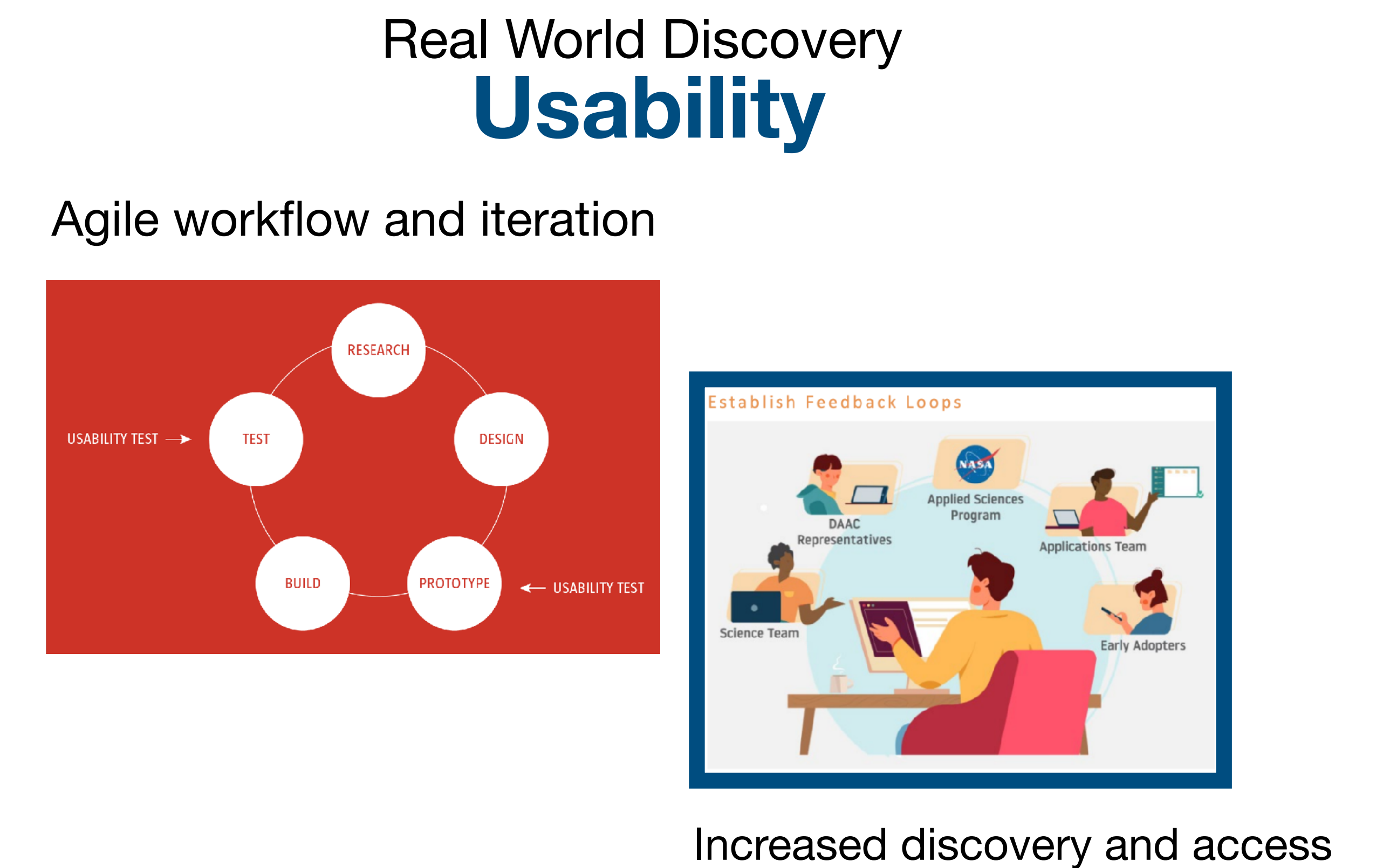
