Our team surveyed available products and found no readily-available/U.S. commercial or Agency products which supported our envisioned workflow for the Mission Design Center and the concurrent engineering (CE) process we use. Therefore, we sought to create our own CE tool. Changes in agency policy during the performance period allowed us to shift direction and instead adapt our previous legacy tool (Atlas) to include the collaboration features we sorely needed. Atlas relied upon databases for its back-end data management. Poseidon, the work proposed under this effort, was also intended to leverage from that previous back end (in part). However, in May 2021, EUSO announced that “SBU/CUI Information Can Now Be Shared/Stored Within O365 Without Encryption.” Consequently, we made the decision to use O365 in place of our back end. This change provides for version history, collaborative simultaneous editing, and other collaboration tools *agency-wide* that were previously unavailable with the old database architecture.

The new Atlas O365 has more flexibility and capability for users. It’s now easier for users to switch between using the tool for concurrent engineering and individual subsystem engineering. A version was delivered for concurrent engineering of small satellite missions; so far, it has been used successfully on the Aeolus MDC study. Atlas O365 will facilitate the design and assessment of Small Satellite Missions at low Concept Maturity Level at Ames. Feasibility assessments on mission concepts still at a low CML permit strategic planning and decision-making efforts at the center level about which concepts should be pursued and proposed.