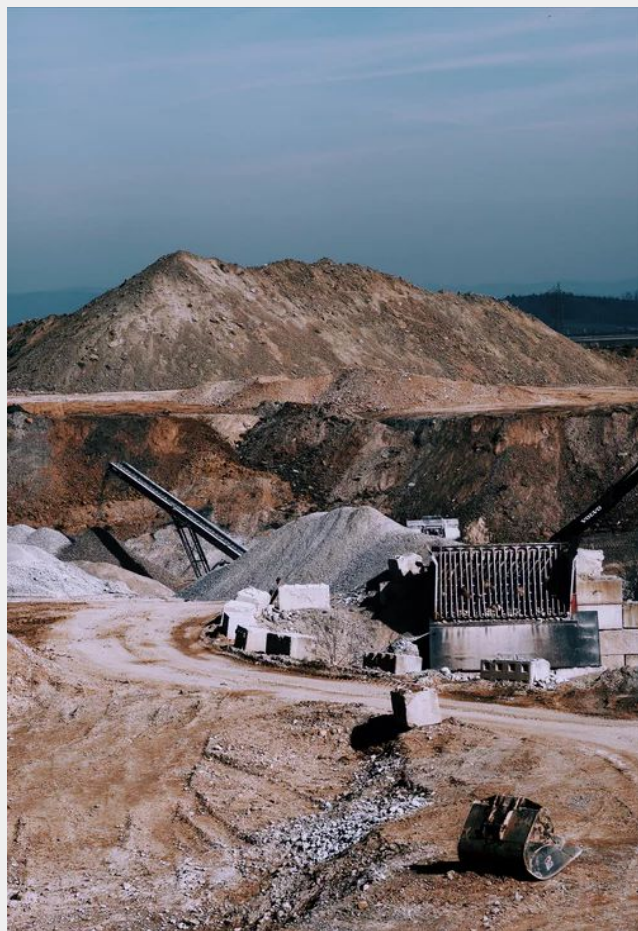


Linda Ritter 13.09.2019

Will my next phone be from space?