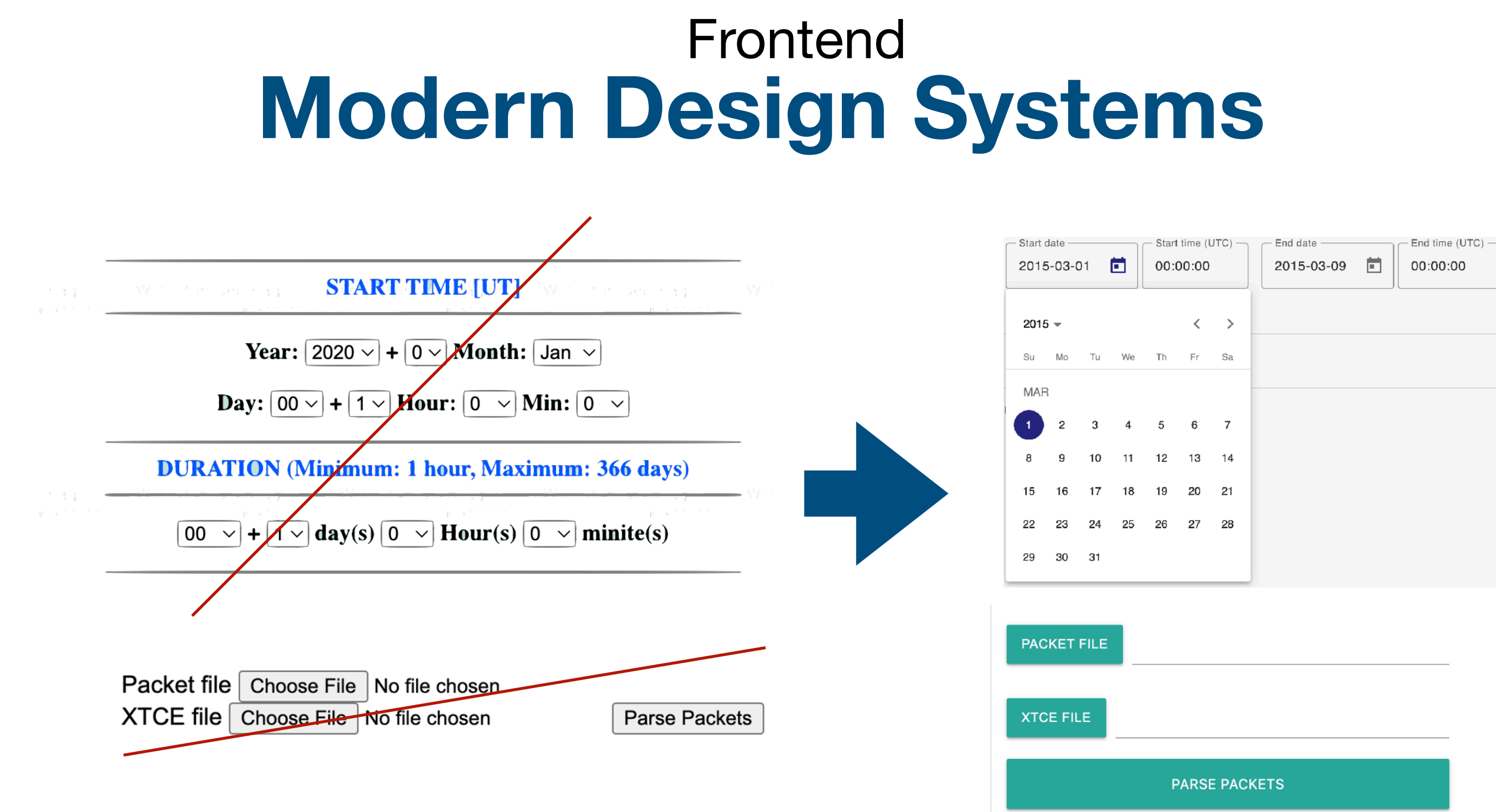
