ATD-2 Integrated Arrival, Departure, and Surface (IADS) Operations

OVERHEAD STREAM INSERTION

CENTER BOUNDARY

DOWNSTREAM DEMAND / CAPACITY IMBALANCE

DEPARTURE METER POINTS

ARRIVAL METER POINT

CENTER AIRSPACE

TERMINAL AIRSPACE

TERMINAL AIRSPACE

ATD-2 CONCEPT DEPICTION
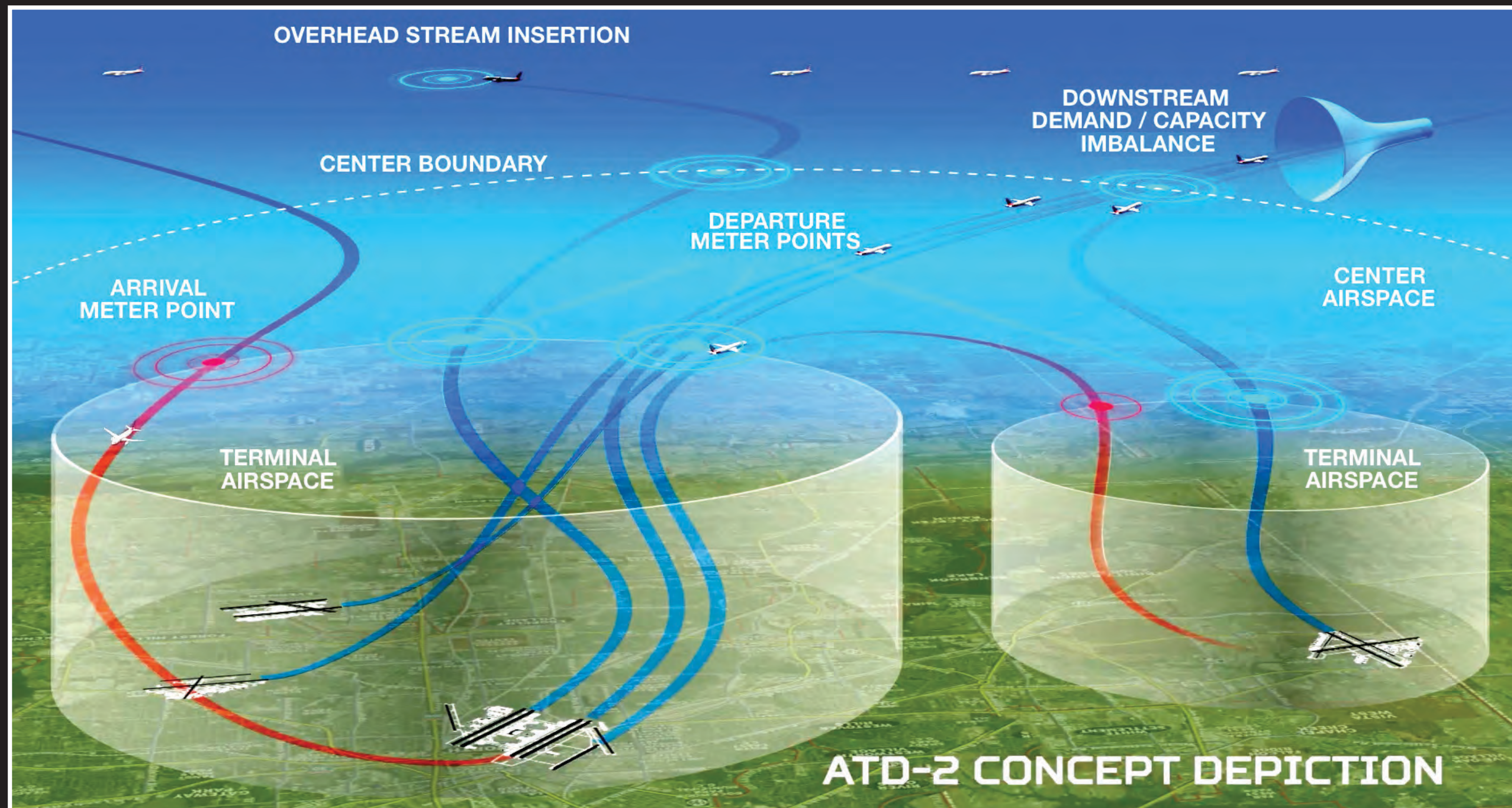
The ATD-2 Integrated Arrival, Departure, and Surface (IADS) traffic management system extends integrated traffic sequencing all the way from the gate to the overhead stream and back again for multi-airport, metroplex environments. NASA and the FAA are developing the IADS system in close coordination with industry partners.

