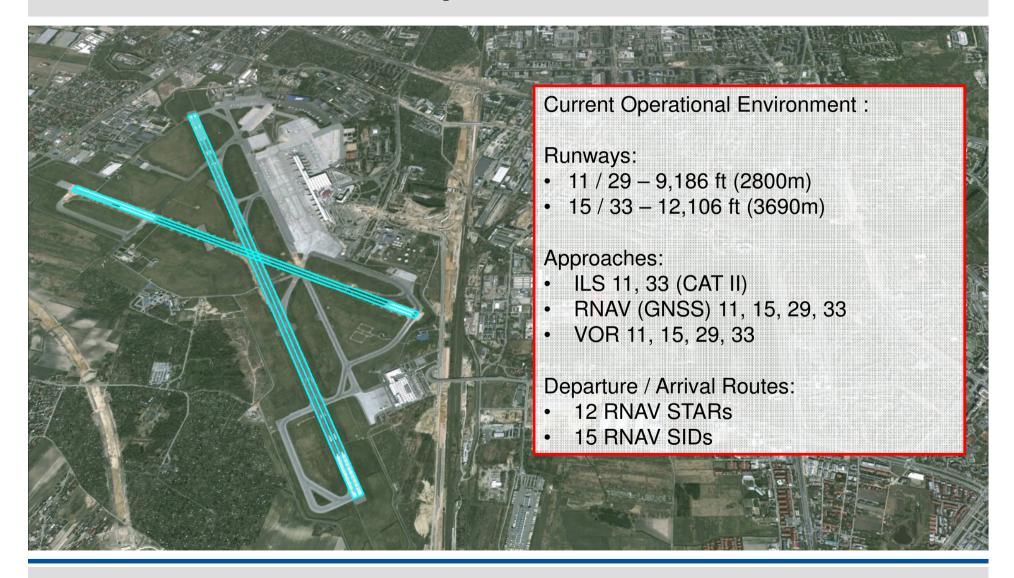


# **PBN Concepts – Warsaw, Poland**

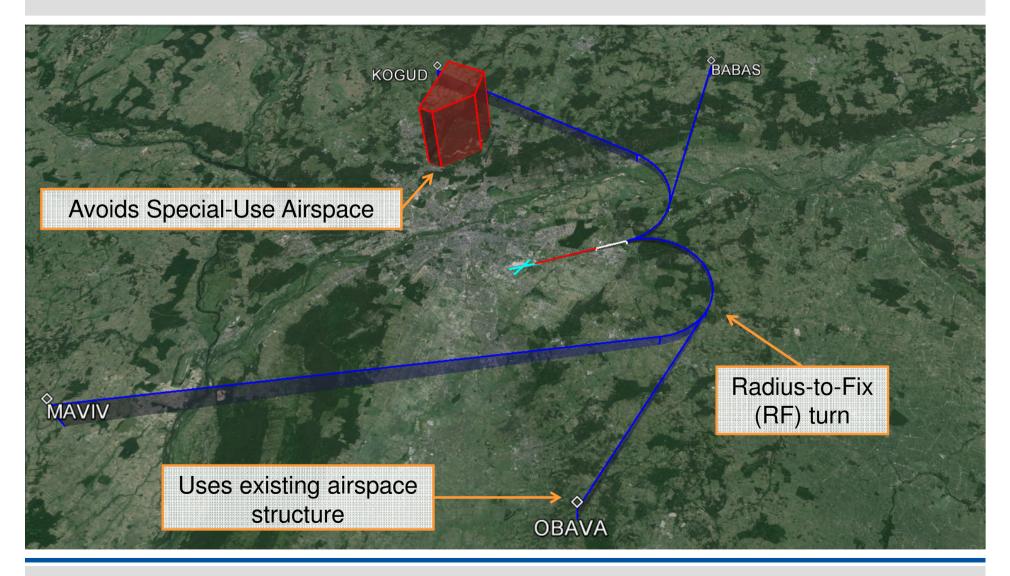


#### **WAW Current Operational Environment**



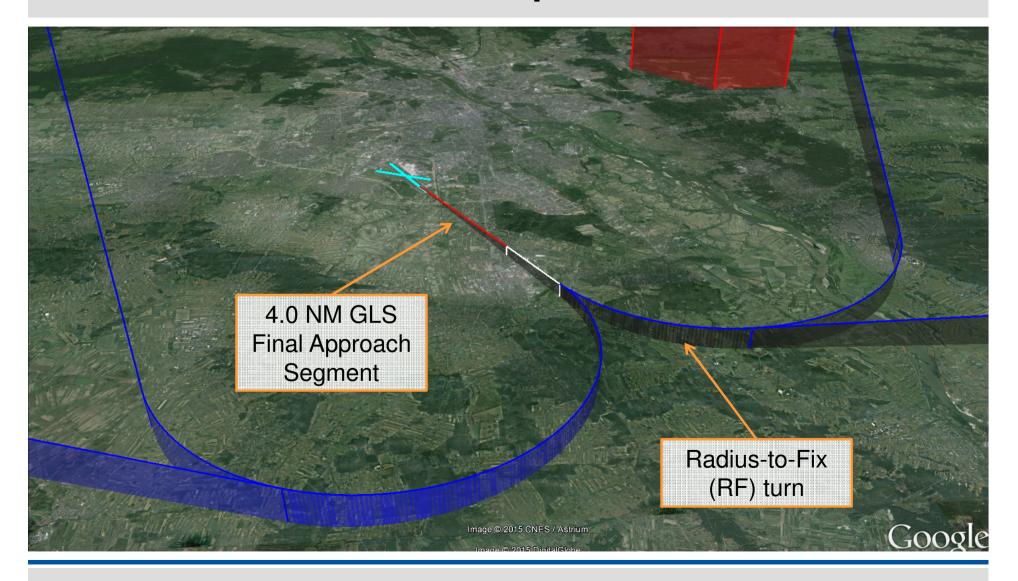


# WAW Concept GLS 33



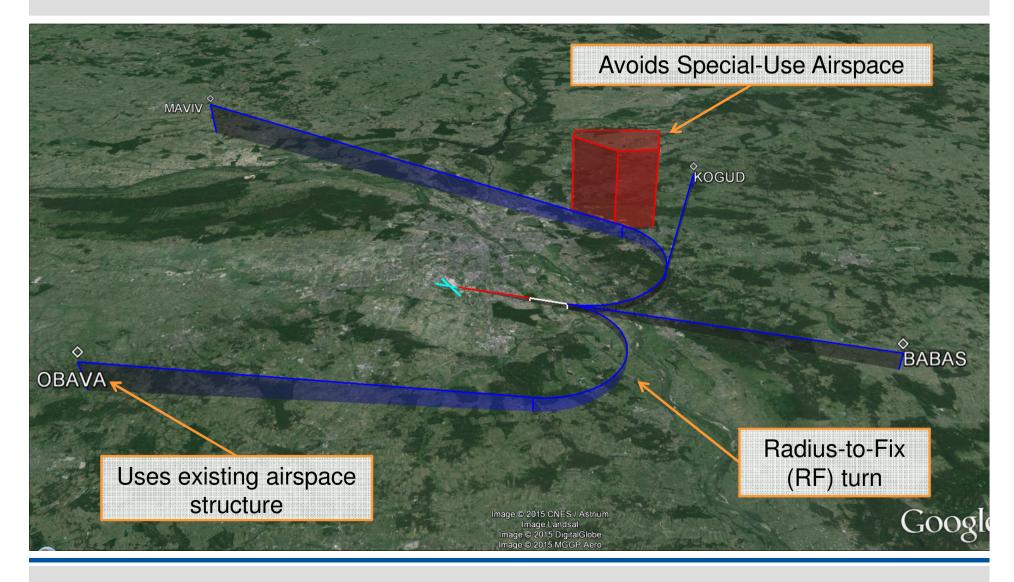






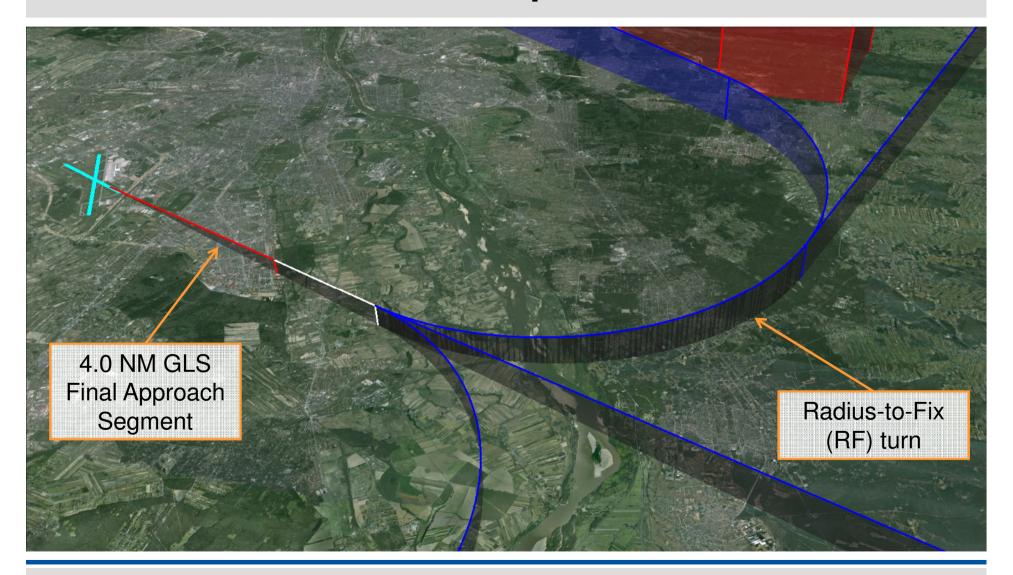


