**ATTACHMENT #5**

# JUNEAU RUNWAY INCURSION MITIGATION (RIM) PROGRAM

April 10th 2017

JUNEAU INTERNATIONAL AIRPORT
ALASKA'S CAPITAL CITY

PDC ENGINEERS
PLAN · DESIGN · CONSTRUCT

RS&H

# Goals and Objectives

- The goal of the JNU RIM Program is to determine mitigation solutions for Taxiway C that will reduce the risk of runway incursions at the Airport.
- The objectives are:
  - Examine runway incursions data related to Taxiway C, D, E
  - Consider airfield design and geometry
  - Develop potential solutions
  - Priorities mitigation techniques

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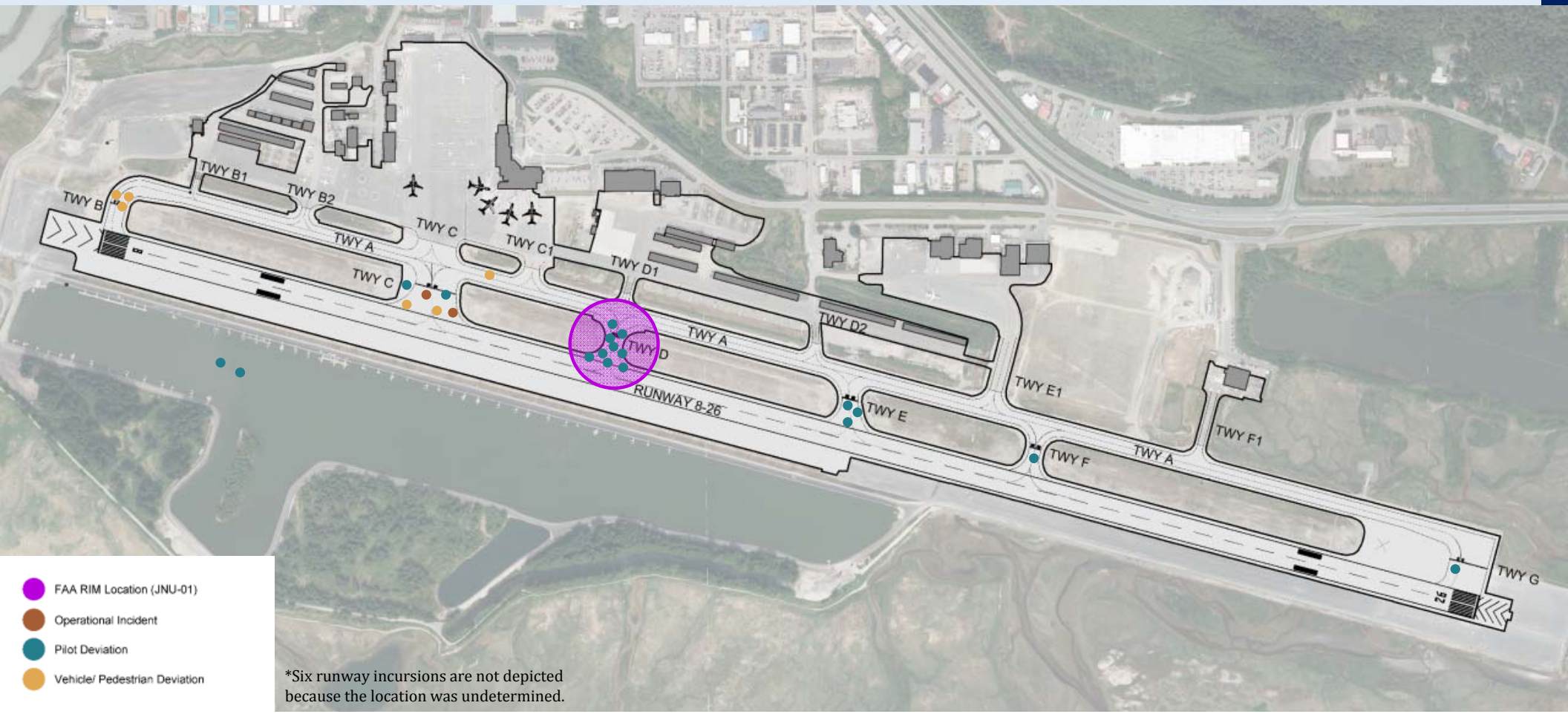
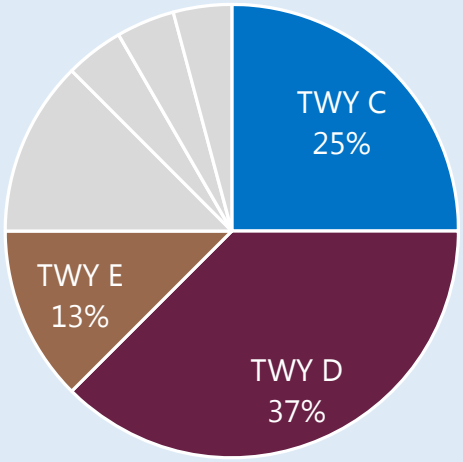
# Juneau Runway Incursions