rare earth
rare earth elements REE





Motivation | Data

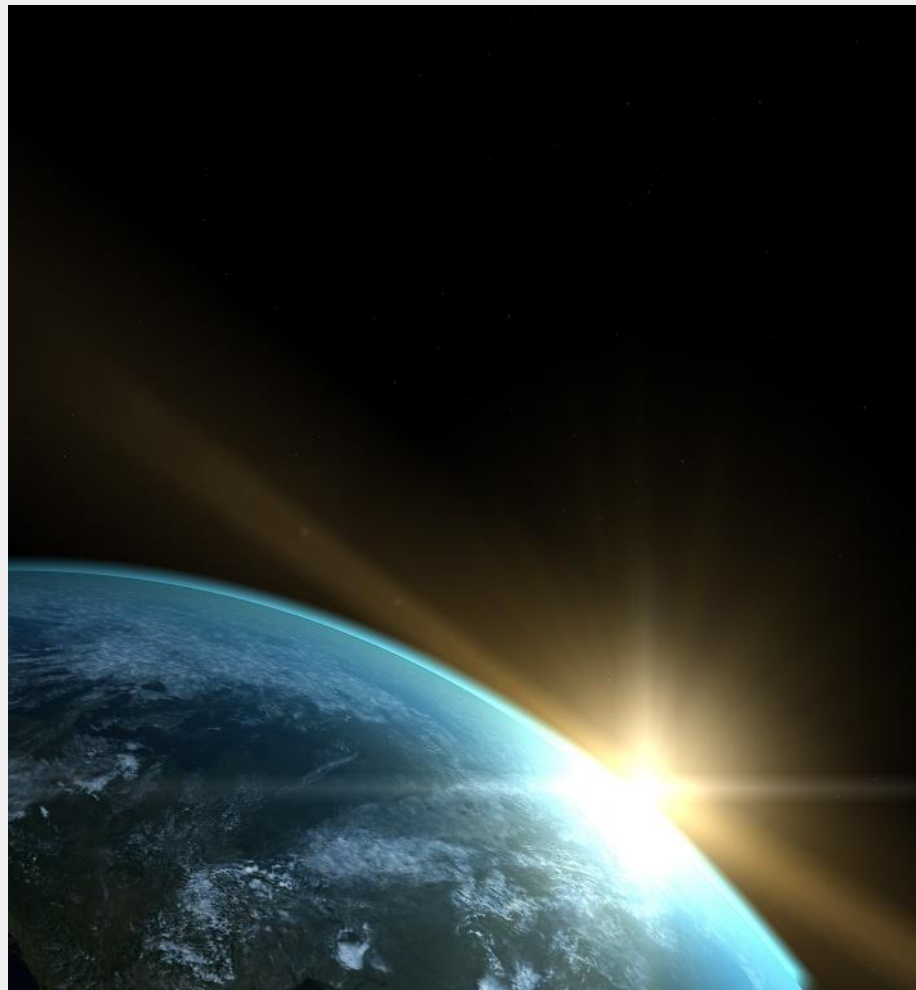


Question

1. Occurrence of rare earth in the world and associated conflicts
2. Governmental effort for space mining?



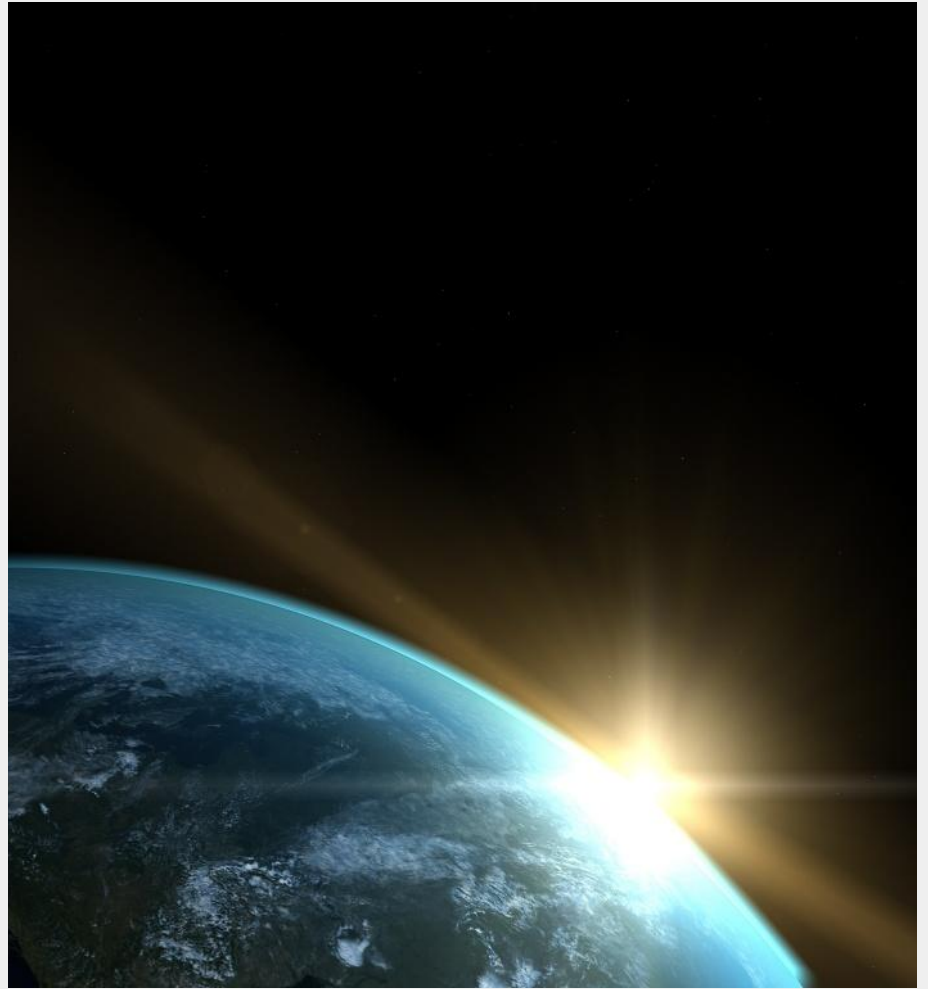
Conclusion





Data

- ❏ U.S. Geological Survey Database | CSV
- ❏ Budget of each government space programs | Web Scraping | HTML



