Company Profile and Project Summary

Presentation to BDC





Owner Background



- Over 17 years of aircraft air systems experience.
- Contributed to Global Express, Q400, Challenger 300, A380, Global 7000 and C Series programs.

- B.Eng. & M.Eng. (Aerospace)
- P.Eng. with PEO, SRS has PEO Certificate of Authorization.
- TC Commercial Pilot Licence



Photo courtesy of Bombardier Flight Test Center



The Specific Range Solutions Story...

Eight years ago in Toulouse:

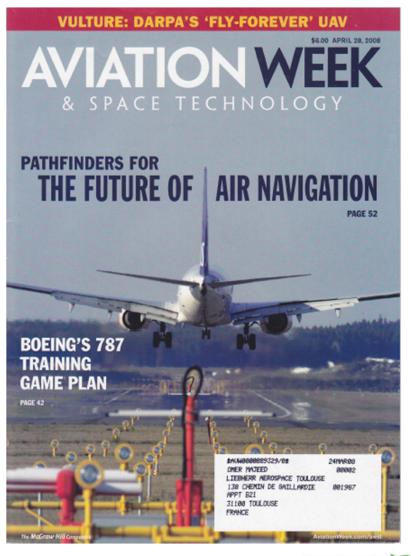
- Omer: A380 bleed air systems engineer and project manager.
- Developing conversation within industry regarding means to increase operational efficiency and to reduce environmental impact.

> Why?

- Increasing fuel prices.
- Recognition of aviation's impact on climate change.

Today in Ottawa:

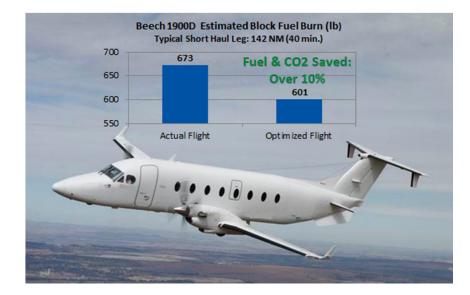
Two engineers, leading two R&D teams, working on four projects.



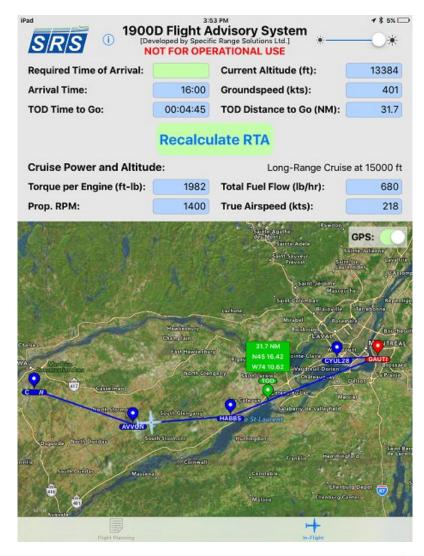


Project 1: iPad-Based Flight Advisory System (FAS)

- Enables operators of commercial turboprops to reduce fuel burn and emissions by up to 10%.
- \$50k contract pending with an Air Canada partner airline.
- \$80k GARDN II Round 4 proposal submitted on December 2, 2016 (gardn.org).



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Project 2: iPhone-Based Engine Noise Diagnostic App

- Enables Field Service Representatives (FSR) to accurately and rapidly identify the source of abnormal aircraft engine noise.
- Demonstration app has been developed with internal funding.
- \$25k contract pending with an engine manufacturer.
- Market exists for a suite of FSR apps.



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Project 3: Aircraft Cabin Air Quality Sensor

- A large international airline receives multiple crew reports per day regarding cabin fumes and smells.
- There is no objective and cost-effective means to identify the source of fumes.
- These events can lead to expensive diversions and troubleshooting; e.g. British Airways A380 diversion to Vancouver on October 25, 2016.



Maintenance crews have been unable to determine the source of the fumes that caused British Airways Flight 286 to make an emergency landing in Vancouver last week. (Ryan Stelting)

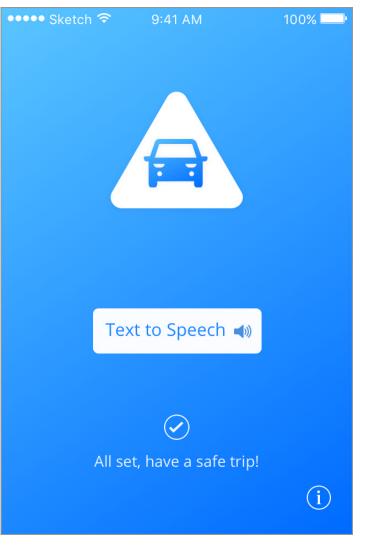


- SRS has developed and tested two sensor prototypes, in collaboration with Xogenus, Carleton University and the NRC.
- SRS is planning to design and build a third "flight ready" prototype for airline evaluation.
- Market is estimated at \$26 million/year.



Project 4: iPhone-Based App to Reduce Distracted Driving

- In 2014, here were 1,834 fatalities and 149,900 injuries due to traffic accidents in Canada per Transport Canada statistics.
- It is estimated that distraction is a factor in 20% to 30% of all traffic accidents.
- SRS is developing an app for sale on Apple's App Store to reduce the risk of distracted driving.
- High market potential.
- This project is the basis for SRS' latest BDC loan application.



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