

# Runway Situation Awareness Tools

Helping pilots prevent runway overrun excursions



At Boeing and Embraer, helping pilots prevent runway overrun excursions is a top safety focus area. There isn't just one factor that causes overruns, nor is there one simple solution to prevent them.

To help pilots adapt, Boeing and Embraer have partnered to develop and provide a shared set of flight-deck guiding and alerting tools along with new procedures and training aids for pilots.

The foundation for the Runway Situation Awareness Tools is the long-standing philosophy of both Boeing and Embraer to respect pilot control, and help pilots make timelier, better informed decisions that support safe approaches and landings.

From the approach planning phase through landing rollout and deceleration, the Runway Situation Awareness Tools provide a combination of solutions to reduce runway excursions.

## Runway Situation Awareness Tools

### Procedures for every landing

- Perform a landing distance calculation
- Calculate and brief a go-round point
- A thrust reverser callout has been added to the FCTM and the FCOM



Procedures

Flight Deck Technology

### Flight Deck Technology

- Enhanced approach planning tools
- Aural and visual runway positional awareness and alerting
- Stability guidance and alerting
- Predicted runway stop location display
- Overrun alerting



Training Aid Video

### Approach & Landing Training Aid Video

- Flying a stable approach
- Runway contamination
- Checking the runway length available vs. required
- Reported conditions can vary from actual conditions
- Approach speed additives
- Proper, timely use of all deceleration devices



### Additional Information

- [AERO Magazine 3Q12: Reducing Runway Landing Overruns](#)
- [Flight Safety Foundation ALAR Toolkit](#)
- [IATA / ICAO Web on Overrun Accident Reduction Toolkit](#)
- [AERO Magazine 1Q11: Improving Runway Safety](#)