



Air Force Research Laboratory Aerospace Technology Congress 2016

Major General Robert D. McMurry
Commander
Air Force Research Laboratory

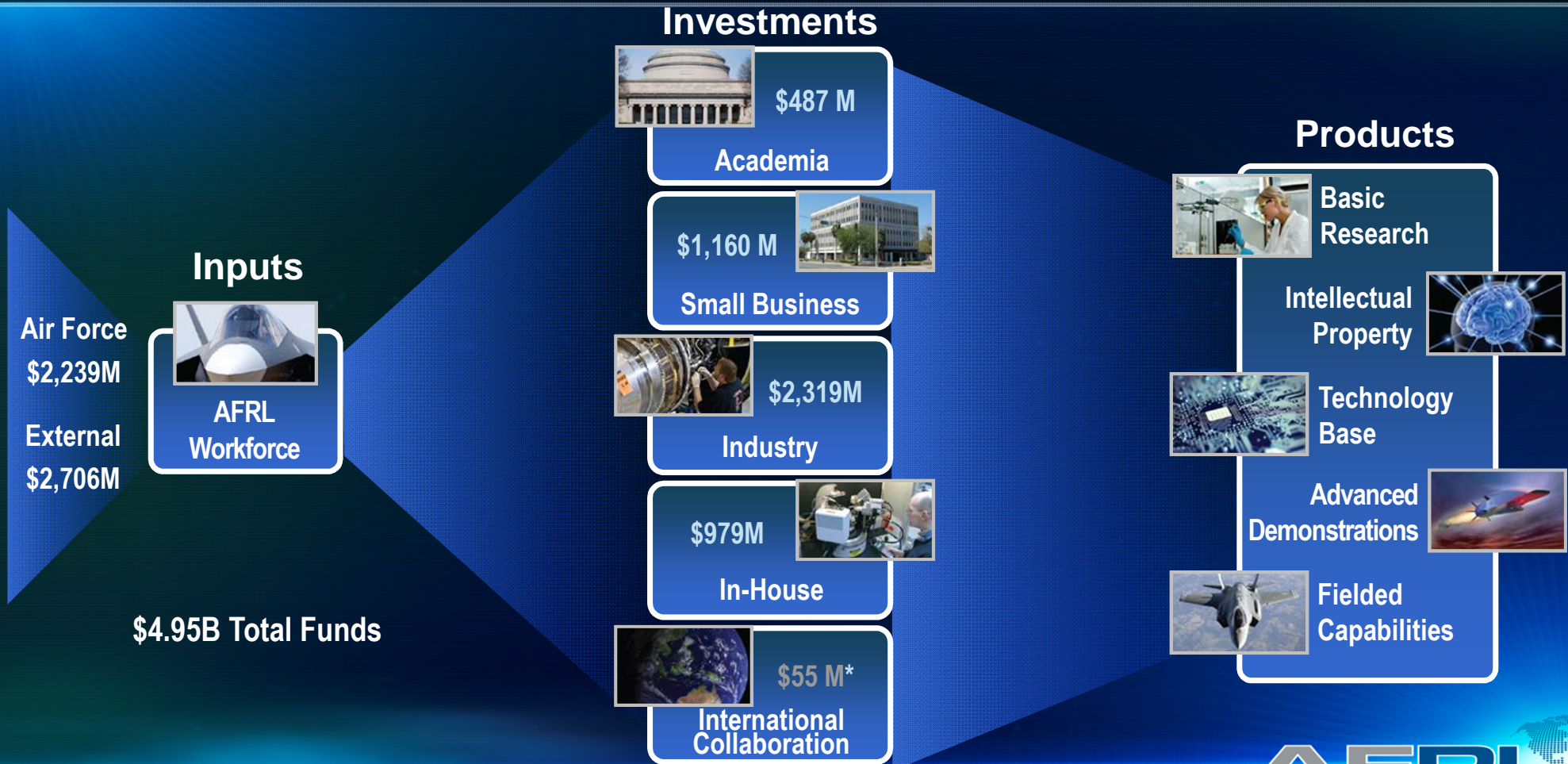
11 Oct 2016



Air Force Research Laboratory



AFRL S&T Business Model

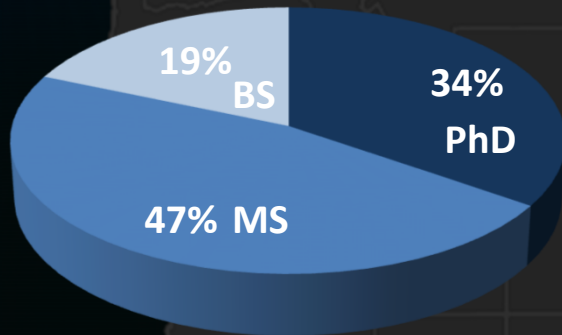


* In kind support



Air Force Research Laboratory

	Employees	Civilian	Military
Total	6,126	82%	18%
S&Es	3,573	84%	16%



~\$4.95 Billion Annual Funding

Core ~\$2.2B
Customer ~\$2.7B

Wright-Patterson AFB, OH

- AFRL HQ
- 711 Human Performance Wing
- Sensors
- Aerospace Vehicles
- Materials and Manufacturing

