

# Interference: Building Resilience.

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# GNSS Interference: A global problem

- GNSS Interference, even if currently more prevalent in certain regions of the world, poses a global threat to positioning, navigation and timing (PNT).
- PNT is highly standardized and harmonized across the globe.
- Global threats therefore require globally standardized and harmonised solutions:
  - Regulatory harmonisation: ICAO & Aviation Regulators.
  - Standardisation: EUROCAE, RTCA and other SDOs.
- Building resilience requires a global approach.

# GNSS Interference: Not just a GNSS problem

- GNSS is one navigation aid amongst many other navigation aids.
- GNSS offers highly accurate, high integrity and convenient PNT solutions.
- Impact of interference more severe due to:
  - High level of integration of GNSS in aircraft architectures and cascading effects of erroneous outputs.
  - High level of dependency in aviation ecosystem: PBN.
  - Its vulnerability to interference.
- Building resilience requires more than a “fix” to the GNSS receiver.

# GNSS Interference: Tip of the iceberg?

- What we witness is not just GNSS Interference.
- We witness the collateral effects of Electronic Warfare (EW).
- Some questions to also ask ourselves should be:
  - What other systems could be affected by EW?
  - What if other radio-navigation aids would be targeted?
  - Are our certification criteria, e.g. for High Intensity Radiated Fields (HIRF), still adequate?
- Building resilience requires a broader view on countering EW.

# Thank you.

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