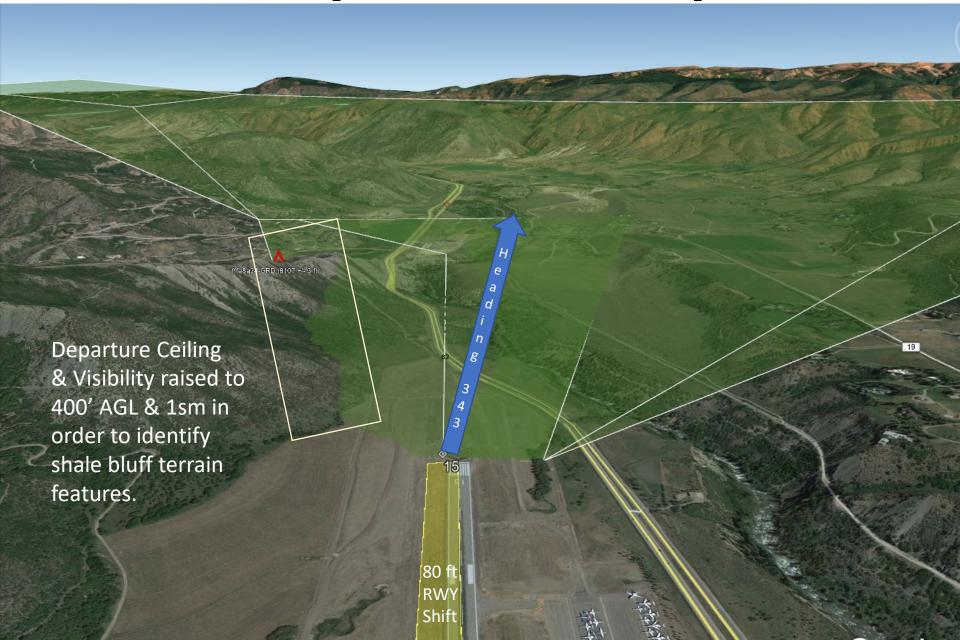


## **RWY 33 Departure Viewpoint**



# Approach to Landing Safety

The FAA utilizes three unique methods to keep aircraft safe while flying an approach to Aspen's RWY 15

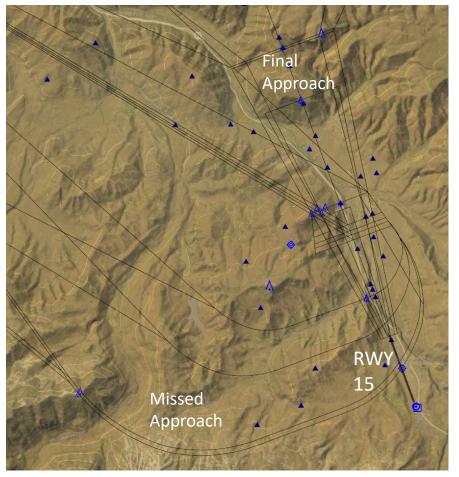
- Obstacle Protection Surfaces (Determines the DA/MDA)
- Visual Surface Assessment
- Vertically Guided Surface (VGS)

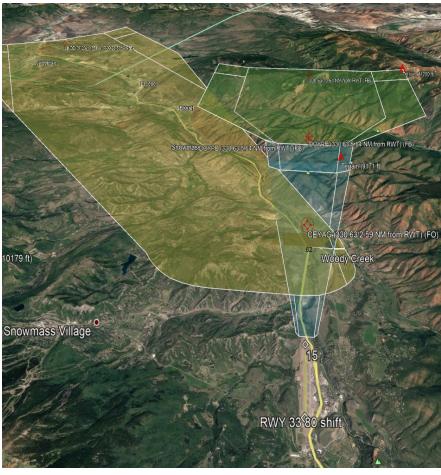
The following images depict the three FAA Approach safety areas in relation to the ASE runway with an 80 ft shift applied.



