



Velocity 1 LLC

The new paradigm for 21st century aviation™

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The V1 Project - Mission Brief

VI is an advocacy platform for creating the free-market provision and consumption of U.S. aviation infrastructure capacity.

The Problem: U.S. aviation infrastructure capacity is under-supplied and over-consumed. The air transportation congestion which this precipitates represents an unsustainable waste of U.S. economic productivity and resources in an increasingly competitive global market place. VI recognizes two main causes of this congestion:

1. **Dynamics of under-supply:** Federal entities such as the DOT, FAA, ATO, and ATC, have historically rationed national aviation capacity through a centrally controlled and monopolistic structure. The inertia which this structure perpetuates has precluded the supply of safe-separation airspace from keeping pace with the free market demand for air travel during periods of economic growth.
2. **Dynamics of over-consumption:** Industry and government interests such as commercial air carriers, NBAA, AOPA, NATCA, and Essential Air Service municipalities, rationally seek to protect and retain their rationed equity stakes in the absence of more efficient free market mechanisms for determining the allocation of aviation resources.

The Proposed Solution: In order to allow air transportation to meet its potential as a critical enabler of U.S. GDP growth, *it is proposed that the free market demand for air travel be satisfied by a free market supply of aviation infrastructure capacity.* It is recognized that this would represent nothing less than a paradigm shift in the provision and operation of safe-separation airspace and runway environment capacity in the U.S. It is also recognized that this proposal is technologically achievable given already existing aviation navigation technology, and that the greatest obstacles to its achievement reside in the realms of public policy and the re-allocation of industry rents and stakeholder equity.

Facilitating the Solution: To facilitate an intellectually honest examination of this proposal, and to present the value it holds for U.S. GDP growth and consumers of air travel, VI intends to stimulate a national conversation throughout industry, academia, the U.S. legislature, and consumer groups. Through this conversation, VI will press the proposal that the provision and operation of aviation infrastructure capacity must be released from federal control and be re-created as a ubiquitous utility and a tradable commodity; similar to the free market provision and trade of electrical power generating capacity. It is proposed that the nominal unit of trade should be optimal 4-dimensional airborne trajectories defined between departure and arrival runways or terminal airspace waypoints.

To initiate this conversation, VI has prepared a 65-page research proposal. *The VI Concept of Air Transportation Management* may be downloaded at: <http://www.velocity-1.com>