

# Company Overview



# General Atomics Corporate Overview

## United States

San Diego, CA  
Denver, CO  
Washington, DC  
Ft. Madison, IA  
Tupelo, MS  
Lakehurst, NJ  
Grants, NM  
Oklahoma City, OK  
Ogden, UT  
Newport News, VA



## International

Adelaide, AU  
Canberra, AU  
Dresden, DE  
Lauchhammer, DE  
Lübbenau, DE  
Mittenwalde, DE  
Tokyo, JP  
Abu Dhabi, UAE  
London, UK

## Operating Groups

- GA - Electromagnetic Systems
- GA - Energy & Advanced Concepts

## Affiliated Companies

- GA Aeronautical Systems, Inc. (GA-ASI)
  - Aircraft Systems
  - Mission Systems
- GA Aeronautical Systems UK, Ltd.
- GA Australia
- General Atomics Global Corporation
- GA Systems Integration, LLC

## Affiliated Companies

- ConverDyn
- Cotter
- Diazyme Laboratories (GA Division)
- GA International Services Corporation
- GA Uranium Resources, LLC
- Heathgate Resources Pty, Ltd.
- Nuclear Fuels Corporation
- Rio Grande Resources Corporation
- Spezialtechnik Dresden & Subsidiaries



# The World's Benchmark

**3.6 Million total flight hours  
2015 – Over 550,000 flight hours**



**Every second of every day, over 60 Predator-series  
aircraft are airborne worldwide**

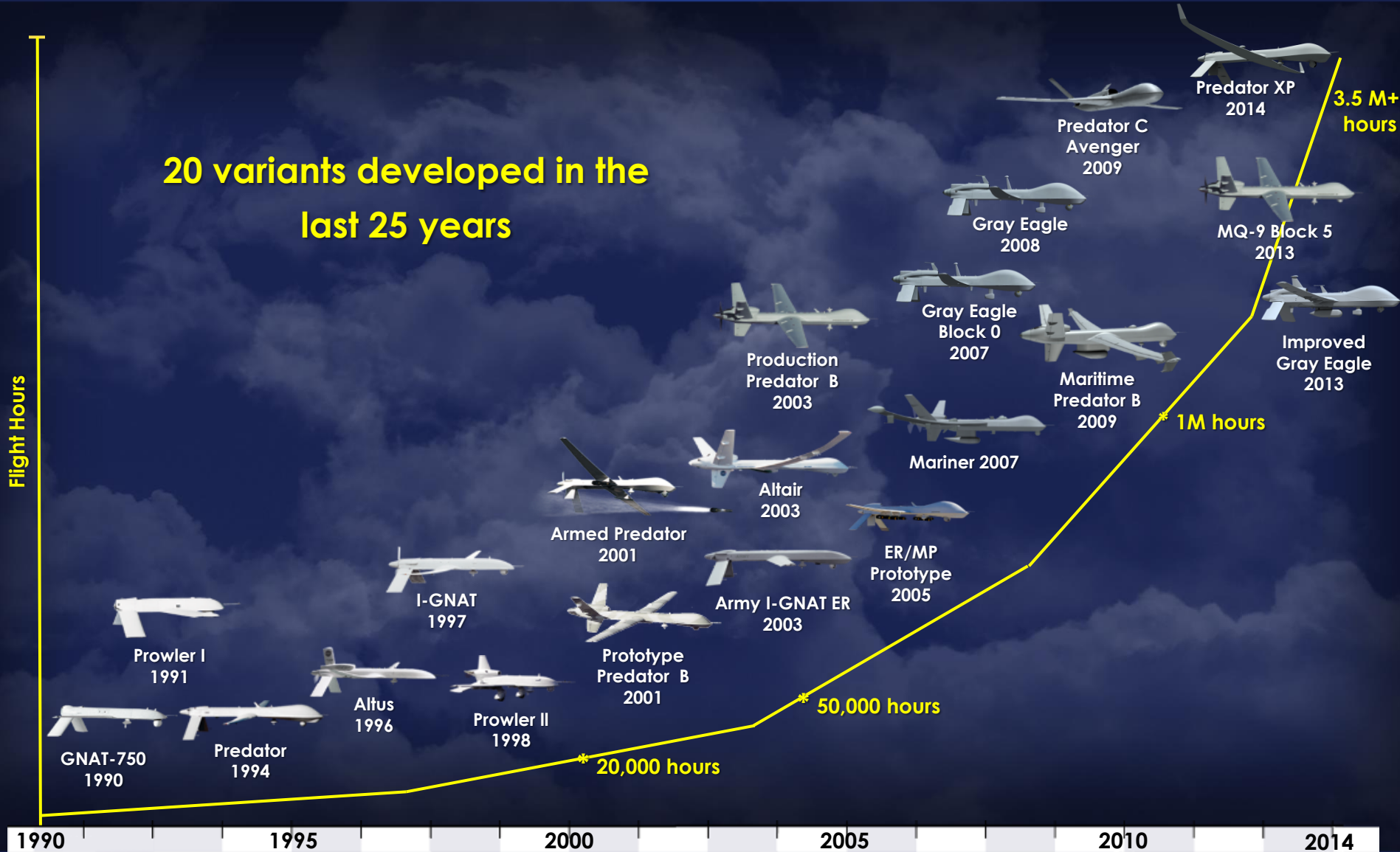
**Long Endurance**

**Mission Flexibility**

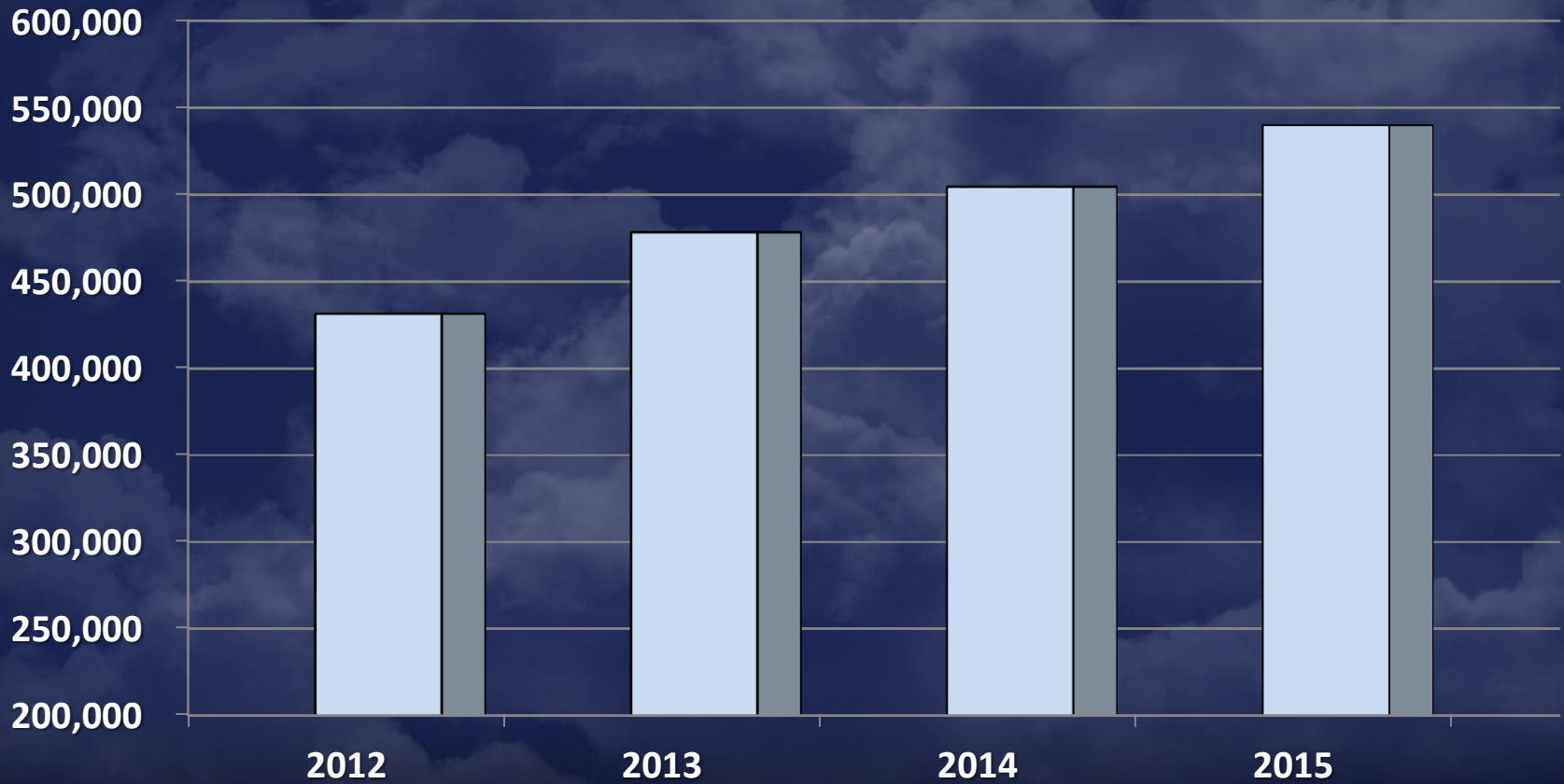
