

April 2020:

Announced goals to protect our ecosystems



Building, deploying, and accelerating a **Planetary Computer** through our **AI for Earth** program that uses big data and technology to monitor, model, and manage the natural world.

We're taking responsibility for our ecosystem impact by committing to protect more land than we use by 2025.



Planetary Computer Components



Geospatial data (~12PB by end of 2021)



Data querying and processing **APIs** (Metadata based on STAC)



Compute environment for scientific workflows



(Partner) applications that put all of the above to work for sustainability



Wrapup

- Used the Planetary Computer's Data, APIs, and Compute
- STAC to find and query data
- xarray to preprocess
- PyTorch model for classification
- Dask + GPUs for scaling everything



aka.ms/gtc-landcover

planetarycomputer.microsoft.com