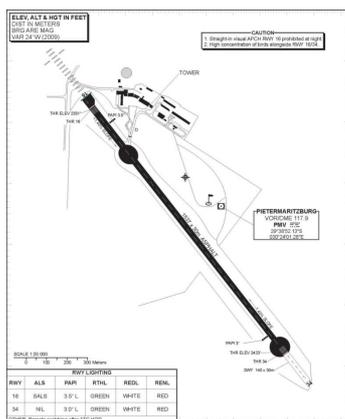


Pietermaritzburg - Oribi Airport

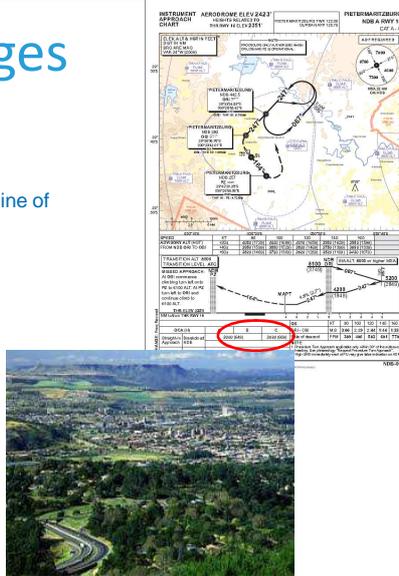


- Single runway 16/34, 1537 X 30 M
- NAV AIDS – 1 X VOR/DME, 3 X NDBs
- Instrument Approaches – 2 NDB procedures (High Minima 650', Dive and Drive)
- Many missed approaches and diversions

ICAO CAPACITY & EFFICIENCY

Challenges

- NDBs obsolete (50+ years old) – un-reliable
- Step down NDB procedures – dive and drive
- Airport in a bowl – high ground on extended center-line of Rwy 16)
- Obstacle rich environment (transmission mast on extended center-line of Rwy 16)
- Bad Weather runway – Rwy 16
- Bad Weather cloud base < existing NDB minima
- Many flight cancellations and/or diversions
- Un-reliable air service for the flying public
- Airport not financially viable



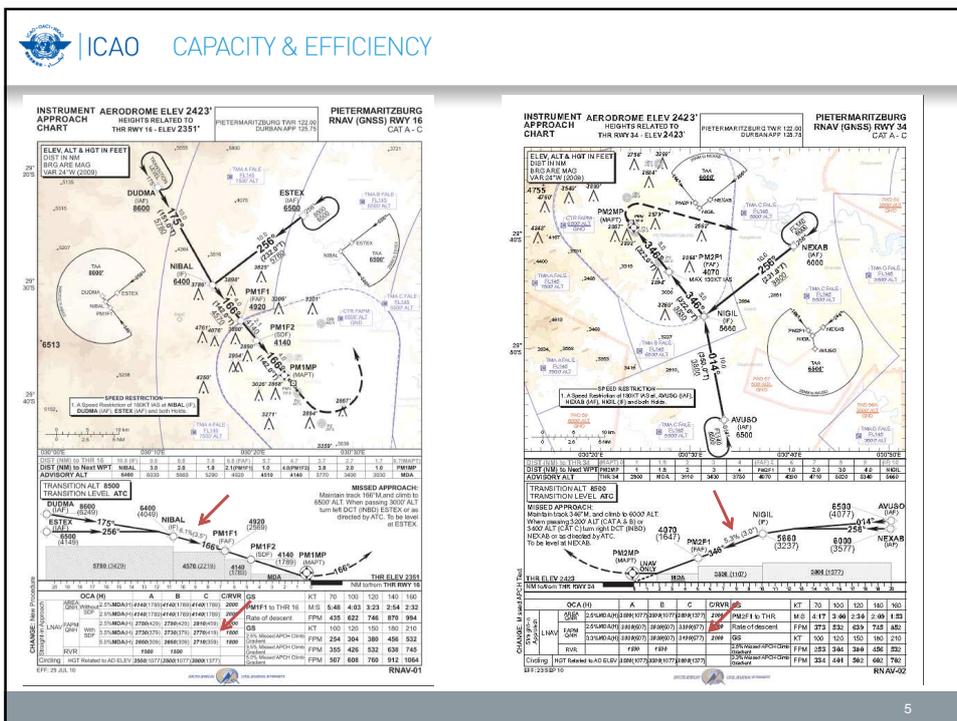
3

ICAO CAPACITY & EFFICIENCY

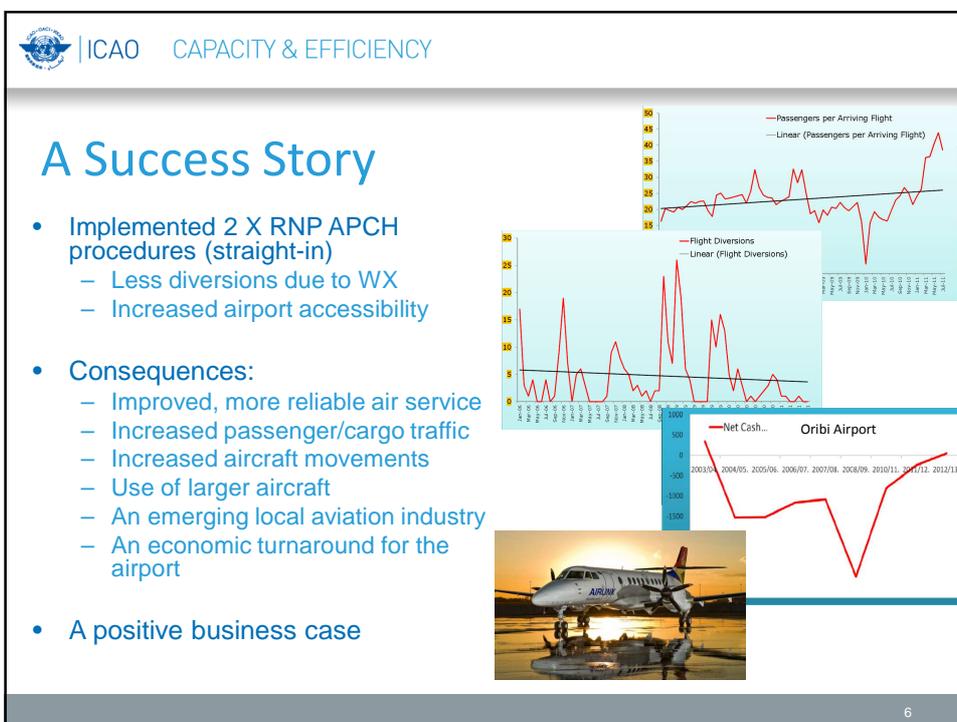
The Solution

- Design straight in PBN procedures
- 2 X RNP APCH (GNSS) - LNAV
- Initial assessment indicated improved minima over existing procedures
- Improvement in airport accessibility attainable
- Operators supportive and RNAV capable

4



5



6