

Choosing a training approach

Airports have two conventional options: train in the vehicle, or buy a proprietary-engine simulator with a vendor-specific cabin. AVOPSIM is a third option: the same digital twin, the same instructor tooling, on hardware you can buy anywhere.

	AVOPSIM	Proprietary-engine simulators	In-vehicle training
Simulation engine	Microsoft Flight Simulator 2024. World, weather, lighting and physics maintained and updated by Microsoft and Asobo.	Vendor-built engine. Updates and fixes are tied to the vendor's roadmap and support contract.	None.
Airport environment	1:1 digital twin of your airfield, signage, lighting and buildings, inside a photorealistic model of the whole surrounding world.	3D replica of your airport built by the vendor. Surroundings are typically limited to the airport boundary.	The real airfield, when traffic and weather allow it.
Vehicles	Your fleet, modeled per unit with cabin instrumentation and specialist functions.	Vendor library with custom units on request.	An operational vehicle taken out of service.
Hardware	Off-the-shelf PC, wheel and pedals. Scales from a desk station to a full vehicle cabin.	Vendor-specific cabin and visual system.	Vehicle, fuel and an instructor in the passenger seat.
Instructor tools	Mission Editor and Examiner Console included. One instructor monitors several stations.	Instructor station, typically included with the system.	One instructor per trainee.
Radio communication	AI radio communication with a virtual controller, speech recognition and scoring. Beta.	Varies by vendor.	Live frequency. Limited practice, real consequences.
Weather, time and season	Full day and night cycle, live or preset weather, every season, set per mission.	Configurable lighting and weather presets.	Whatever the day provides.
Time to first station	Weeks after scoping. Add stations at any time.	Months, tied to cabin manufacturing and installation.	Immediate, subject to vehicle and instructor availability.

Note

The comparison describes typical characteristics of each approach, not the offer of any specific vendor.