

Next Generation Aviation Research and Technology Park

Overview Briefing for: **Verification and Validation Summit 2010**

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Executive Director

Introduction

- Industry, academia, and government collaboration dedicated to the advancement of aviation sciences through private and public research and development activities
- State-of-the-art, high technology, integrated, dynamic research environment
 - Focuses on technologies and innovations for domestic and global aviation
 - Works close with the FAA William J. Hughes Technical Center
 - Integrates with the FAA research facilities and laboratories



Stakeholders

- Congressman Lo Biondo
- Aviation Research & Technology Park Board of Trustees:
 - Stockton College
 - Atlantic County
 - South Jersey Economic Development District
 - Casino Reinvestment Development Authority
 - New Jersey Economic Development Authority
 - South Jersey Transportation Authority
 - Private Members
- Federal Aviation Administration
 - Advisor to ARTP, Inc. Board
- NJ Congressional Delegation
- Large and Small Companies in Aviation and Related Industries

Vision

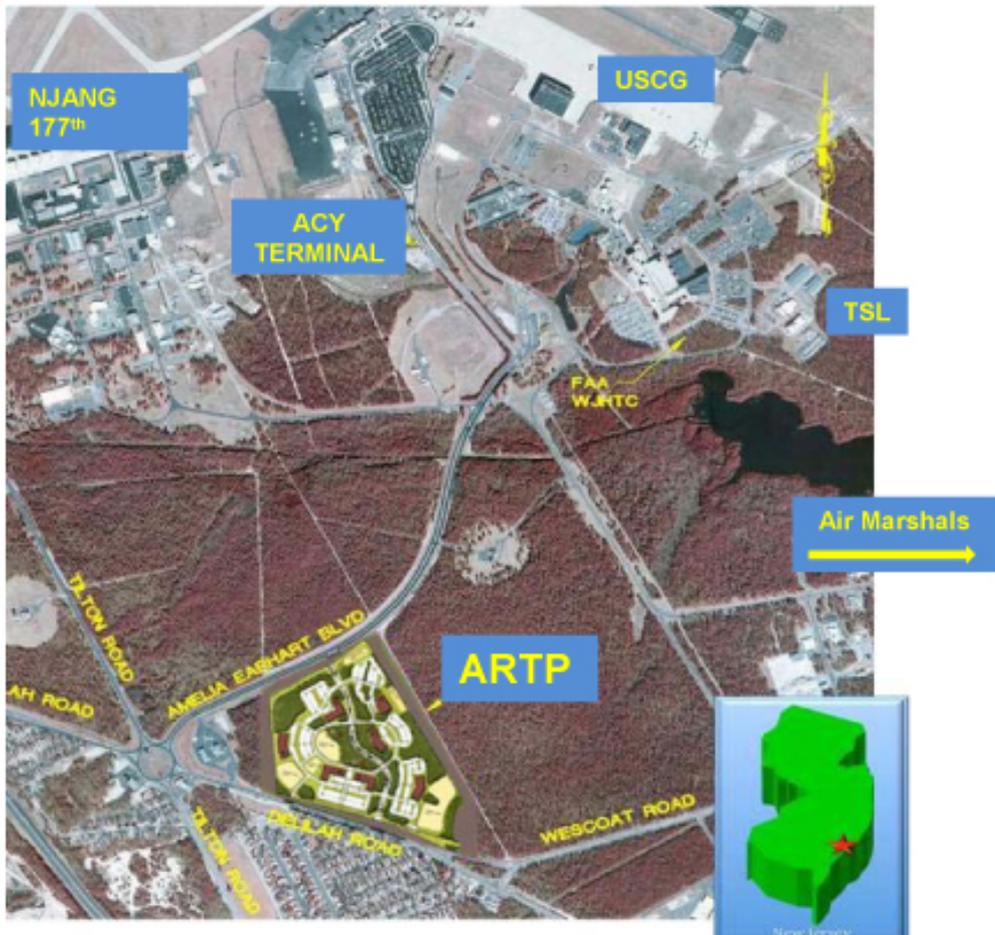
The Next Generation Aviation Research and Technology Park will emerge in New Jersey as a collaborative, full-service, aviation research facility capable of supporting advanced research and development, product commercialization and innovation, and operations research for the international aviation community.

Features

- 58 acres leased from the FAA William J. Hughes Technical Center
- 7 multi-story buildings with over 400,000 square feet of research facilities at an estimated cost of more than \$300 million
- Expected to employ 2,000 workers
- Advanced communications infrastructure throughout the park
- Connectivity to FAA data, systems, and laboratories
- Federal laboratory inside the park
- Small business incubator facilities
- Part of the FAA Technical Center campus



Location



Aviation Research and Technology Park, Inc. → 501 Tilton Road → Egg Harbor City, NJ 08215
www.NextGenAviationPark.Org

Research Initiatives

→ Collaborative Activities

- Advanced technology assessments
- Product incubation and innovation
- Prototype development and assessments
- Product commercialization
- Operational readiness assessments
- Proof-of-concept studies
- Operations research
- Verification and validation



→ Planned Laboratories

- FAA gate-to-gate simulation lab
- Airport simulation facility
- Cyber security lab
- Airport integrated data fusion lab
- Member proprietary labs



