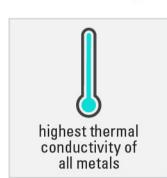
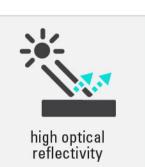
# IKILO THE VERSATILE METAL POWERING AMERICAN INNOVATION

Silver's ELECTRICAL, THERMAL, MALLEABLE and REFLECTIVE properties are among the strongest of the known elements, making it the material of choice for many manufacturers.









### **NATIONAL SECURITY**

Silver's exceptional strength helps protect our troops: it is an essential component of the Air Force C17 transport and the **ARMY'S APACHE HELICOPTER**. ▶







### R ENERG

Silver is essential to efficiently turn sunlight into energy

million oz silver used annually for solar

million oz silver projected to be used for solar in 2016

THE AVERAGE **SOLAR PANEL** USES ABOUT OF SILVER

### HIGH-TECHNOLOGY



Silver is found in the technology that powers your automobiles, microwaves, cameras and plasma TVs and other electronics.

Silver is critical to the development of next generation technologies:

### FLEXIBLE ELECTRONICS

- Sensors to monitor stress in bridges, dams, skyscrapers and other large structures
- Flexible solar cells Flexible displays for devices such as cell
- phones and tablets

# **MEDICAL TECHNOLOGY**

### X-RAYS

Silver X-rays are integral to healthcare in developing countries where resources are scarce because they are: Extremely accurate

Cost effective

Silver interrupts bacteria's

ability to form the chemical bonds essential to its physical

ANTIBIOTICS

- Prevents bacterial growth Accelerates the healing process
- Silver prevents bacterial growth,

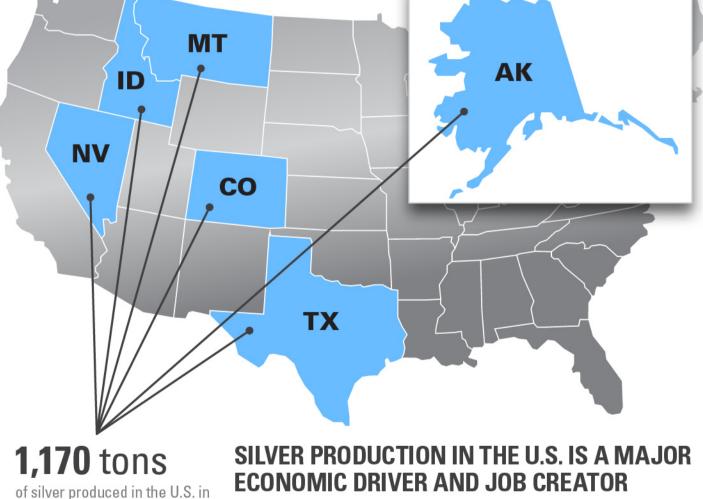
accelerates the healing process, and can heighten the effectiveness of certain drugs. For instance, a small amount of silver makes bacteria like E. coli significantly more sensitive to antibiotics like penicillin. Silver nanoparticles

structure and survival, and causes the bacteria to literally fall apart **ECONOMY** 





sterilize up to



### 2014, valuing approximately

\$ \$718m

### Silver will continue to be in high demand, meaning big economic opportunities for silver-rich states

25,594 tons of estimated silver produced globally in 2013

## **SOURCES**

http://minerals.usgs.gov/minerals/pubs/commodity/silver/

https://www.silverinstitute.org/site/silver-in-technology/silver-in-medicine/x-rays-in-developing-countries/

http://www.usatoday.com/story/money/markets/2014/08/29/no-silver-no-solar/14756397/

http://mineralsmakelife.org/blog/details/silvers-innovative-applications1 http://mineralsmakelife.org/blog/details/new-study-reveals-benefits-of-silver-in-antibiotics

https://www.silverinstitute.org/site/silver-in-technology/silver-in-green/ https://www.silverinstitute.org/site/silver-in-technology/silver-in-medicine/bandages/

https://www.silverinstitute.org/site/silver-in-technology/silver-in-nanotechnology/

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