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# ***Prompt Global Strike (PGS)***

## ***Information Brief***

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## *Prompt Global Strike (PGS)*

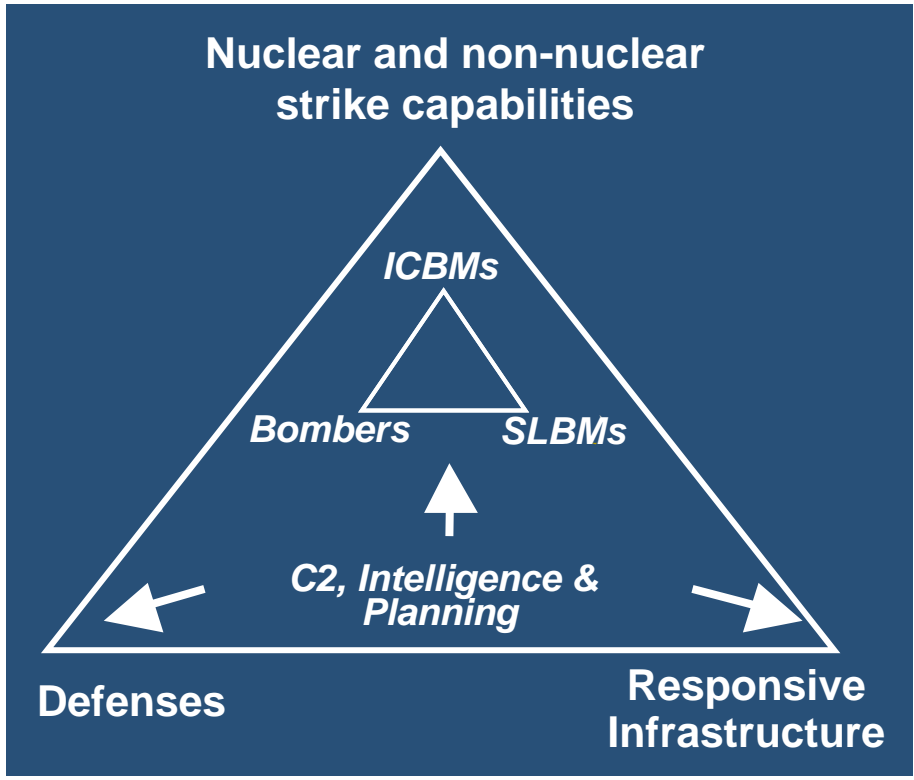
- **PGS addresses the capability gap to:**
  - Strike globally
  - Precisely
  - Rapidly
  - With kinetic effects
  - Against high-payoff time-sensitive targets
  - Regardless anti-access threats
  - With a Conventional Weapon
- **The capability gap is identified in the PGS Initial Capability Document**
  - Only option today: Pre-positioned forces or nuclear response (ICBMs and SLBMs)
  - It is not “weapons from space”

***PGS is a USSTRATCOM priority that provides rapid conventional strike capability for anti-access and high value targets worldwide***



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# Nuclear Posture Review



- ⇒⇒⇒ Rapid
- ⇒⇒⇒ Global
- ⇒⇒⇒ Precision
- ⇒⇒⇒ Conventional
- ⇒⇒⇒ Strike

**“I see a great need for a capability that can reach anywhere in the world under an hour...with precise effects.”**

CDRUSSTRATCOM Feb 05



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## ***PGS Capability Gap***

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### **Gap identified by:**

- **USSTRATCOM Integrated Priorities List**
- **2006 Air Force Capabilities Review and Risk Assessment**
- **Air Force and Joint studies and directives reflected in JROC-approved PGS mission needs statement, May 2003 & JROC-approved PGS ICD, Jul 2006**

***The Air Force is working closely w/ USSTRATCOM to fill the PGS capability gap***



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# ***Critical Capabilities Identified in the PGS Initial Capabilities Document***

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- (1) **Global** - The capability to strike any target set in the world; simultaneously in multiple theaters
- (2) **Prompt** - The capability to strike any target set in minutes to hours with no or unambiguous warning
- (3) **Precise** - The capability to accurately strike the target and achieve the desired effects
- (4) **Range of Effects** – Provide full spectrum effects to influence, dissuade, disrupt or defeat without resorting to nuclear fission or fusion weapons
- (5) **Counter Anti-Access** - The ability to penetrate or circumvent anti-access capabilities (military and political), as necessary



