

Speech Recognition Interfaces Improve Flight Safety



Langley Research Center

**VoiceFlight Systems LLC
Troy, NY**

NASA Technology

- ◆ Manually inputting letters on a GPS for flight plans can be distracting for pilots who should have their eyes on the gauge and the sky.
- ◆ NASA's Vehicle Systems Safety Technology (VSST) at Langley supports new ways to mitigate aircraft safety risks.

Technology Transfer

- ◆ Through Small Business Innovative Research (SBIR) funding, the company that would become VoiceFlight created speech recognition software that interacted with GPS aviation devices.
- ◆ Using their voices, pilots enter waypoints ten times faster than those using traditional knob-turning devices.



Benefits

- ◆ In 2009 VoiceFlight's speech recognition technology was the first to be certified for use in civilian aircraft by the Federal Aviation Administration (FAA).
- ◆ In 2011 the company launched its products for use on smaller civilian planes, such as the Piper Arrow, Beechcraft Baron, and the FJ-4 Fury.