UNCLASSIFIED//FOUO

Maj Gen Paul Dettmer Assistant DCS for ISR

OF THE 21ST (ENTURY



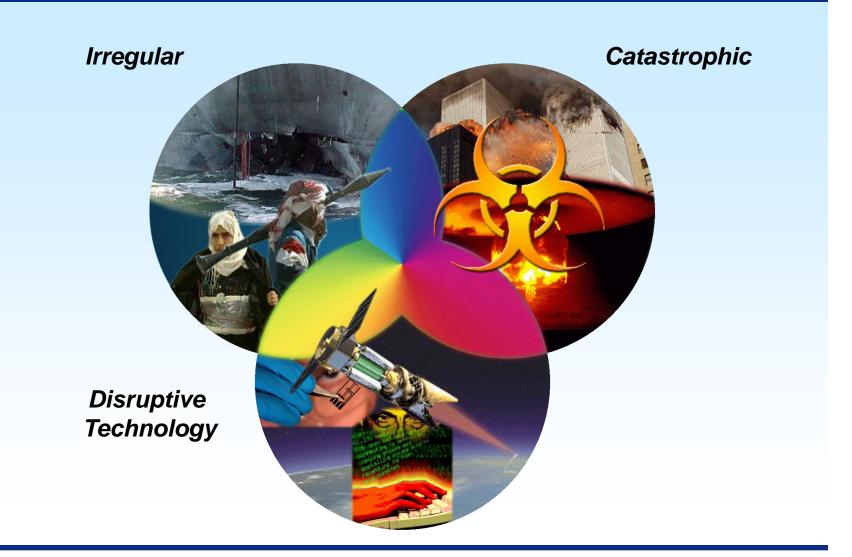
The Threat Spectrum



Air Force Global Operations



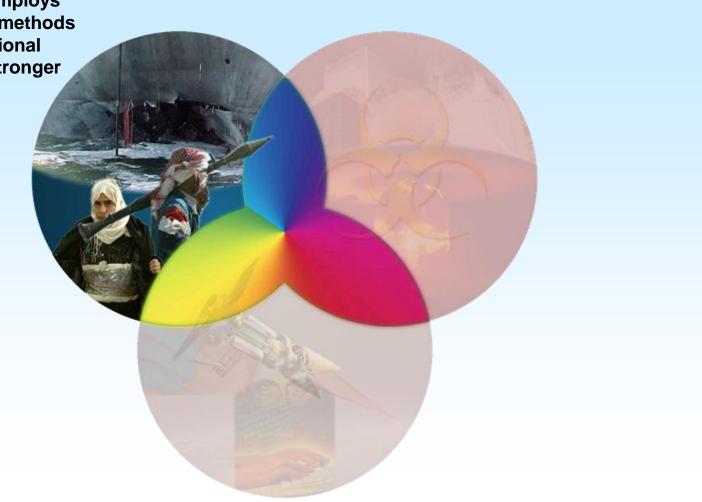
Non-Traditional Threats





Non-Traditional Threats: Irregular

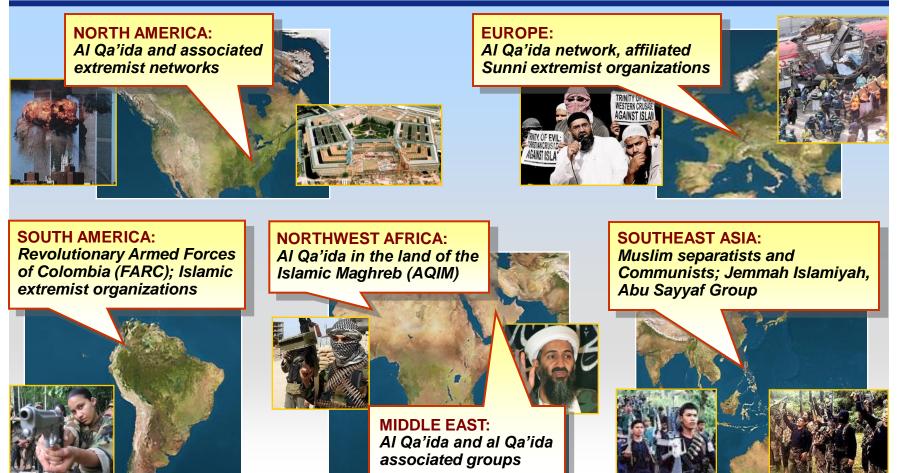
IRREGULAR: Employs unconventional methods to counter traditional advantages of stronger opponents





