

# Networked Flight Simulators and Loss of Control

MINDSTAR AVIATION

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Presentation for NTSB

# Introduction

**Stasi Poulos – President / CEO**

# Mindstar Companies

**Mindstar Productions**

**Mindstar Aviation**

**Mindstar Global Solutions**

**Mindstar Community**

**RealNav Data**

# Flight Simulator Products

- **G1000**
- **GNS 430/530**
- **Avidyne Entegra**
- **Proline 21**
- **Autopilots, Radios and GPS Units**
- **RealNav™ Data**

# AATD – King Air 350



# AATD / Sim for VFR Training

- **We aren't just vendors, we are customers.**
- **4 flight schools at Leesburg**
- **Part 61 and Part 141**
- **3 Redbird AATDs, 1 Redbird BATD**
- **Look beyond loggable limits (VFR & IFR)**

# VFR Training with AATD

- **AATD for Current VFR Pilots**
  - What if it “feels” wrong?
  - Example 1: LOC on short final
  - Example 2: 172 Carrier Landing OSH15
  
- **AATD for Primary Students**
  - Instrument – mandatory 10 hours.
  - VFR – The “Pre-Solo” Solo



# *Airspace VR*

**Flight Simulator  
Communication Network**

# Loss of Control

- “Shenandoah Sortie”
- VFR into IMC Loss of Control Scenario
- S.A.F.E.
  
- Will the pilot turn around?
- Will the pilot contact ATC for help?
- Will the pilot confess their situation?
- Will the pilot be prepared for the accident chain?

# AirspaceVR Air Traffic Control



# Testing the Scenario

- **Washington DC Metro Area – April '15**
- **Oshkosh AirVenture – July '15**
- **Learn – Do – Fly – October '15**

# Initial Conclusions

- **80% Failed to turn around early**
- **Fewer than 30% called for help**
- **VFR pilot resistance to using radio**
- **Pilots not prepared for a secondary failure**
- **Some percentage “followed roads they knew”**

# Contact Information

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