Create and Deliver Superior Products Through Innovative Minds

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Precision Strike Winter Roundtable *"Long Range Strike Weapons" Frank Cappuccio, February 1, 2007*

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1. What LRS Capabilities Does the Customer Community Want?

2. What Are the Desired Attributes of LRS Weapons?

3. How is Industry Responding?

It All Depends On ... the CAPABILITIES Required & Who's Buying



Long Range Strike Journey

"Here is *Industry* Bear, coming downstairs now, bump, bump, bump, on the back of his head, behind Christopher Robin.

It is, as far as they know, the only way to come downstairs, but sometimes we feel that there really is another way...

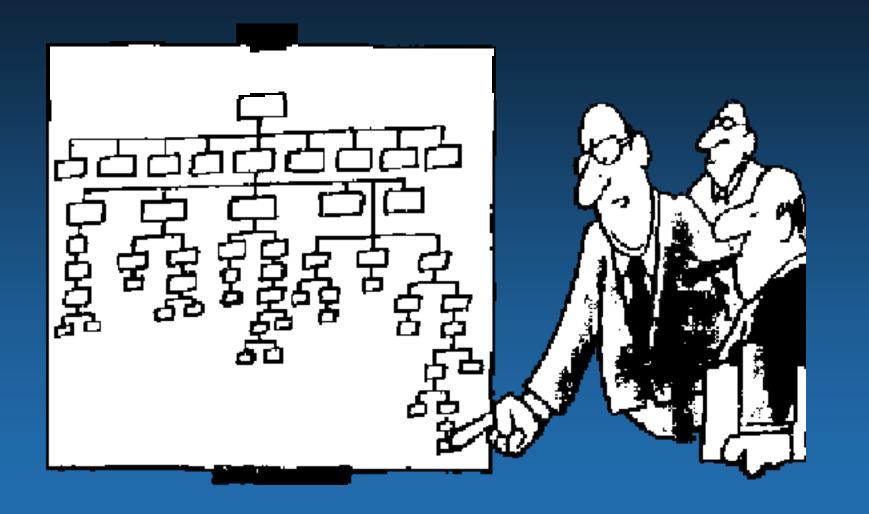
If only we could stop bumping for a moment and think of it!"

Original Source: Augustine's Laws





CEO Opportunity Review Board



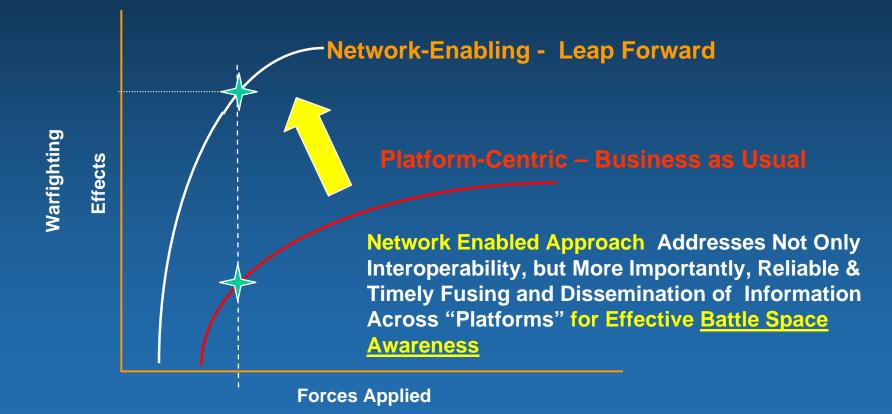
Frank: "Is this your Requirements Source?"

