

# ASTEROID ATLAS

Team Members:

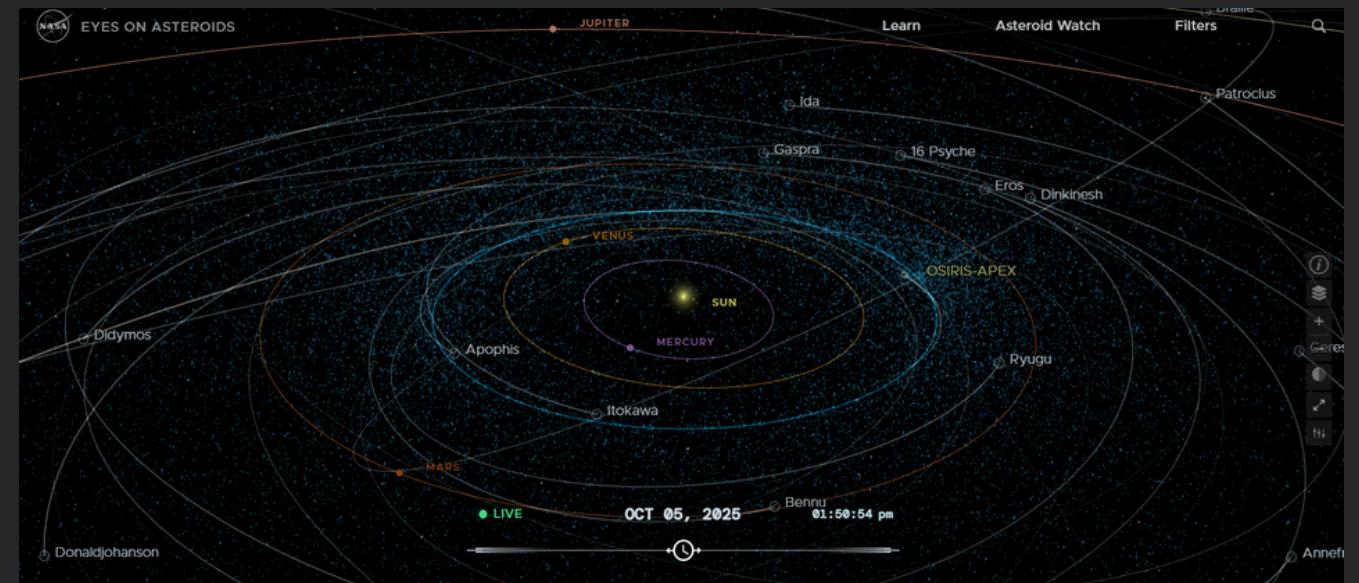
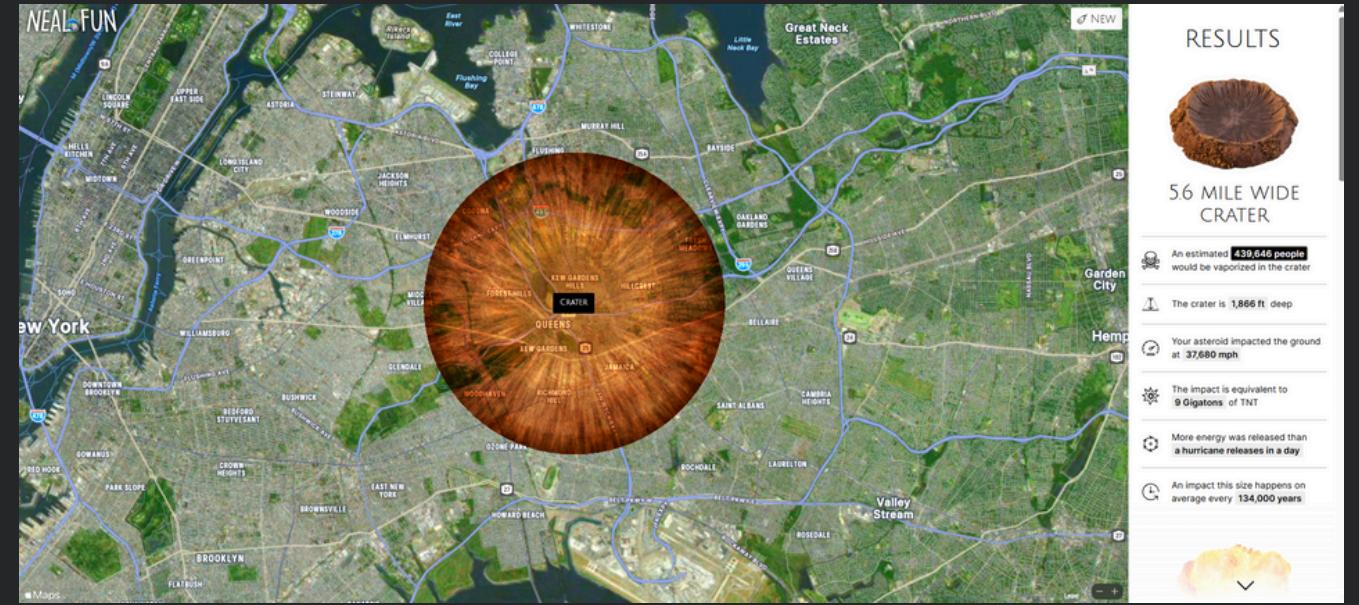
