



U.S. AIR FORCE

Air Force Information Operations



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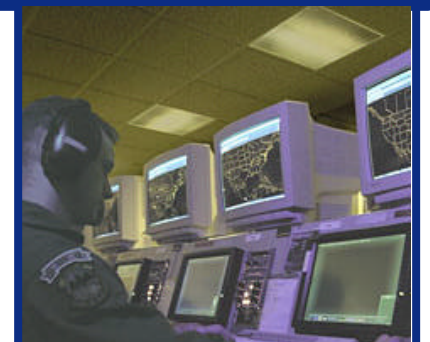
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Information Operations



***Those Operations Conducted to
Achieve Information Superiority.***





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Information Superiority

- **Knowing What You Need to Know to Win**
 - ...It Is Being Able to 'See' the Battlespace
 - ...Find Targets, Fix Targets, Assess Targets
 - ...Find Threats...and Turn Them into Targets
 - ...Warn
 - ...Determine Effects
 - ...Know the Enemy Better Than He Knows You
 - ...See the Battlespace and Keep Your Enemy in the Fog
- **ENABLES VICTORY IN WARFARE**

Information Superiority Gives Decision Superiority



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Information Superiority

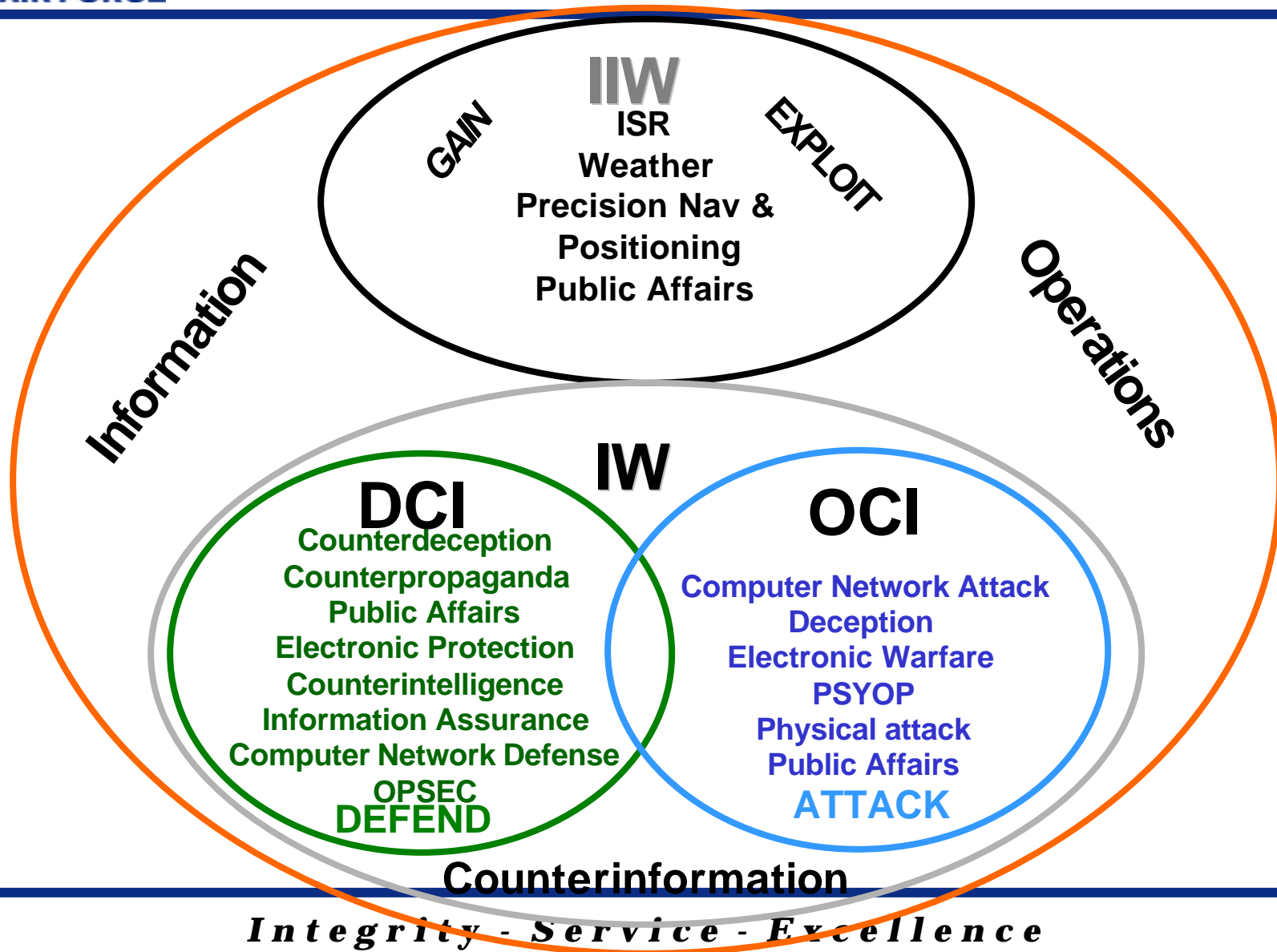
- **Information Superiority, Like Air Superiority**
 - ...Doesn't Just Happen
 - ...You Have to Fight to Get It and Keep It
 - ...Requires Multiple, Complex Ops to Achieve
 - ...Enables All Other Ops
 - ...is Required to Win
 - ...is Usually Taken for Granted by Others