Lockheed Martin Aeronautics Company



Framework for the Future

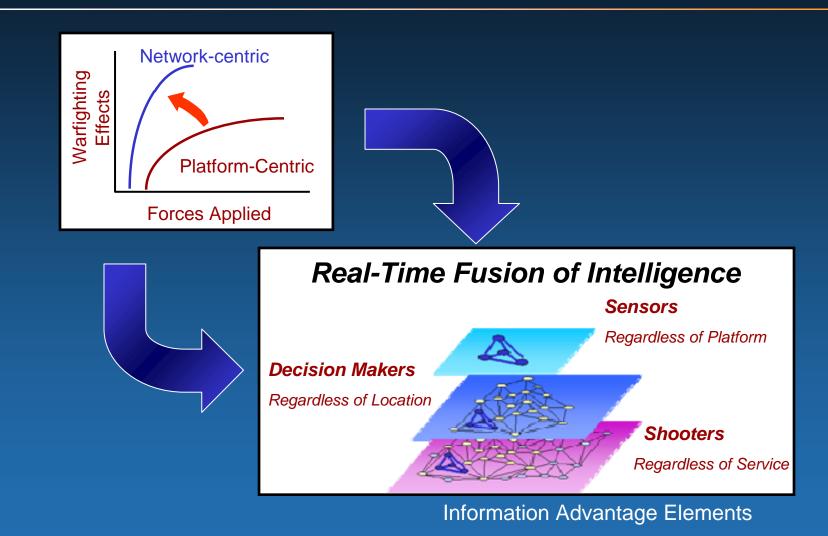
Strategic Vision: Provide the "War-fighter" an Exponentially Increased Capability to Address a Wide Range of Threats, Via Either Preemptive and or Reactive Force, With High Confidence of the Source of the Threat



Information Awareness Critical for Precision Engagement



Framework for the Future



Battle Space Awareness Critical for Precision Engagement

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- Anti Access Due to Basing Restrictions Must Be Accomplished
 - Impacts Navy and USAF CONOPS
 - Forces Strikes From Long Distances in Early Days of Campaigns

Proliferation of Next Gen Threat Defensive Systems Must Be Countered

- "Double-digit" SAMs, e.g., S-400, HQ-9, and Follow-ons / Mods
- Advanced Fighters With Advanced IRSTs, Radars, Missiles
- Digital IADS / Networked Radars

Various Levels of Scenarios / Threats Must Be Addressed

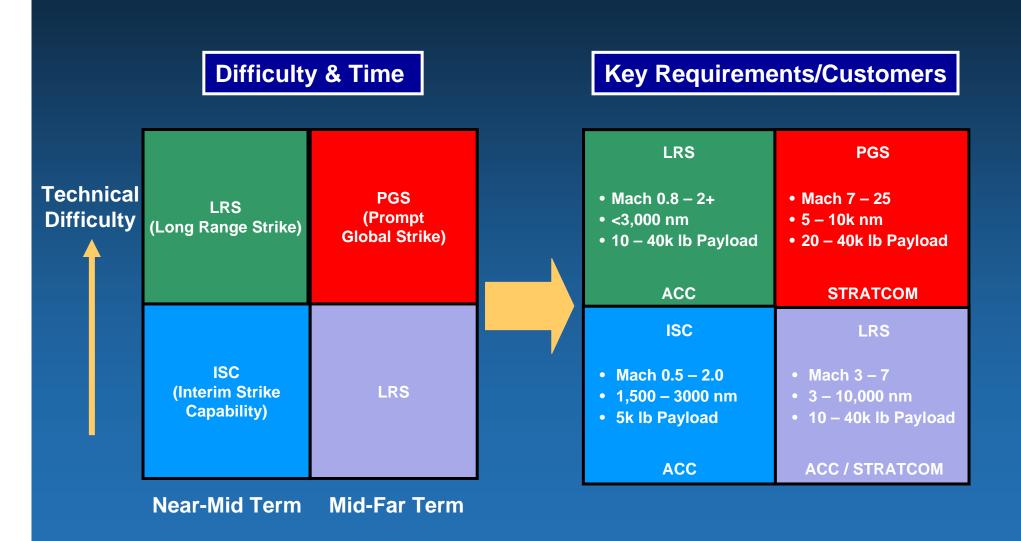
- Near Peer, Highly Capable, High Threat, e.g., China
- Difficult / High Threat, e.g., North Korea
- Quick Reaction, e.g., Neutralize WMD Threats, GWOT
- Lower Intensity, e.g., Afghanistan, Bosnia, GWOT, etc

