

SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Launch Services, Missions, Operations, and Facilities (2)

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JALISCO AIR AND SPACEPORT (JASP)

Abstract

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Abstract

A spaceport is an infrastructure at either the origin or destination of a spaceflight, or both. At the spaceport, an aerospace vehicle carry with components required to service and ready it for departure. A spaceport gives supply with capability to receive, process, and depart space payloads. Between receiving and departing operations, the aerospace vehicle might receive payload, unload, and receive a crew and, if required, having maintenance. The spaceport itself can provide a communication system to other modes of transportation: Air, land, and sea.

The spaceport operator provides the facilities and launch site infrastructure for recovery, postflight and preflight processing, and departure operations. A spaceport can host a single user or accommodate multiple users. Technology investment for spaceport hosts will typically focus on the shared infrastructure available to spaceport users, benefiting a variety of stakeholders. The overall evaluation of this feasibility will have to include not only the preferred physical approach, but also the realities of market demand and the portion of this demand that can realistically be attracted by a Jalisco spaceport1.

It is often exemplified the similitude between the state of commercial space travel now and the aviation industry briefly after the Wright brothers premiered powered flight by the first time in history. And it is just as they could not have foreseen the pace and direction particularly of commercial aviation development, so is it difficult now to see the path of commercial space development.

JASP also will be open to be evaluated on the viability as a spaceport for commercial space transportation. For a spaceport evaluation a mechanism has been created and tested on existing and potential spaceports, which is called Spaceport Evaluation Mechanism (SEM). In the paper "Spaceports: The Necessary Infrastructure for Private Spaceflight"2 is provided an outline of the SEM developed by the Spaceport Team Project at the International Space University (ISU).