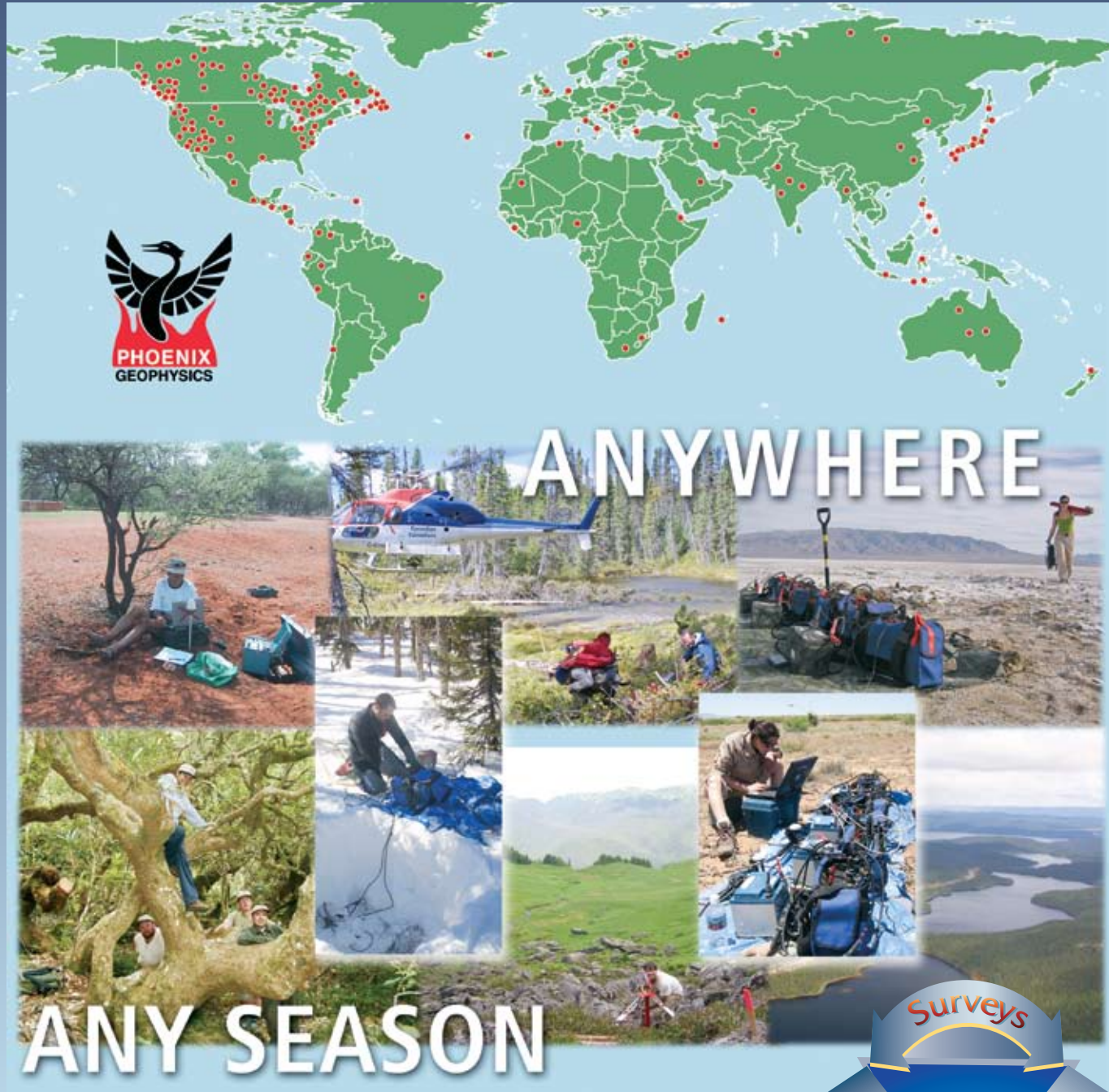



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# Cost-Effective Geophysical Exploration

Phoenix Geophysics **SSMT™** Survey Services can help you zero in on gold, uranium and base metals, kimberlites, geothermal sources, and oil & gas deposits.