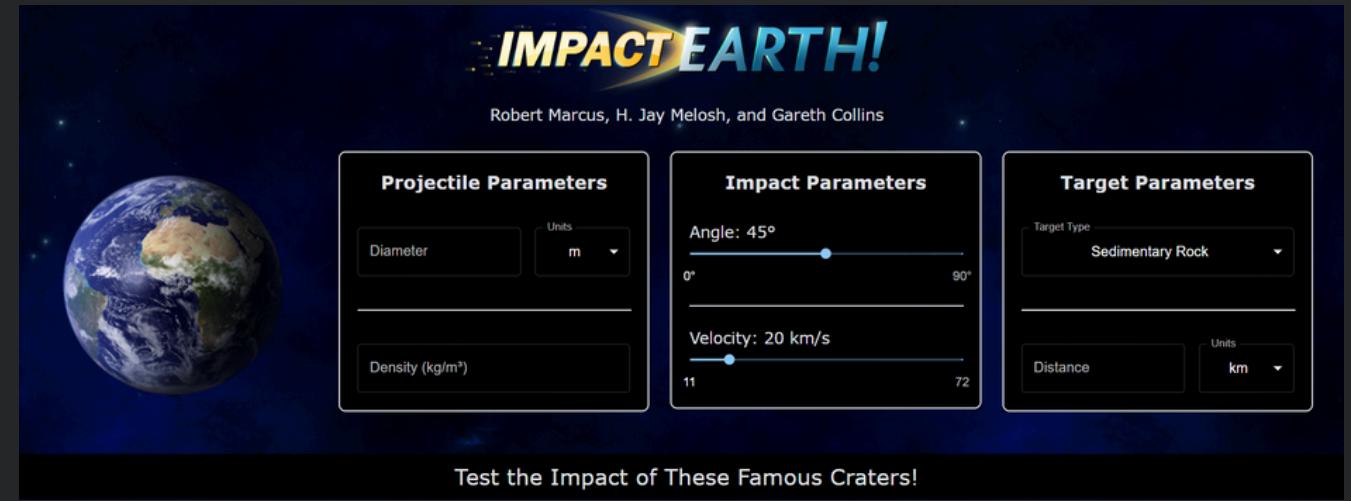
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# THE PROBLEM

