### Headquarters U.S. Air Force

#### Integrity - Service - Excellence

# Precision Engagement

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## **Precision Engagement**

"The capability to locate the objective or target, provide responsive command and control, generate the desired effect, assess our level of success, and retain the flexibility to reengage with precision when required."

Joint Vision 2010



## Why Precision Engagement?

- Target characteristics
  - Hardening / buried
  - Urban location
- ROE / collateral damage concerns
  - "CNN effect"
- Trend of weapons development
  - Smaller size
  - Smaller warheads



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## **Target Execution**



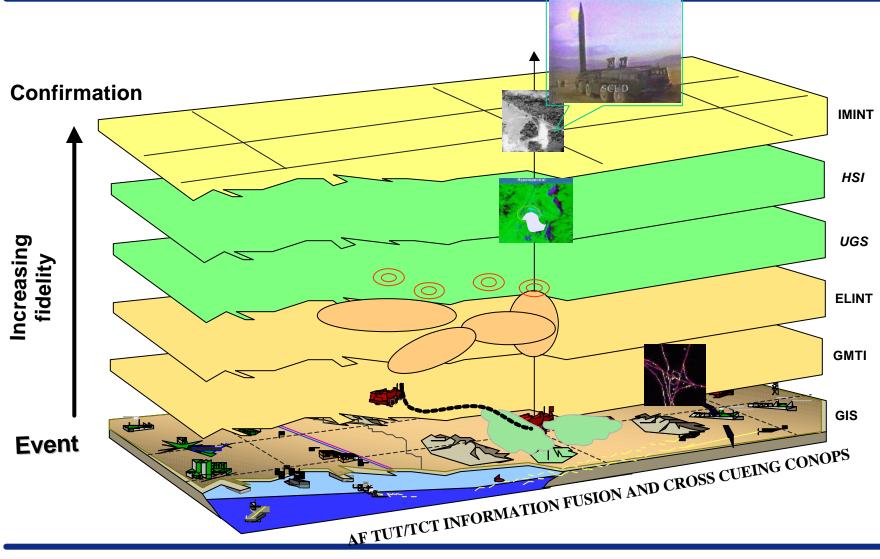
Targets may be classed as:

- Fixed target -- planned events
- Planned dynamic -- known targets, but unable to fix in advance
- Unplanned dynamic -- not known in advance

Any/all of these can be time critical



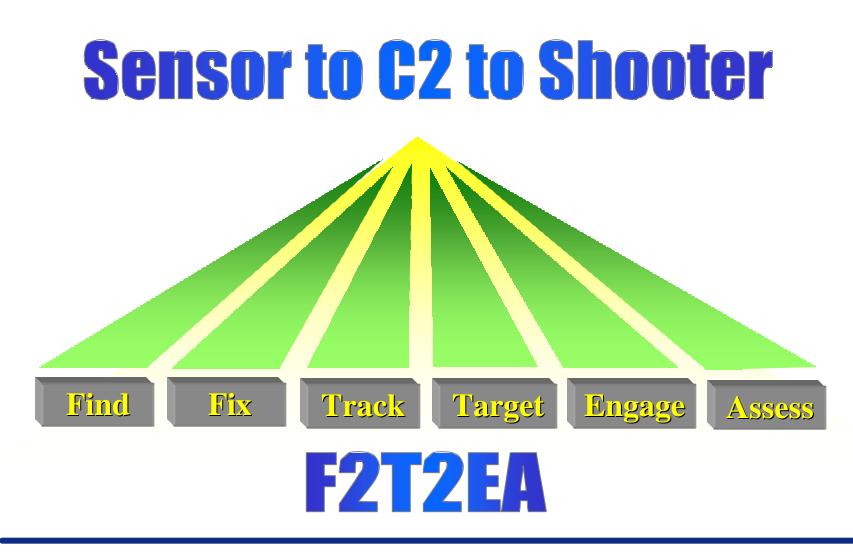
## The Operational Picture: Fusion is Critical



