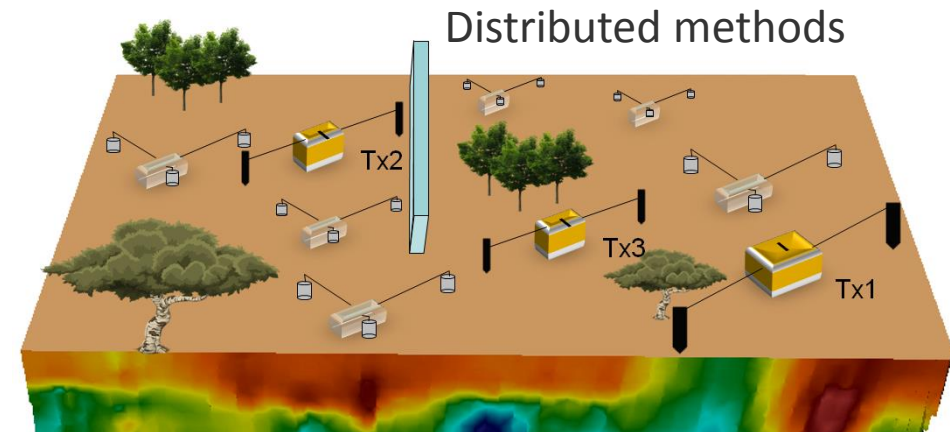
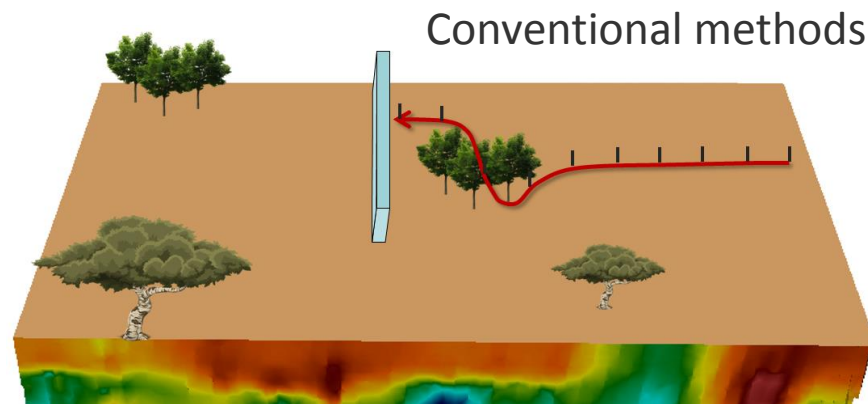


Contact point for this idea: Jean-Christophe GOURRY, jc.gourry@brgm.fr

Deeper-Faster-Geophysics for mineral exploration

- For **mineral exploration targeting**, Industry needs non-intrusive methods such as **geophysics**
- Industry needs especially **faster** methods that provide **3D imaging** of mineralization
- IRIS-Instruments and BRGM have developed **3D distributed** Resistivity and Induced Polarization methods
- Revolutionary concept: **no cables between receivers!!!!** (synchronization of acquisition through GPS)
- So flexible receiver spacing and no imposed grid
- Ideal for **massive sulfide deposits** (Cu, Pb, Zn, Ni, Au, Ag, PGMs, ...) (VMS-, MVT-, Sedex-type metallogeny models)
- Looking for partners to enhance **operational implementation** of these methods



Deeper-Faster-Geophysics for mineral exploration

- The V Fullwaver systems were developed for precise full waveform time domain Induced **Polarisation**, **Resistivity** and **SP measurements**
- Each system is **fully independent**; incorporating its own power source, GPS module and digital memory for up to 3 months continuous recording
- Ideal for **rough topography** (no imposed grid)
- Can obtain a **first 3D image** in few minutes
- Can then adjust receiver positions to improve imaging (**dynamic implementation**)

Transmitter
and injector



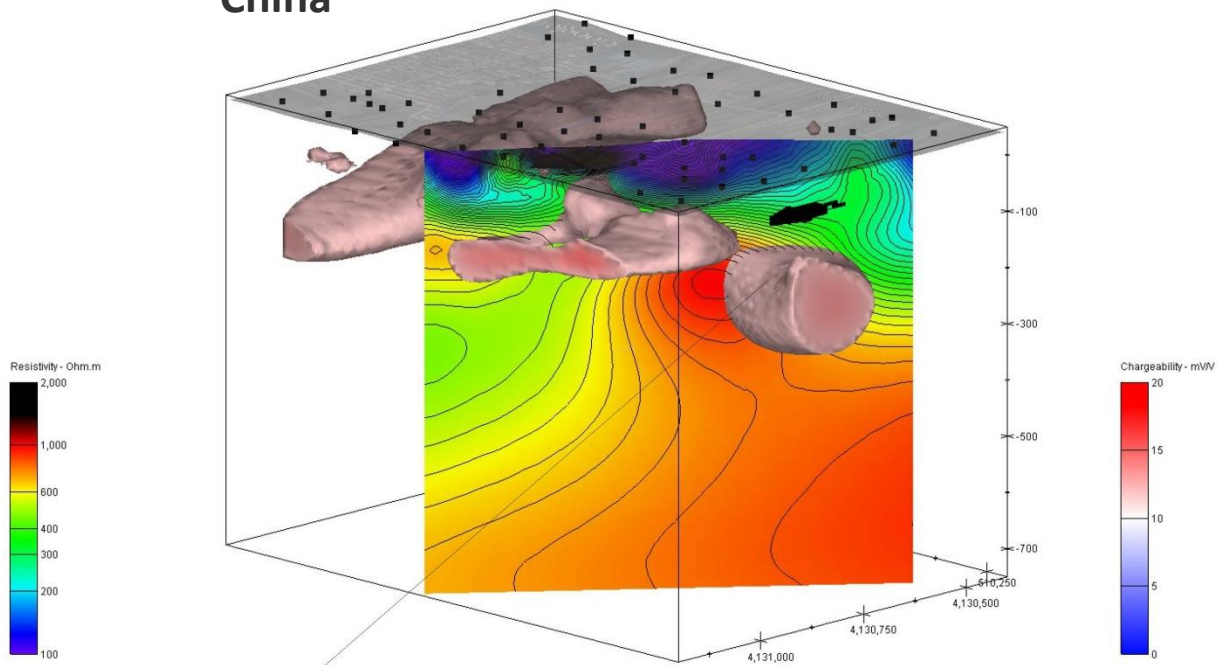
One receiver



Deeper-Faster-Geophysics for mineral exploration

- Application examples (since 2 years):

China



South-America

IP Chargeability volumes from
5 to 30 mV/V (+ data points)

