

Headquarters U.S. Air Force

Fly – Fight – Win

Precision Strike Association Winter Roundtable

Application of ISR Capabilities to Tighten the Kill Chain: USAF Perspective

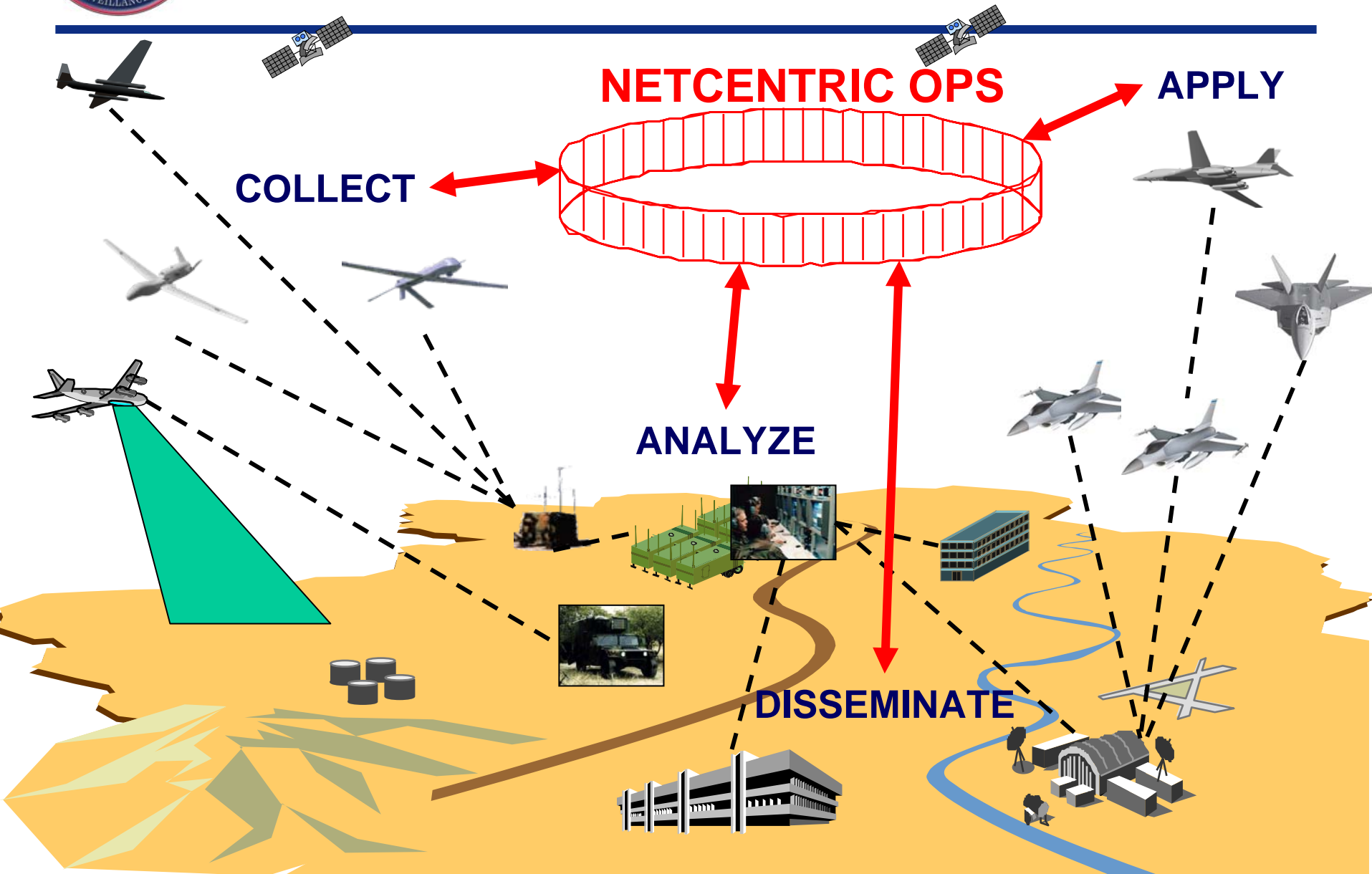


Colonel Dash Jamieson

Director of ISR Transformation, HQ USAF



ISR Effects



COLLECT

NETCENTRIC OPS

APPLY

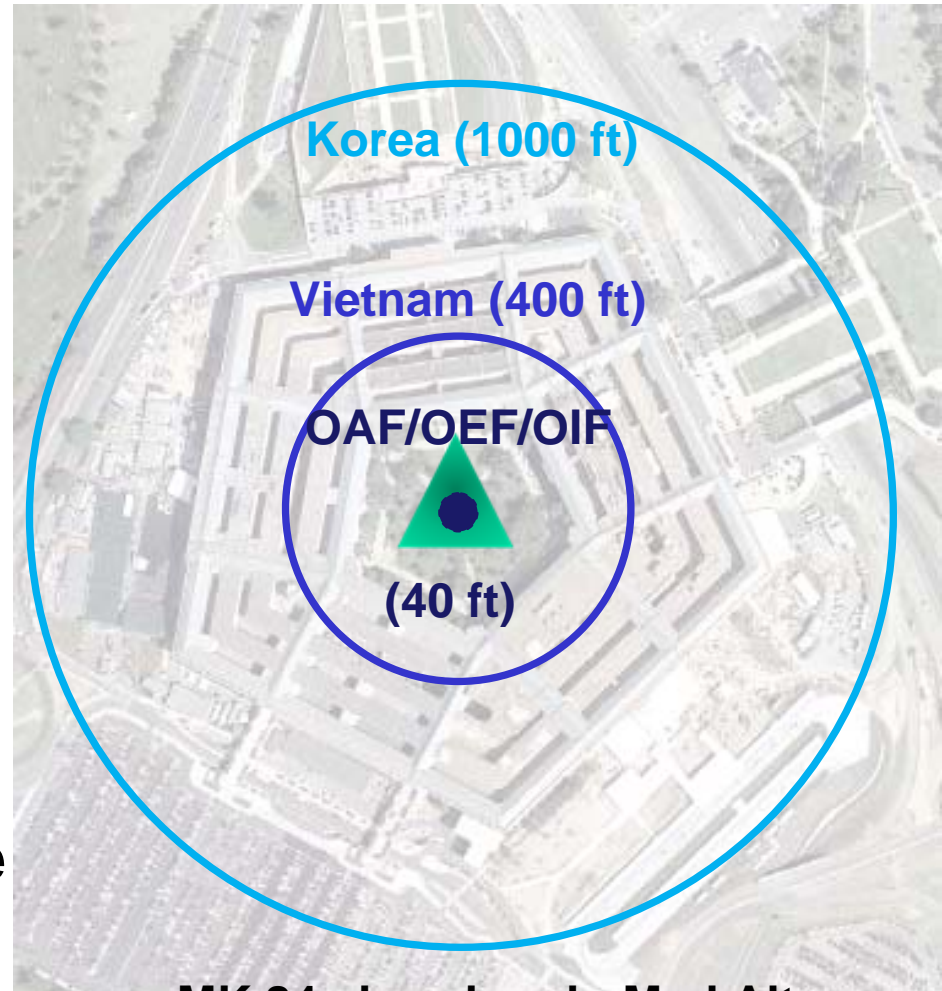
ANALYZE

DISSEMINATE



Changing Focus

- **ISR has always been about the kill chain**
 - **Artillery spotting**
 - **Roots of airpower**
- **20th century – Hitting Targets**
 - **Anywhere, anytime**
- **21st century – Determine and Assess Effects**
 - **Kinetic or non-kinetic**



MK 84 class bomb, Med Alt

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The Prominence of ISR Operations

- **Not just the enemy or type of war**
 - **Non-state actors, Irregular warfare**
- **Expectations**
- **Desert Storm: 99% of sorties had assigned targets**
- **OIF: 99% of sorties take off w/unknown target**
- **Requires flexibility**
 - **Extremely netted operations**
 - **Global effects**
 - **Minimal footprint, risk**
 - **Projects power, not vulnerability**



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Optimizing the Kill Chain



“Interoperability is all about what capabilities I have that can make your operations better. Interdependence is all about what you need done that you can’t live without, (and) my capability is the only capability you have.”