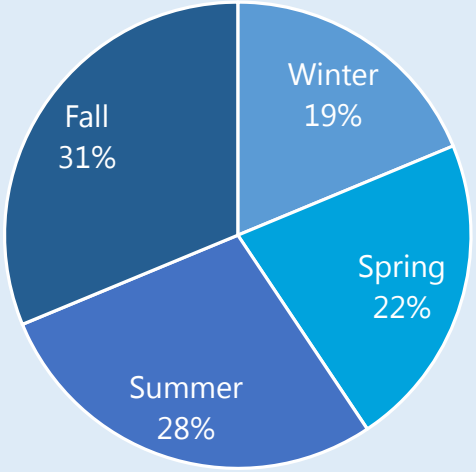


# Juneau Runway Incursions

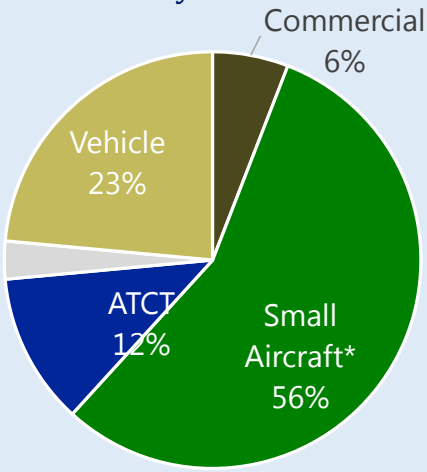
### By Location



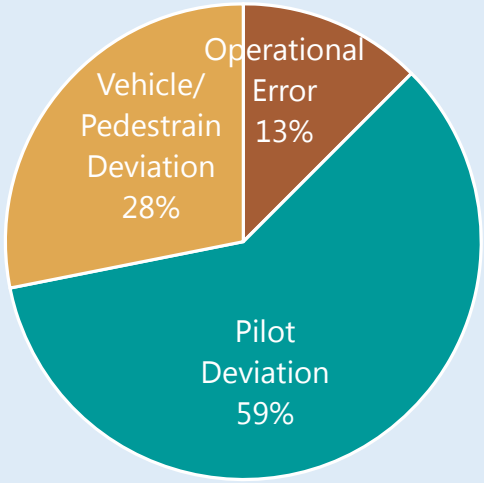

### By Season




### By User




### By Category




* Aircraft with a maximum takeoff weight under 12,500lbs.