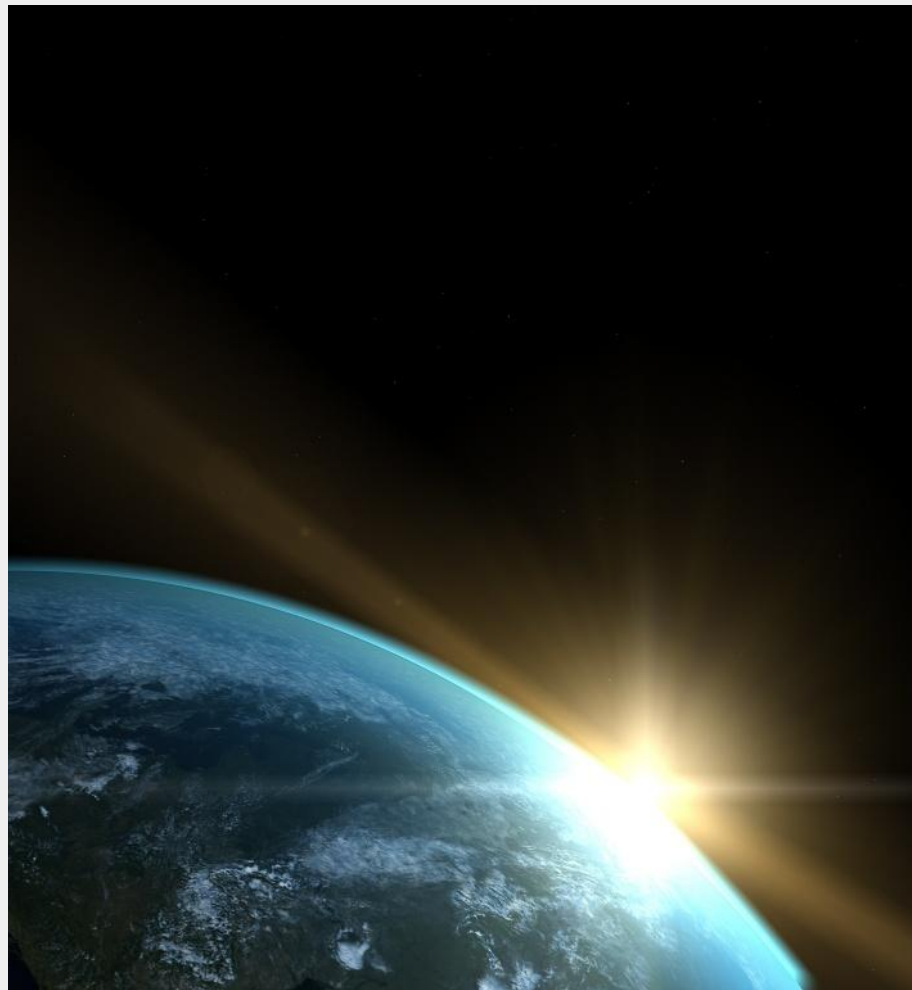
☐ Motivation | Data

☐ Question

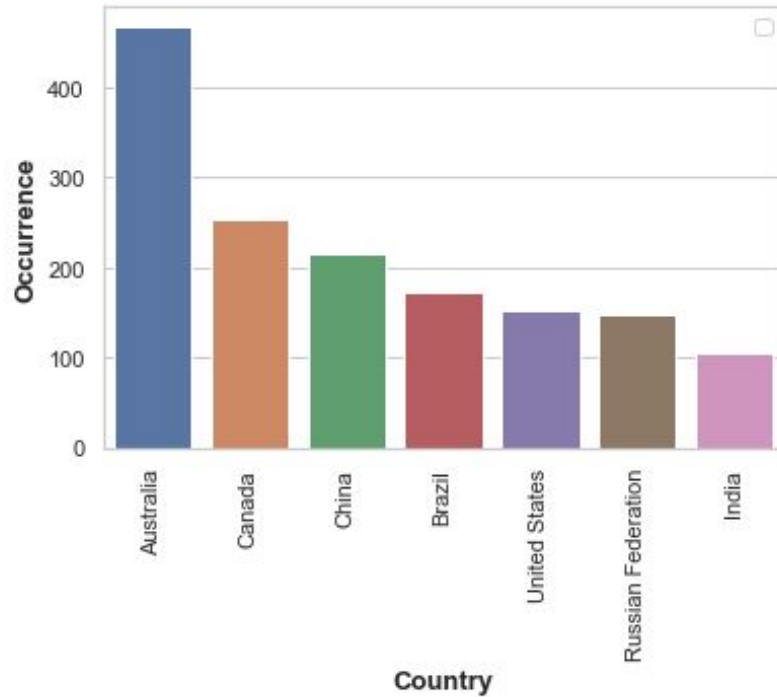
1. Occurrence of rare earth in the world and associated conflicts