Irregular Threat: Terrorism

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Democracies at Risk Globally from Radical Islamic Terrorists



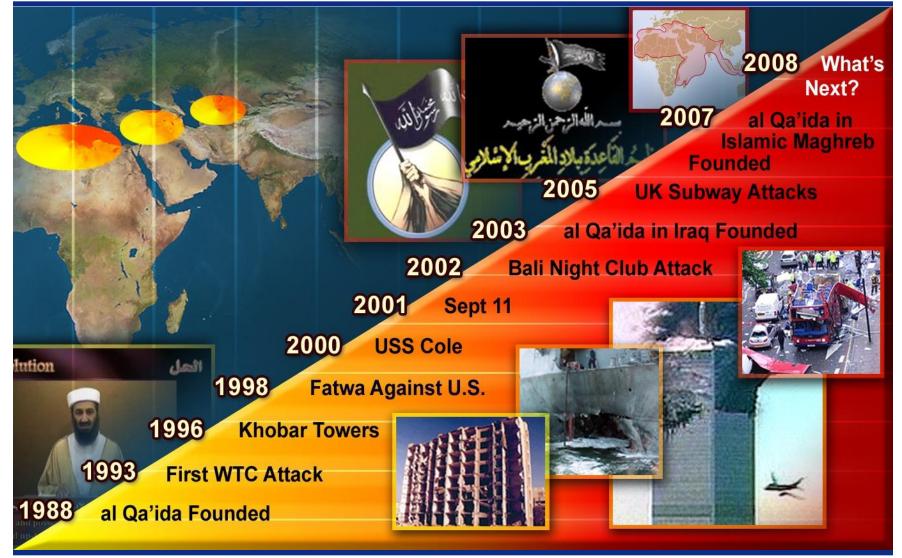
Terrorism: Rise of Extremist Ideology

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Al Qa'ida: Our Biggest Threat

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India: Mumbai Terror Attacks

- Pakistan-based extremist group Lashkar-e-Tayyiba (LT) executed attacks against 7 primarily Western targets in Mumbai
- LT is an Islamic extremist group with some ties to al Qa'ida; main goal removal of India from Kashmir
- At least 10 operatives involved in attacks
- IEDs, grenades and small arms used in attack; approx 195 reported dead, over 300 wounded









Event Significantly Altered Existing Complex Regional Dynamics



Emerging States: Iraq & Afghanistan

IRAQ

- Over 10,000 Airmen deployed
- USAF has flown over 380,000
 OIF sorties (~180/day in 08);
 140/day over the last 3 months
- AQI degraded, still dangerous
- Weak governance lagging behind security advances



AFGHANISTAN

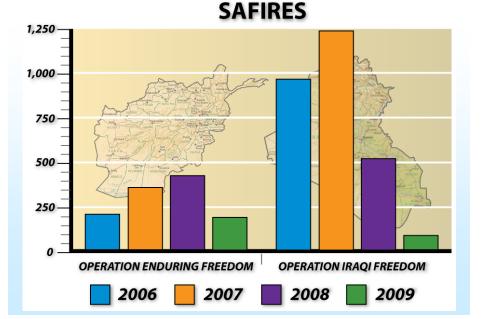
- Over 6,000 Airmen deployed
- USAF has flown over 210,000
 OEF sorties (~90/day in 08);
 180/day over the last 3 months
- Illicit poppy income aiding insurgency
- Government/Security Forces slowly improving





Emerging States: Iraq & Afghanistan

- Threats to Air Operations
 - Air Base Attacks
 - Suicide Attacks
 - Indirect Fire
 - Surface-to-Air Fire (SAFIRES)
 - Improvised Explosive Devices (IEDs)





IED vs. MRAP



2007 Suicide Attack—Bagram



CH-47

Predator



Emerging States: Iraq & Afghanistan





Africa: **Regional Issues**

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AQIM

- Al Qa'ida in the Islamic Maghreb largest threat
- Strategic energy resources primary target
- Criminal activity funds terrorism

DARFUR

- Large Al Qa'ida presence; fertile recruitment ground
- Rebellion, insurgency lead to world's worst humanitarian crisis
- 2 million internally displaced; 75% of farms and villages destroyed



HORN OF AFRICA

- Terrorist recruitment, training safe haven; Al Qa'ida-inspired Somalia-based networks expanding
- Ethnic conflict, domestic politics destabilizing region
- Porous borders enabling terrorist movement