General Ronald E. Keys



Predator Video

FRIENDLIES

SNIPER



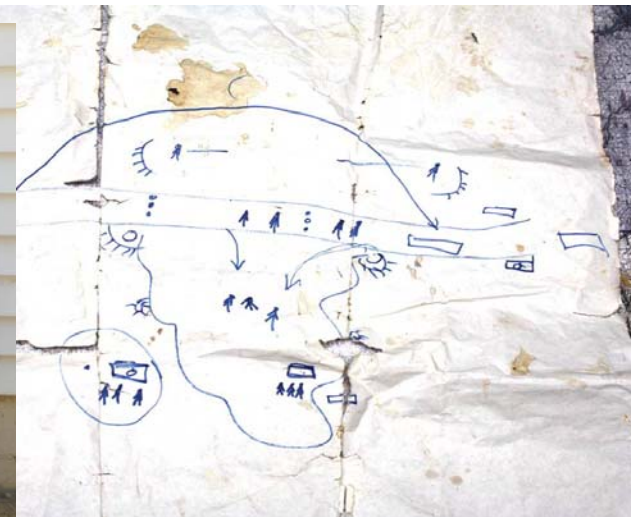
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The Wave of the Present

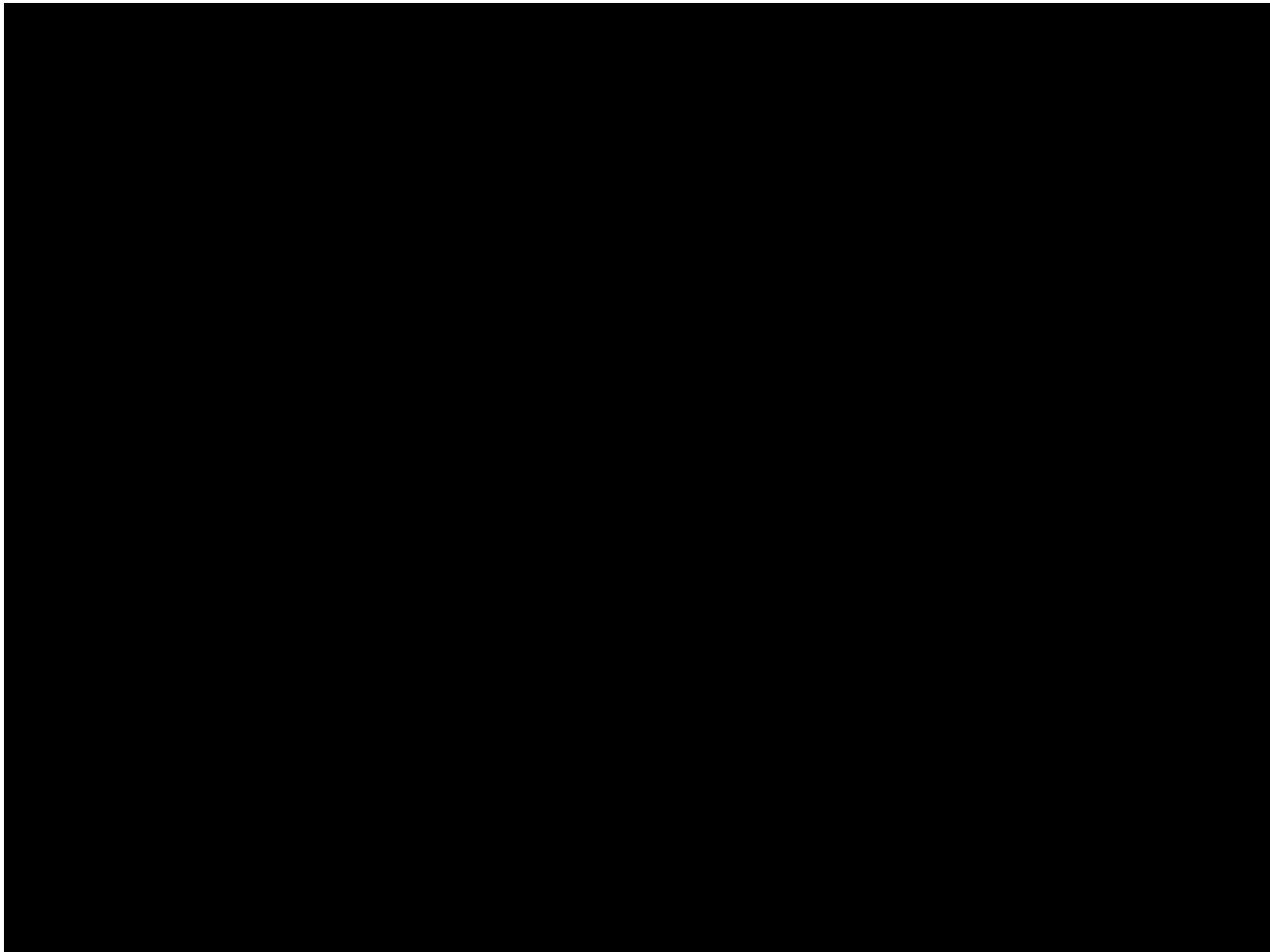
How Do We Improve Today?