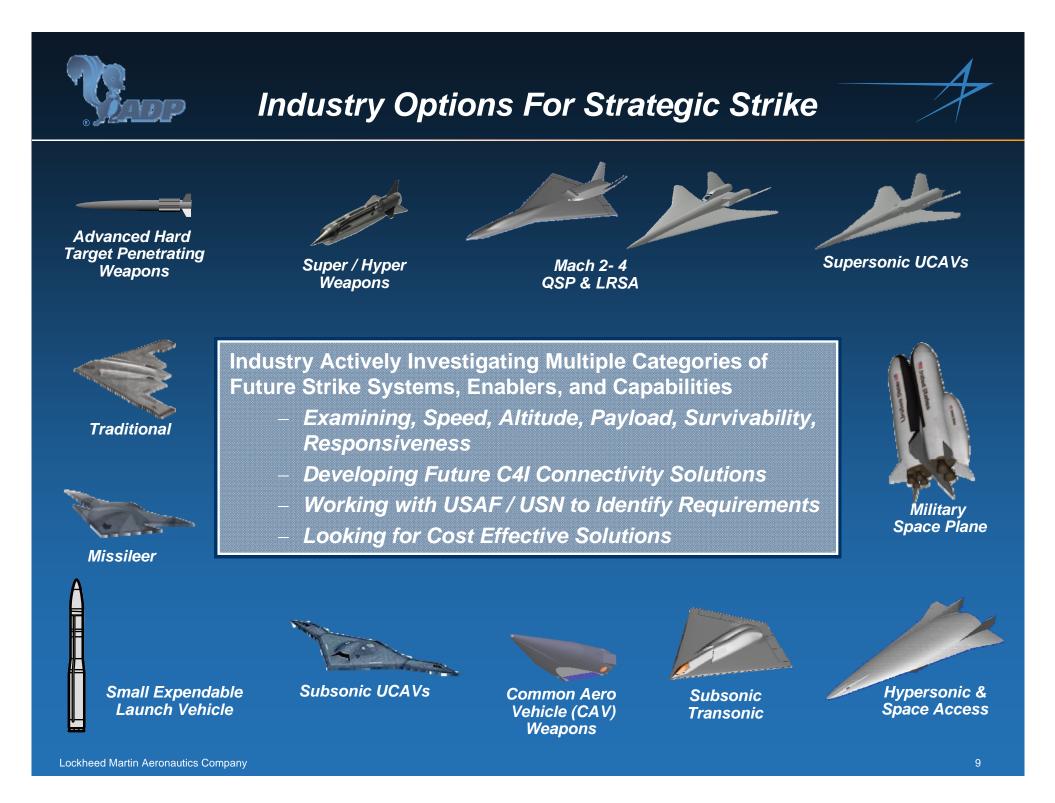
High Value, Time Critical Target (TCT) Set Must Be Prioritized

- Majority Are Fixed, Preplanned
- TBM / SAM Pop Up Targets Included
- Target Rich in Large Scenarios
- "Lone Ranger"



Future Strategic Strike System Options







Attributes for Precision Engagement

1. Reach

– Range, Anti-Access, Multiple Platform Compatibility

2. Responsiveness / Speed

 Combination of Reach, Speed, and the Right Payload for the Target, Multi-Vector Approach