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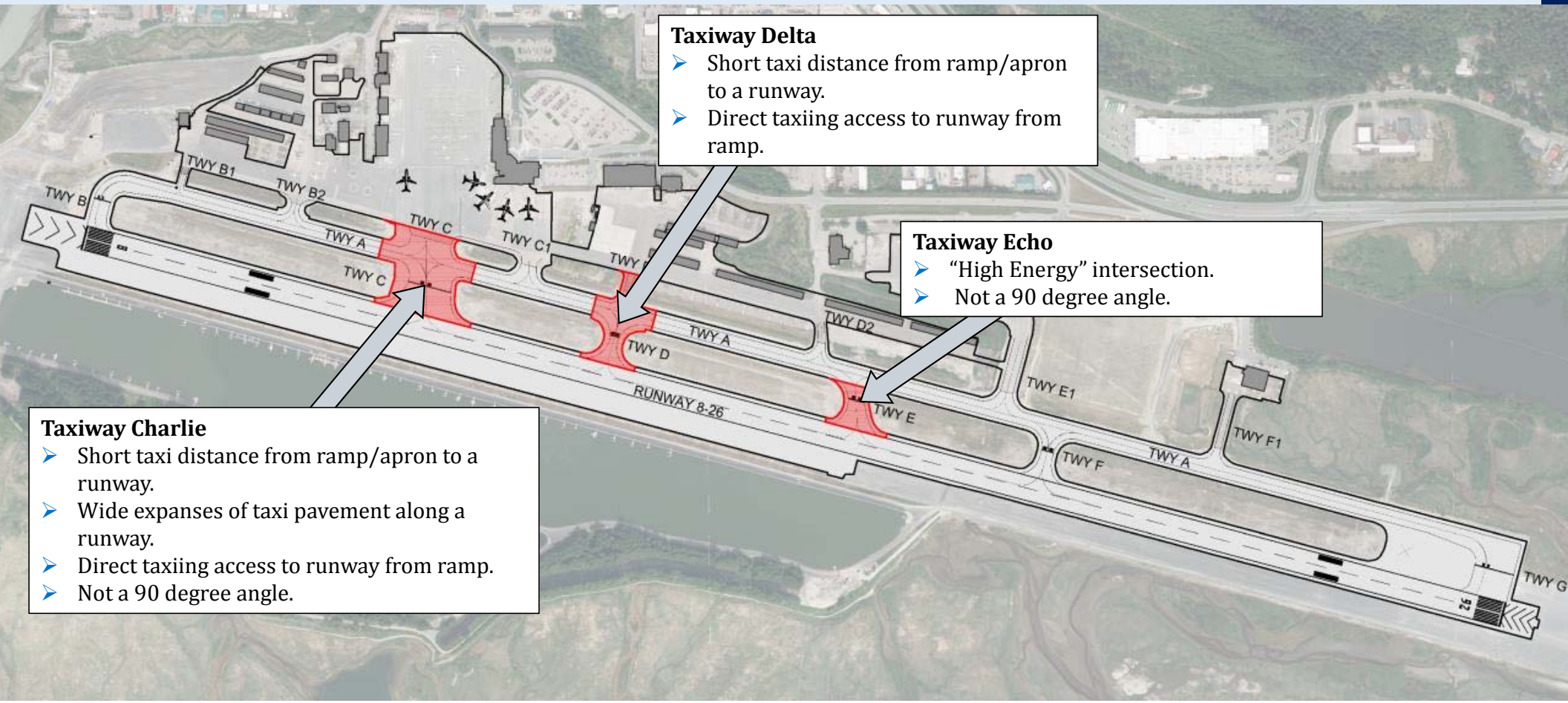
# Taxiway Design Deficiencies




**Taxiway Delta**

- Short taxi distance from ramp/apron to a runway.
- Direct taxiing access to runway from ramp.

