Tactical Technology Office

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Briefing prepared for Aeronautics and Space Engineering Board (ASEB) and Space Studies Board (SSB)

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Our adversaries are out-innovating us
Hypersonic Air-Breathing Weapons Concept (HAWC)
Tactical Boost Glide (TBG)

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Blackjack

- Resilience
- Low Latency
- Global Persistence
- Rapid Tech Refresh
- Responsive to Emerging Threats

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Artist's Concept
Experimental Spaceplane (XSP)
DARPA LAUNCH CHALLENGE

WILL YOU MEET THE CHALLENGE? LAUNCH FAST

PRIZES

PAYLOAD BONUS

1st, 2nd, and 3rd place based on payload weight & time to launch

Challenge Announcement: 04.2018
Challenge Applications Close: 12.2018
Participants Announced: Q1.2019
Launches 1 & 2: Q4.2019

QUALIFY

LAUNCH 1

$400K

LAUNCH 2

$2M

1ST $10M

2ND $9M

3RD $8M

Competitors Day - May 23rd, 2018
Los Angeles, CA

www.DARPALaunchChallenge.org
Robotic Servicing of Geosynchronous Satellites (RSGS)

Rendezvous, Dock
Spacecraft maneuver
Restore orbit
Present-day GEO asset
Future small satellite
Future GEO asset
Capture, transport, unpack
Install
Delivery: PODS
Delivery: ESPA, secondary, dedicated
Replenish
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Collaborative Operations in Denied Environment (CODE)

CODE will enable heterogeneous teams of Unmanned Aircraft (missiles or UAV) to collaborate at the tactical edge in a denied environment.
Gremlins

Demonstrate limited-life, volley-quantity, air-launched, recoverable unmanned platforms to expand options for conducting distributed air operations and drive to lower per-mission costs.
OFFensive Swarm-Enabled Tactics (OFFSET)