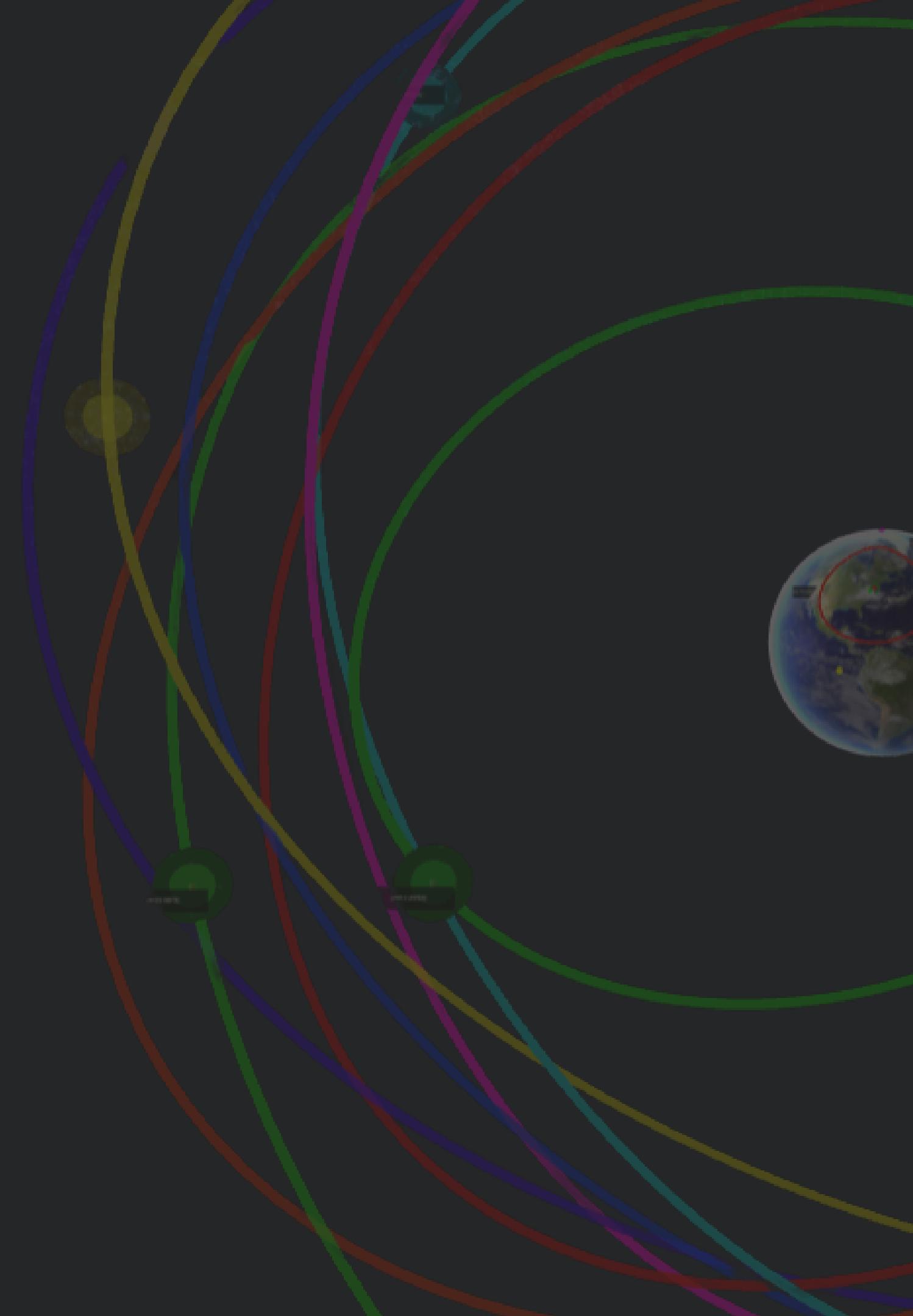
- Existing asteroid simulations visualize asteroid orbits or impacts, but **not both**
- Visualizations are map or text based and closed source

