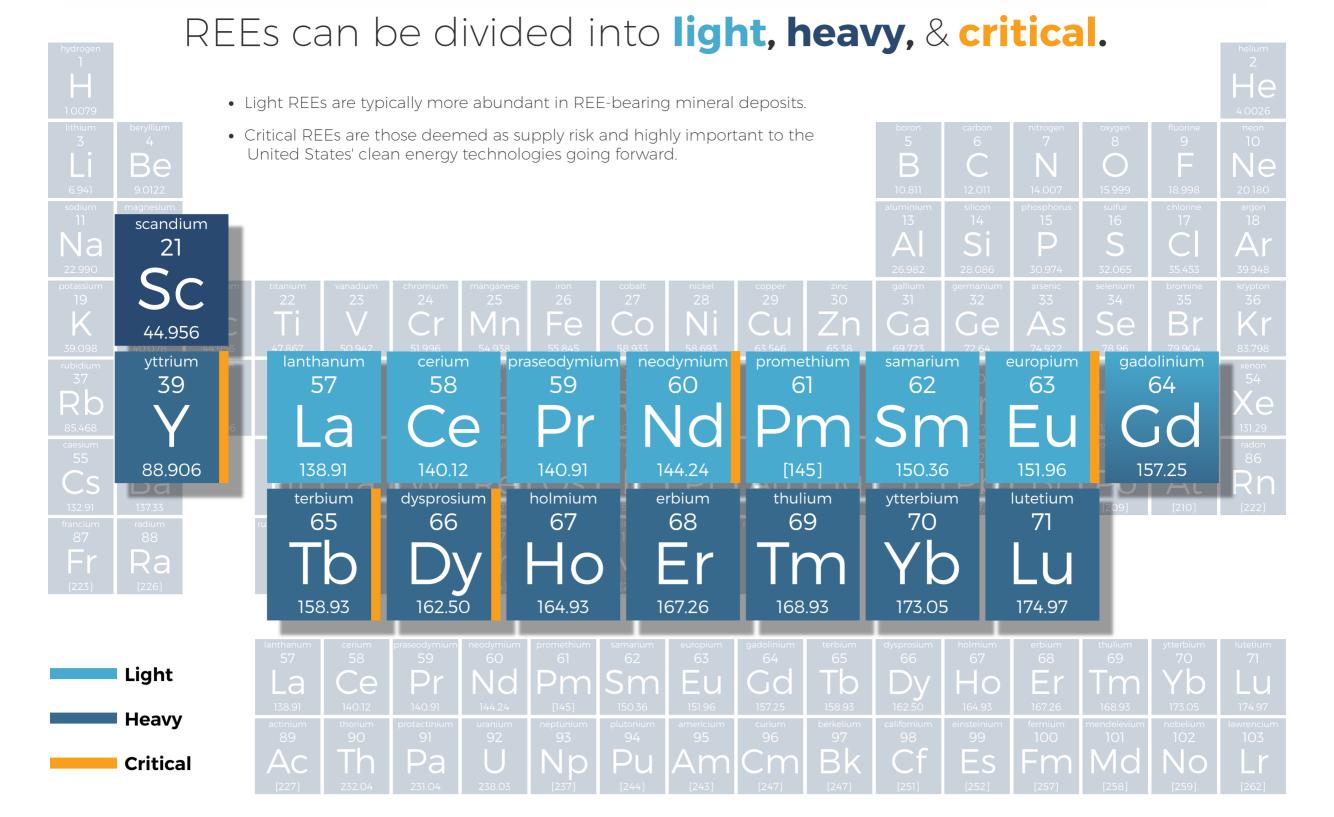
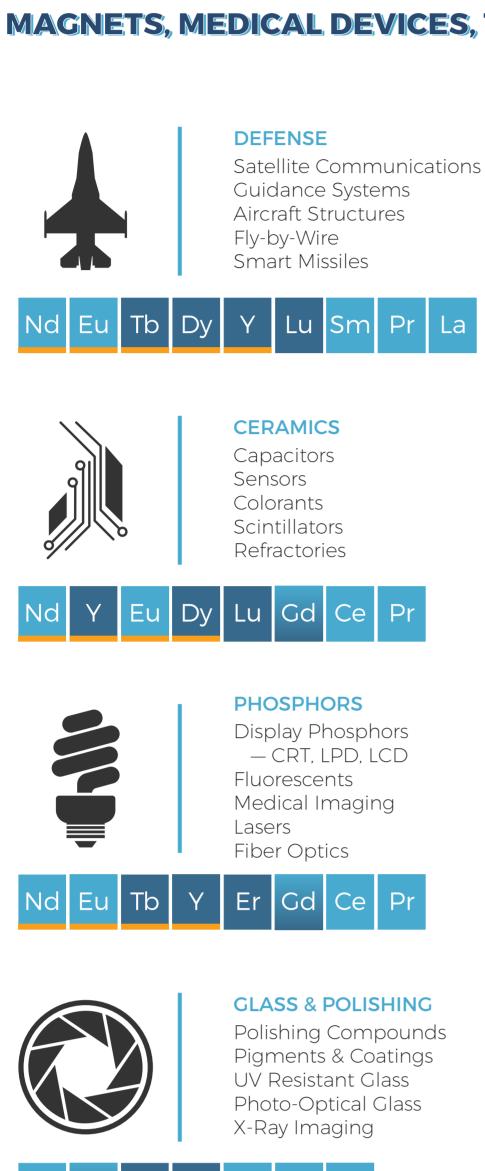
Rare Earth Elements
Program



