

Asymmetric Battlefield



Who is the enemy?

Where are they, how do they look? (Insurgents, guerillas and civilian fighters in civil environment)



"Empty Battlefield":

low signature and short
exposure of targets (e.g. 2006
Lebanon war: Hezbollah was hiding
rocket launchers in caves and civil
buildings)



No "enemy lines" or borders

Unorganized enemy forces: targets are located in different ranges and locations



High-tech guerilla creates extremely hostile environment for reconnaissance and forward observer units

Political and legal aspects



High sensitivity to collateral damage – no more statistic fire



High sensitivity to casualties
On both sides



Commander

The criminal court in the Hague is waiting for you ...?

21st century artillery characteristics



Extremely long range of tactical artillery up to 150 km



High mobility





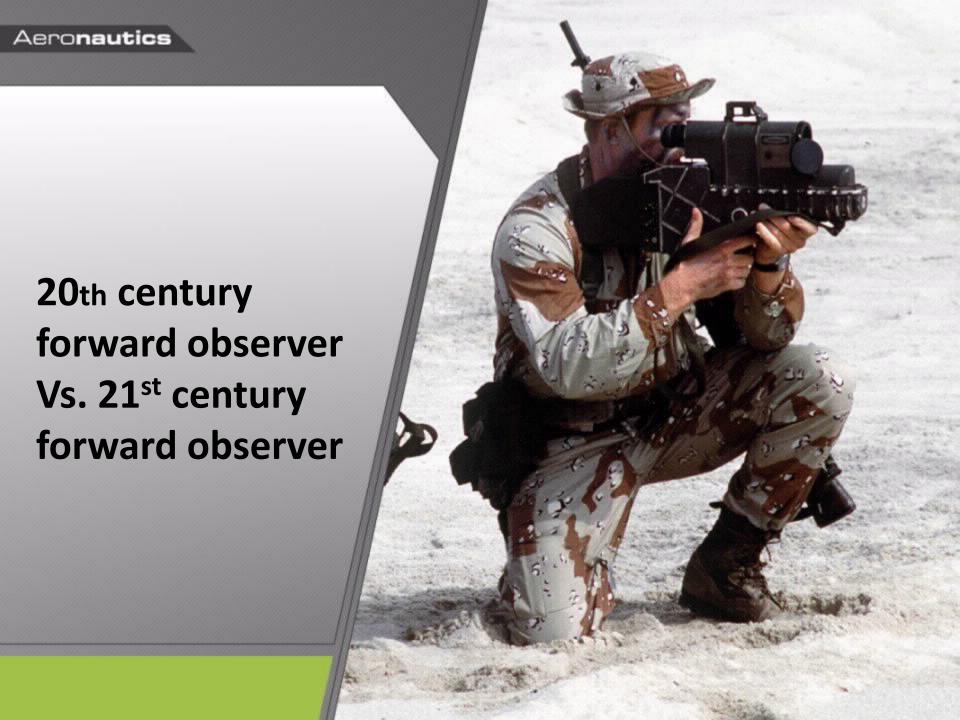
Advanced fire control generates high autonomy

21st century artillery characteristics









Traditional forward observer





Cannot walk or drive to long distanced targets





Moves **slowly**



Traditional forward observer



Limited mission coverage



Deep special operations require significant support /effort





Operates at a **variety of ranges**: up to 150 km



Flexible: arrives to target area within 10-60 minutes



All terrain all weather



Multi-target multi-mission: operates in wide area and supports several units





Multi-sensor: uses EO/IR, COMMINT, ELINT and other sensors



Very **high target accuracy** (< 5 M)



Silent, covert and difficult to hide from



BDA capability





Small team and low support effort



Laser designation capability





Very precise target acquisition



Human errors reduced to a minimum by direct network link between the Orbiter® and the artillery unit



Sensor-to-shooter capability

To summarize:



Shorter that ever circuit



Accurate



Network-centric



Deadly



Real - Time



Cost effective

Video clips

Orbiter 3

Orbiter 3 as ISTAR

Summary

Orbiter 3[®] benefits to 21st century artillery are:

Orbiter 3 Provides TRUE ISTAR capabilities.

- Long range operations
- High accuracy
- Real-time, network-centric
- All weather operation
- BDA
- Minimum personnel
- Multi targets handling to a multiple artillery units
- Laser designation
- Very Cost-effective