## World Leader in EM Methods Since 1975

- Phoenix has specialized in electromagnetic (EM) instrumentation and services for over 30 years and has been the world leader in magnetotellurics (MT) since 1980
- We design, build, and operate complete systems: transmitters, receivers, sensors, and software
- We provide complete survey solutions: planning, instrumentation, data acquisition, and interpretation
- Our patented industry-leading equipment is GPS synchronized, with 24-bit resolution and sophisticated noise-reduction techniques
- We use both natural-source and controlled-source EM methods — MT/AMT, CSAMT, TDEM
- We've performed hundreds of surveys and sold hundreds of systems to exploration companies and other clients in over 80 countries

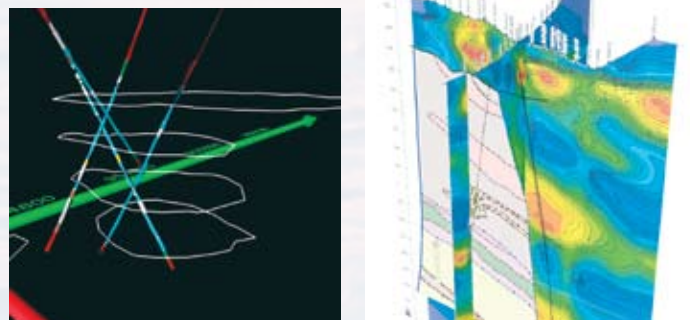


## Customized Service

- Close collaboration with every client, beginning with a feasibility study, modelling customer parameters
- Clearly explained, custom survey design to meet client goals

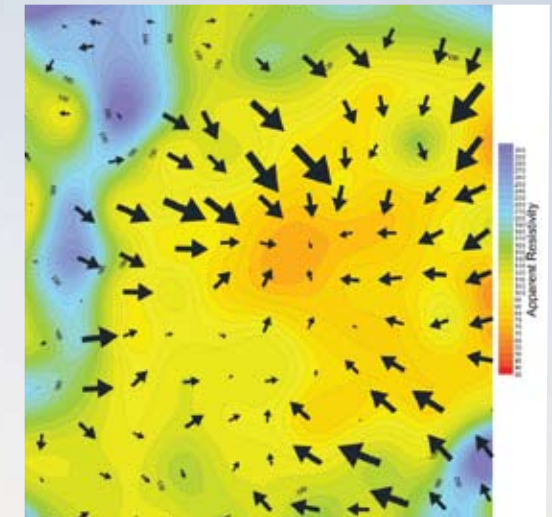
## State-of-the-art Interpretation

- Senior geophysicists at Phoenix have 30 years of practical experience interpreting a wide variety of geophysical problems



## MT/AMT for Detection of Deep Metallic Deposits, Kimberlites

MT/AMT can locate deep metallic mineral deposits and elusive kimberlite pipes undetectable with other EM methods. In 1992 Phoenix equipment succeeded in the deepest-ever detection of a metallic deposit — the 1750-metre-deep Trillabelle nickel deposit in Sudbury, Ontario. In 2005 in the Arkhangelsk region of north-west Russia, Phoenix MT/AMT equipment located a new diamond-bearing kimberlite pipe — only the second discovery since 1991.



Induction arrows derived from MT/AMT point to the new kimberlite discovery in Arkhangelsk

### MT ADVANTAGES:

- exploration from surface to kilometres deep, beyond the reach of other surface or airborne techniques
- light-weight portable equipment and small crews
  - no heavy or expensive man-made signal source
- practical over geological compositions from highly resistive to highly conductive
  - “sees through” thick conductive (clay) cover
- exploration in any season
- negligible environmental impact
- suitable for both greenfield and brownfield exploration