Existing Solutions:



# OUR SOLUTION

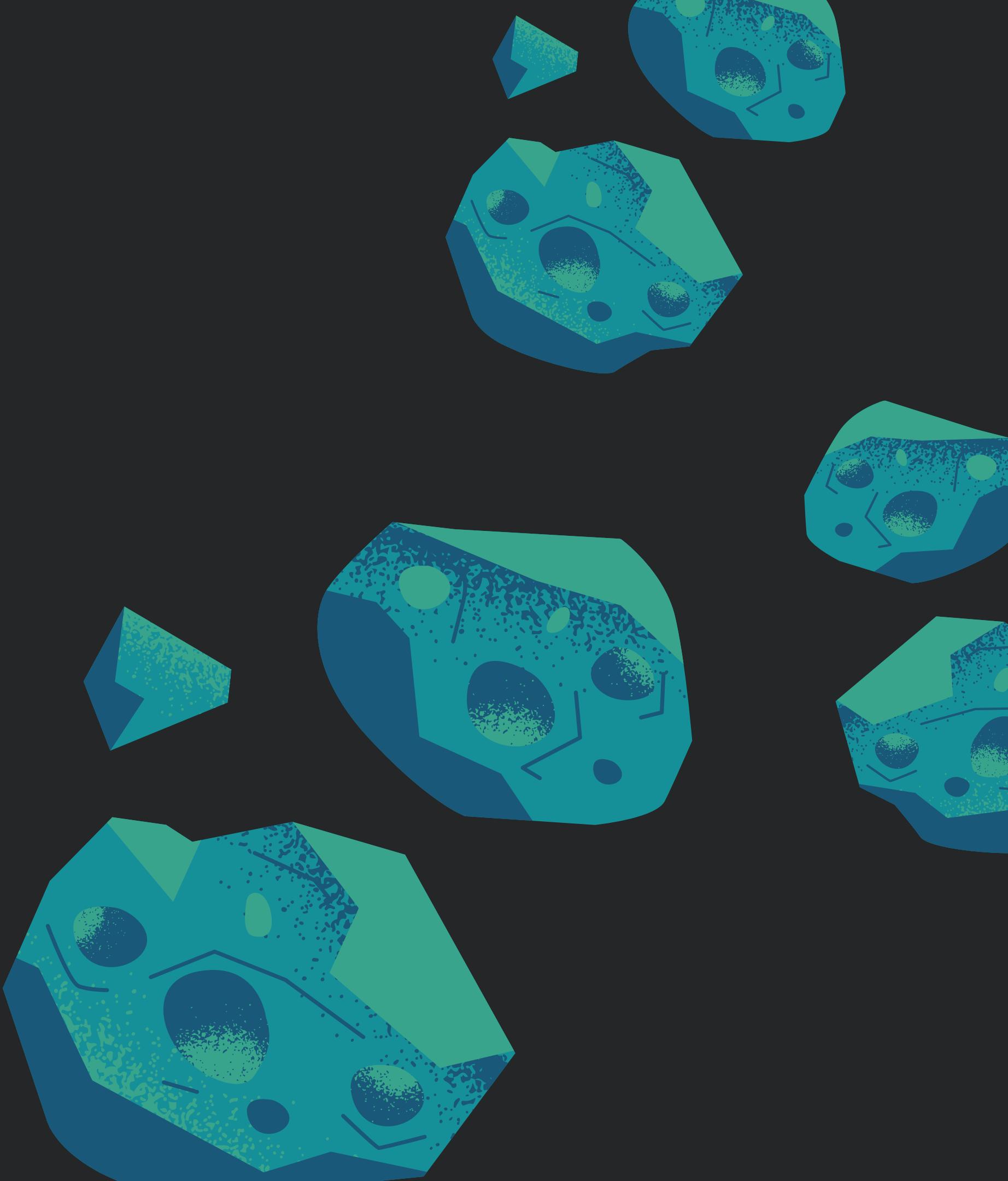
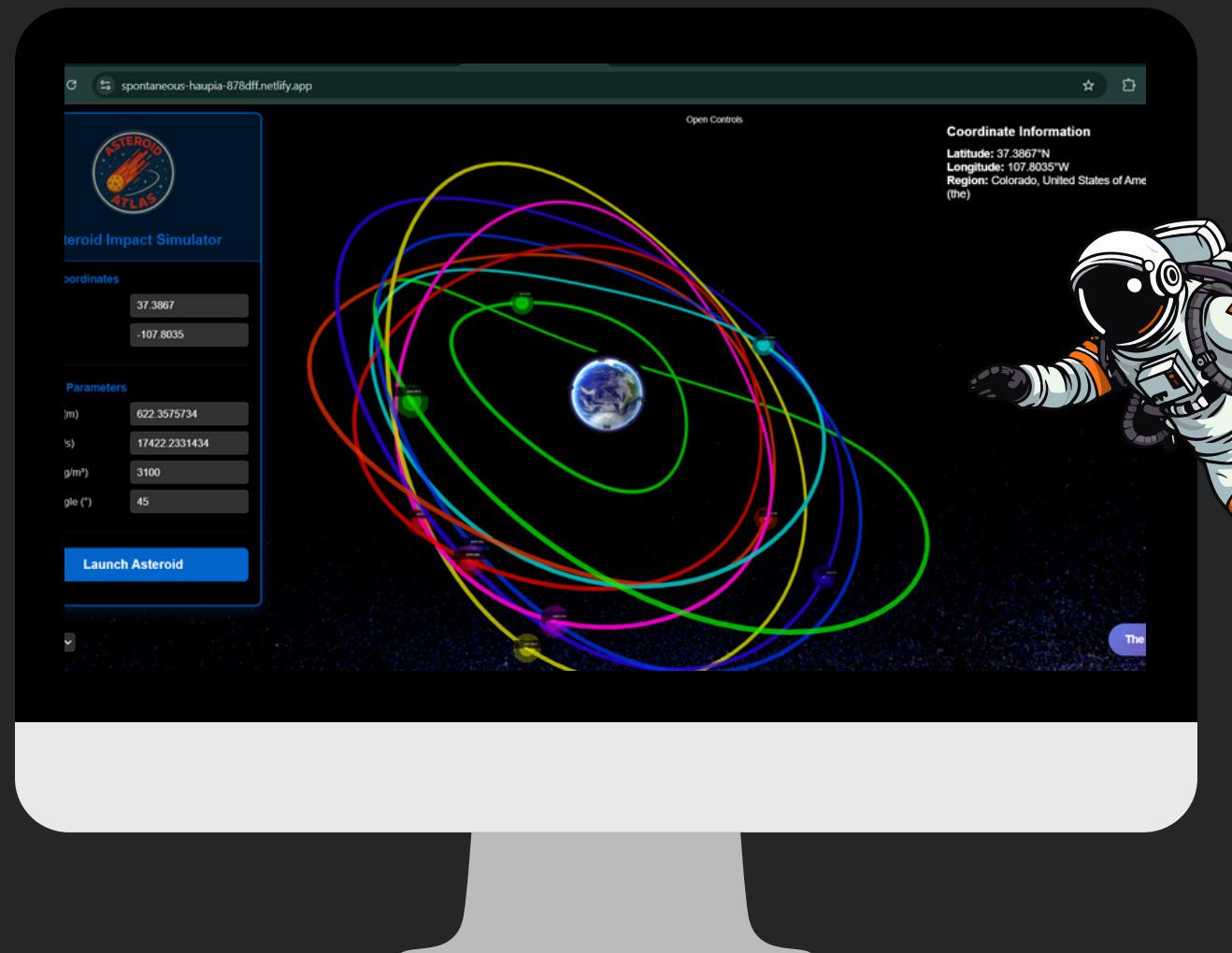
- Visualize orbits and impacts, all in one place.
- Launch REAL asteroids at the Earth and observe effects.
- Open Source



