

FEDERAL AVIATION ADMINISTRATION

TECHNOLOGY TRANSFER PROGRAM

NEWLY IMPLEMENTED

COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRDA)

The FAA has recently entered into a Cooperative Research and Development Agreement (CRDA) with Presearch, Inc. The collaborative research is in security and communications.

Presearch has developed and supplied digital video transmission and display equipment for a variety of applications for more than 10 years. Presearch transmission technology include live video with very low bandwidth requirements; evidentiary picture quality; secure transmission and robust; and security grade performance.

After 9/11, Presearch advanced the premise of transmitting live video from an aircraft in flight to ground in emergencies using on-board communications to provide authorities with near real-time situational awareness. After on ground testing and evaluation, it was demonstrated that the Presearch technology actually could provide secure, high quality video using bandwidths as low as ordinary cell phones. The objectives of this research to demonstrate the utility of the Presearch video technology from an aircraft in flight to the ground utilizing available, on-board aircraft communications channels.

The Government's Principal Investigator is Teri Lowe at (609) 485-5053 located at the FAA William J. Hughes Technical Center, Atlantic City International Airport, N.J. The Principal Investigator for the Collaborating Research Organization is Ronald McKenzie, 8500 Executive Park Avenue (703) 876-6650.

This CRDA was awarded on January 27, 2004, and has a duration of 12 months. The results are expected to be a proof-of-concept bringing to bear the Presearch video domain knowledge, technology and equipment.

If you have any questions regarding this CRDA, please contact Deborah Germak at (609) 485-9862.