3. Lethality

Precision Required, Soft, Hard, HDBT, Collateral Damage

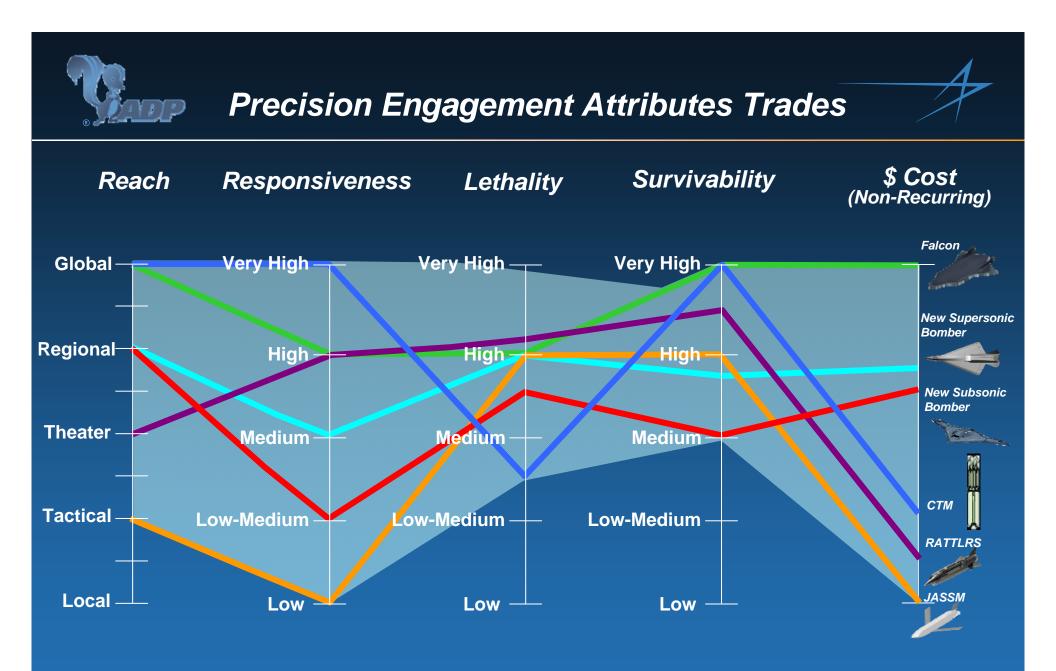
4. Survivability

– Altitude, Speed, Special Technology

5. Cost

 Sufficient Production Numbers, Affordable Manufacturing Methods

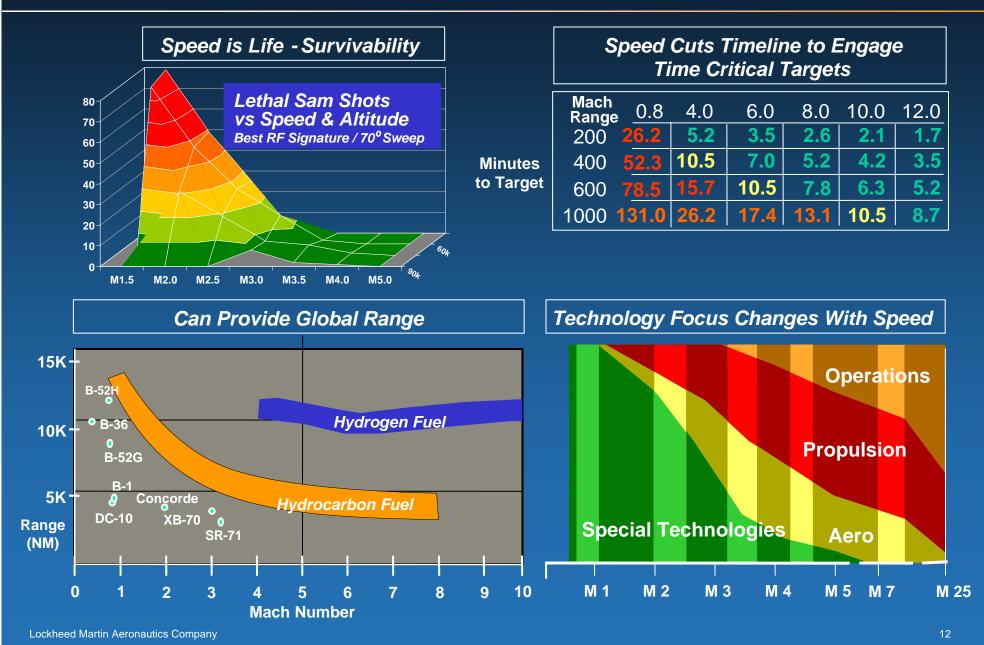
It All Depends on ... the CAPABILITIES Required



Requirements Drive the Solution



Speed -The Attraction and Risk Remain





"The Holy Grail"



Let me get this right ... You want to:

- Geolocate terrorists or WMD to "1 foot"
- Reach out 2000 nm in "seconds"
- Deliver a lethal payload with "no collateral damage"
- Penetrate 200 ft of "super concrete ... steel preferred"
- ... and hold an "icy refreshing beverage"



Contact Information

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