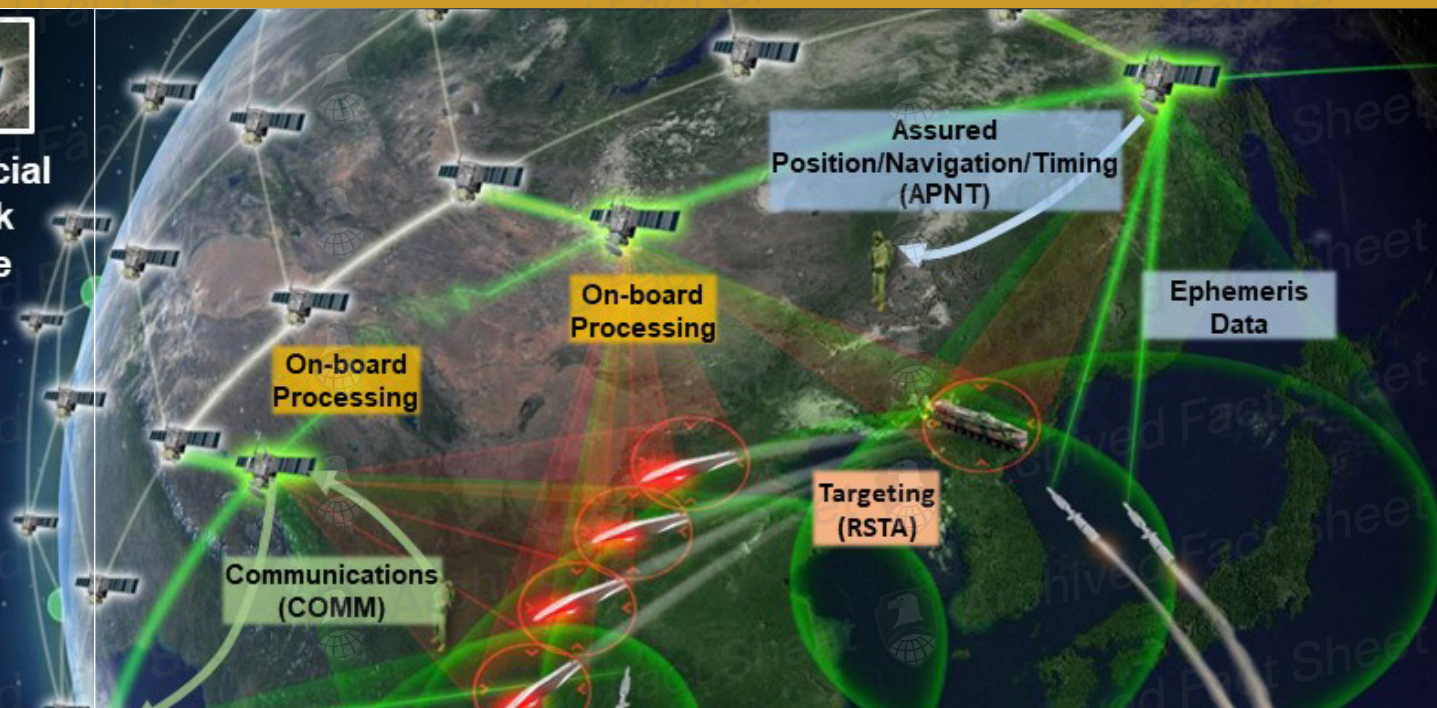




LOW EARTH ORBIT SPACE INVESTMENT STRATEGY



**Commercial
Network
Satellite**



Develop and demonstrate tactical space capabilities in support of land component commanders

A strategy has been developed, approved and initiated for the U.S. Army Space and Missile Defense Command to demonstrate a joint tactical warfighting capability from low earth orbit space. The U.S. Army will use the existing Blackjack program to cost effectively create joint tactical capabilities, utilizing emerging commercial “mega” constellations as the primary data/communication networks.

- High bandwidth for communications and data transfer
- Beyond line-of-sight, long-range targeting
- Taskable by tactical warfighter for joint forces support.

These capabilities will utilize to the fullest extent possible, emerging commercial LEO communications networks and advanced space technologies developed within the Department of Defense.