Optimized Pushback Times
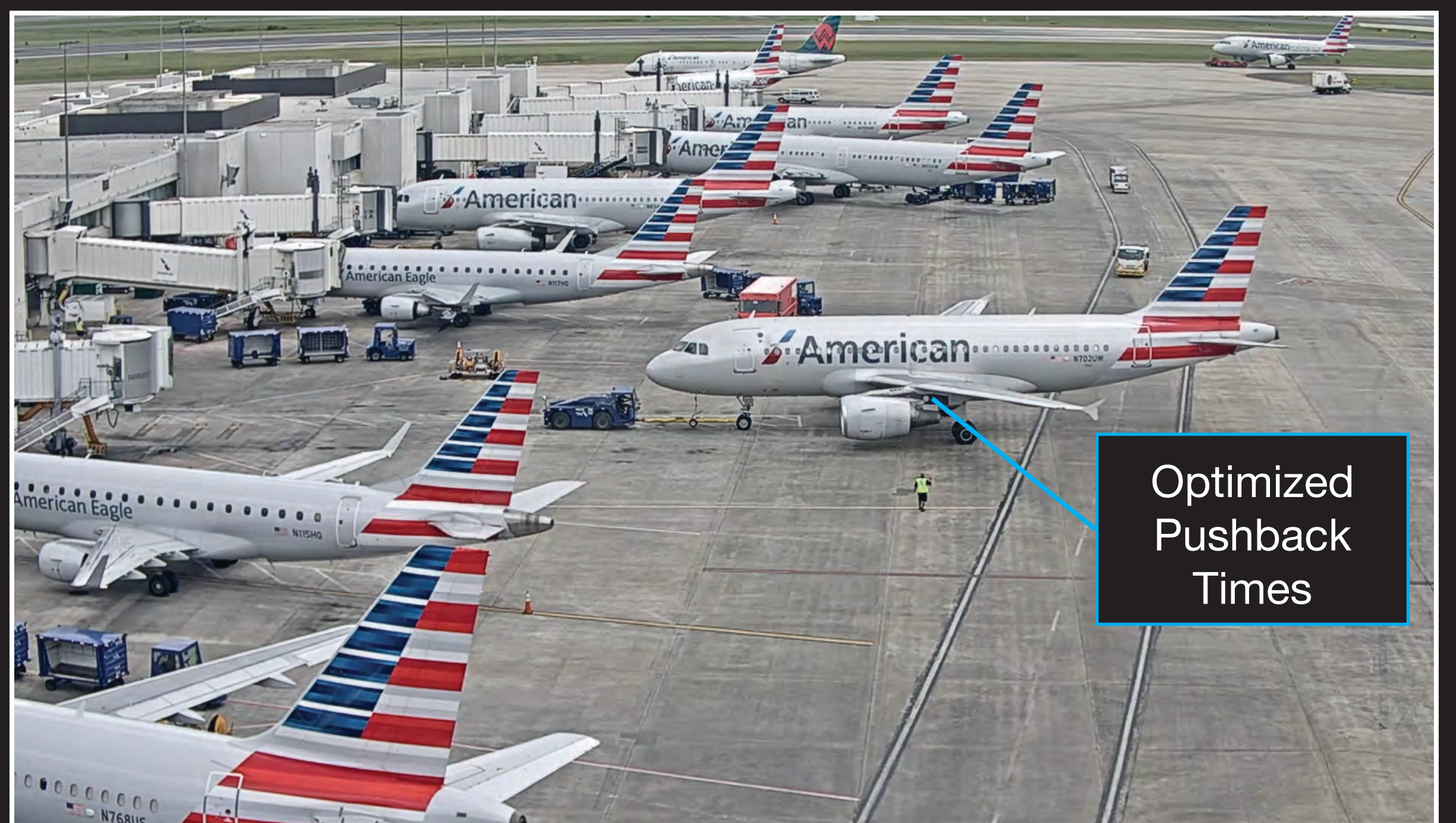
Ramp controller displays and scheduling tools enable surface metering for reduced ramp and taxiway congestion