**Best Value**

# Growth and Evolution

20 variants developed in the last 25 years



# GA-ASI Flight Hour Growth 2012-2015



# Facilities



# Facilities Overview



**6,700+ employees**

**3.4M ft<sup>2</sup> (316k m<sup>2</sup>)**



# Production Areas

Composite Lay-up



Autoclave



Composite Assembly



Electronics Assembly



Cabling



Servo Shop



Machine Shop



Fabrication



Integration





# R & D Facility – Adelanto





# Flight Operations – Gray Butte



# Flight Operations – El Mirage



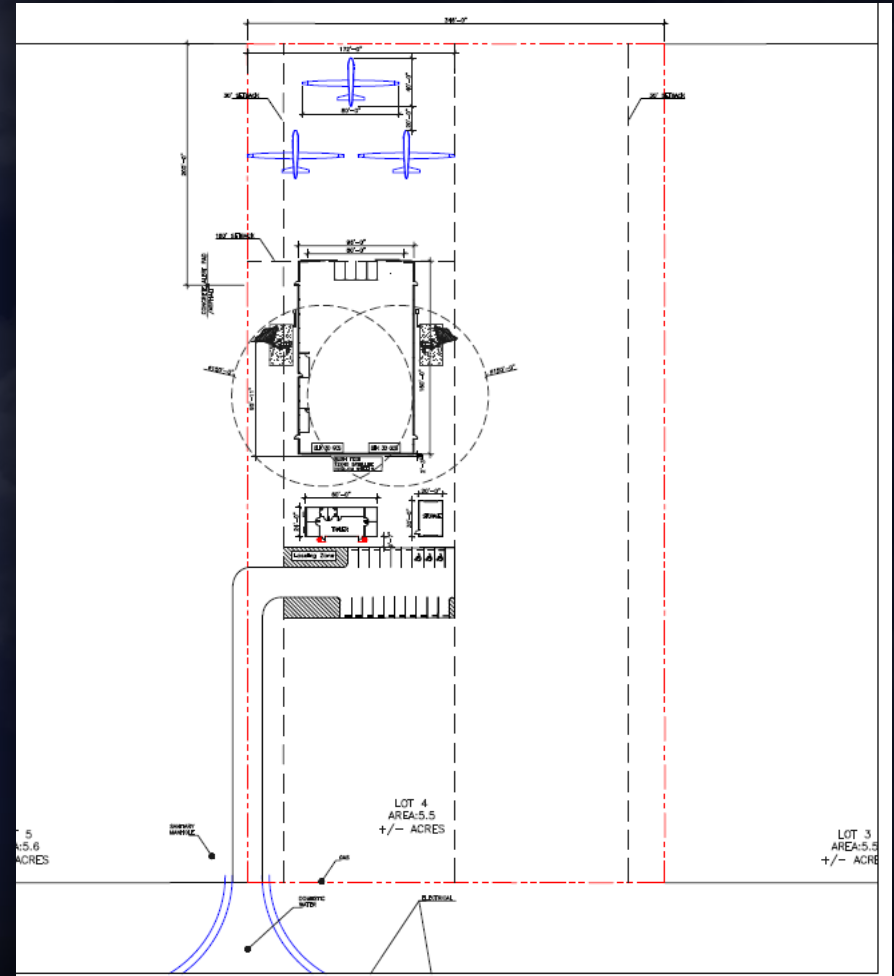


# GA-ASI Training Academy (Operational 2016)

- Accommodates rising demand by international customers
- Provides training to GA-ASI aircrews