- **Unlike Air Superiority**
 - ...the Info Superiority Fight Begins Well Before the First Weapon Goes Off
 - ...it is Fought in Air, Space, Ground, and Information Domains



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AF Doctrine AFDD 2-5





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Information In Warfare (liW)

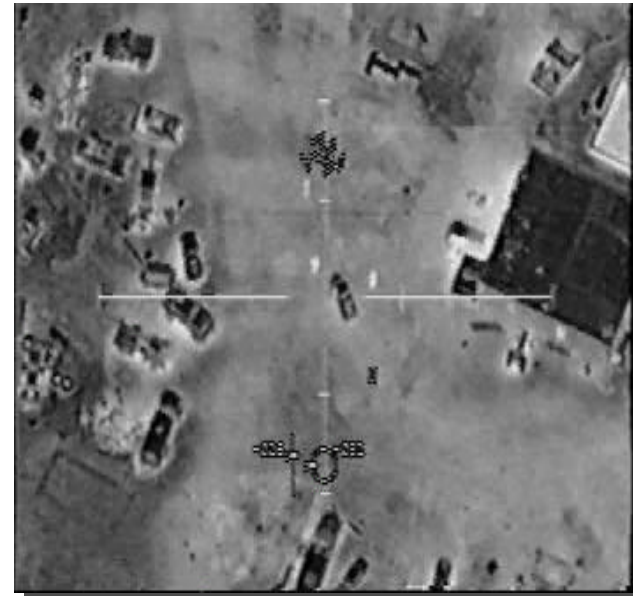
- **Finds Targets...Turns Threats Into Targets**
- **In Your Face**
- **Begins Well Before Fight**
- **Must Lead the Fight**
- **Confirms PBA/IPB**
- **Fundamental to Knowing the Enemy**
- **Must Be C2'd**
- **Uses Air, Space, and Human Assets**
- **Uses Air Force, National, and Other Service Assets**



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Goal: Knowledge Dominance

- Persistent, focused, global surveillance in peace
- Alert decision-makers of emerging situations and threats
- Seamless transition to persistent, PBA in crisis
- Enable commander to produce desired effects to win





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liW Concerns

- Battlespace transformed by information technology
- Sophisticated foes threaten US interests at home and abroad
- Technology integration and acquisition timelines
- Enemy Camouflage, Concealment, Deception and Counter Measures
- Anti-access and asymmetric threats
- Complexity of terrain
- Environment/Weather
- Fleeting targets
- Personnel Tempo





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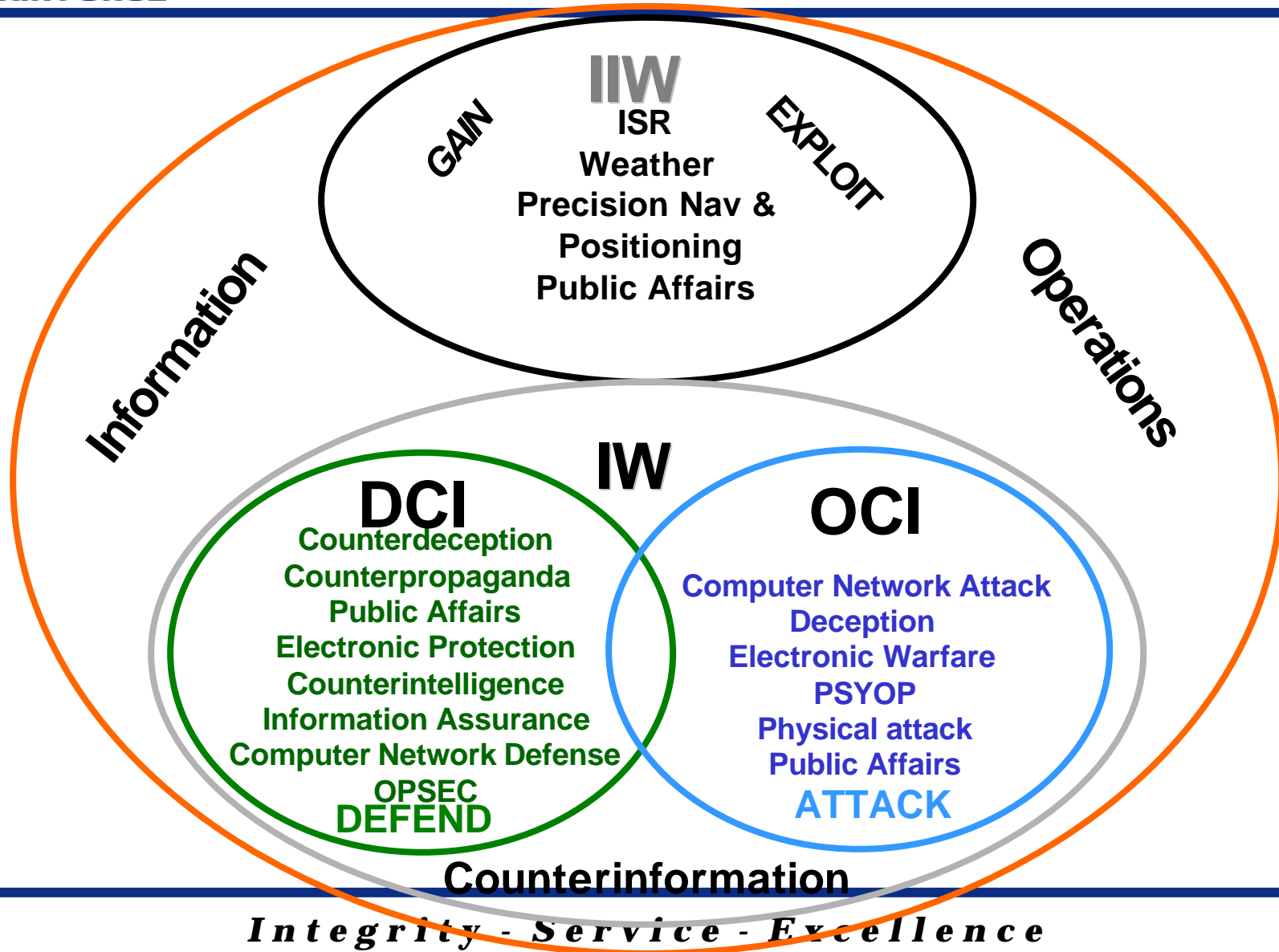
Required IIW Capabilities

