



Runway Situation Awareness Tools

Regional Runway Safety Seminar

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Panel discussion

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The Boeing Company

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Overrun characteristics

Stability

Unstable approach
(too high, too fast)

Tailwind

Touch-down

Long landing

High touchdown speed

Deceleration

AB too low

Friction limited or runway contamination

Speedbrakes late or not deployed

Reversers late or not deployed

Reverser level too low or reduced too soon

Runway excursions often are caused by more than one factor

Decision height

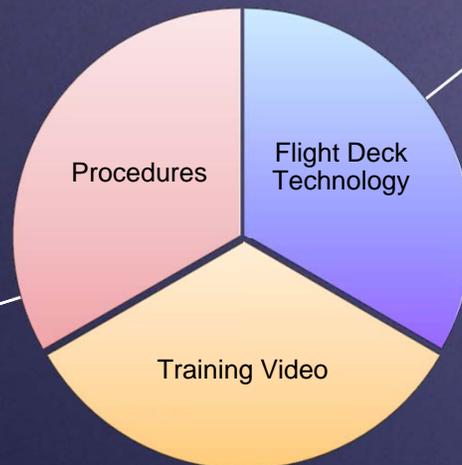
Boeing and Embraer: overrun mitigation

Runway Situation Awareness Tools



For every landing

- Perform a landing distance calculation
- Calculate and brief a go-around point
- Utilize appropriate Speedbrake/Thrust Reverser callouts



Training Aid video

- Flying a stable approach
- Runway contamination or friction
- Checking runway length available versus required
- Reported conditions that vary from actual
- Approach speed additives and effect
- Proper, timely use of all deceleration devices



Technology

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





Questions