### #1: Obstacle Clearance Surface (OCS)

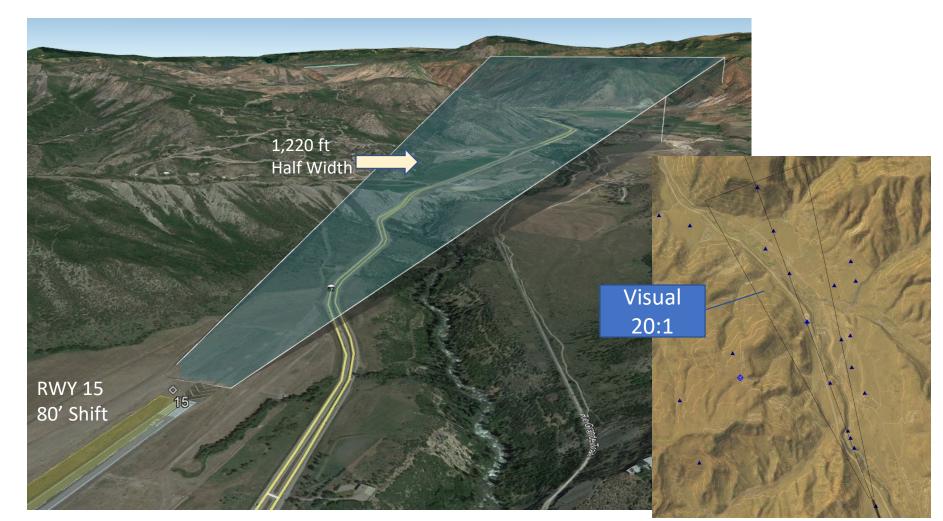
Determines the altitude that the pilot must have the runway environment in sight by before proceeding to the runway for landing. (Public LOC: 2,400-3 & Special LOC: 1080-2 ¾ )





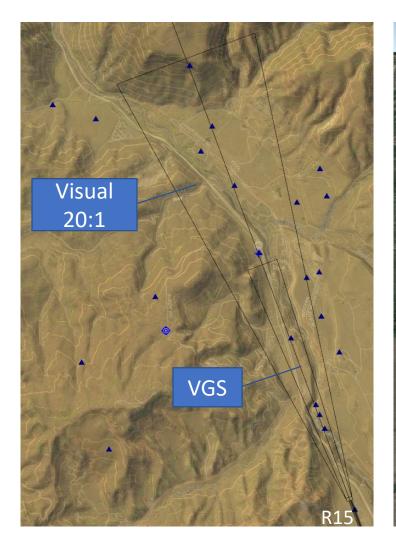
#### #2: Visual 20:1 Surface

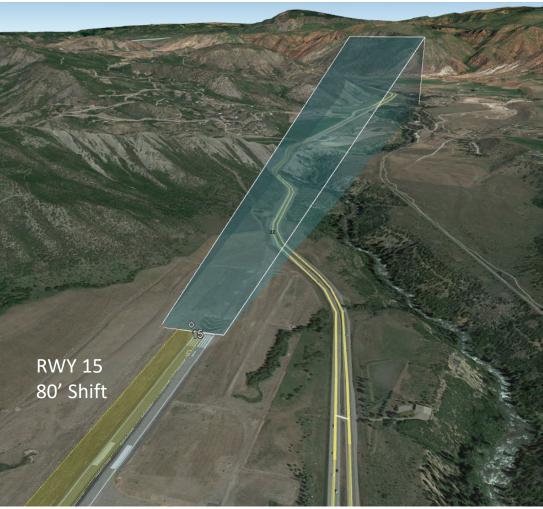
Protects the aircraft from the DA/MDA to runway end. Ensures adverse obstacles are not present in the visual area and allows for night operations.

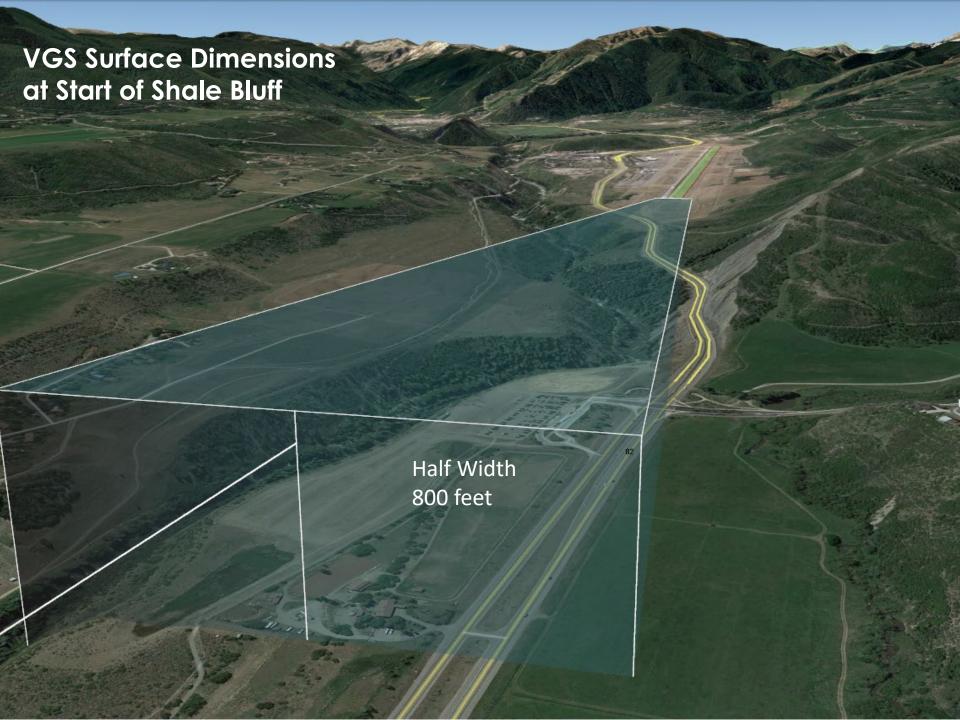


## #3: Vertically Guided Surface (VGS)

Protects the aircraft while on the Visual Glidepath to the runway threshold.

