

voters support streamlining the U.S. mine permitting process to ensure the Department of Defense (DoD) has timely access to the mineral resources necessary for our national security. How important are minerals

According to a recent poll, six in 10

The DoD uses up to 750,000 tons of minerals annually in the manufacture of

to our national defense?



mineral commodities

military gear, weapon systems and other defense applications. The Pentagon includes 37 mineral commodities in its Defense National

Without minerals, we wouldn't have these critical military technologies: **HELPING SOLDIERS**

Stockpile.

Night-Vision Goggles and Surveillance **RARE EARTH MINERALS** like 21% of **BERYLLIUM** is used in defense

lanthanum are used to make applications, like the technologies used night-vision goggles.

SEE IN THE DARK:



RARE EARTH MINERALS



EEPING O

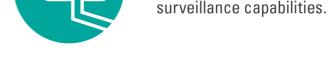
They are added to

camera lenses to

improve image clarity.

BERYLLIUM

to help detect potential threats.





It helps produce real-time imagery and targeting for surveillance and makes reconnaissance flights performed by unmanned

aerial systems possible.

BERYLLIUM'S thermal

conductivity improves



NICKEL'S toughness makes it ideal for body armor because it can withstand harsh impacts.

TROOPS SAFE:

Body Armor

GIVING AIRME AIRWOMEN Aircraft and Fighter Jets



BERYLLIUM'S

fighter jets faster.

lightweight properties make

SILVER is a key resource for military aircraft like

RARE EARTH

of jet engines.

MINERALS are used

in the manufacturing

the Air Force's C17 and the Army's Apache Helicopter because it is malleable and ductile while also being

one of the strongest of the known elements.



& SERVICEWO

RARE EARTH

MINERALS make

sonar possible for

submarines and

naval ships.



Naval vessels and Coast Guard ships rely on **COPPER** to protect them from corrosion.

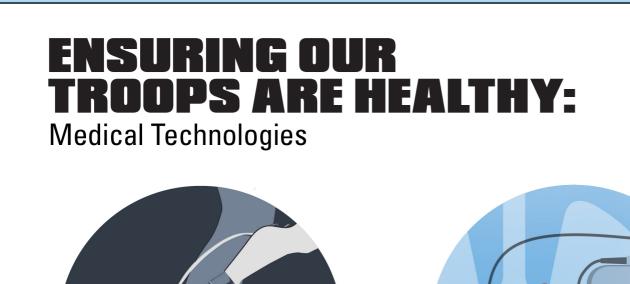
COPPER WIRING – because

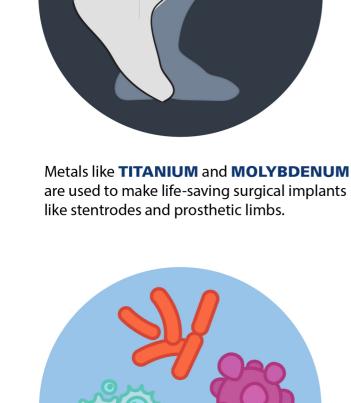
operations of ships' generators,

electric motors, lighting and

communications systems.

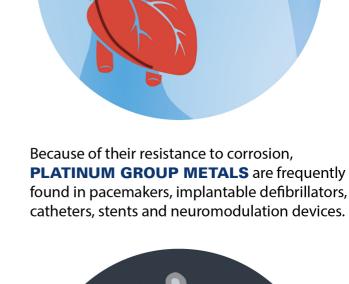
of its conductivity – improves the





SILVER prevents bacterial growth, accelerates the healing process and can

heighten the effectiveness of certain drugs.



BERYLLIUM'S heat resistant and low-density properties reduce radiation levels in medical technologies, such as X-rays, while also improving their functionality and efficiency.

Despite being home to a wealth of mineral resources, the U.S. imports more than one-half of its nonfuel minerals and is 100% import reliant on 20 key minerals due to an outdated and lengthy mine permitting process. Protracted delays that last seven to 10 years make it harder for the DoD to get the U.S. mineral resources it needs to protect our nation and our troops.

It's time we take action to modernize our mine permitting process and put our defense back into our own hands!

al-powering-american-innovation/

- **SOURCES** www.rstreet.org/op-ed/nevada-and-other-western-states-should-make-the-most-out-of-their-vast-mineral-resources/
- www.thoughtco.com/lanthanum-facts-la-element-606550 www.rsc.org/periodic-table/element/57/lanthanum
- www.mineralsmakelife.org/resources/beryllium-americas-miracle-metal-behind-advanced-technology/
- www.mineralsmakelife.org/assets/images/content/resources/NMA_-Silver_Infographic_Final.pdf www.mineralsmakelife.org/resources/silver-the-versatile-met-

mand-metals/ www.mineralsmakelife.org/blog/the-top-eight-minerals-that-support-national-defense/

m-improved-land-access/

www.mineralsmakelife.org/assets/images/content/resources/PG-M_Infographic_FINAL.pdf

www.mineralsmakelife.org/resources/rare-earths-the-high-de-

www.mineralsmakelife.org/resources/minerals-make-national-sewww.nma.org/2017/02/02/u-s-minerals-import-reliance-reaches-record-level-in-2017-underscoring-the-need-for-permitting-refor