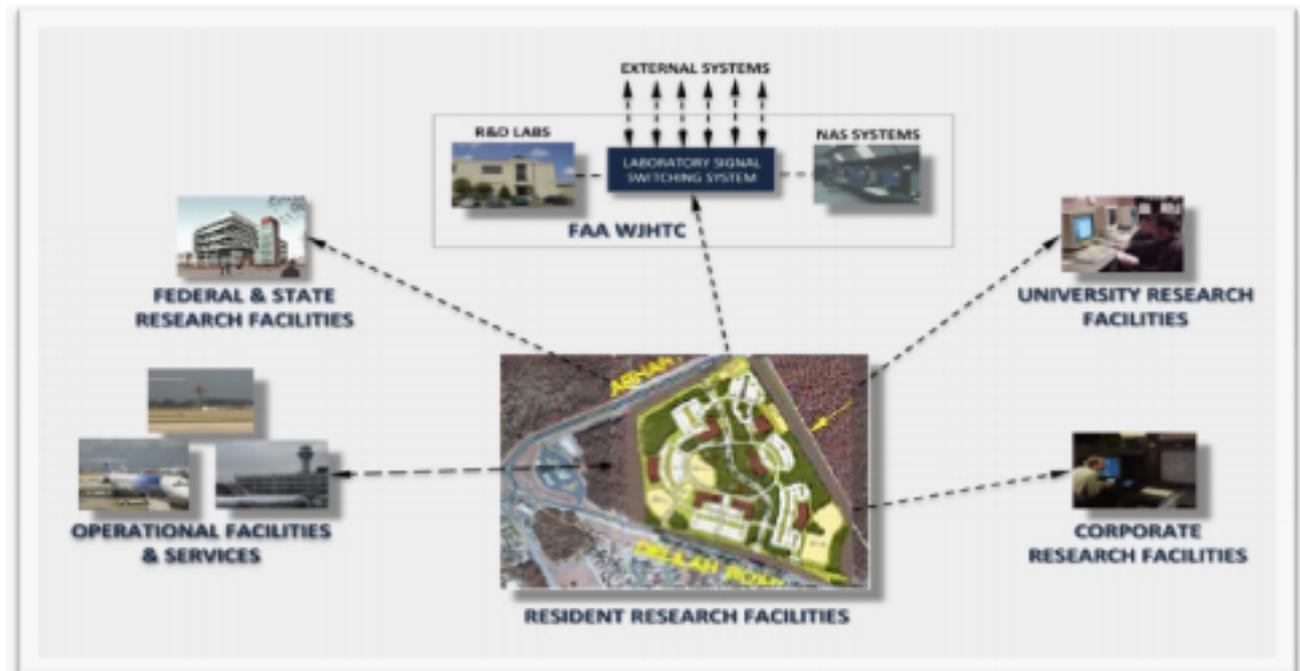
SE 2020

- SIR 1 - Research and Mission Analysis
 - Boeing Aerospace Operation Inc.
 - General Dynamics
 - ITT Advanced Engineering and Sciences
 - Metron Aviation
- SIR 2 – Systems Engineering
 - Booz Allen Hamilton
 - CSSI, Inc.
- SIR 1 and SIR 2 - Cross Cutting Techniques
- Ceiling of \$6.5 billion

The Next Generation Aviation Research and Technology Park can help support verification and validation of NextGen performance.

Research Environment

- ➔ Private research facilities
- ➔ Integrated laboratory will consist of many integrated systems within the global aviation system that can create a realistic operational environment and support verification and validation activities

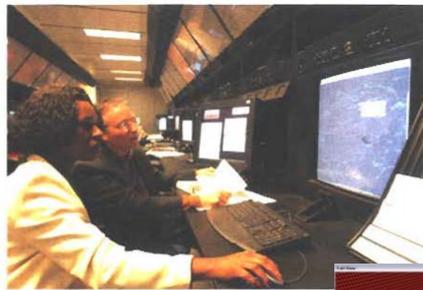


Target Members

- Academia
- Government organizations
- Aviation engineering industry
- Aviation support industry
- Commercial airlines
- Business aviation
- General aviation
- Pilot organizations
- Airports and airport organizations
- Aviation-related associations
- Business support organizations

Technical Center Campus

- ➔ FAA Technical Center is the place where NextGen will come together – integration must be verified and validated, individually and collectively
 - Access to the Technical Center's expertise
 - Access to the Technical Center's systems and air traffic control laboratories



Technical Center Campus (cont.)

→ Among other aviation partners

- NJ Air National Guard 177th Air Wing
- Federal Air Marshal Services Training Facility
- U.S. Coast Guard Station Atlantic City
- Department of Homeland Security
Transportation Security Lab
- Atlantic City International Airport (ACY)



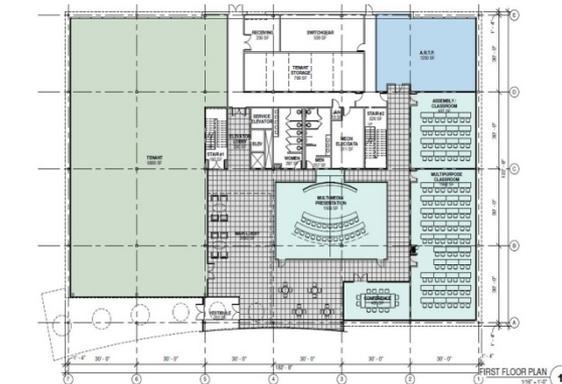
Current Status

- Casino Reinvestment Development Authority (CRDA) approved two grants valued at more than \$3.5M for the park
- South Jersey Economic Development District (SJEDD) received more than \$15M in bonds created as part of the Stimulus Bill of 2009
- Site work is underway and will be completed by October 2010



Current Status (cont.)

- ➔ Architect selected for the first building
 - Award of construction contract by October 2010
 - Construction expected to begin in early 2011
 - First building will be completed in fall of 2011
- ➔ Currently seeking members and tenants
- ➔ Actively submitting grant requests for infrastructure and research projects
- ➔ Developing collaborative research projects with future members/tenants



Infrastructure Work in Progress

← William J. Hughes
Technical Center

Next Generation
AVIATION RESEARCH & TECHNOLOGY PARK

Final Site Plan



Contact Information

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