2. Governmental effort for space mining?

☐ Conclusion



Occurrence per Country

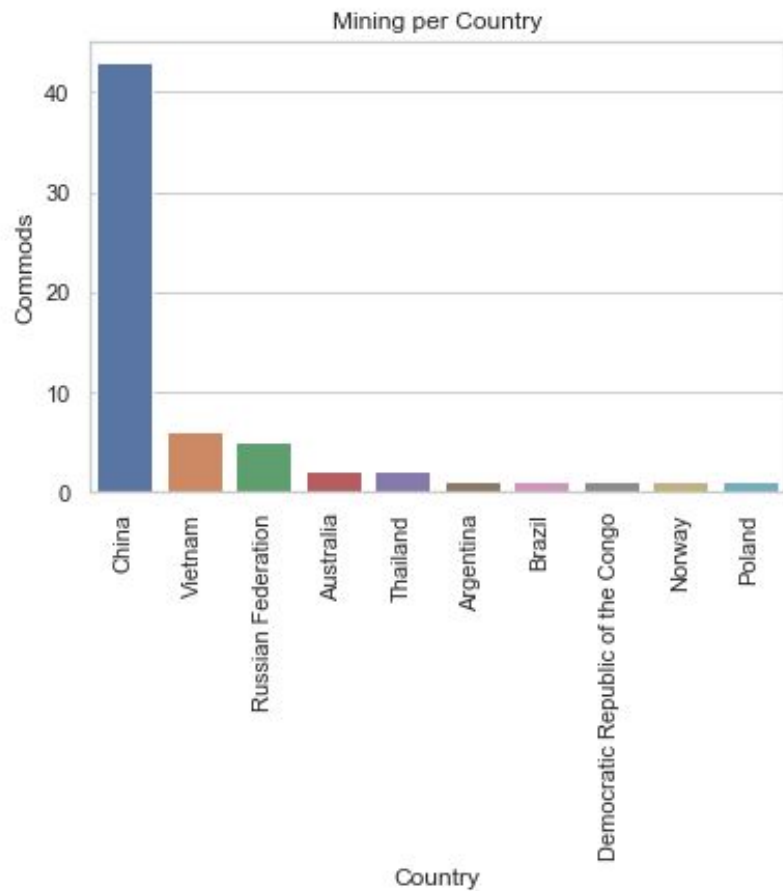


rare earth elements REE not so rare as expected

biggest occurrence in Australia

costly and complex extraction

