

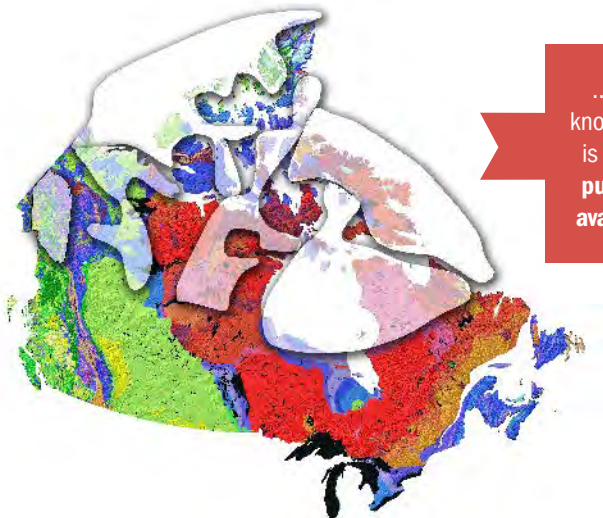


# Geo-mapping the North by 2020

## Modernizing the geological picture of the North

The Geo-mapping for Energy and Minerals (GEM) program generates new regional-scale geological maps and data sets for Canada's North

Focusing on  
**six areas**  
where  
geological  
research is  
needed...



...new  
knowledge  
is made  
**publicly**  
available

GEM knowledge is  
used by **northerners**  
and **industry**

for **land-use**  
and **resource**  
development  
decisions

shaping the  
**future economy** and  
**society** of the North

The GEM program generates new geoscience knowledge through five stages of research

### Engage

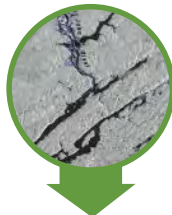
Discussions held with  
northerners, territories  
and provinces



Reached  
**65 communities**  
and counting

### Plan

Aerial and remotely sensed data is  
combined with previously collected  
data to target field work



Over  
**2 million km**  
flown for geophysics

### Collect

Field researchers  
gather information  
and samples



Up to  
**4,000 people days**  
in the field of each year

### Analyze

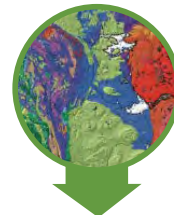
Samples are brought back  
to public and private labs  
for analysis and synthesis



Over  
**40,000 samples**  
collected

### Share

Scientific knowledge and insight are  
integrated into maps and reports,  
which are released online for free



Over  
**1,000 publications**  
released on the web

Knowledge from the GEM program guides decisions across the North

Indigenous peoples

Northern institutions

Prospectors

Entrepreneurs

Infrastructure planners

Geologists

Mineral exploration industry

Land-use planners

Oil and gas industry

Decision makers



[nrcan.gc.ca/GEM](http://nrcan.gc.ca/GEM)