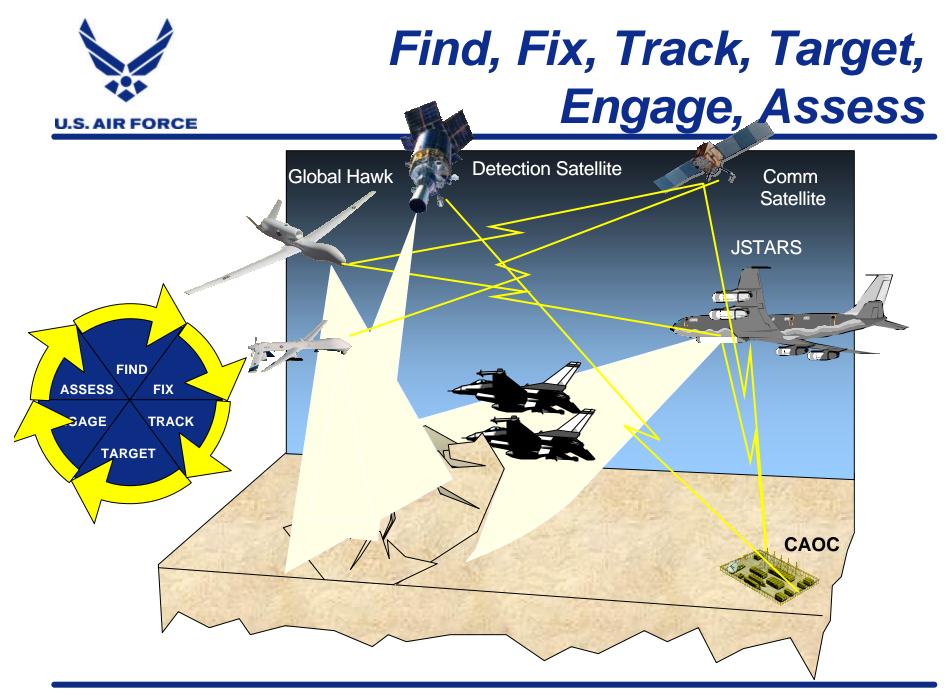
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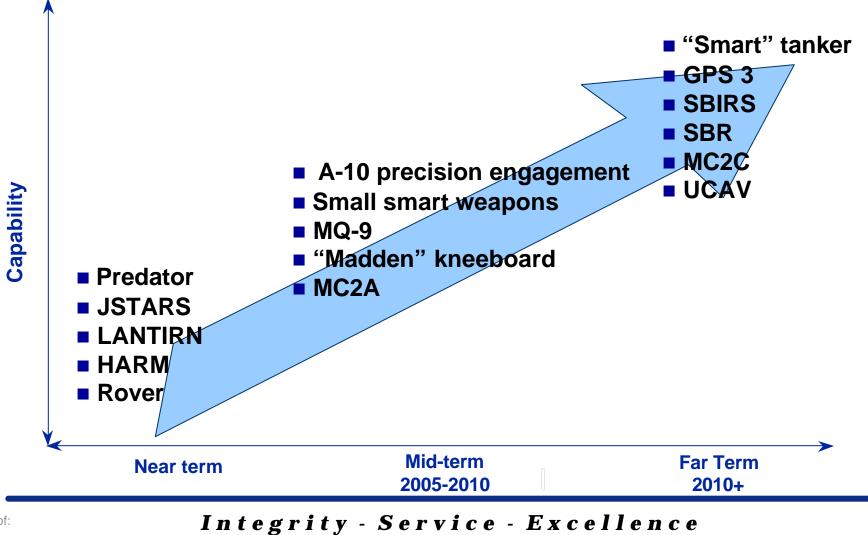
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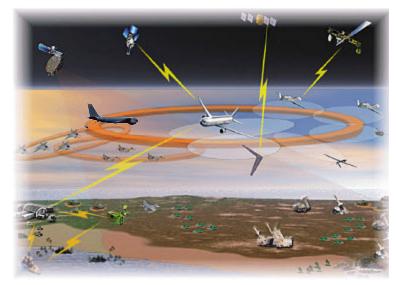




### Future Airborne Network: Integrated for Speed & Accuracy



- Global Information Grid
- Joint Battlespace Infosphere
- MC2C
  - Horizontal Integration
  - Machine-to-Machine
  - Auto Target Cueing/Recognition



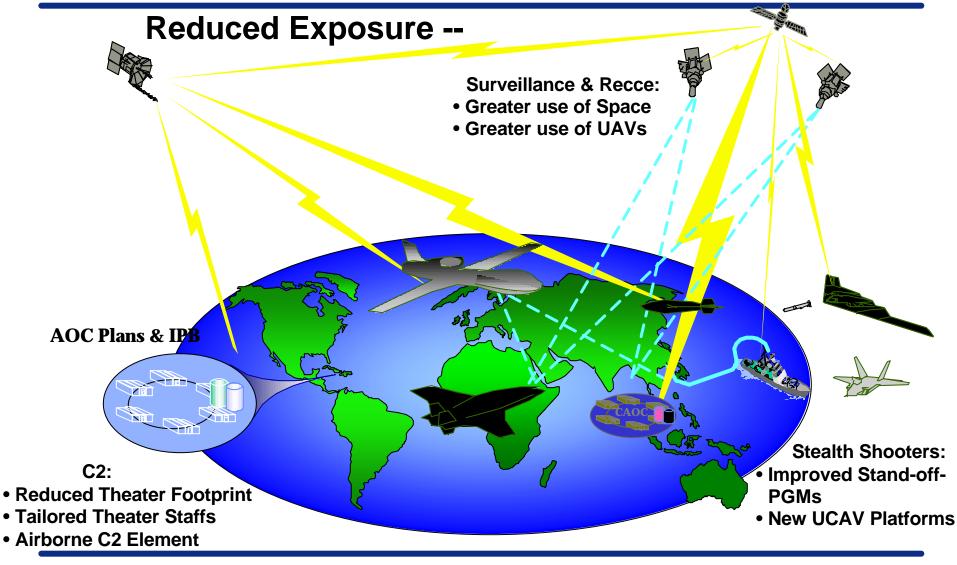
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### **Future Alternative Concepts**

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As of:



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### **Outlook**

#### Challenges

- Combat ID
- Bandwidth
- Distributed mission training/ops
- Personnel
- Weapons effects

### **Capabilities Required**

- Data fusion
- Secure links
- Secure GPS
- Auto target recognition
- TPED

#### Look beyond programs to capabilities for effects