only producer is China



biggest producer is China



Space Mining



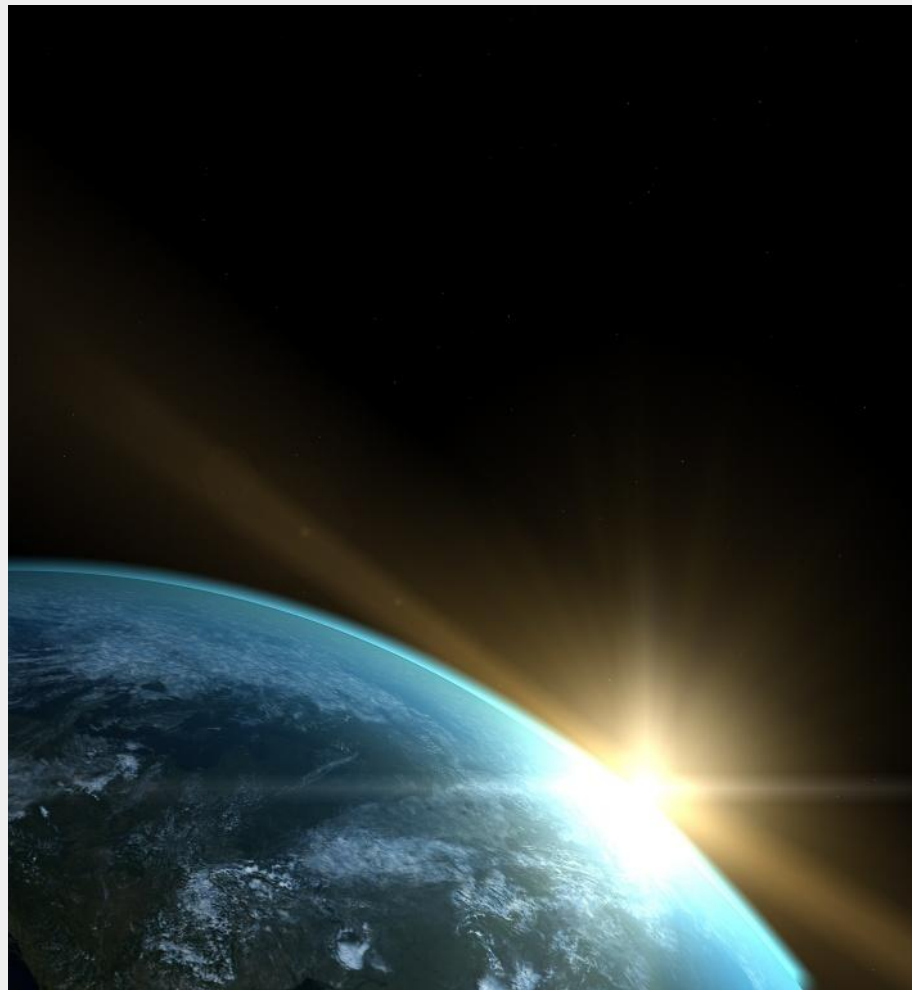
☐ Motivation | Data

☐ Question

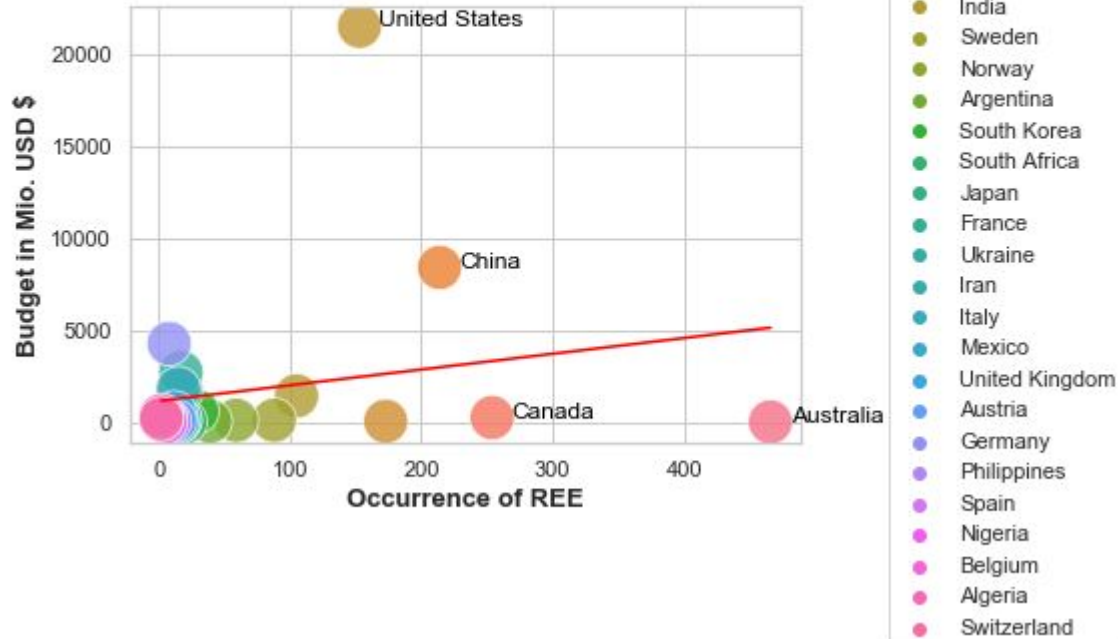
1. Occurrence of rare earth in the world and associated conflicts