While comprising just 17 elements of the periodic table, the group known as rare earth elements (REEs) provides significant value to our national security, energy independence, environmental future, and economic growth.

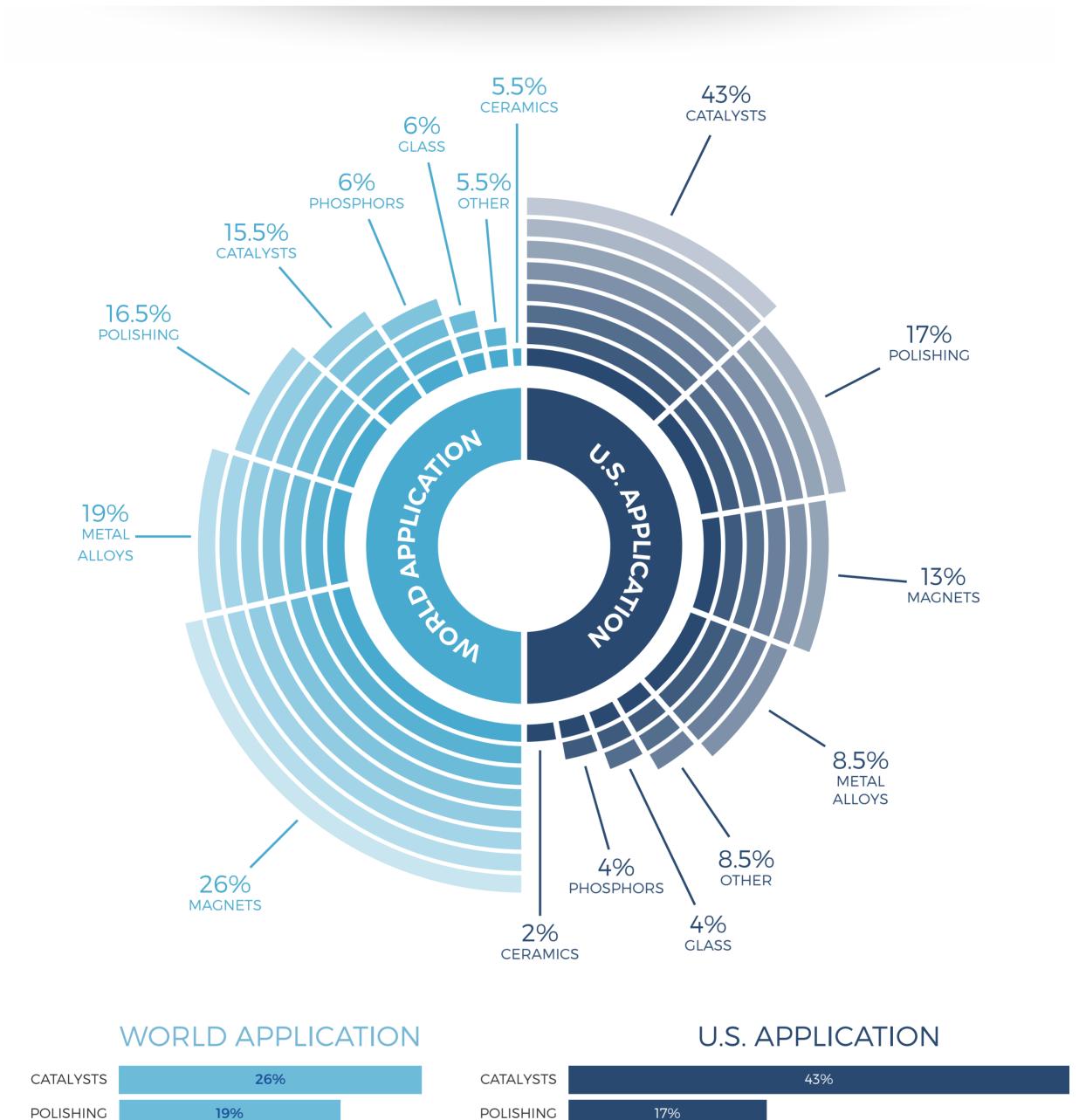