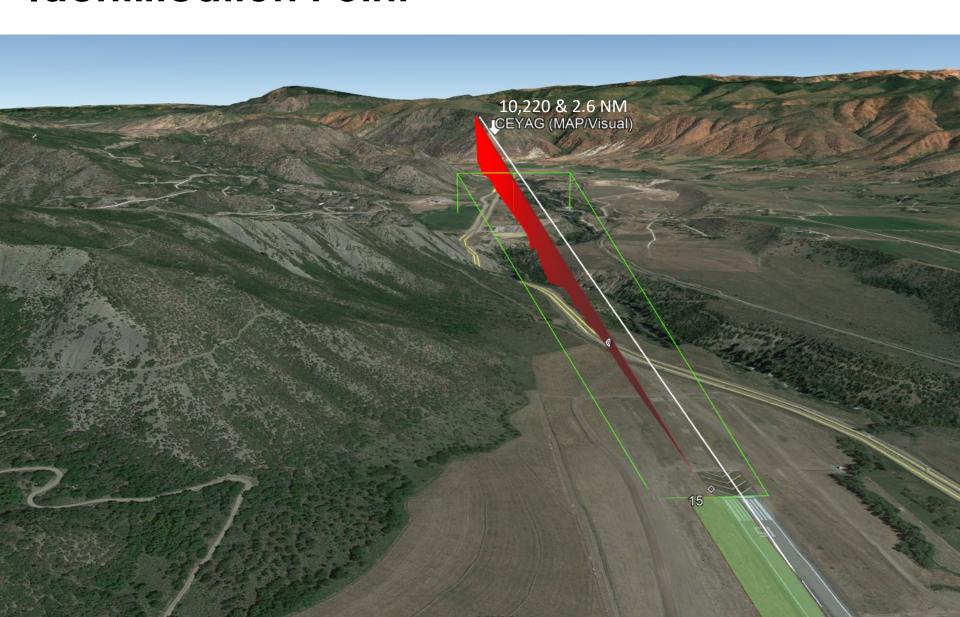








# Approach Profile & Visual Identification Point



## Future Fleet Considerations

- CRJ 700's in the US regional fleet have an average age of 15 years.
- Average aircraft replacement occurs around ~20 years old.
- United & Delta have drastically purged CRJ's from their regional fleets in favor of the newer Embraer.
- No action on the runway could eventually result in use of an E-175 replacement carrying less passengers.
- In the next 5-10 years, the regional jet fleet mix will change to include new mid-segment narrowbody aircraft such as the E-175/190-E2 and A-220.

#### Potential Fleet Mix at ASE to Optimize Efficiency





#### **Shoulder Seasons & Summer**

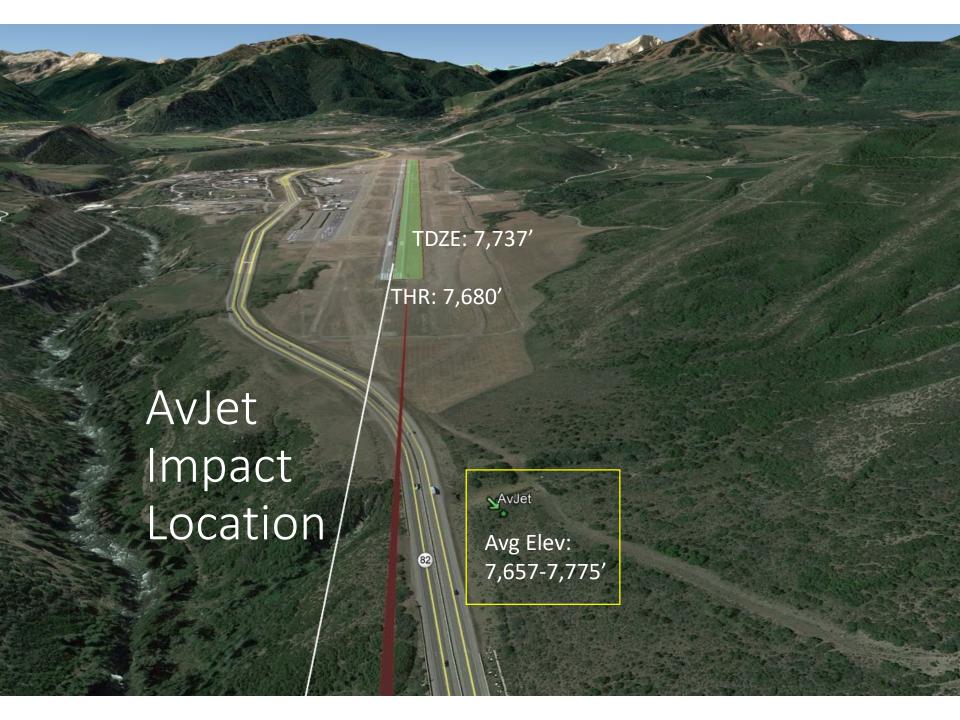
- ✓ Utilize 76 seat E-175 regional aircraft for periods when passenger demand is low.
- ✓ Great for fall/spring shoulder seasons.
- Summer use in high temps could result in weight restrictions (reduced pax) depending on destination. DEN is least affected