#### **WAW Concept GLS 29**





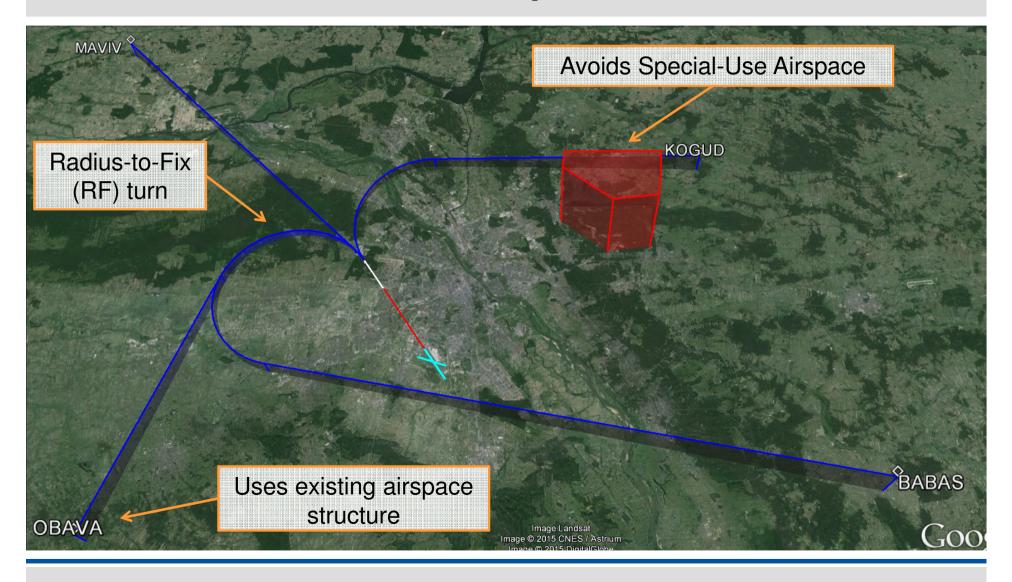






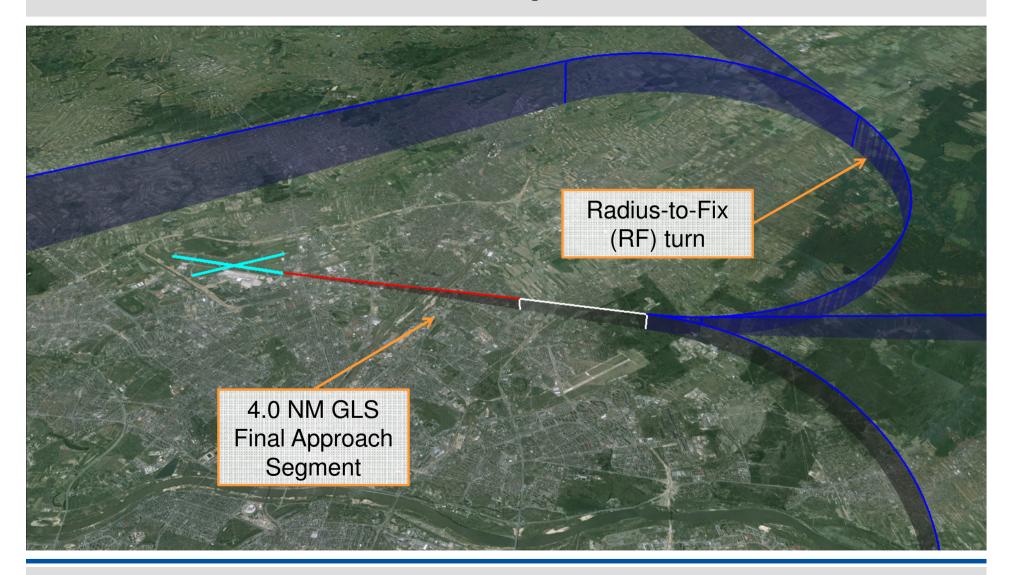
→ Honeywell.com

#### WAW Concept GLS 15





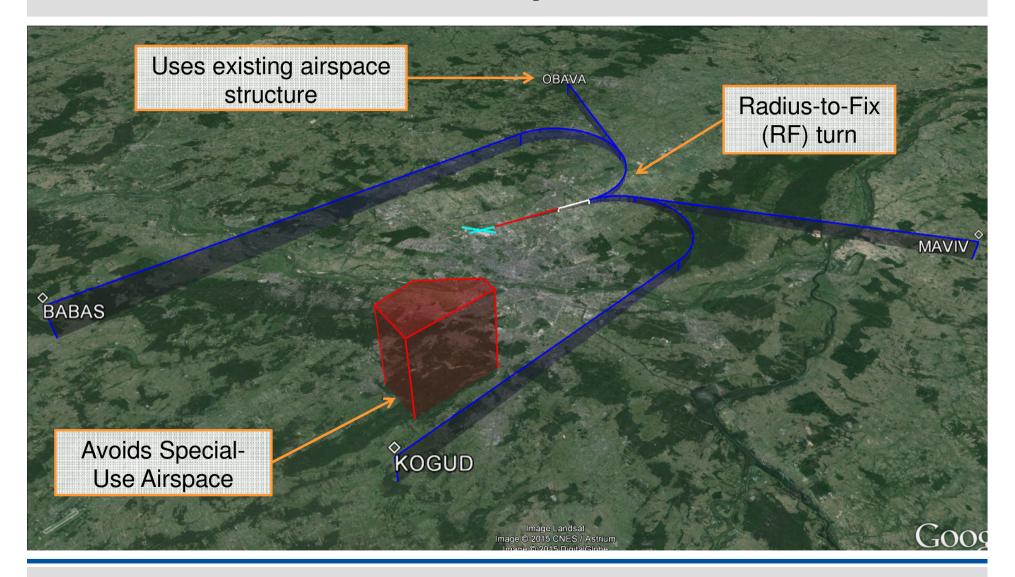






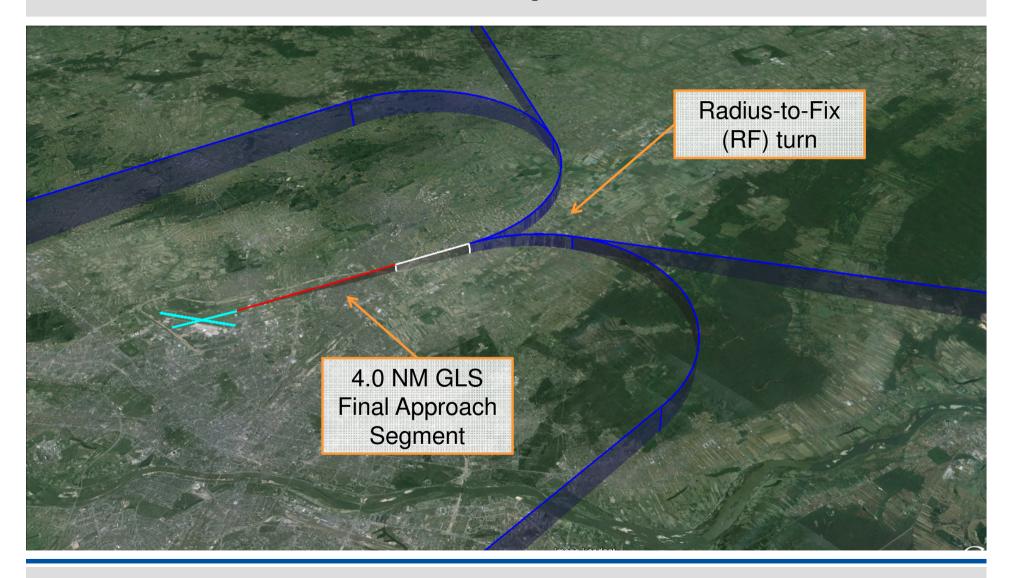
→ Honeywell.com

#### WAW Concept GLS 11



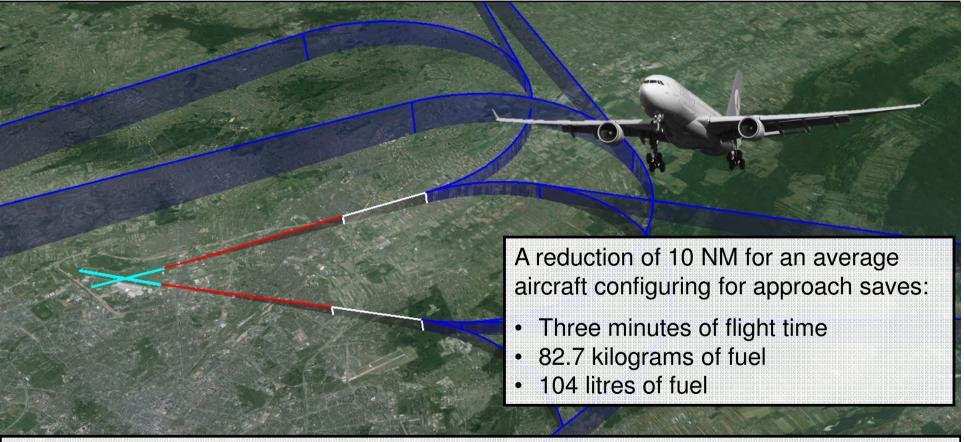