2. Governmental effort for space mining?

☐ Conclusion



Occurrence vs. Budget per Country

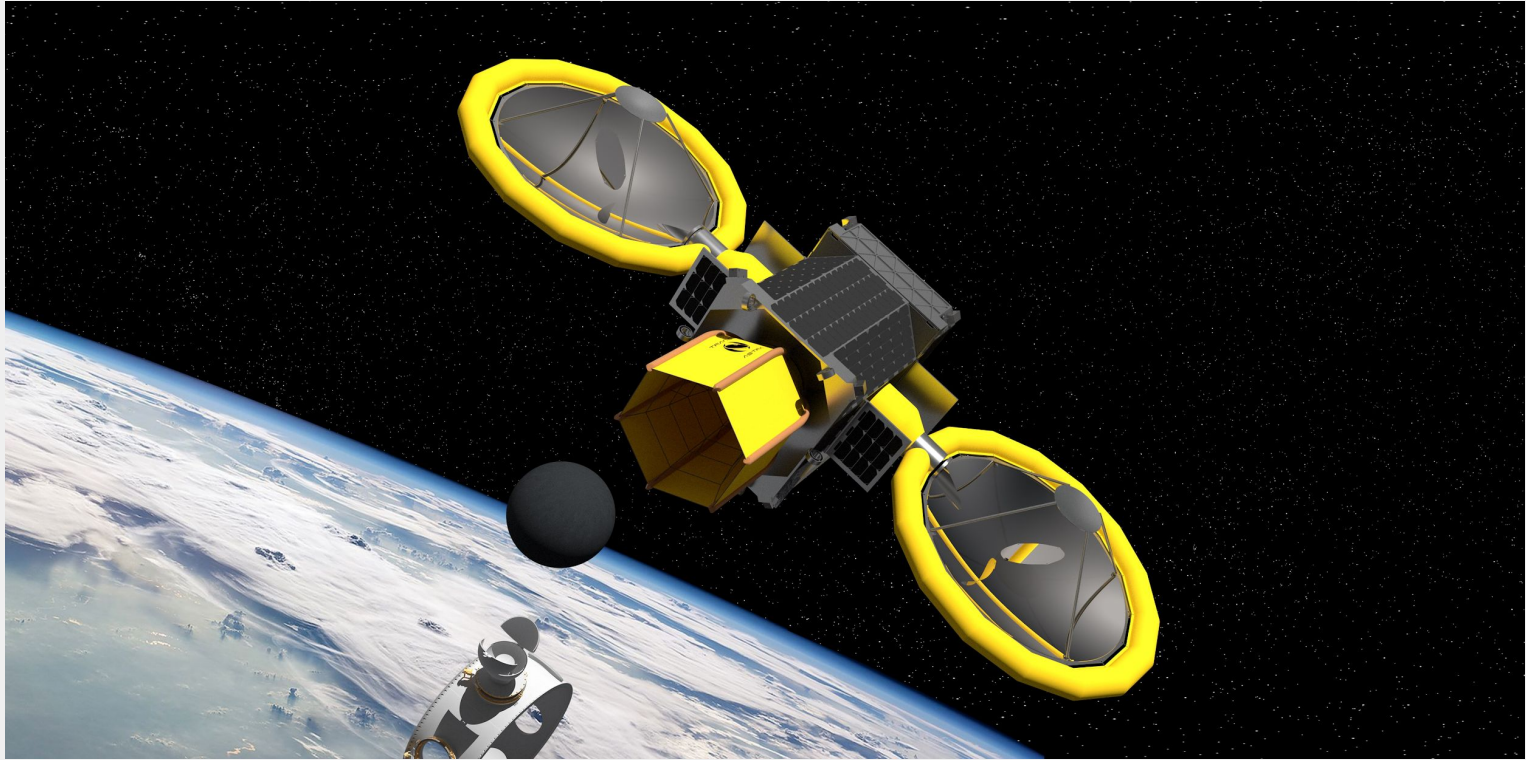


Correlation between REE and
Government Budget

United States | NASA: 21,500 Mio \$
Budget in 2019

→ Mission Mini Bee

Mini Bee



Thank you!

Questions?