# Acquiring Transformational Space Capabilities

## NDIA Space Policy & Architecture Symposium

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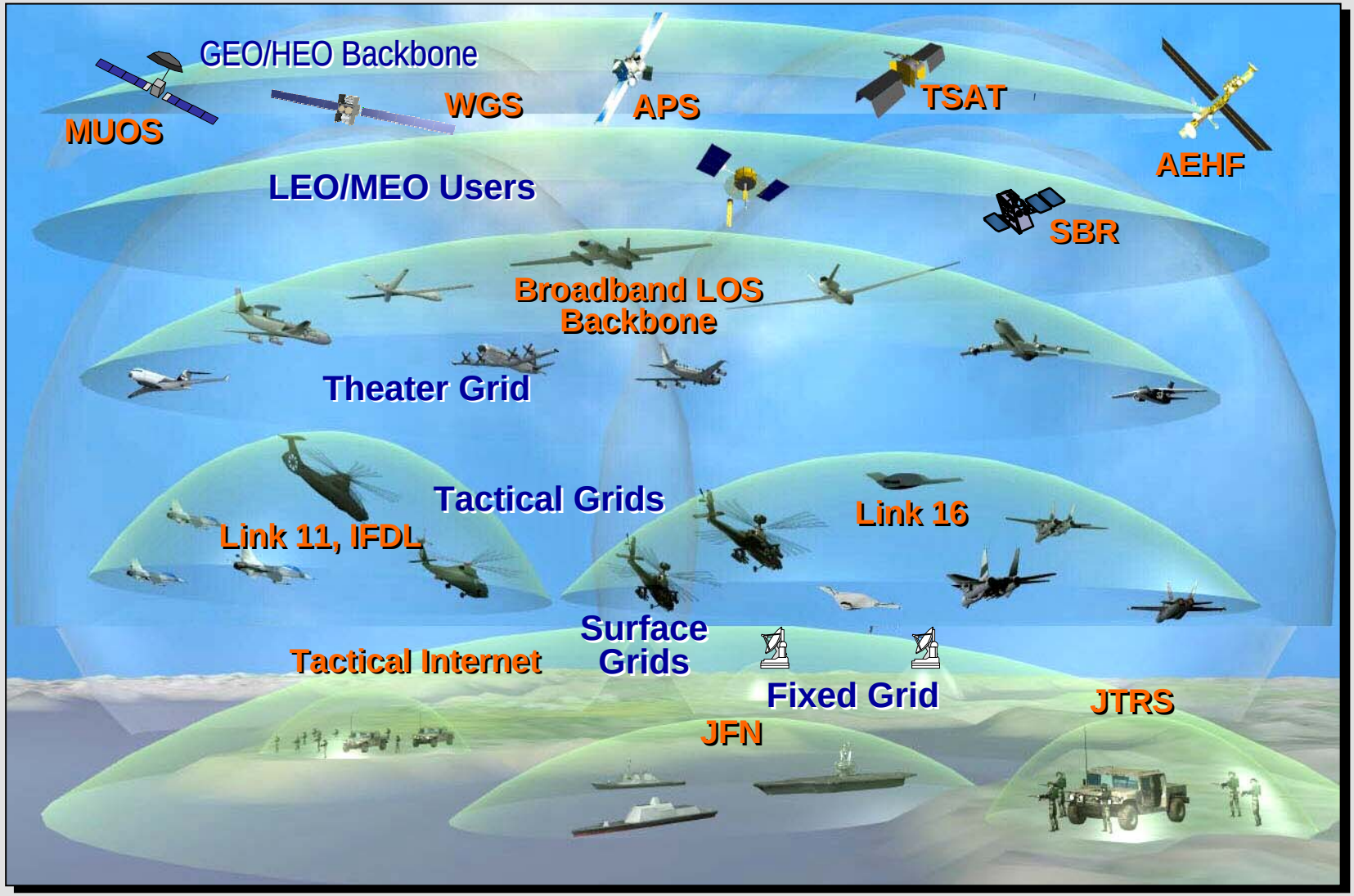
# Space: Backbone for Network-Centric Warfare



# Characteristics

- Situational awareness
  - Complete and persistent
  - Not limited to information provided by organic assets
- Information on demand
  - Systems enable information and data to be fused into knowledge and understanding
  - Right information to the right user, in the right format and classification level, when needed by user – drawdown capability
- Lethality from situational awareness, speed, and precision
  - Sensor-to-decision maker-to-shooter connectivity
  - Multiple options for achieving desired effect
  - Shoot-look-shoot capability

# Government Challenges

- Operational and functional architecture stability
  - Requires political engineering and top-level architecture/engineering
- High-level standards management to support plug and play
  - Strong M&S capability
- Capability to upgrade while maintaining operations
- Acquisition definition that supports capability acquisition leading to system acquisition
- Multilevel security strategy and architecture
  - Bring SCI and special collector asset information to secret-level user
- Set priorities for user contention for resources

# Industry Challenges

- Support architecture-level integration
- Create modular architectures that can be upgraded
- Aerospace industry must become network savvy
  - Form new partnerships
- Create and respond to industry and government standards
- Develop information assurance technology
- Develop and use trusted agents/trusted foundries