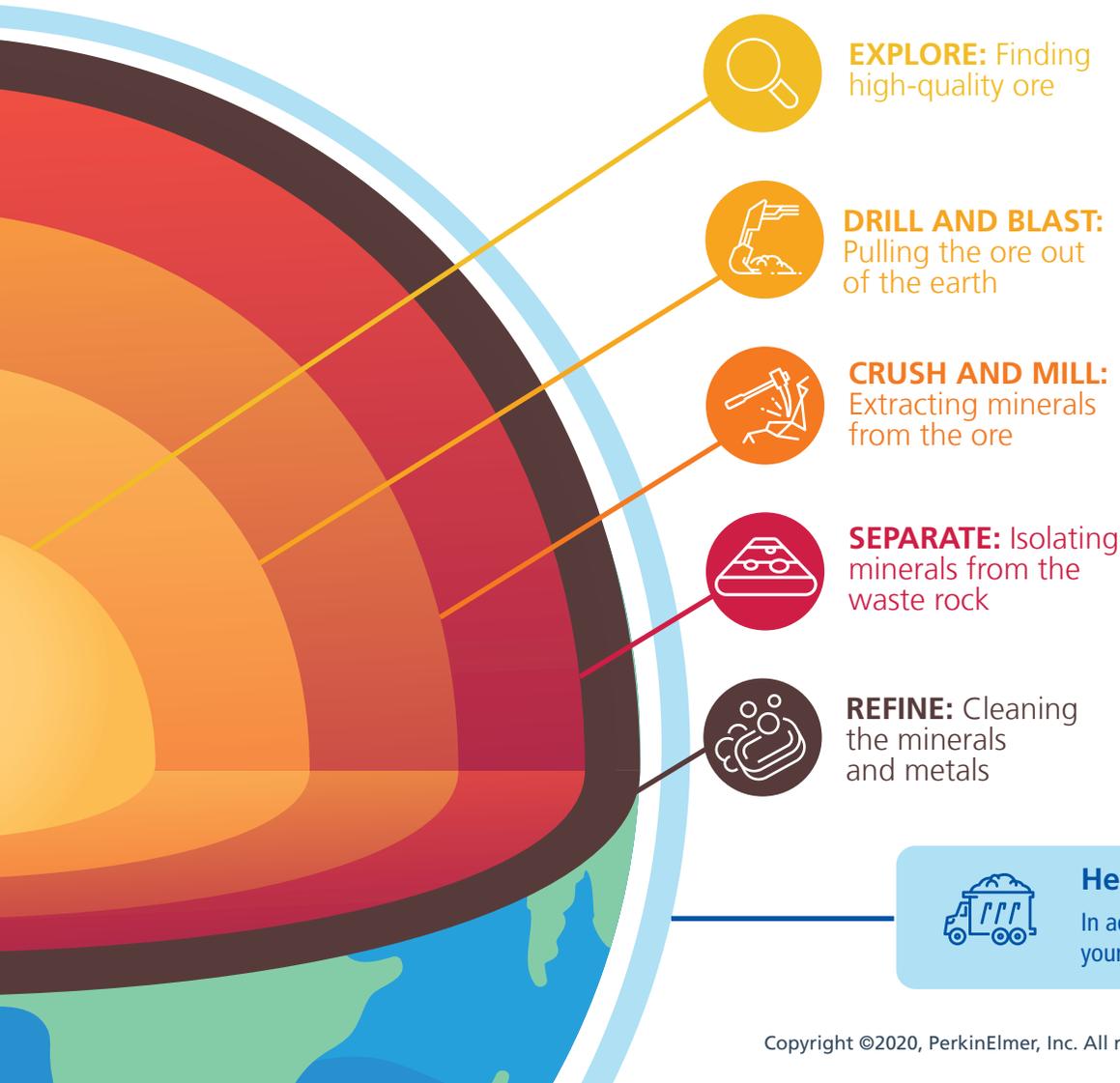


6 STEPS IN THE MINING PROCESS



-  **EXPLORE:** Finding high-quality ore
-  **DRILL AND BLAST:** Pulling the ore out of the earth
-  **CRUSH AND MILL:** Extracting minerals from the ore
-  **SEPARATE:** Isolating minerals from the waste rock
-  **REFINE:** Cleaning the minerals and metals

Solutions from Crust to Core

Sample prep for all steps include acid digestion using Sample Preparation Blocks (SPB), Microwave Digestions (Titan MPS) or Fusion.

| Analysis | Technique |  |  |  |  |  |
|--------------------------|----------------------------------|---|---|---|---|---|
| | | Explore | Drill and Blast | Crush and Mill | Separate | Refine |
| Metal Analysis | AAS, ICP-OES, ICP-MS | ● | ● | ● | ● | ● |
| Ionic Leach | ICP-OES, ICP-MS | ● | ● | ● | | |
| Selected Elements | FIMS, FIAS, AAS, ICP-OES, ICP-MS | ● | ● | ● | | |
| Halogens | LC-ICP-MS | ● | ● | | | |
| Loss on Ignition | TGA | ● | ● | | | |
| Clay Characterization | UV-Vis, ICP-MS | ● | ● | | | |
| Mineral Characterization | NIR | ● | ● | | | |



Heavy Equipment and Operation

In addition to your mining needs, our lubricant-testing and wear-metal analysis solutions ensure your mining operation is constantly running smoothly – from drilling to final distribution.