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SafeRoute+ Applications

The baseline application for SafeRoute+ is **Enhanced Airborne Traffic Situational Awareness or AIRB**. When surveyed, 84 percent of pilots reported that ADS-B In enhances their situational awareness, and 15 percent identified traffic ground speed as the most useful piece of information. AIRB provides the flight identification, altitude, ground speed, vertical speed, track angle and wake category for aircraft up to 100 nautical miles away. This information creates an environment of shared situational awareness and aids the crew in visual acquisition of traffic.

The **CDTI Assisted Visual Separation (CAVS)** application aids flight crew in managing spacing that is more efficient during final approach during challenging visual conditions. The CAVS application has shown to reduce aircraft final approach time by as much as 14% in marginal weather, can help reduce go-arounds and can help keep flights running on time during reduced visibility conditions.

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The **In-Trail Procedures (ITP)** application provides the flight crew with a vertical profile view of surrounding traffic over 100Nm away, which is useful during oceanic routes. The Federal Aviation Administration (FAA) has released studies reporting transatlantic ITP-equipped flights have saved an average of 670 pounds of fuel and likewise, transpacific flights have saved an average 521 pounds. This fuel savings also results in a significant reduction in carbon dioxide emissions.

The **Interval Management Spacing (IMS)** application maintains time-based spacing during instrument meteorological conditions. IMS allows consistent low-variance aircraft Inter-Arrival Time (IAT) that enables block time predictability and maximizes runway capacity.

The new AGD from ACSS is required to enable and interact with these advanced ADS-B In applications, specifically CAVS, IMS and ITP. SafeRoute+ surface applications will also soon be available to provide situational awareness and alerts to reduce the likelihood of runway incursions using a tablet.