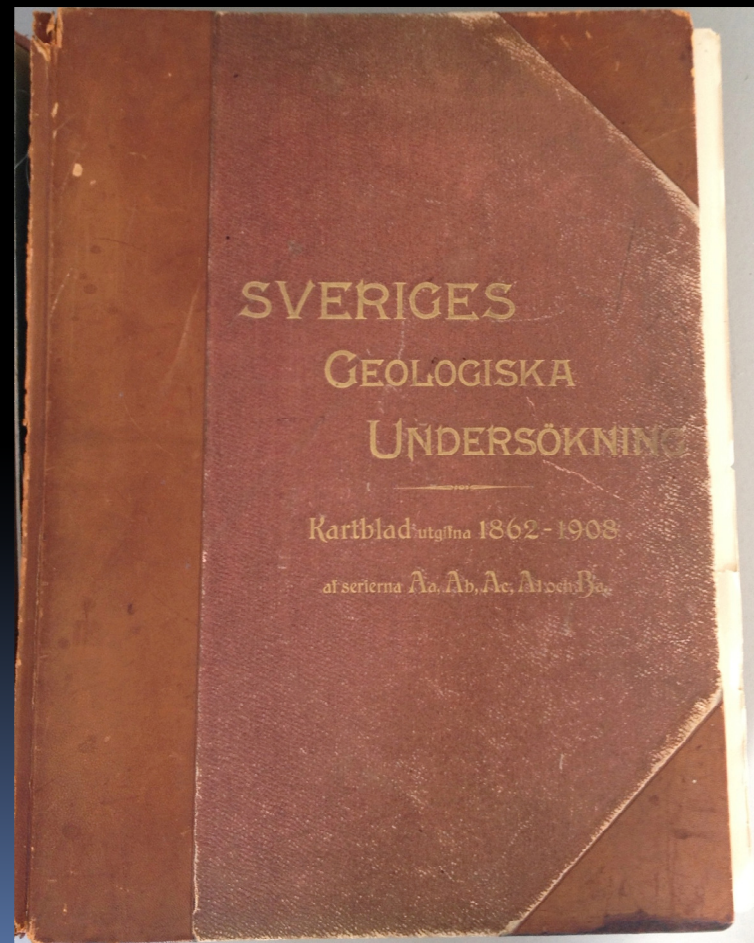


Geodata management:
*Insights from Swedish
practices*

Håkan Tarras-Wahlberg
Swedish Geological AB



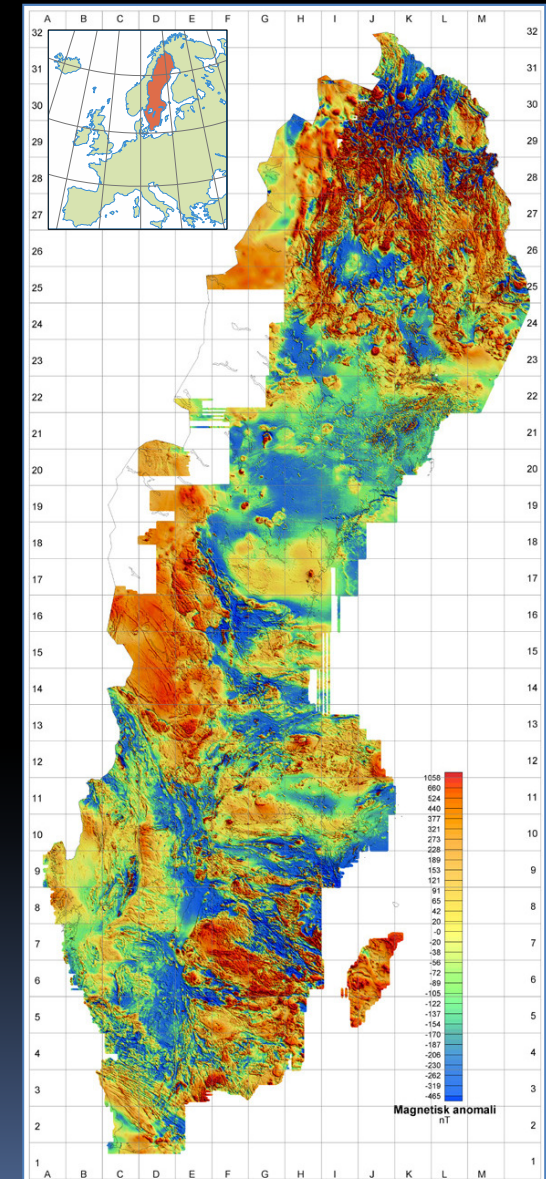
Geodata collected by SGU

To support mining / exploration:

- Geology
- Geochemistry (soil, bio, stream)
- Geophysics (magnetics, gravity, gamma)
- Drill cores etc.

