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System F6 Proposers' Day

04 October 2010

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Agenda

Time*	Briefing	Speaker
1145	Webcast Commences	---
1200	Webcast Intro & Instructions	David Fishman, Booz Allen Hamilton
1205	DARPA & TTO Intro	Dave Neyland, Director, DARPA/TTO
1220	Q&A	
1230	DARPA BAA Process	Chris Glista, Contracting Officer, DARPA/CMO
1250	Q&A	
1300	System F6	Paul Eremenko, Program Manager, DARPA/TTO
1400	Break	---
1415	Q&A	Paul Eremenko, Program Manager, DARPA/TTO
1515	Online Proposers' Forum	David Fishman, Booz Allen Hamilton
1530	Webcast Concludes	---

** All times EDT (GMT-4)*

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Webcast Instructions

- Location
  - http://www.livestream.com/darpaproposersday
  - Password: SystemF6PD
  - Adobe Flash Player is required
- Chat room
  - Enables attendees to exchange messages in real time
  - Please include your full name and organization in your chat room "nickname"
- Questions
  - DARPA will monitor questions in the chat room; questions directed to the speaker may be asked by marking the question red and preceding it with a [Q]
  - Questions may also be e-mailed to david.fishman.ctr@darpa.mil
  - Questions will be answered by each speaker following their briefing
- Webcast playback
  - The webcast will be recorded and will be available for playback
  - Playback site access instructions will be e-mailed to all registered attendees
  - A link will also be posted on the System F6 website and on FedBizOpps

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System F6

Proposers' Day

Mr. Dave Neyland
TTO Director

- Arlington, VA
- OCTOBER 4, 2010

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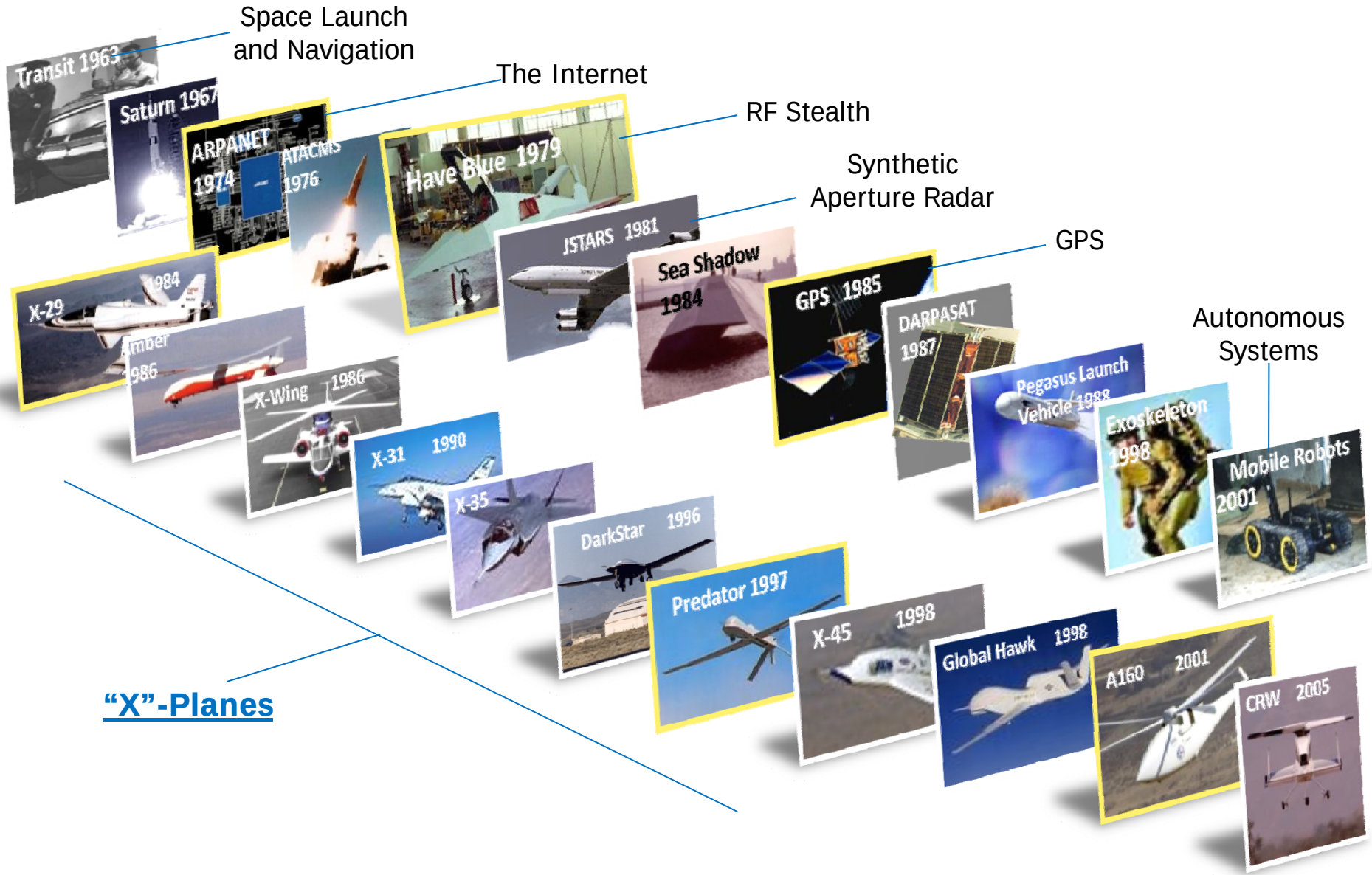
Assortment of DARPA Accomplishments