Venezuela: Shifting Alliances

- Chavez pursuing "Bolivarian Revolution"
- Shift in arms purchases; Russia and China main suppliers
- Foreign policy campaign: Belarus, Russia, China, Syria, Iran, Qatar, Vietnam, Cuba, Bolivia



Chavez and Russian Prime Minister Vladimir Putin



Chavez and Iranian President Ahmadinejad



Chavez and Fidel Castro



Chavez and Nicaraguan President Ortega



Chavez and Bolivian President Morales



Chavez and Syrian President Bashir Assad



Chavez and Chinese President Hu-Jintao



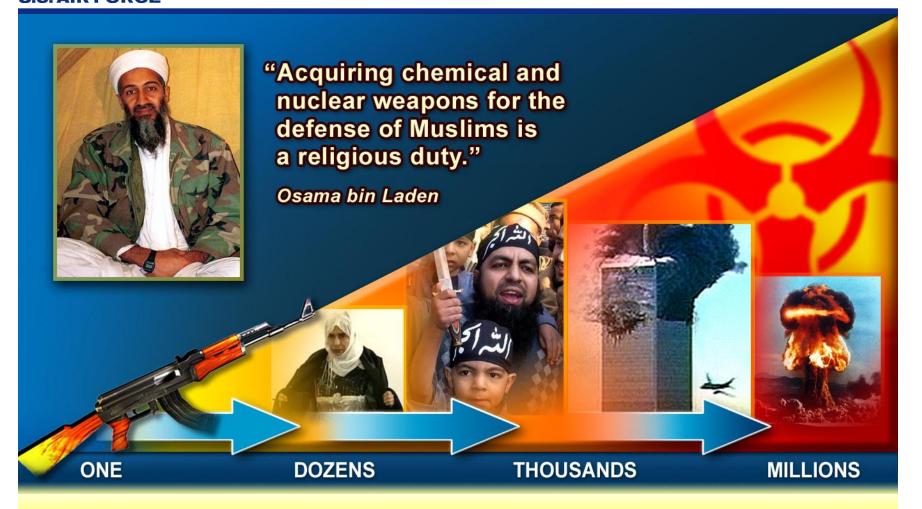
Non-Traditional Threats: Catastrophic

CATASTROPHIC: Involves acquisition, possession, and use of WMD or methods producing WMD effects

Integrity - Service - Excellence



Catastrophic Challenges: WMD Threat



Casualty Producing Capabilities

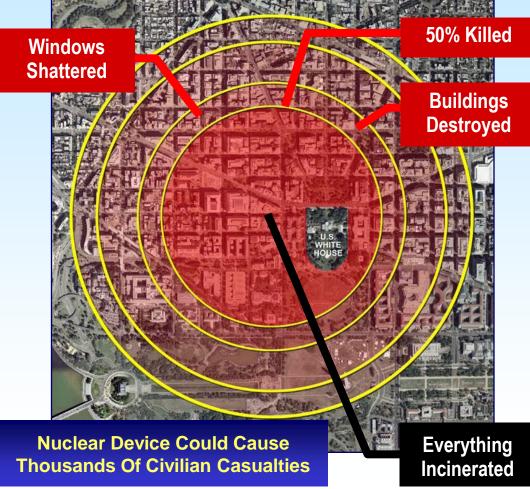


Catastrophic Challenges: WMD Proliferation

- Terror Scenario:
 - 10 KT Nuclear Weapon
 - Ground Burst near White House
 - Small enough to fit into a mini-van



Nuclear Weapon Detonated In Washington, D.C.





Iran: Catastrophic Threat

- Developing civilian nuclear capability; infrastructure could aid future weapons research
- Possible, but unlikely, to produce needed fissile material by 2009, more likely by 2015
 - Limited success with enriching uranium
 - However, technological challenges remain
- Rudimentary weapon within months to a year of obtaining fissile material
- SHAHAB-3 MRBM/ASHURA MRBM most likely candidate for nuclear delivery vehicle