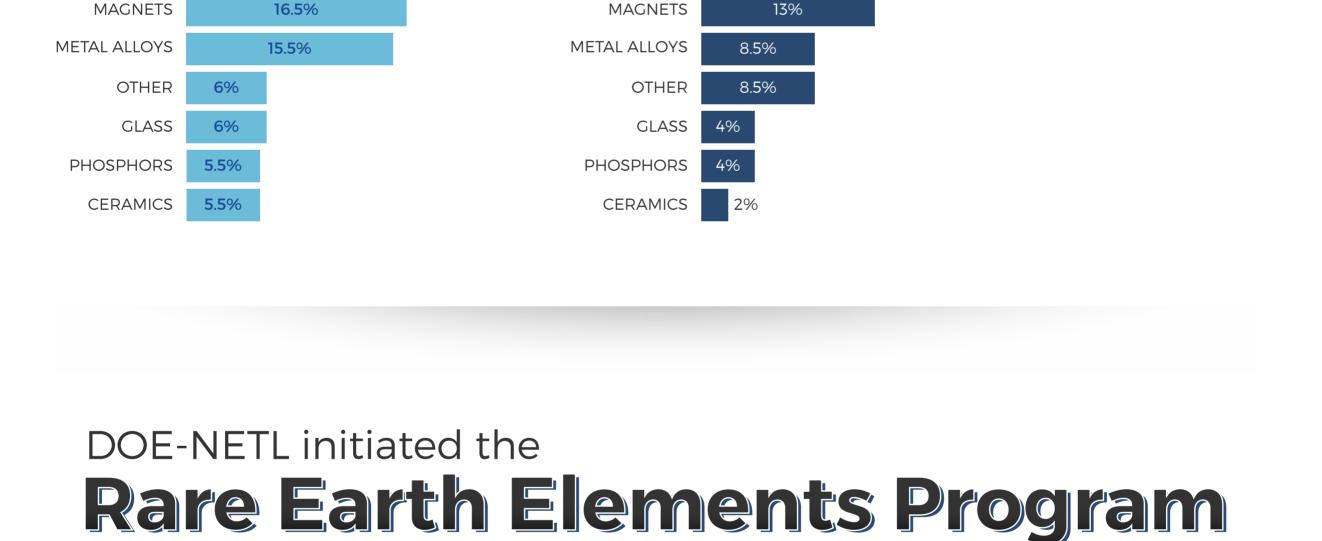
REEs are used in high technology products, such as **CATALYSTS, CELL PHONES, HARD DRIVES, HYBRID ENGINES, LASERS, MAGNETS, MEDICAL DEVICES, TELEVISIONS, AND OTHER APPLICATIONS.**