Efficient Wheels-up Times

Improved Scheduling Enables Efficient Spacing

OPEN SLOT
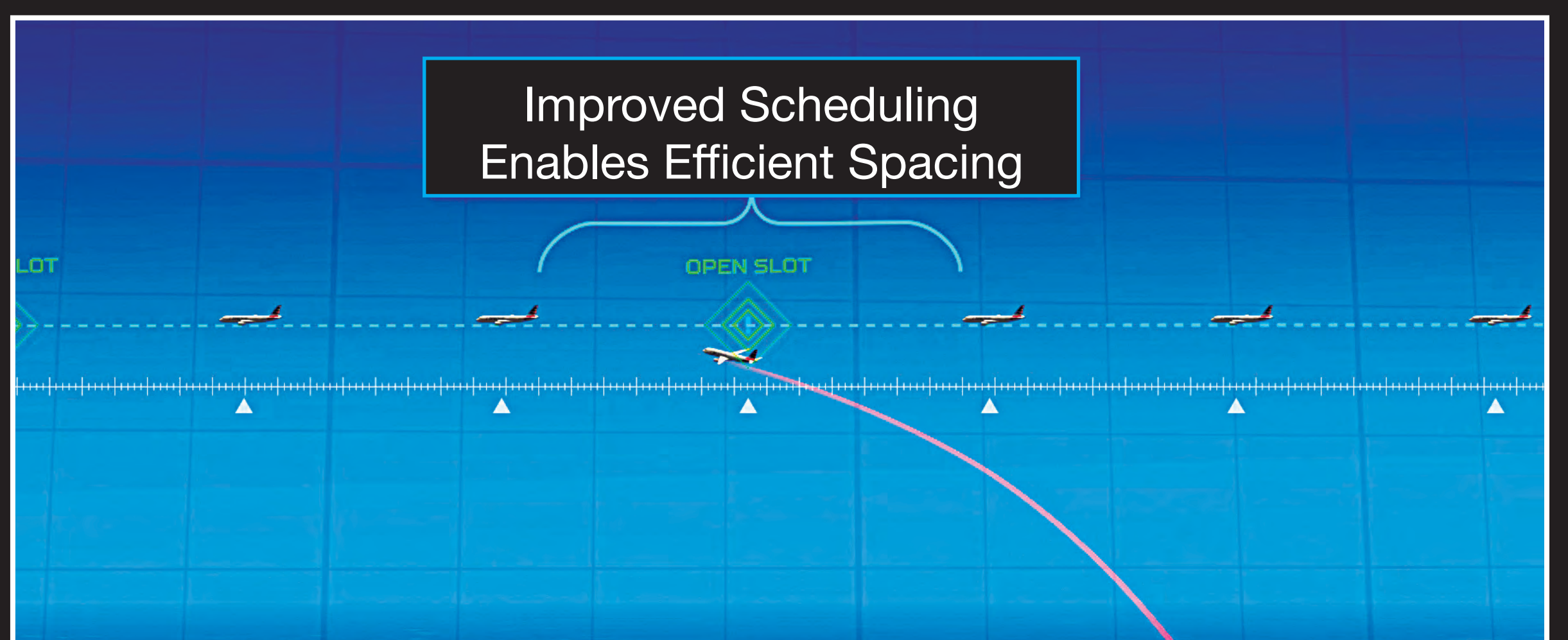
Improved scheduling for wheels-up time and merge into overhead stream

Expected Benefits: The ATD-2 IADS system will improve the predictability and efficiency of the air traffic system, while reducing fuel usage and emissions. This will be accomplished by sharing data among pilots, controllers, flight operators, and airport operators to produce a fully coordinated schedule.

View the Airspace Technology Demonstration 2 (ATD-2)/IADS video at: https://tinyurl.com/atd2-animation-v2