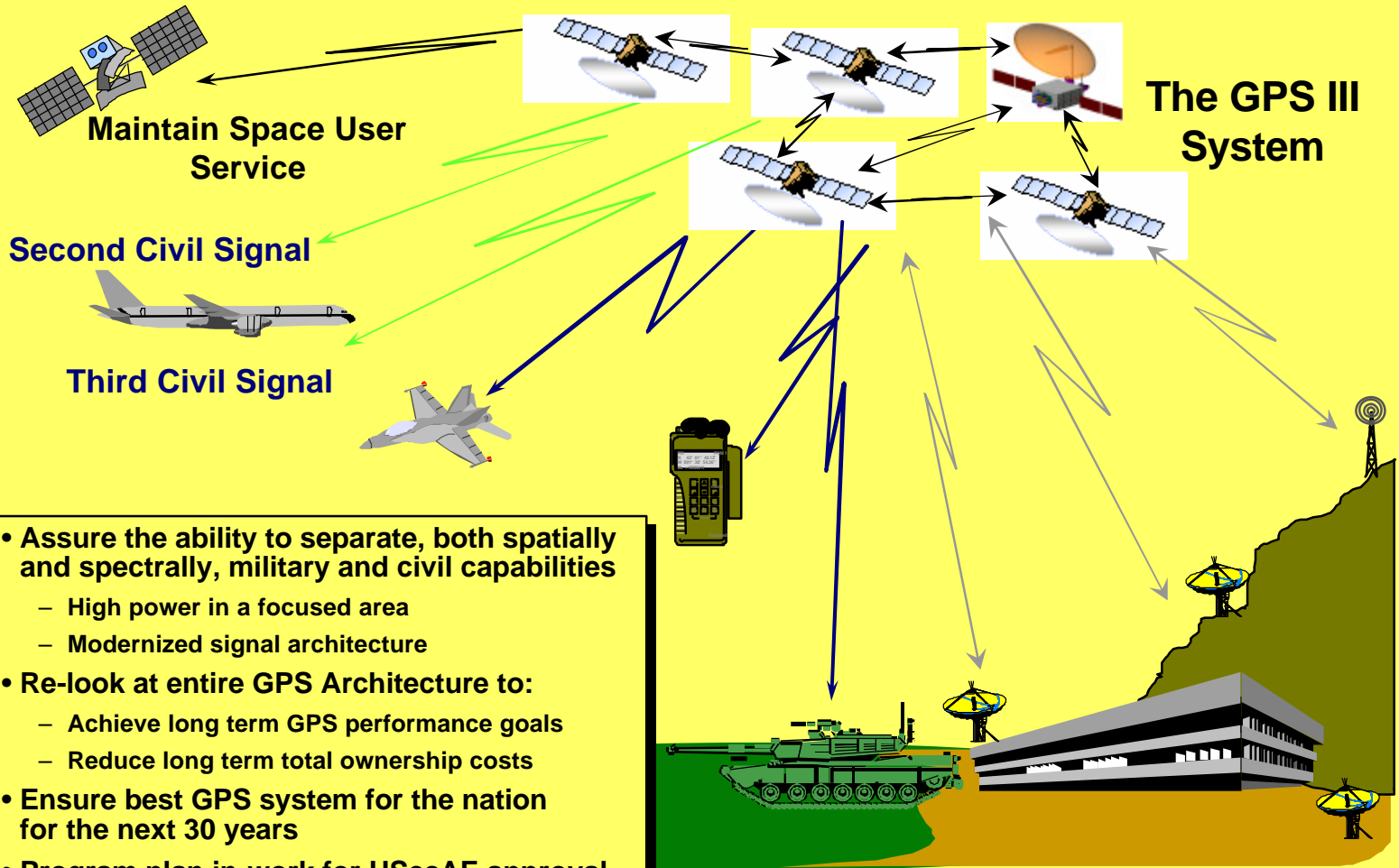


GPS III Description



- **Assure the ability to separate, both spatially and spectrally, military and civil capabilities**
 - High power in a focused area
 - Modernized signal architecture
- **Re-look at entire GPS Architecture to:**
 - Achieve long term GPS performance goals
 - Reduce long term total ownership costs
- **Ensure best GPS system for the nation for the next 30 years**
- **Program plan in-work for USecAF approval**



GPS III Proposed Accuracy

Draft Systems Specification

	<u>Threshold</u>	<u>Objective</u>
Accuracy (95%)		
Horizontal	2.5 m	0.5 m
Vertical	4.5 m	1.1 m
Timing	5.7 nsec	1.3 nsec

Draft Systems Specification includes the effects of receivers

- Threshold is for low-cost/low-performance receiver
- Objective is for high-cost/high-performance receiver

Navstar GPS - Operational Control Segment Current System Description



Schriever AFB, CO

L-Band



S-Band



● GPS Monitor Stations

▲ GPS Ground Antennas

- Master Control Station (MCS) ■
- Integrated Mission Ops Support Center
- Operational Support System
- AFSCN Command and Control Segment (CCS)



Vandenberg AFB, CA

- Crew Training Emulator



Cape Canaveral, FL

- Transportable Ground Antenna
- Test Assets



LMMDS, Gaithersburg, MD

Backup Master Control Station (BUMCS)