Nd Gd Er Ho La







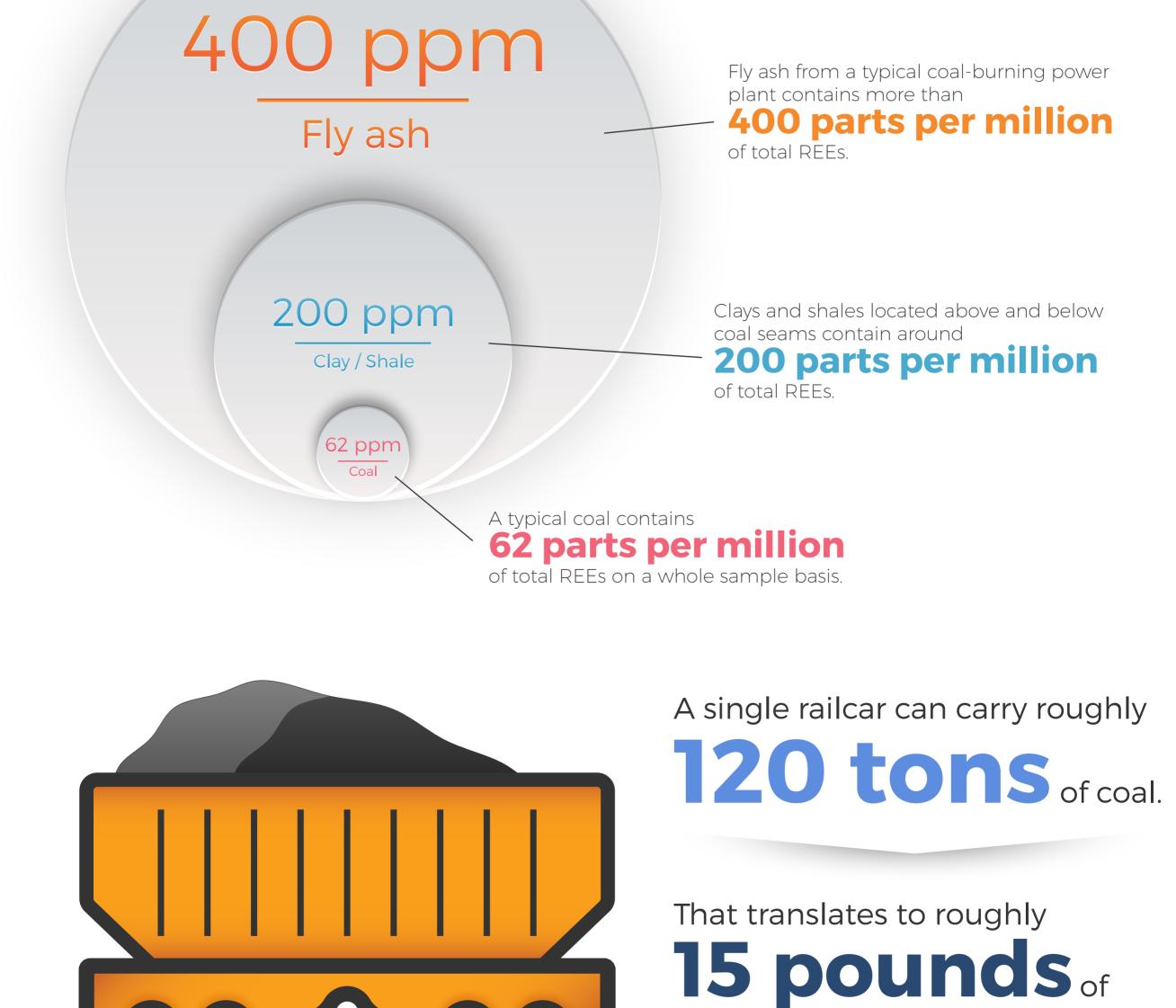
FLY ASH, COAL REFUSE & ACID MINE DRAINAGE.

REEs are actually not that rare. However, it is unusual to find

them in large concentrations.

in 2014 to address the feasibility of separating and extracting REEs

and other minerals from coal and coal by-products including



With more than **275 billion tons of coal** reserves in the United States,

REEs per car.