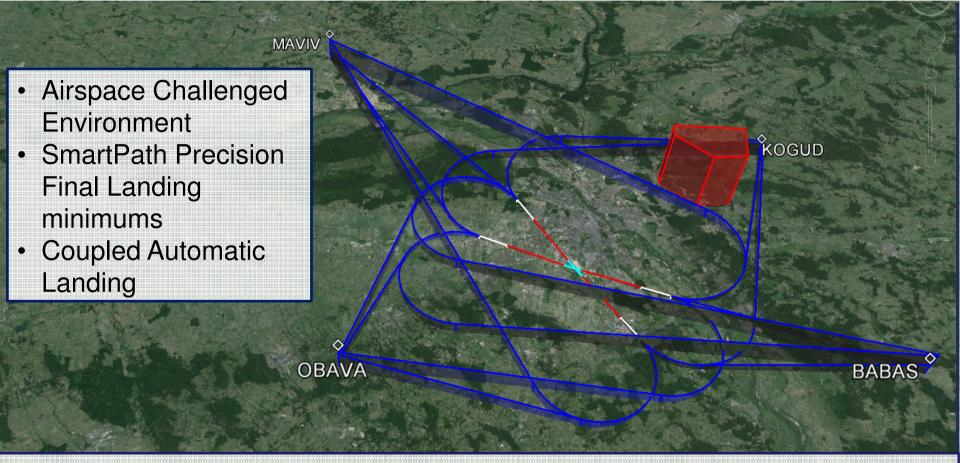
# **PBN Fuel Savings**



RNAV (RNP) can curve the final approach to begin on the downwind leg and provide lateral and vertical guidance to the runway end or to a GLS intercept.

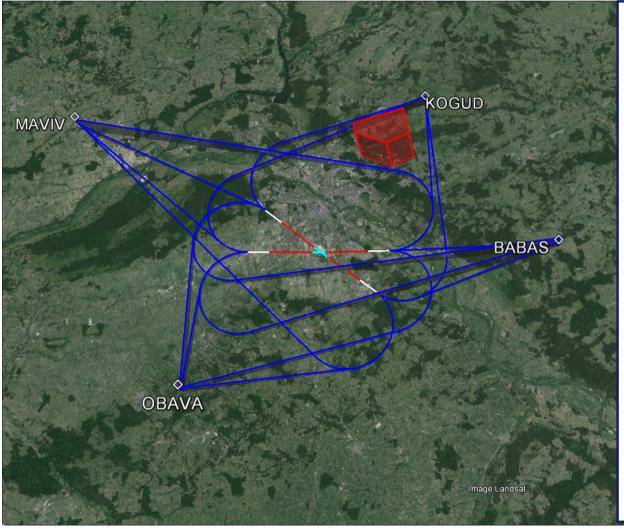
A GNSS approach with a 4 NM final would save 10.6 NM per flight.

# **WAW Concept Overview**



GBAS/GLS procedure will connect seamlessly into existing airspace structure using a Continuous Descent Approach STAR to provide a precision straight-in approach.

# **WAW Concept Overview**



# Improved Access to Airports & Airspace

Enabling better access to:

- Terrain challenged airports
- Congested airspace
- Airports in the vicinity of restricted airspace

#### **Efficiency of Operations**

- Time and fuel savings
- Shorter, more efficient routes
- Improved noise footprint

#### **Stabilized Approach**

- Defined lateral and vertical flight paths
- Enhanced situational awareness
- Guided missed approach procedures