# DEMO

▶ Deployed live [here!](#)

`</>` Code is on GitHub [here!](#)



# UNDER THE HOOD



NASA Near Earth  
Objects (NEO) API

NASA Small Body  
Database (SBDB) API

Calculate  
Orbital Path

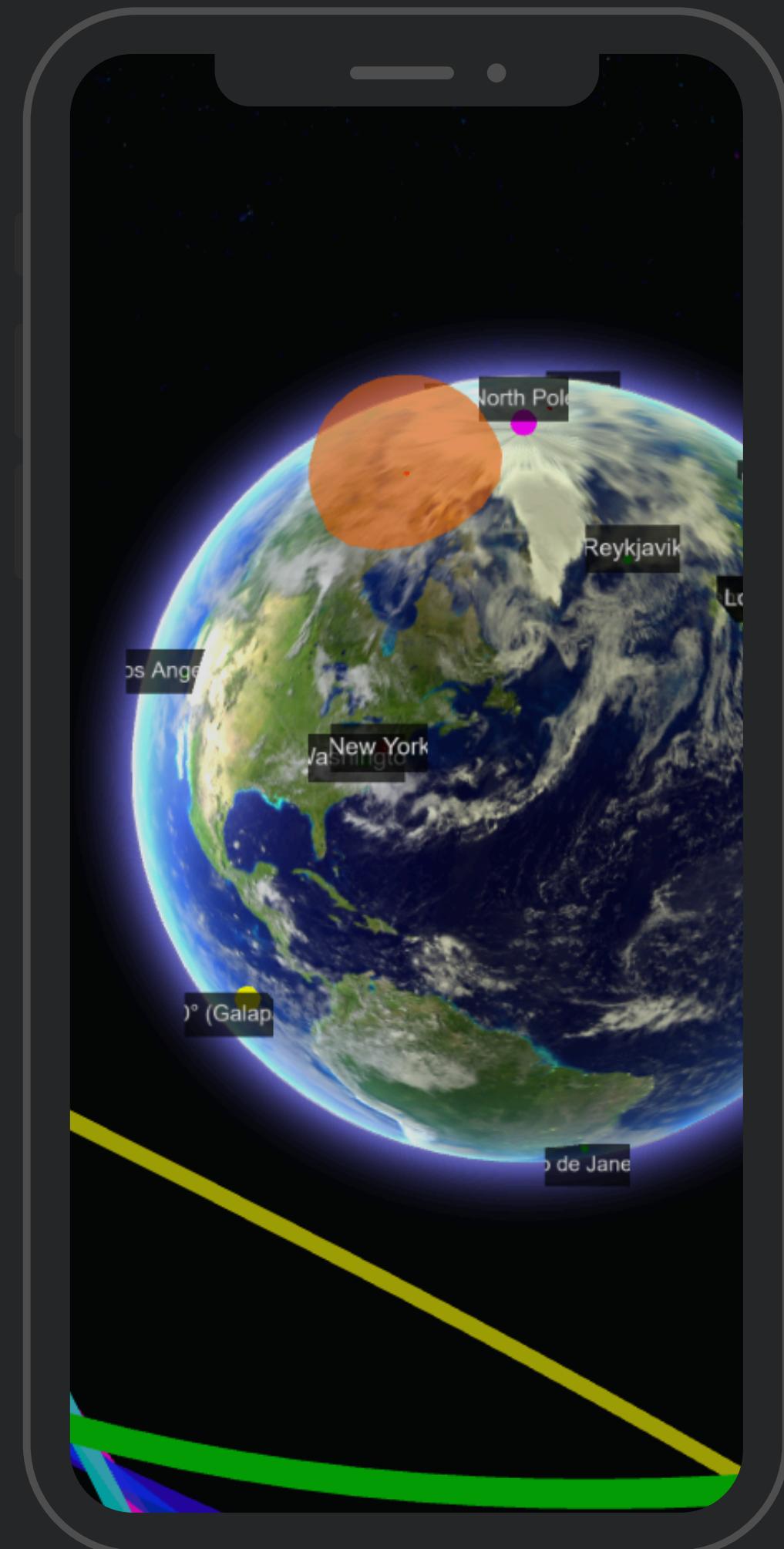
Visualize in  
the frontend

Model impact  
zones  
Launch Asteroid



# ACCESSIBILITY FEATURES

- Multilingual support
- Mobile support
- Colorblind friendly (planned)
- Follow WCAG standards (planned)



# FUTURE DEVELOPMENTS

- Visualize mitigation techniques
- Gamified “Defend Earth” experience
- Interactive experience in museums, planetariums.