#### Peak Seasons (Winter Ski & Festivals)

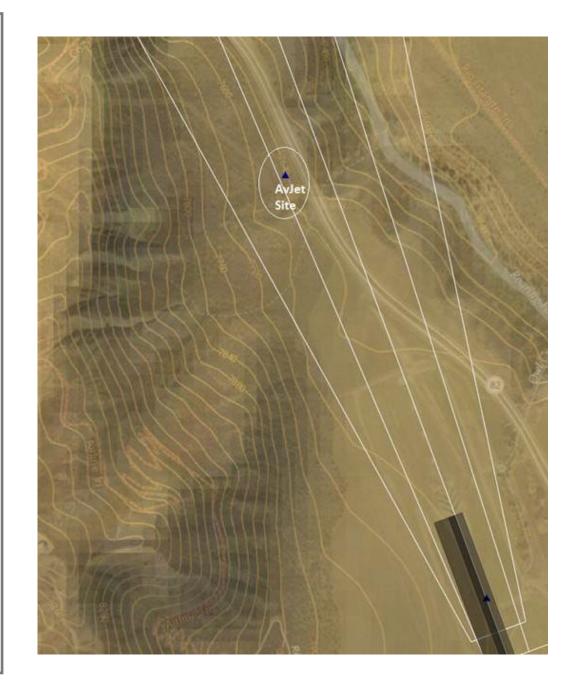
- ✓ Utilize mid-segment narrowbody aircraft that are both powerful enough to prevent weight restrictions while offering the most efficiency per passenger.
- ✓ Allows more distant routes to be served.
- ✓ One aircraft could potentially replace two RJ flights. (i.e. less Denver roundtrips)

E190/195 (97-120 seats)

## **Additional Slides**

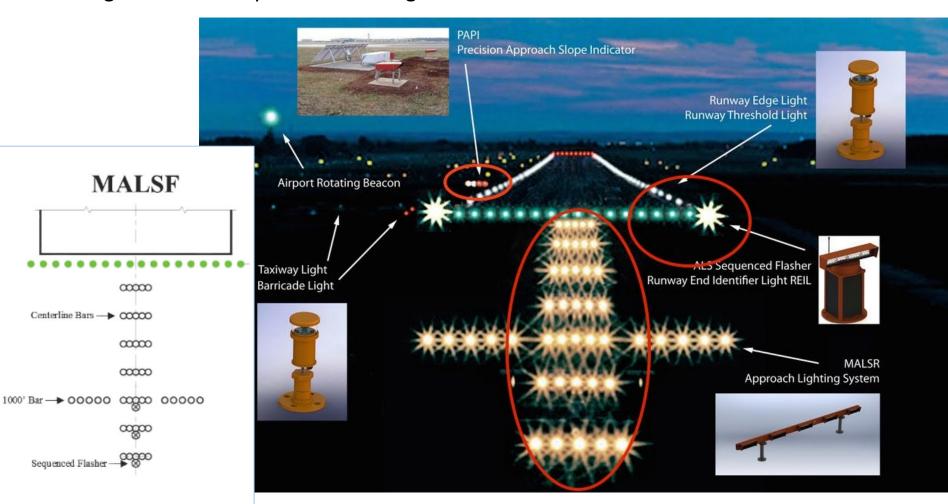


## AvJet Location Overview



### **ASE Runway Lighting Enhancements**

Aspen has a Medium-intensity Approach Lighting System with Sequenced Flashing lights (MALSF). This helps pilots visually identify the runway environment and helps alight the aircraft prior to reaching the threshold.



## Overview Map of 80 ft RWY Shift

