

WHO WE ARE



Multidisciplinary Team - Final year students at the Universidad Técnica Federico Santa María



Bastián Rivas

Civil Electronic Engineering



Ma. Isabel Espinosa

Civil Metallurgical Engineering



Benjamín Sánchez

Civil Industrial Engineering



Denyzz Cárcamo

Civil Computer Engineering



Sánchez

Civil Industrial Engineering







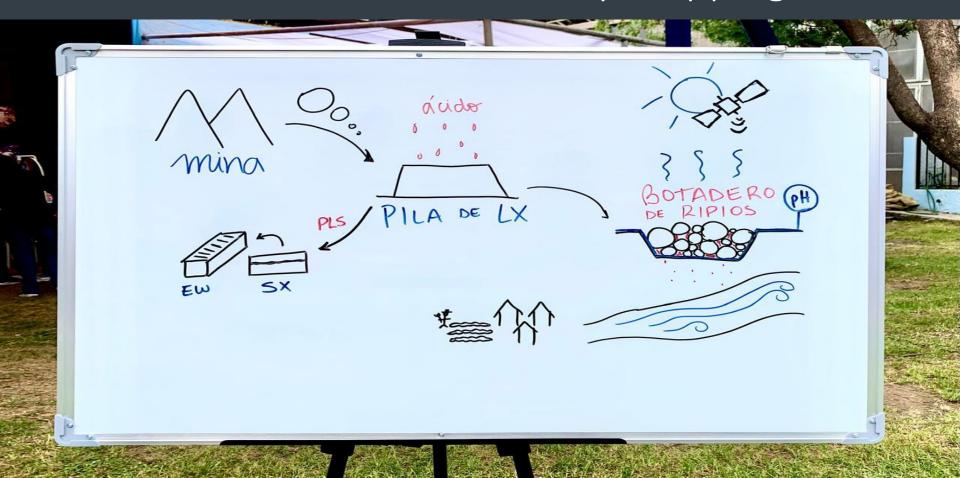
Our Challenge







URGENT PROBLEM – Community Mapping



URGENT PROBLEM – Community Mapping



GreenCopper – OUR SOLUTION

GEOSPATIAL MAPS

Made with QGIS and NASA data.

- Acid mine drainage monitoring system using temperature and pH sensors.
- Integration of NASA satellite data to map and analyze critical areas.





Geospatial Temperature Mapping developed in QGIS with NASA data.







Cost Analysis &

Corporate Social Responsibility

Capital Costs (CAPEX): \$20,750 USD

Sensors: \$5,750 USD (50 sensors a \$115)

Base Station: \$5,000 USD

Installation: \$10,000 USD

Annual Operating Costs (OPEX): \$56,000 USD

- Maintenance: \$5,000 USD

- Dashboard: \$1,000 USD

- Personal: \$15,000 USD

- **Training: \$5,000 USD**

- Energy: \$5,000 USD

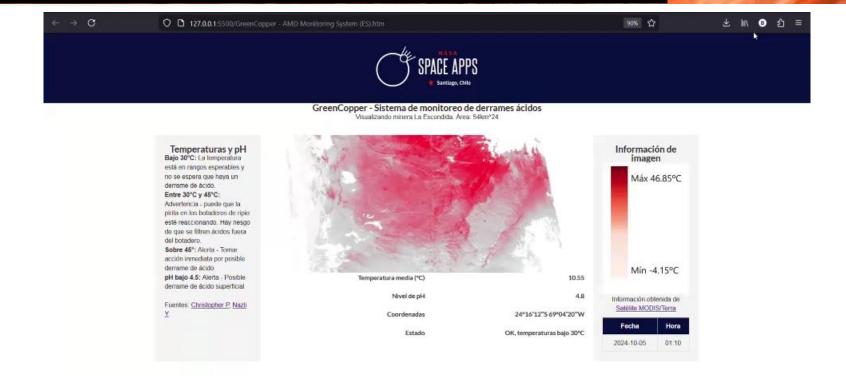
- Data Processing: \$10,000 USD







WEBSITE – GREENCOPPER DYNAMICS









THANK YOU FOR YOUR ATTENTION