Rome Research Site, NY
Information

Arlington, VA
Office of Scientific Research

Arnold AFB, TN

Edwards AFB, CA

Fort Sam, TX

Kirtland AFB, NM

- Space Vehicles
- Directed Energy

Maui Research Site, HI

Eglin AFB, FL
Munitions

London, UK

Tokyo, Japan

Santiago, Chile



AFRL: Turning Science into Capability

RESPONSIVE

1-2
yrs

RELEVANT

2-15
yrs

REVOLUTIONARY

15-20
yrs



MISSION

Leading the discovery, development, and integration of affordable warfighting technologies for our air, space, and cyberspace force.

AFRL 

Current Priorities

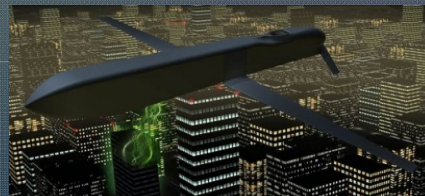
Multi-Domain Solutions

- Disruptive capability
- Integrate existing technology
- Strategic agility



Technology Demos

- Autonomy
- Hypersonics
- Directed Energy
- Reduce acquisition risk
- Inform CONOPs



Strategic Development Planning/ Experimentation

- Tech sandbox
- Tighter HAF linkage
- Req pull of low TRL lab technology
- Leverage industry IR&D



Engagement & Partnership

- Human Capital Strategy
- Maintain global awareness
- Shape domestic tech base
- Leverage the best S&T



Today's Strategic Context

Near-Peer & Rogue States

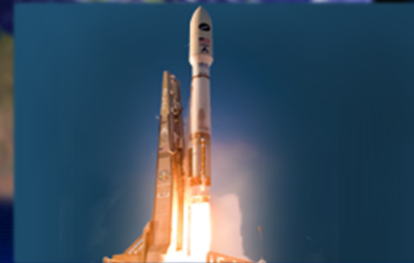
Limited Budgets



Cyberspace and EW



Leveraging New Industries

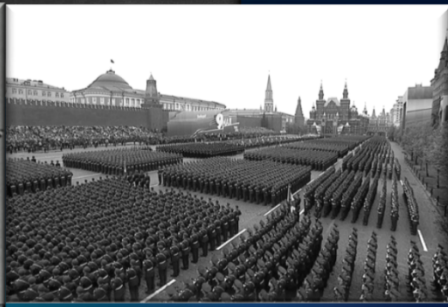
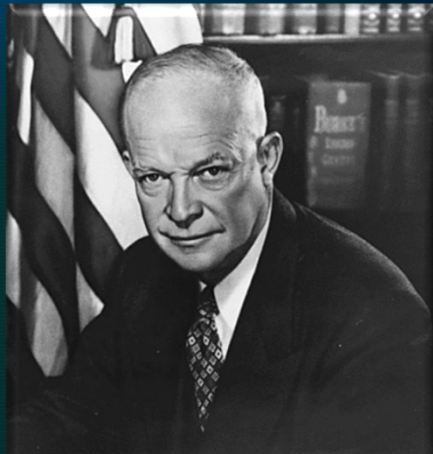


Contested Environments



Previous Offset Strategies

1st Offset - The “New Look”



2nd Offset - SecDef Brown’s “Offset Strategy”



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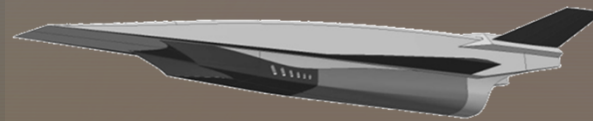
Challenge of the 3rd Offset



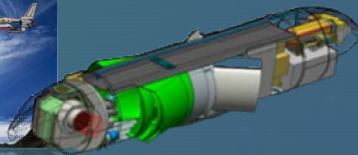
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AFRL & the 3rd Offset

Hypersonics



Directed Energy

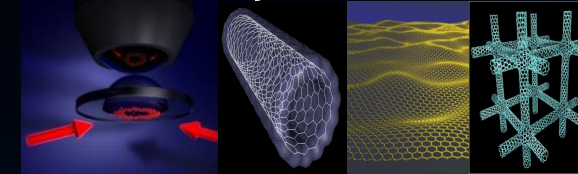


Also developing:

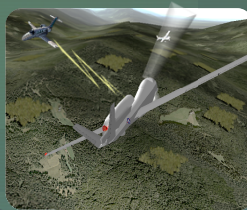
Unmanned Systems



Nano/Quantum Technology



Autonomy



2020

2030

Revolutionary technology to make and keep the fight unfair

AFRL

QUESTIONS?

REVOLUTIONARY · RELEVANT · RESPONSIVE

