

# Space and Missile Systems Center

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## ***Enterprise Ground Services (EGS) Overview***

**SMC/AD**

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# Key Drivers for EGS

## AFSPC Commander's Intent

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- Prepare for Tomorrow's Fight
  - Increase enterprise resiliency and capability
  - Enable airmen to focus on advanced skills
    - Increase automation of routine tasks
- Provide robust common ground platform for commanding & data sharing
  - Training and operations efficiency
  - Enhanced situational awareness
  - Mission ops in challenging environments
- Avoid costly new ground system developments
  - Align with upcoming recapitalization cycles
  - Leverage open systems architecture – sustainable, responsive
- Foster rapid capability development
  - Promote greater competition – no single vendor controlling the architecture
  - Leverage government and commercial precedents



# EGS Long-Term Objectives

## *Phased Transition of Key Elements*

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### Key Objectives

Consolidate common functions and automate common and repetitive satellite C2 tasks

Establish government control and ownership of the technical baseline

Make space derived products, data and information services more accessible to innovators, analysts and operators at the tactical edge

Make tasking and response more dynamic  
Optimize for cyber security and resilience

Optimize resources across operating domains  
Provide flexible, adaptable, and defensible satellite control operations

### Enterprise Elements Affected

Consolidate  
TT&C

Expose  
Data

Optimize  
Mission  
Mgmt

Modernize  
& Optimize  
Networks

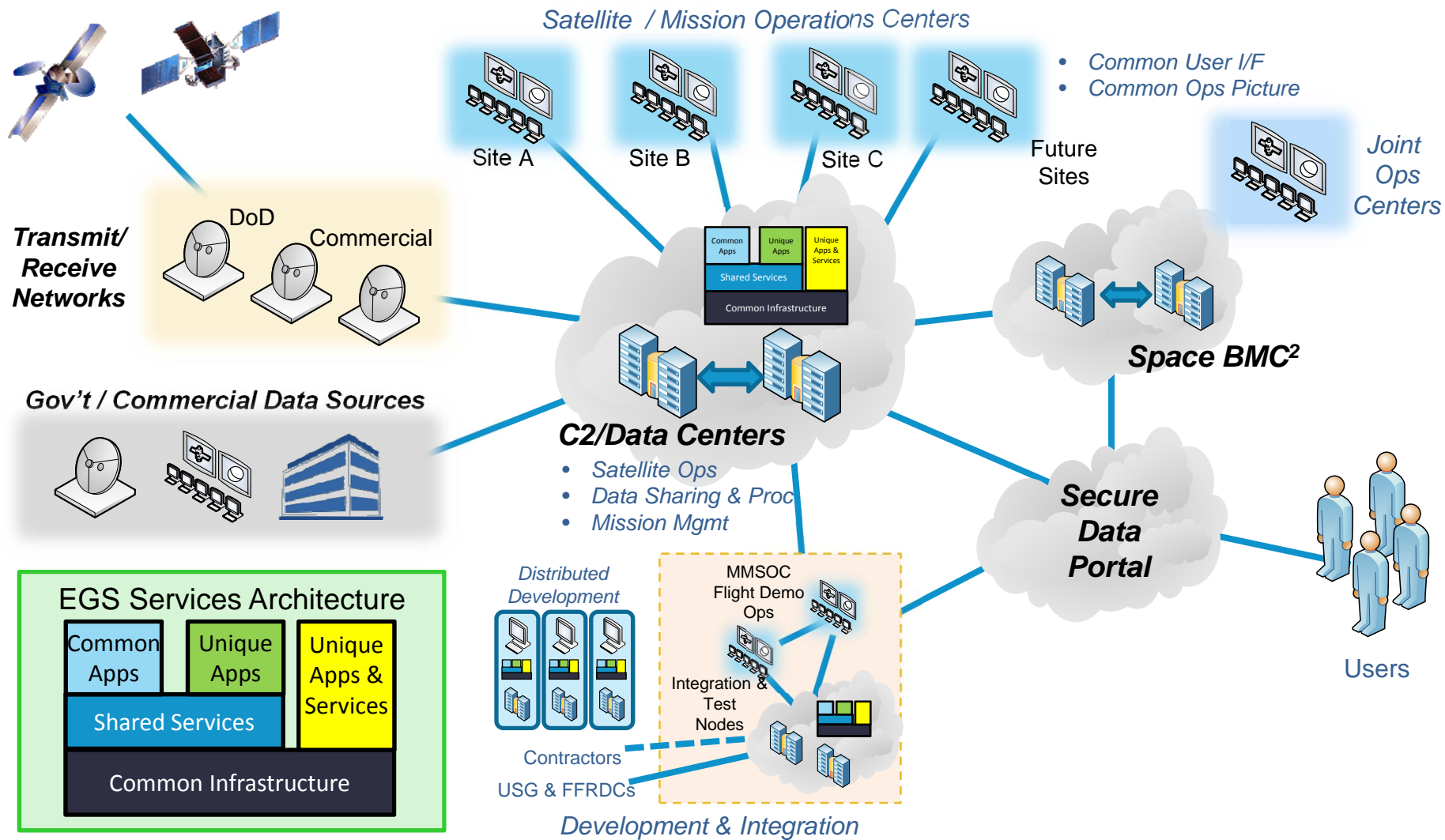
Phased Approach



# EGS System View

## Envisioned End State

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# EGS Fielding Strategy

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- Establish initial C2 Center prototypes & connectivity
  - Leveraging Multi-Mission Satellite Operations Center (MMSOC) capabilities and experience
  - Shape future decisions & strategy
- Establish dynamic & open collaboration environment
  - Government-owned technical baseline, matured via interaction with industry, agencies, academia (info in GSAW Session 12a)
- Sponsor Research and Development projects
- Enforce EGS usage for new acquisitions
  - Ground systems design to enterprise standards/platform
- Mature Long-Term Operations and Sustainment Strategy
- Transition legacy systems into EGS via phased approach
  - Based on needs/resources – aim for modernization/refresh cycles
  - Legacy attributes may become EGS shared apps/services



# Challenges

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- **Convergence (...through Collaboration)**
  - To define stable, scalable, evolvable infrastructure (including Cyber protection)
  - While maintaining research and development agility
- **Completeness/Confidence**
  - In the long-term acquisition & transition plans
  - Sufficient to enable cost/schedule/technical forecasting
- **Certification/Accreditation**
  - Improved testing & accreditation cycle times
  - To support needed agility



# Questions

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# Enterprise Space Operations Desired End State

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