

IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)  
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CRUISER-FEEDER ALTERNATIVE TO RENDER ARTEMIS AFFORDABLE

**Abstract**

The Artemis mission's return to the Moon faces a significant obstacle due to its estimated *4 billion per launch cost*. This paper proposes a *feeder architecture*, which utilizes the Gateway station as a *cruiser between Earth and the Moon*. Equipped with *service, node, and propulsion*, the Gateway station can act as a *feeder*, rendezvousing with the Orion capsule in space to deliver crew to the Moon orbit. Near Earth, a *SpaceX launcher* would act as a *feeder*, rendezvousing with the Orion capsule in space to deliver crew to the Moon orbit.