- **Multi-sensor C2 and ISR constellation**
- **Immediate and continuous access to shared, scalable, accurate, timely visualization of the battlespace**
- **Predictive awareness of adversary intentions and reactions**
- **Distributed ISR operations**
- **Collaborative environment that allows decision-makers and analysts to interact real-time**
- **Knowledge dissemination that allows rapid reaction to operational requirements and promotes knowledge superiority**
- **Responsive planning to established and emerging requirements**



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AF Doctrine AFDD 2-5

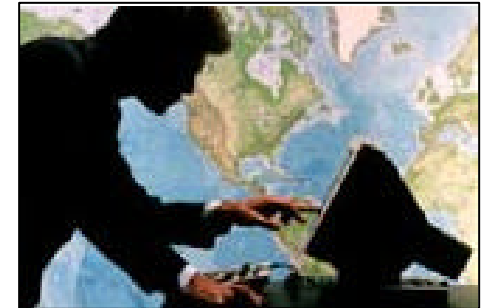




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Information Warfare

- Today...Combat Ops Depend on Secure Info
- Not Just Cyber
- Must be Normalized as Any Other Weapon
- Integrated Ops by JFACC
- A Force Multiplier
- Denies Enemy's View of the Battlespace





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Information Warfare

- Defends Networks - CND
- Defends Information - IA
- Defends Aircraft - EP & ESM
- Gain, Exploit, Attack, Defend - PA



- Attacks Radars - EW
- Attacks Networks - CNA
- Attacks Info Sources - Phys Attack
- Attacks Morale - PSYOP



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Information Warfare Flights

- Infusing IW flights into NAFs and MAJCOMs for AOC Operation
- Integrate full spectrum IW capabilities with Major Command Information Assurance capabilities

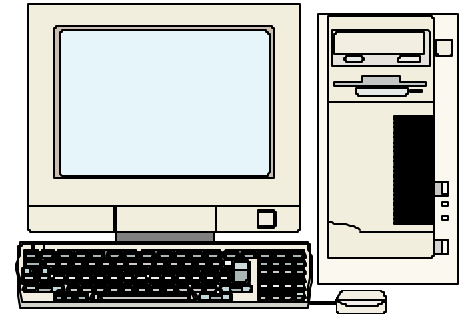




Information Warfare Concerns

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- Battlespace transformation caused by information technologies
- Technology integration and acquisition timelines
- Sophisticated foes threaten US interests at home and abroad
- Engaged in multiple AORs 24/7 against fleeting targets
- Access
- People
 - Training
 - Personnel Tempo
 - End strength





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Homeland Security Issues

- **In the past**, relied on two oceans, friendly nations, and robust nuclear triad to protect our homeland.
 - Homeland defense's primary focus was deterring the nuclear threat.

- **Today**, our adversaries' goals include creating terror through disruption of this nation's economic system, population centers, and infrastructure.
 - Deterrence theory may not work. . .

- **Issue**: How do you employ IO for Homeland Defense?



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Summary

- **IO Must Be Integrated With All Other Operations To Win**
- **Requires trained, experienced IO warriors...keeping pace with technological advancements...using proven tactics, techniques and procedures**
- **Technology has allowed us to dramatically broaden where effects can occur**
- **Stepping Out to Normalize Information Operations**