USAF
Space and Missiles Systems Center
Missions Supported and Innovations in Context

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SMC Mission Overview

Develop, acquire, field and sustain the world’s best space and missile capabilities for the joint warfighter and the nation

Space Superiority
- Space Situation Awareness
- Defensive Counter Space
- Offensive Counter Space

Space Support
- Launch Systems
- Spacelift Range
- Sat Control & Network

Force Application
- ICBMs
- Prompt Global Strike

Space Force Enhancement
- Milstar/AEHF(Comm)
- DSCS/GBS/WGS(Comm)
- GPS (Navigation)
- DSP/SBIRS (Surv)
- DMSP (Weather)
- NUDET (Nuclear Detection)

Developing, Delivering, and Supporting Military Space Capabilities to Preserve Peace and Win Conflicts
A Brief History of SMC Developmental Innovation

Many operational DoD capabilities originated as XR projects

GPS has had the most positive impact on our operations, while distributed satellite formations have not met their potential

Current Studies
- ORS
- LVDP
- PGS
- GPS NDS Alt

Topics listed are partial yet representative
3 key factors must be balanced for innovation to occur: Identify, Mature and Transition innovative entities.

Key Innovation Factors

- Multi-wall CNT
- CNT Wire
- Future Lift
- Future ORS SV
- Future Mobile AFSCN/ GDPAA
- Future Sensors

SMC/XR