Exploration in Thailand
Regional exploration is carried out by Department of Mineral Resources, fundamentally survey was up to 1:50,000 map scale.

While

Detail exploration is undertaken by private sector who apply for exploration license of various mineral deposit, 1:4,000 map scale is required.
Index of published geologic map scale 1:50,000 available at Department of Mineral Resources
Geologic map of Thailand
Airborne geophysical survey were conducted countrywide
+ Magnetic survey
+ Electromagnetic survey
+ Radiometric survey
Geophysical maps are available at Department of Mineral Resources
Thailand geological setting were composed of two major plates namely Shan-Thai plate (Sibumasu) and Indochina plate.

Geologic evolution between these two plates play a major role in various type of mineral deposits through times.
Metallic Minerals

**Potential Area for Minerals, Dimension Stones**

**Industrial Rocks, Coal, and Petroleum**

- Antimony
- Asbestos, Chromite, Magnesite, Nickel, Talc
- Barite, Fluorite
- Copper, Iron
- Feldspar, Quartz
- Tin, Tungsten, and Heavy Minerals: Limonite, Leucoxene, Monazite, Columbite-Tantalite, Rutile, Xenotime, and Zircon
- Lead, Zinc
- Manganese

Mineral areas declared under mineral acts
Non Metallic Minerals
Industrial Rocks and Dimension Stone

Potential area for minerals, dimension stones, industrial rocks, coal, and petroleum:

- **Granite**: Dimension Stone
- **Carbonate Rocks**: Limestone, Dolomite, and Marl
Mineral Fuel

POTENTIAL AREA FOR MINERALS, DIMENSION STONES, INDUSTRIAL ROCKS, COAL, and PETROLEUM

- Tertiary Basin with Lignite and Oil Shale Resources
- Fuel
- Gas
# Ongoing Exploration and Mining Projects

Iron ore applications in the preserved area for large-scale gold projects

<table>
<thead>
<tr>
<th>Province</th>
<th>Mining Lease applications</th>
<th>Special Prospecting License (SPL) applications</th>
<th>Exclusive Prospecting License (EPL) applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loei</td>
<td>10</td>
<td>13</td>
<td>8</td>
</tr>
<tr>
<td>Sakaew</td>
<td>-</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Prachinburi</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Nongkhai</td>
<td>-</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>10</strong></td>
<td><strong>19</strong></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>

Source: DPIM (2010)
## Details and status of ongoing large-scale project applications

<table>
<thead>
<tr>
<th>Project</th>
<th>Number</th>
<th>Province</th>
<th>Current activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold exploration</td>
<td>61 SPL’s (4 companies)</td>
<td>Pichit, Petchaboon, Pitsanulok, Chantaburi, Satoon</td>
<td>Ongoing exploration</td>
</tr>
<tr>
<td>Gold exploration</td>
<td>64 SPL’s (6 companies)</td>
<td>Petchaboon, Chantaburi, Rayong, Pitsanulok, Surattani, Pichit, Satoon</td>
<td>Waiting for policy</td>
</tr>
<tr>
<td>Copper mine</td>
<td>1 project</td>
<td>Loei</td>
<td>Applying mining lease</td>
</tr>
<tr>
<td>Lead mine</td>
<td>1 project</td>
<td>Kanchanaburi</td>
<td>Applying mining lease</td>
</tr>
<tr>
<td>Lead exploration</td>
<td>1 project (4 SPL's)</td>
<td>Kanchanaburi</td>
<td>Applying SPL</td>
</tr>
<tr>
<td>Wolfram exploration</td>
<td>1 project</td>
<td>Nakonsritammarat</td>
<td>In the watershed area class 1 and preserved forest</td>
</tr>
<tr>
<td>Molybdenite, lead, zinc, and copper exploration</td>
<td>1 project (10 SPL's)</td>
<td>Chantaburi</td>
<td>Ongoing exploration</td>
</tr>
<tr>
<td>Offshore tin mine</td>
<td>2 project (1 company)</td>
<td>Pang-nga</td>
<td>Applying mining lease</td>
</tr>
<tr>
<td>Cement production</td>
<td>1 project</td>
<td>Nakonsritammarat, Surattani</td>
<td>In preserved forest</td>
</tr>
</tbody>
</table>

Source: DPIM (2010)
Thailand mineral resources is waiting for competent, practical and patience prospecting company to uncover several concealed large deposits of precious and base metal.

Well organized and well understanding venture would eventually be succeed in discovering Thailand’s mineral resources.
Missions

1. To be the representative of the private sector in coordinating and cooperating with every level of the public sector to eliminate problems and to promote the mining industry and its related businesses.

2. To promote and support the research and development in mining and mineral beneficiation as well as in environment protection.

3. To investigate, solve, and minimize operational problems and obstacles of members; and

4. To assist and protect the justifiable interests of members by taking into account the environment and the effects on communities.
To be the main organization of the private sector in coordinating with the government on the policy to efficiently and effectively exploit natural minerals with the aim to maximize the benefit accrued to the nation, and in pushing for smooth mining operations acceptable to society by way of sustainably maintaining the balance between the economy, society and environment.
Thank you for your kind attention

Source of information: Department of Mineral Resources Thailand
Compiled by Geomin Co., Ltd. and MIC