Conceptual depiction



# RPA System

# RPA System



Two Line-of-Sight (LOS)  
C-Band Data Links

3-4 aircraft

Ground Control  
Station (GCS)



Beyond Line-of-Sight (BLOS)  
Ku SATCOM Data Link

Engine Stand

Wing Handlers

Fuselage Stands

Basic Tool Kits

Ground Support Equipment (GSE)

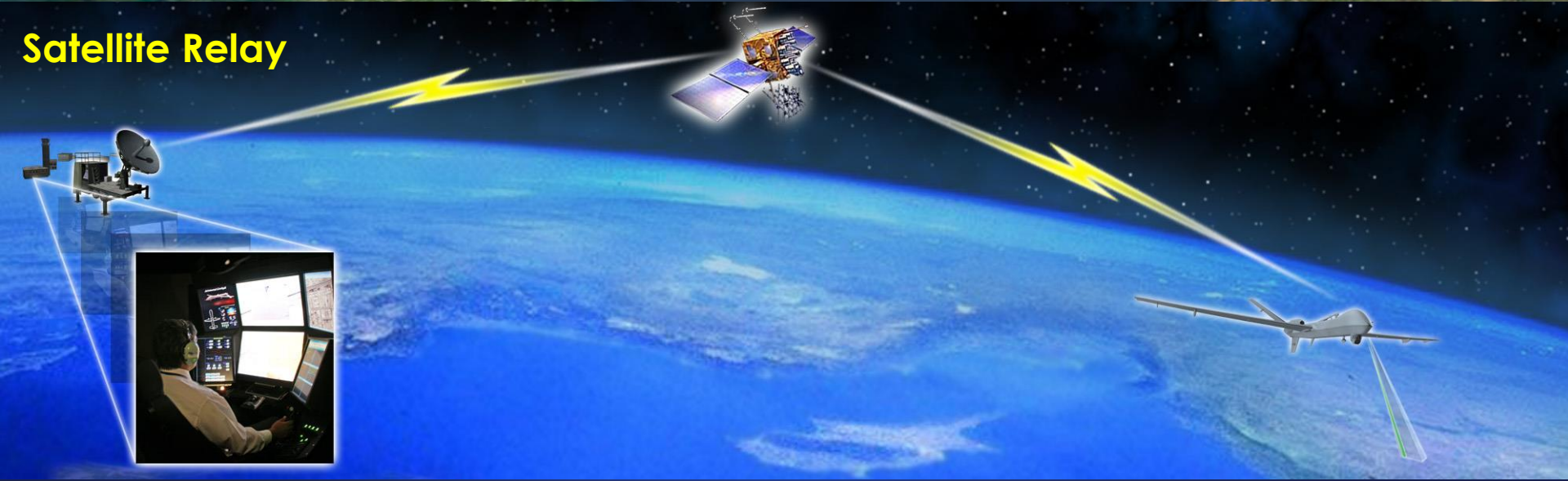


# Worldwide Control

## Line-of-Sight



## Satellite Relay



# Aircraft

# GA-ASI Family of Aircraft

740+ aircraft delivered

330+ GCSs delivered

335+ Lynx Radar delivered

3,500,000+ flight hours

– 90% combat hours

Worldwide control

– Ku-SATCOM data link



**Avenger**

Armed Reconnaissance , Quick Response



**Predator B/MQ-9 Reaper/Guardian**

Hunter Killer/Maritime Surveillance



**Gray Eagle**

U.S. Army Troop Support

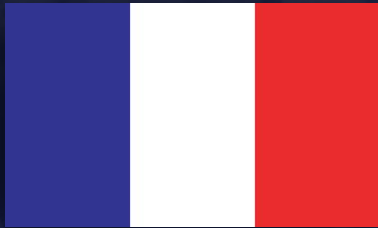
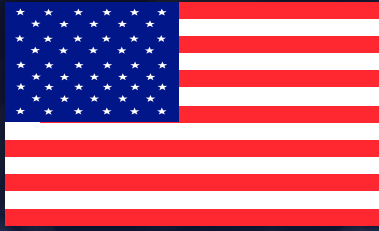