To support other societal needs:

- Soil classification
- Geohazards
- Groundwater
- Geoengineering etc.



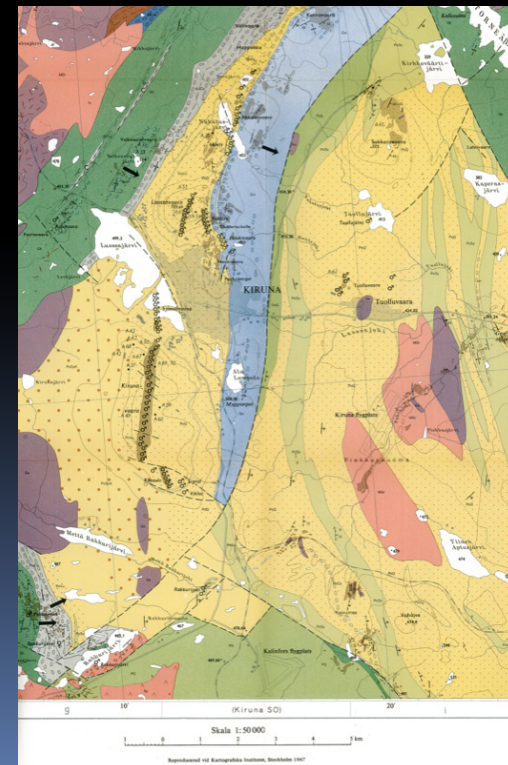
450,000 km²

What resources are spent on data collection & analysis?

- ≈ 160 years data collection
- Current budget for "mapping": USD25M /yr
(USD55/km²/yr; c.f. "USD1B map" @ USD37/km²)



>3,500km & 17,000 cores



Geodata browsing, retrieval & sales online

SGU
Sveriges geologiska undersökning

OM KARTVISAREN UPPHOVSRÄTT KONTAKT -Byt kartvisare-

Kopiera som länk Skapa pdf för utskrift Markörens koordinat: 572335, 7418151

Malm och mineral

Lagerlista

- Mineralresurser
- Malmer och mineraliseringar
- Metallogenetiska områden
- Mineralrättigheter
 - Beviljad - bearbetningskoncession
 - Ansökt - bearbetningskoncession
 - Beviljad - undersökningstillstånd, olje
 - Ansökt - undersökningstillstånd, olje
 - Förbudsår - undersökningstillstånd, olje
 - Förfallna - undersökningstillstånd, olje
 - Beviljad - undersökningstillstånd, m
 - Ansökt - undersökningstillstånd, m
 - Förbudsår - undersökningstillstånd, m
 - Förfallna - undersökningstillstånd, m
 - Markanvisning till koncession
 - Gällande torvkoncessioner
 - Bergarter

Bakgrundslager

- Bakgrund

Sök

Teckenförklaring Hjälp Om

Mineralresurser

- Mineralresurser
 - Malmer och mineraliseringar
 - Metallgrupp
 - Järn och legeringsmetaller (Fe, Mn, Ti, V, Cr)
- Prospekt
- Liten
- Medium
- Potentiellt stor
- Stor

© Sveriges geologiska undersökning.
Bakgrundskarta © Lantmäteriet



Example:

Combined geology,
geophysics,
geochemistry
mineral
occurrences –
identification of
prospective areas.

Costs for data?

- Free of charge for research / universities
- Policy is to encourage exploration!
- Refined / managed data, rather cheap; raw data more expensive. Prospecting companies seem to prefer raw data
- Costs cover only rather small part of management & collection costs
- Administrative needs:
 - Geologists, geophysicists, GIS specialists
 - IT, software
 - Client service staff, etc.

Developments & debates

- To make all documentation available electronically
- Cores are being scanned (photo & geochem)
- Why give away data "for free", and why (especially) to foreigners?
- Mineralisations that have not yet been found, have no value – why then charge for data?
- Almost no greenfield exploration, projects are generally based on previous work (state funded)
- Mapping focused on prospective areas
- Increasing shift of focus to data collection to support sustainable development