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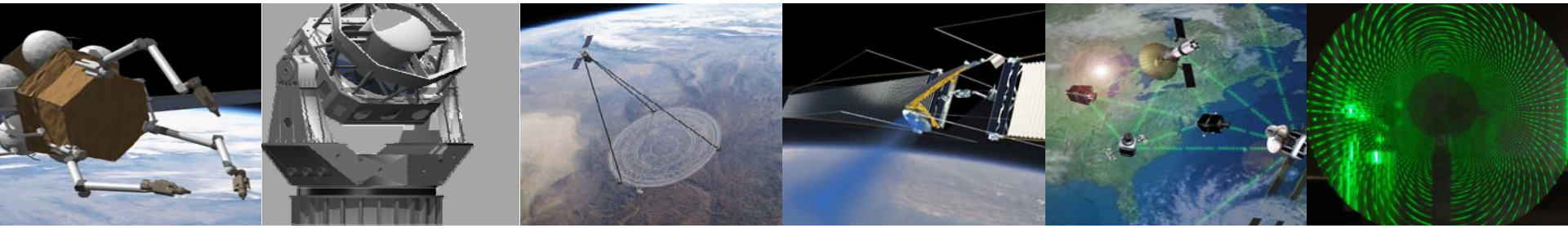
Focus Areas



Transforming the future of warfighting by pursuing high-risk, high-payoff tactical technology and development of rapid, mobile and responsive combat capability

Unmanned Systems

Navigation dynamic conditions, extend range/endurance, adaptive autonomous operations

X-Planes

Multiple missions and operating conditions, innovative systems and flight control technologies

Manned Systems

Mobility, responsiveness, survivability, reliability, and supportability

Stability

Detect, warn, characterize
Debris mitigation

Assured Access

Reliable affordable access robust, competitive domestic industries

Resilience

Human, robotic initiatives
Support against disruption, degradation, and destruction

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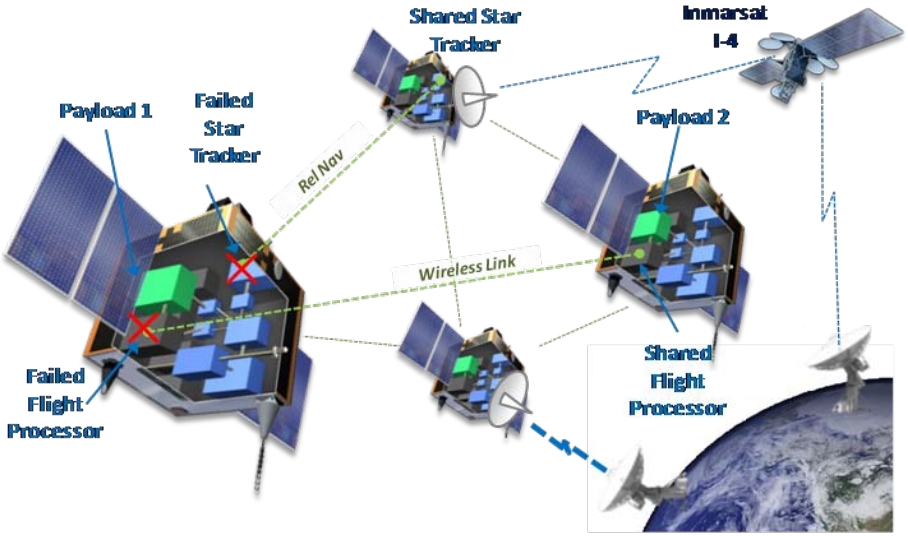
System F6



PROGRAM STATUS

- FY 2010 Plans:
  - Continue development of a persistent broadband terrestrial connectivity solution for low-earth-orbit fractionated clusters
- FY 2011 Plans:
  - Issue restructured solicitation for development of architecture standards, value-centric tools, cluster flight software and wireless communications architecture
  - Initiate prize-based challenges for new algorithms development
  - Complete development of interface standards and hold review
- FY 2012 Plans:
  - Develop cluster flight algorithms and wireless comms architecture
  - Begin development of one or more F6TPs and spacecraft buses
  - Deliver initial value-centric design-for-adaptability toolset
  - Identify launch opportunity

DESCRIPTION/DEFENSE UTILITY

Description

- Demonstrate the feasibility and benefits of replacing large monolithic spacecraft with a cluster of wirelessly-interconnected modules capable of sharing/utilizing resources found elsewhere in the cluster
- Development of a space-based transceiver to utilize existing Broadband global area network (BGAN) service of the Inmarsat satellite network

Defense Utility

- Offers increased adaptability, survivability, and responsiveness
- Provides improved robustness against natural and man-made threats
- BGAN allows for persistent communications for time-sensitive spacecraft control or critical mission data
- The anticipated transition partner is the Air Force; potential for transition to Army and Navy

PERFORMERS

PERFORMER:	LOCATION:

- TBD

Doing business with DARPA...

- ☑ Become familiar with the challenges and opportunities of the program.
- ☑ Put your ideas in writing. Draft a white paper.
- ☑ Communicate with the PM; he is the key to working with DARPA.
- ☑ Look for Requests for Proposals (RFPs) and Broad Agency Announcement (BAAs) solicitations at www.darpa.mil, www.darpa.mil/sbir, or www.fedbizopps.gov.
- ☑ Think boldly. Embrace risk.

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