- UAS role surpassing expectations
 - Capability, versatility
 - Value for cost
 - Reliability, maintainability
 - Significantly reduce risk
- Deputy SecDef Memo 13 Sep 07





F2T2EA...and E Again



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ISR Inventory Evolving



- Paradigm shift in terms of iron
- Legacy ISR Aircraft: LD/HD won't be fixed through procurement
- Mission Migration From Manned To Unmanned
 - Deliver wide range of kinetic and non-kinetic effects
 - Increased ranges, loiter times, payloads with decreased risk and footprint



- Sensor-Shooter line blurring
 - UAS adding attack capability
 - Next gen aircraft incorporate ISR capability



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F2T2EA to F3



Predator: 600+ hours looking for and tracking al-Zarqawi

+



2 F-16Cs: 10 minutes of force application

=



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Self-Imposed Hurdles

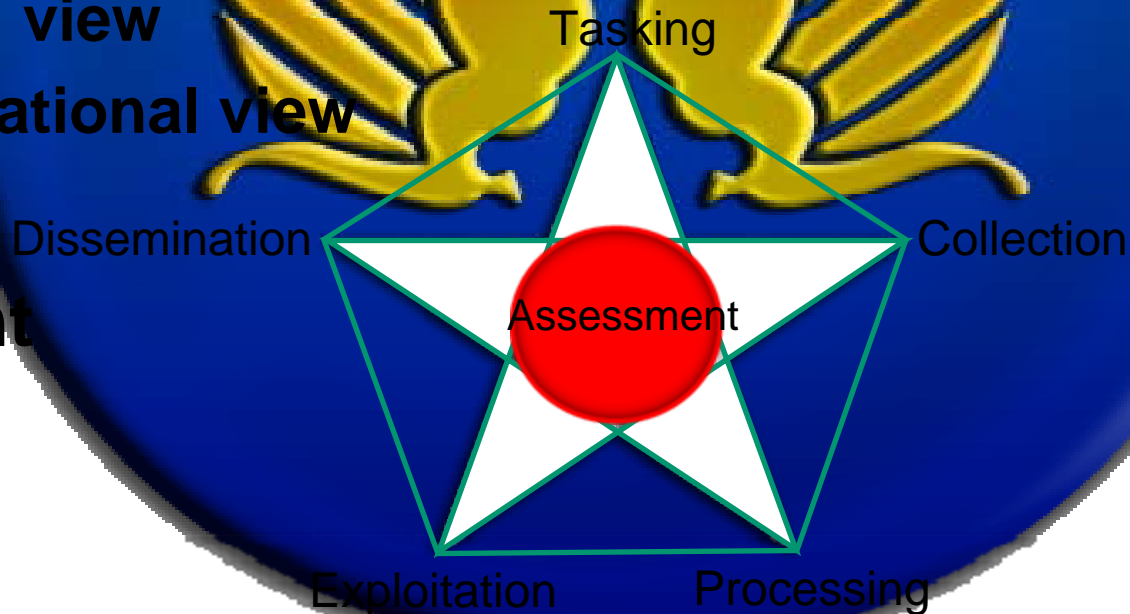
Overcoming Semantics

- Strategic – Operational – Tactical
 - Effects not platforms
- Sensor – Shooter
 - Nomenclature constricts potential
 - Misperceptions
 - F/A and *non-traditional ISR*
 - RQ can't shoot
- ISR: Support or Operations?
 - ISR *Is* Ops...the *Hunter* in Hunter-Killer



ISR Capabilities

- Result in a value-added effect
- Intelligence cycle as a lens
 - Traditional view
 - Transformational view
- Assessment



Cross-domain integrated ISR optimizes effects chain

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