**Taxiway Echo**

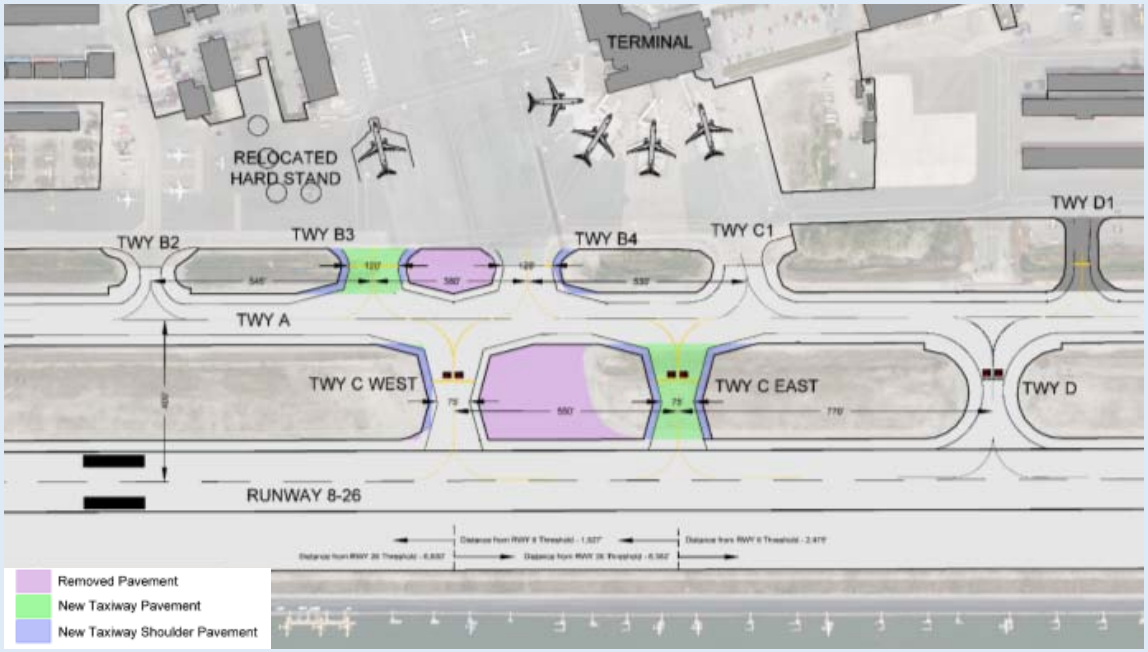
- "High Energy" intersection.
- Not a 90 degree angle.

**Taxiway Charlie**

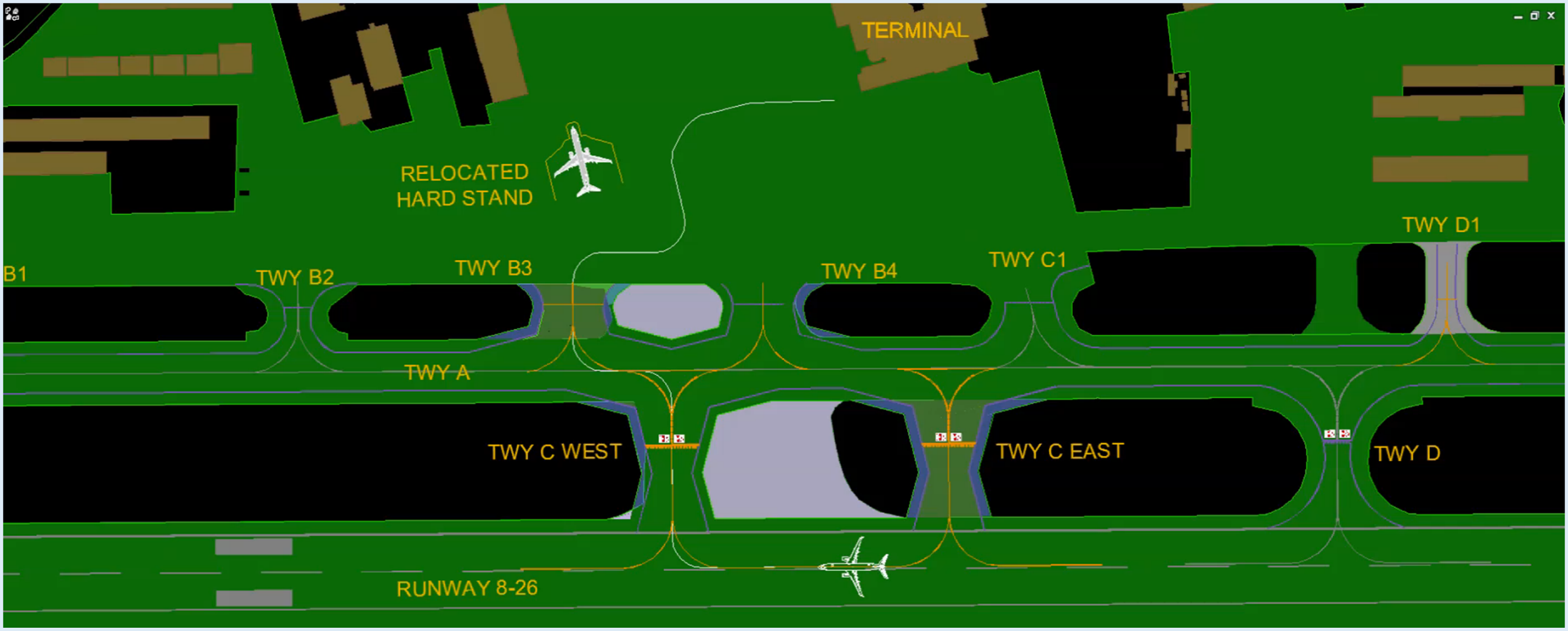
- Short taxi distance from ramp/apron to a runway.
- Wide expanses of taxi pavement along a runway.
- Direct taxiing access to runway from ramp.
- Not a 90 degree angle.

