



Precision Strike – Industry Perspective "Closer than you think"

Bob Van Allen Program Director HEL and EO Systems

The Promise

Missile Defense Systems

HEL Attributes

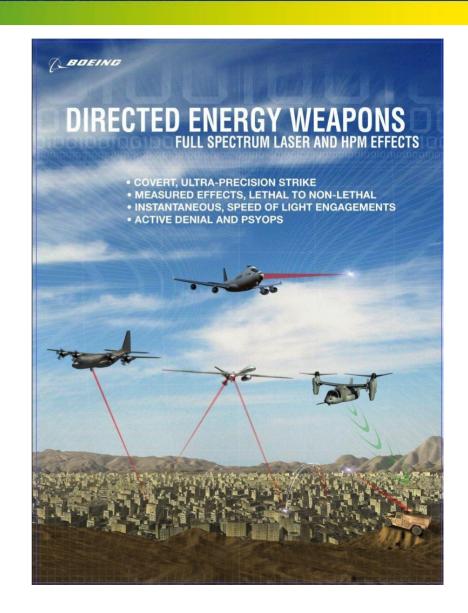
- Speed of light engagement
 High precision offers low collateral damage
 Graduated damage effects
 Concurrent sensing
- capabilities
- Deep magazine potential
- Standoff range

Challenges

- Field of regard limited to
- Line of Sight

 Atmospheric losses over long propagation lengths

 Availability subject to weather: Clouds and obscurants limit field of engagement



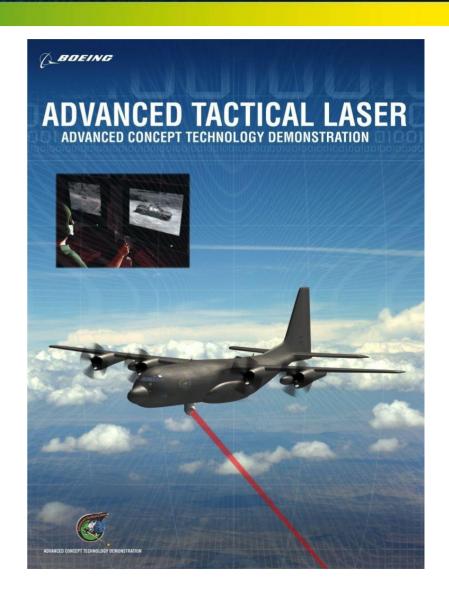
HEL Programs Are In Integration and Field Test

Missile Defense Systems

Airborne Laser (ABL)

Advanced Tactical Laser (ATL)

HEL Relay Systems ("redirected energy"



HEL Technology is Maturing

Missile Defense Systems



Hurdles

Missile Defense Systems

- System/technology readiness
- Military utility and effects
- Development/ life cycle cost
- Development Funding
- Policy

