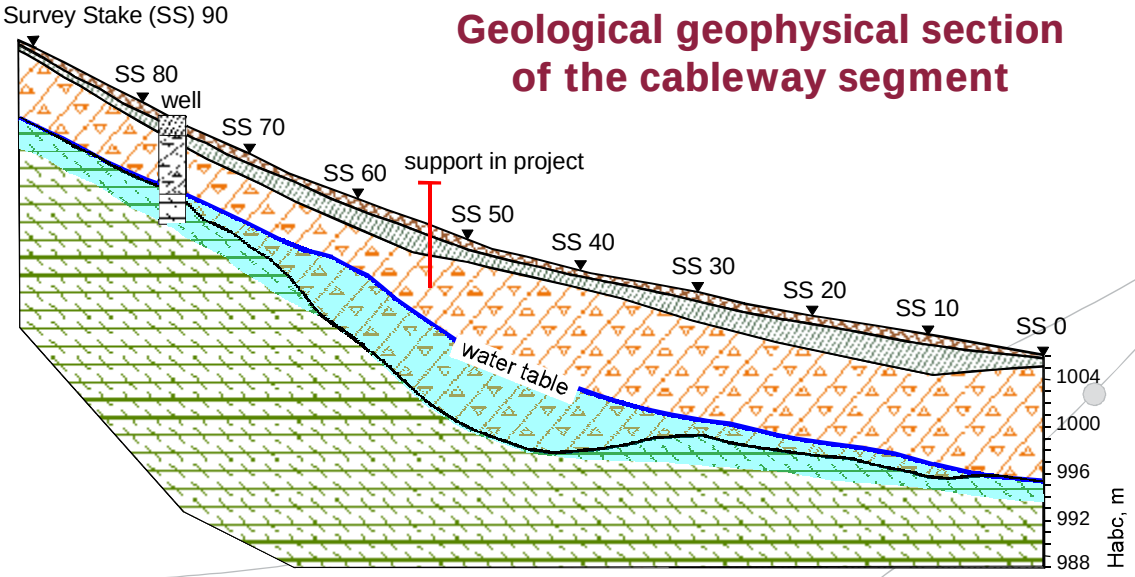
Section of apparent resistabces

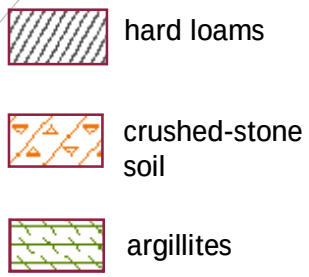


Geoelectrical section - result of vertical electric sounding interpretation



Geological geophysical section of the cableway segment





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