# Option 3 – Preferred Solution

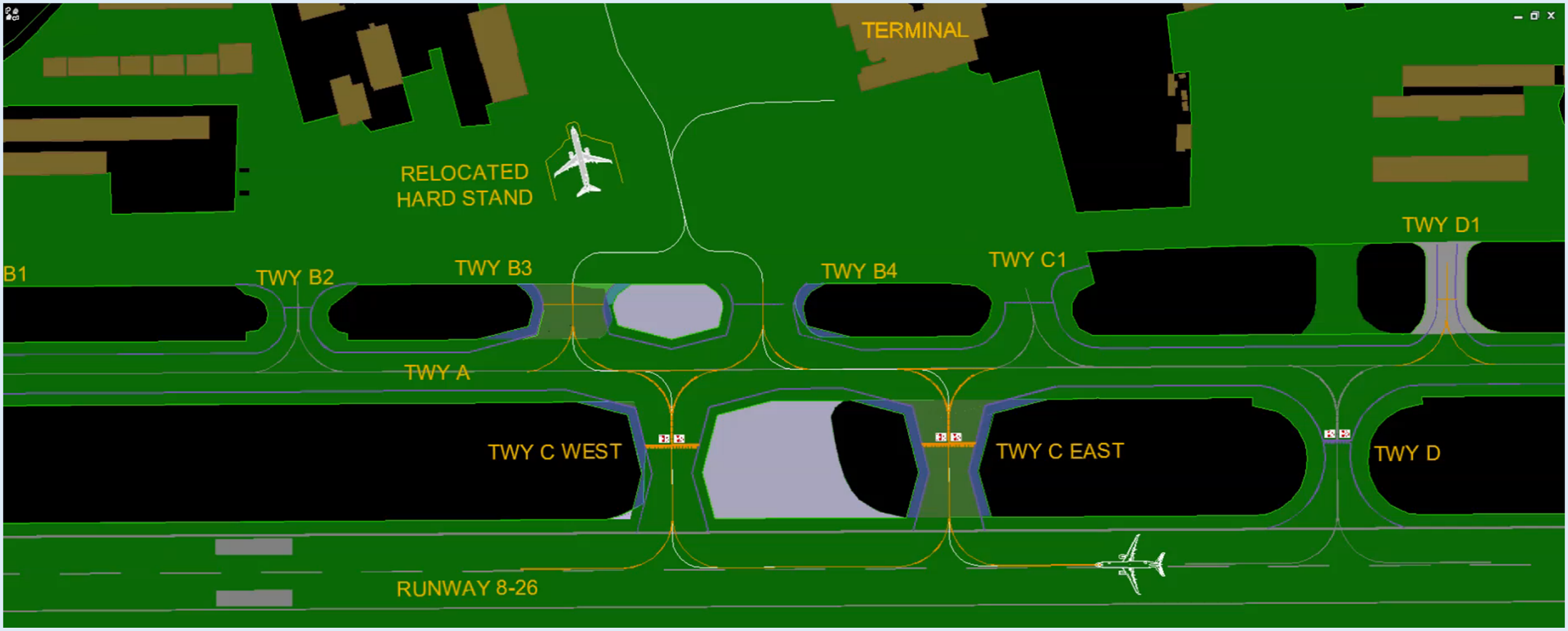
- Meets current airfield design standards.
- Optimizes the configuration based on the aircraft fleet.
- Improved ATCT flexibility and airfield efficiency.
- Increase situational awareness and aircraft performance



# Taxiway C Maneuverability – Scenario Two



# Taxiway C Maneuverability – Separation



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# Option 3 – Preferred Solution