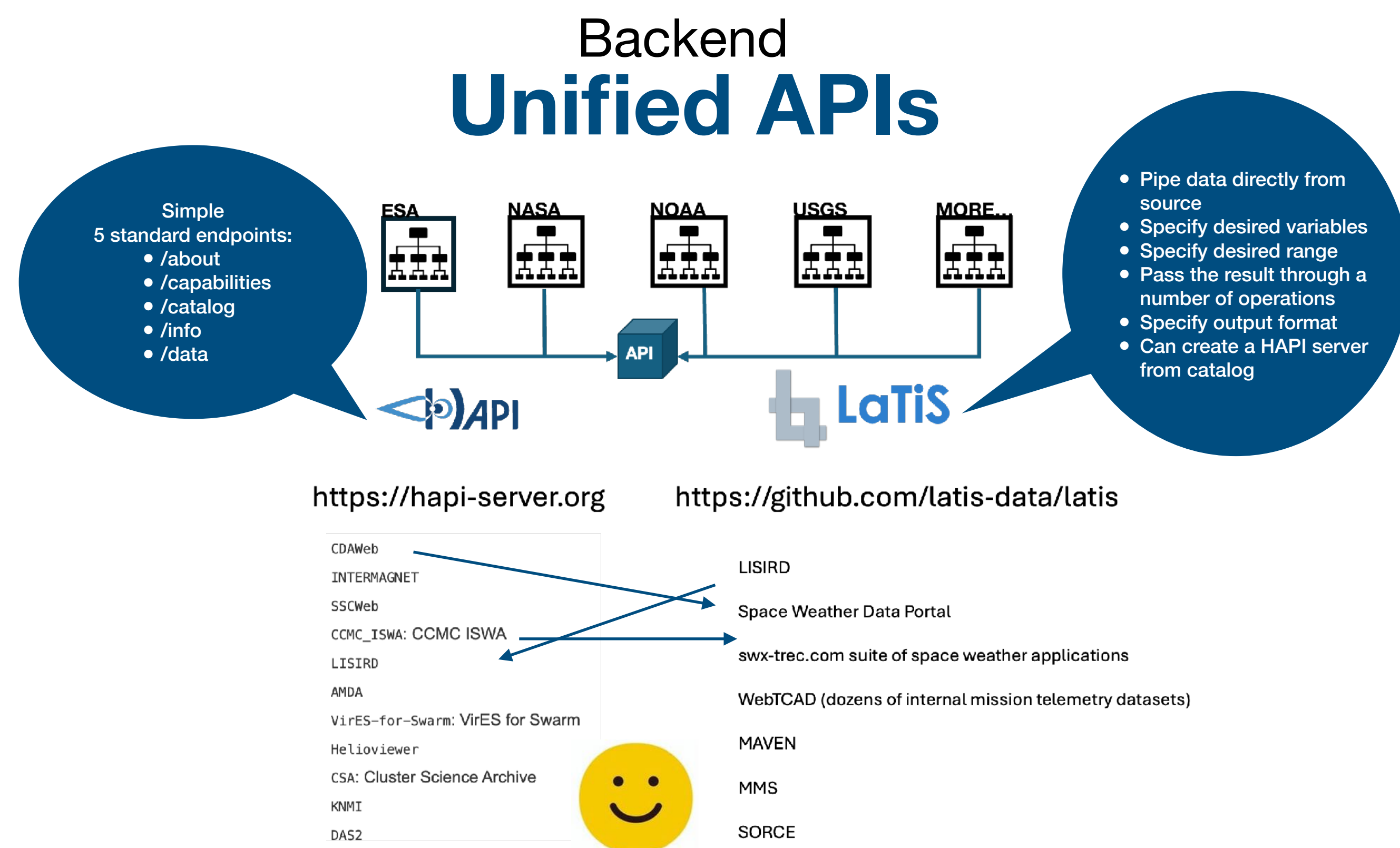