**Predator/Predator XP**

Persistent Regional Surveillance



# Customer Base



# Predator – 2,000,000 flight hours

*Air&Space* magazine selected (June 08) as one of the  
“Top 10 Aircraft that Changed the World”



- In operation since 1994
- Most operationally available aircraft in the USAF inventory
- First Remotely Piloted Aircraft to carry out a strike mission – 2001



# Gray Eagle



## “Predator Plus”

- 30% increase in GTOW
- Heavy fuel engine
- Triple-redundant avionics
- Dual-redundant flight control surfaces
- Auto takeoff & land
  - 40,000+ flawless events
- De-ice
- One System GCS

# Certifiable Predator B (Available 2018)



- **Designed for NATO airspace**
- **Compliant with NATO flight certification standards**
  - STANAG 4671/UK DEFSTAN 00-970
- **40-hr endurance**



# Predator B Maritime Surveillance Configuration

- Operational with the U.S. Government
- Universal pod supports Selex/Raytheon maritime radars
- Lynx with Maritime Wide Area Search (MWAS) Available
- Automatic Identification System (AIS) Available



## Endurance

25 hr

## Speed

240 KTAS

## Altitude

45,000 ft (13716m)

## Payload Capacity

Internal 850 lb (386 kg)

External 3,750 lb (1701 kg)

# Predator C Avenger



- Pure jet
- Internal weapons bay
- Reduced radar cross-section
- Modular design
- EO/IR sensors
- SAR/DMTI radar
- SIGINT/ESM
- Path to future capabilities



# Missions

# Payload Capacity = Multi-mission Capability

Military Operations



Civilian Missions



Border Protection/Disaster Assistance



Maritime Surveillance





# Domestic Border Protection Missions









2011-ASG-0051

# Disaster Recovery is a Perennial Mission



Real-time Situational Awareness

- |  |   |   |
|--|---|---|
|  Wildfires  |  Earthquakes |  Tornadoes |
|  Hurricanes |  Tsunami     |  Floods    |



# No RPA Has Equivalent Disaster Recovery Experience



# Disaster Recovery – Post-Earthquake Search and Rescue





# Disaster Recovery - Firefighting





# Disaster Recovery – Hurricanes and Flooding



2011-ASG-0048



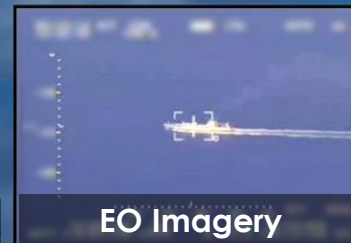
# Search & Detect, Classify & Identify

Aircraft Control  
and ISR Data

- Multi-mode maritime radar
- Automatic Identification System (AIS)
- Identification Friend or Foe (IFF) transponder
- Electro-Optical/Infrared (EO/IR) streaming video



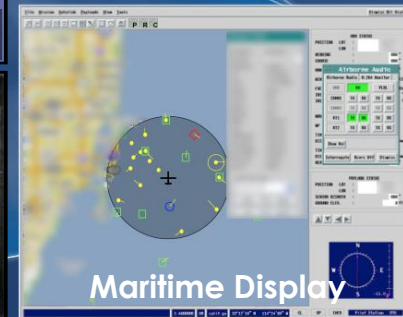
Surface Search  
Radar Imagery



EO Imagery



IR Imagery



Maritime Display

# GA-ASI Proven Aircraft Systems

- **Supporting forces overseas, in homeland defense and civilian missions**
  - Military persistence, strike & ISR– land or sea
  - Border security
  - Civilian missions (fire mapping & disaster assistance)
- **Expanding mission capabilities**
  - Continuing Predator-series RPA upgrades
  - New aircraft and Advanced Cockpit development
  - Advancing sensor technology (e.g. EO/IR, SAR, GPS, Laser)
- **Providing interoperable RPA capability worldwide**