Parallels in History

- Mid 1970’s - commercial jets suffered 3.5 crashes a year flying into terrain
- Controlled Flight into Terrain (CFIT)
- 1974 first GPWS implemented
- Fatalities in U.S airspace dropped to near zero
Parallels in History

• EGPWS developed in 1990’s
• Mandated on all commercial jets
• EGPWS equipped jets – zero fatalities from CFIT
Parallels in History

- HTAWS employs EGPWS technology
- So why don’t we have it in every helicopter?
- Another parallel in history ......
Parallels in History

• Collision avoidance – very similar history
  • Epidemic problem in commercial jets
  • Solution developed by avionics companies (TCAS)
  • Resistance from operators because of cost
  • Government mandate for implementation
  • Mid air collisions are a thing of the past
Parallels in History

• A word about Night Vision Goggles – A huge improvement

• Limitations
  • Narrow field of view
  • Lack of color inhibits situational picture
  • Physically cumbersome

• Not the ultimate solution
Parallels in History