Space Weather Applications for Operations, Science, and Society

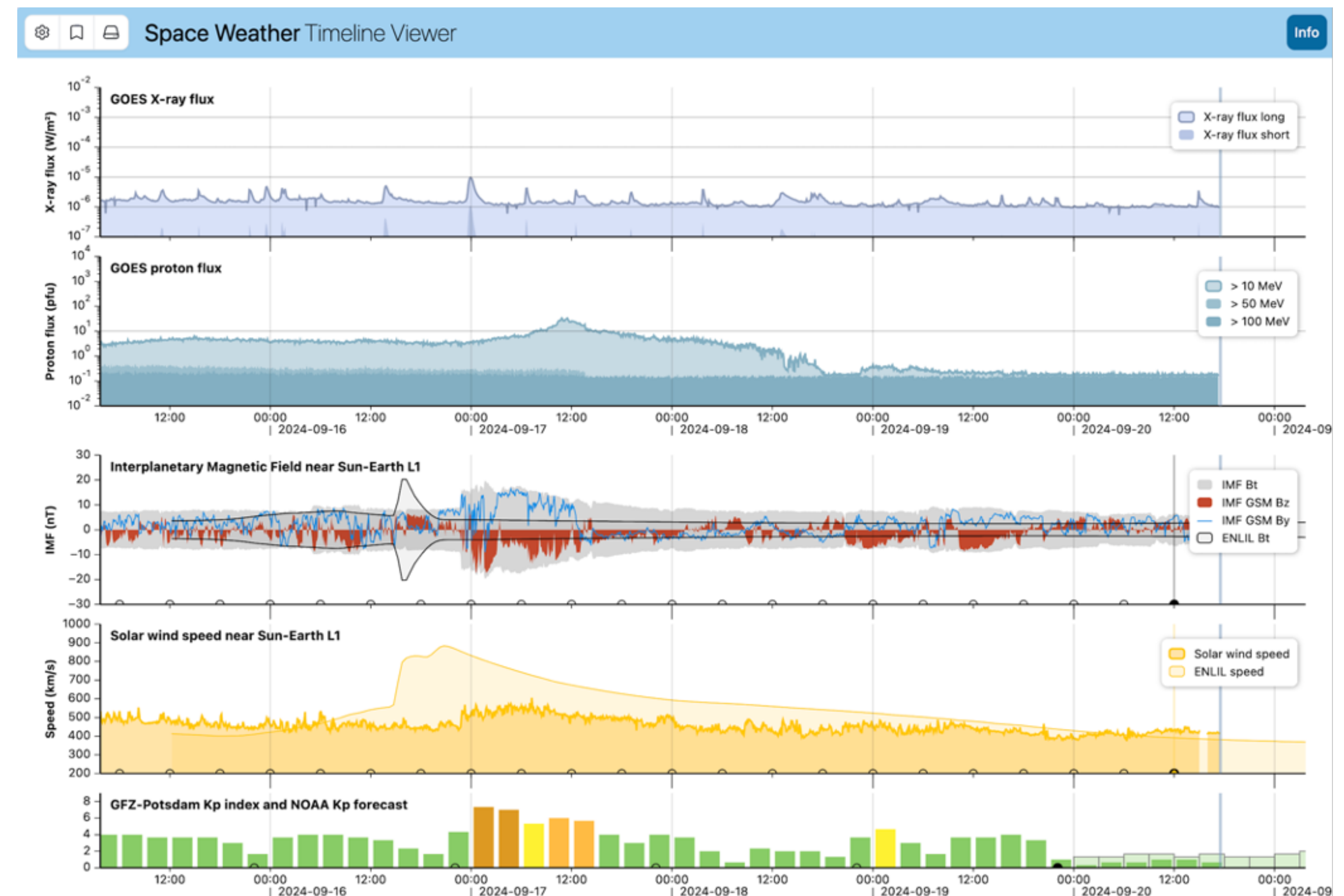
Jenny Knuth, CU Boulder, SWx TREC, LASP • Greg Lucas, CU Boulder, SWx TREC, LASP • Eelco Doornbos, KNMI • Thomas Berger, CU Boulder, SWx TREC, SWORD Center of Excellence

By leveraging modern, user-centered web applications, we can **improve** the accessibility of our data, the **usability** of our models, and the **impact** of our missions. A small investment in **web application development** can lead to major gains in space weather science and communication.

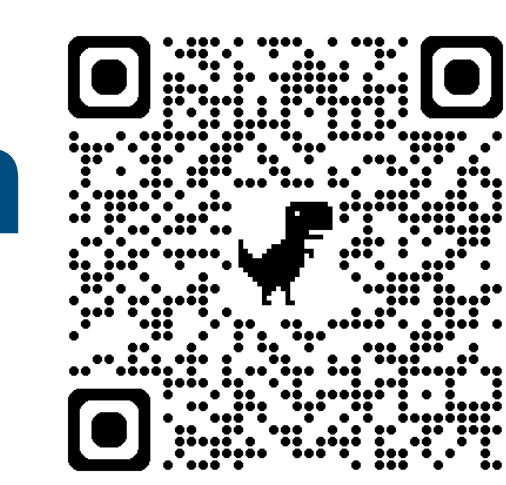


Intuitive and inviting space weather applications — and ideally, a Space Weather Applications Program — can advance space weather operations, science, and public understanding.

KNMI Space Weather Timeline Viewer
<https://spaceweather.knmi.nl/viewer>



SWx TREC Model Staging Platform
<https://swx-trec.com>



H3IcViz: View solar wind models in three dimensions

MSIS Visualizer: Explore atmospheric composition and profiles

LiveWire Geoelectric: Real-time maps of geoelectric and geomagnetic fields

LiveDst: Predict solar storm intensity

VECTOR: Calculate coefficients of drag and force

AirglowNet: Explore thermospheric dynamics over South America