- The Low Earth Orbit Space Investment Strategy supports the tactical warfighter in the areas of:

- Communications
- Reconnaissance, surveillance and target acquisition
- Assured position, navigation and timing



LEO Space Strategy

The U.S. Army Space and Missile Defense Command is developing low earth orbit space capabilities to support and enhance the joint tactical warfighters. The architecture will leverage emerging commercial "Mega" constellations as the primary data/communication networks.

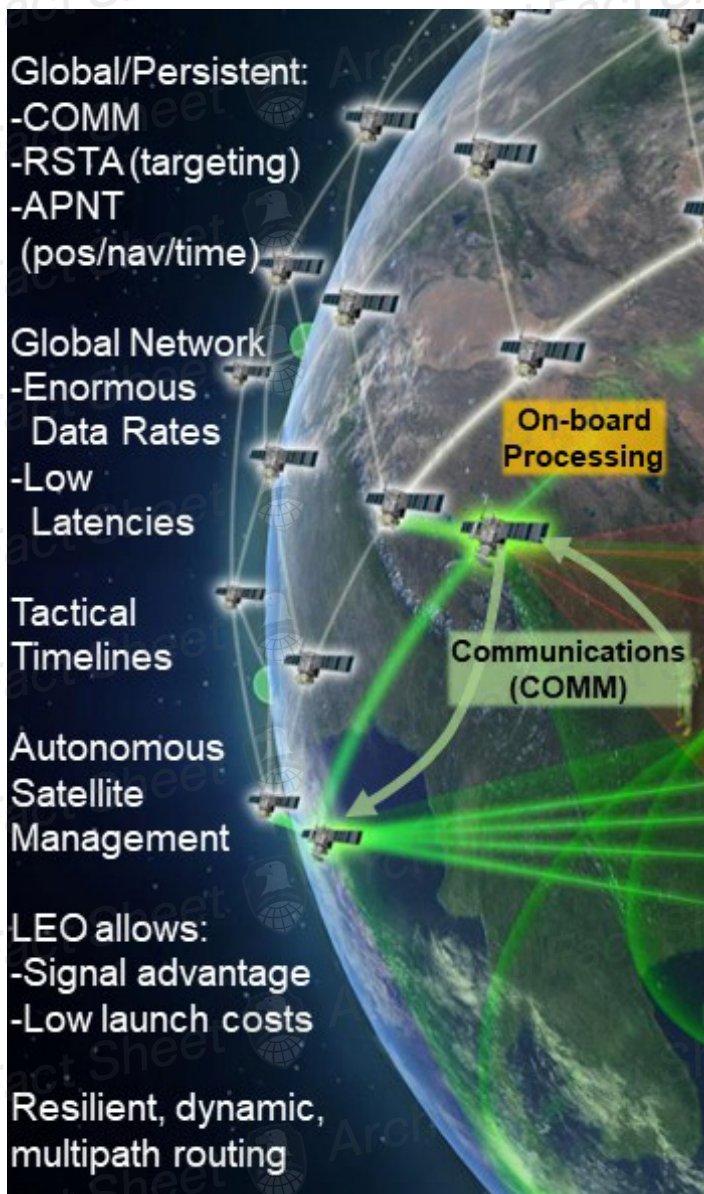
The approach is to use the Development and Operations model to produce demonstration constellations with residual capabilities to be delivered to joint tactical warfighters on an accelerated timeline. This methodology enables advanced technologies to be realized by the warfighter at the earliest possible time.

Non-traditional (ie. other transaction authority, or OTA) and existing technology insertion (Defense Advanced Research Projects Agency Blackjack broad area announcement, or BAA) contracting will be used to accelerate prototypes into demonstration constellations.

Demonstrated advanced technologies in communications; reconnaissance, surveillance and target acquisition; and assured position, navigation and timing are being pursued to enhance joint tactical warfighting. Capabilities include:

- high bandwidth communications and data transfer from/to the tactical level from/to upper echelons;
- global, near real-time, persistent targeting for existing and emerging long-range weaponry;
- and assured position, navigation and timing throughout the theater.

The LEO space strategy has been approved by the highest levels of the U.S. Army and the Department of Defense, and is being executed by USASMDC.



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