Pres Ahmadinejad Inspecting Centrifuges



Range of Iran's Shahab-3 & Ashura Missiles



Ashura MRBM Launch



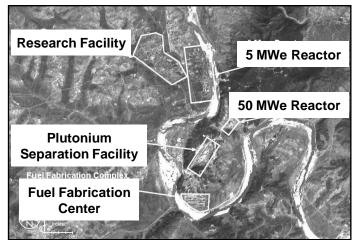
North Korea: Catastrophic Threat

- Assessed to have 6-12 plutonium weapons
 - Indigenously-produced plutonium
 - Low yield during nuclear test, more testing needed to refine design
- Probably pursuing uranium weapons, several years from enriching enough
- 25 May: conducted 2nd nuclear test; continued hostile rhetoric in wake of UN condemnation
- Technical ability to build nuclear warhead for current ballistic missiles
 - Using SCUD-based missiles for long range programs
 - Taepo Dong-2 (TD-2) could reach U.S. Territory; technical issues abound



TD-2

N. Korea Missile Ranges



Yongbyon Nuclear Complex



Syria: Catastrophic Threat

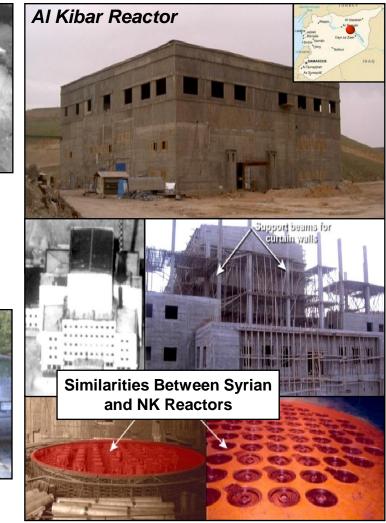
- Covert nuclear reactor destroyed by Israel, Sep 2007
- Sole function: Producing weapons-grade plutonium
- After attack, demolished site and removed evidence
- North Korean Connections
 - Provided experts and equipment in 2001
 - Multiple visits in 2007 including post-strike assessment



Post-Strike Removal



NK and Syrian Nuclear Experts



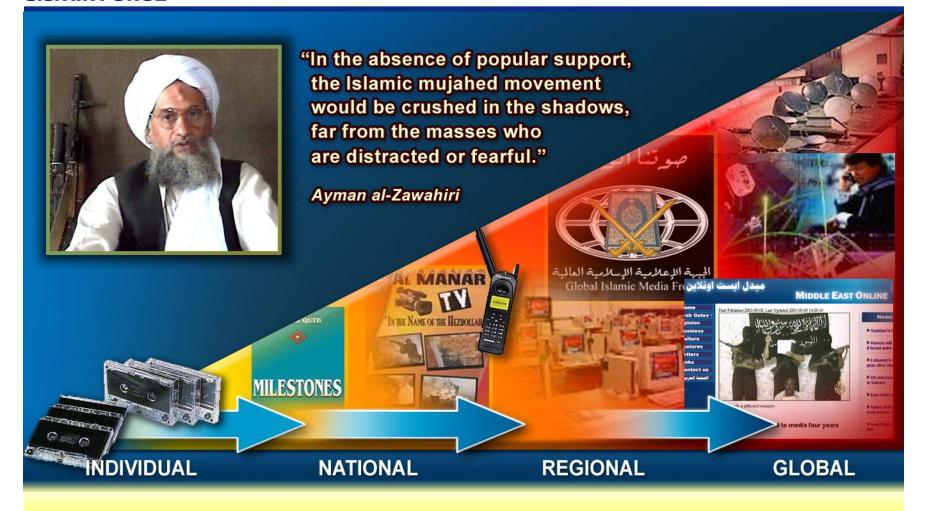


Non-Traditional Threats: **Disruptive Technology**



technology to negate current US advantage in operational domains

Disruptive Challenges: Terrorists' Increasing Comm Ability



Information Sharing Capabilities



Disruptive Challenges: Emerging Technology

Technolog

Globalization and commercialization of technology resulting in potential disruptive threats worldwide

Commercialization



GPS Jammers



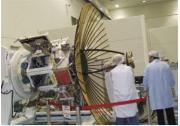
Laser



Biometrics/Nano



Anti-missile Defense



Satellites



Energy Directed

Cyber

TSAFE



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	Near-term	Mid-term	Long-term	
IRREGULAR	■ Al Qa'ida			
CATASTROPHIC	Bio-Terror (Anthrax)			
DISRUPTIVE	 Commercial Off the Shelf (COTS) Technology (GPS Jammers) 			



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	Near-term	Mid-term	Long-term
IRREGULAR		Globalization of Islamic Front	
CATASTROPHIC		Iranian Nuclear Weaponization	
DISRUPTIVE		Cyber Terrorism	



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