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## *Air Force PGS initiatives*

- **AF is currently working two interrelated initiatives to address the PGS capability gap**
  - **(1) AFSPC engaged in a PGS technology demo program**
    - **Designed to evolve, mature, and integrate critical PGS technologies**
    - **Supports the Command's vision for fielding a mid-term (FY14/15) Conventional Strike Missile (CSM) capability**
    - **As envisioned, CSM will use existing commercial/excess rocket motors to boost a medium-lift to drag hypersonic glide vehicle**
    - **Capable of dispensing requalified off-the-shelf munitions at global ranges from the CONUS**
  - **(2) PGS Analysis of Alternatives (AoA) is a joint study led by AFSPC**
    - **Scheduled for completion in Mar 08**
    - **Examines long-term (FY2020 and beyond) materiel solutions**

*Two phased approach addressing the mid and far term*



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## ***Conventional Strike Missile (CSM)***

- **CSM is AFSPC/CC's vision to deliver a limited PGS capability**
  - **AFSPC Demonstration Program**
  - **Uses commercial/excess rocket motors with proven avionics, transitions to a "family of motors" derived launch platform**
  - **Leverage demo technologies from hypersonic flight tests**
  - **Utilize existing off-the-shelf weapons**
  - **Potential for residual capability**
- **CDR/USSTRATCOM, "very excited...do it faster...keep it simple...integrate CSM into testimony and posture statements."**

***CSM is AFSPC/CC's vision (material solution) to fill the USSTRATCOM JROC validated PGS gap by 2014***

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## *Nuclear vs Conventional Signatures*

- Geographically separate basing (Coastal vs Northern tier)
- On-site inspections
- Nuclear-conventional firewalls -- unique/separate C2
- Non-provocative mission planning
- Unique trajectories

*Packaging a suite of mitigating measures*

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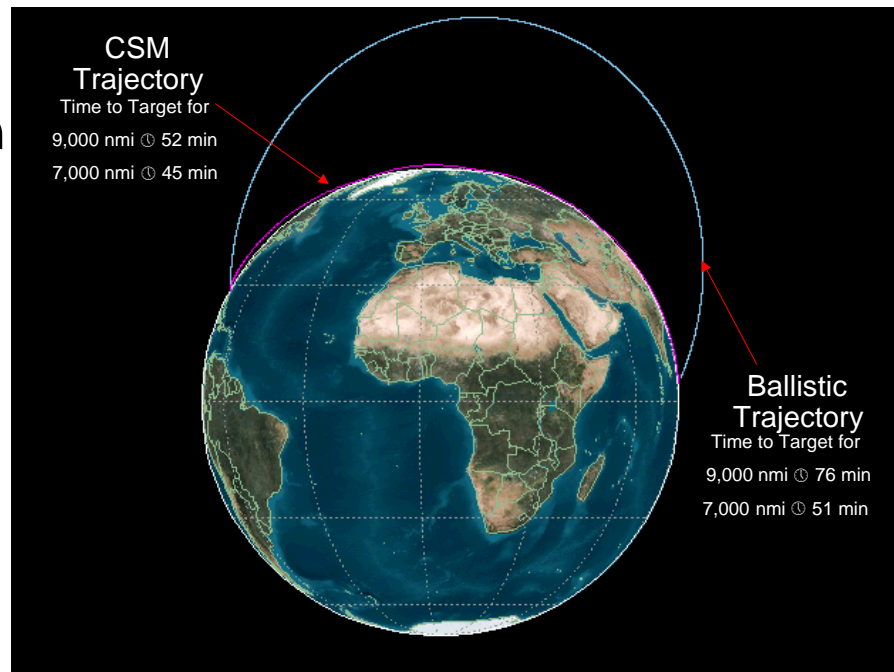




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# Flight differences between the Hypersonic Glide Vehicle (HGV) and a Ballistic Reentry Vehicle

- The HGV has a completely different flight profile than a ballistic reentry vehicle (RV)
- HGV flies a depressed trajectory compared to a ballistic RV's high trajectory
- HGV maneuverable (2 to 1 lift to drag) over 50% of flight time; ballistic RVs not maneuverable
- RV's located at Northern Tier bases; CSM's to be located at geographically separate coastal bases



**The HGV has a completely different profile and trajectory than a RV**

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