#### UNCLASSIFIED//FOUO

#### Maj Gen Paul Dettmer Assistant DCS for ISR

OF THE 21ST (ENTURY



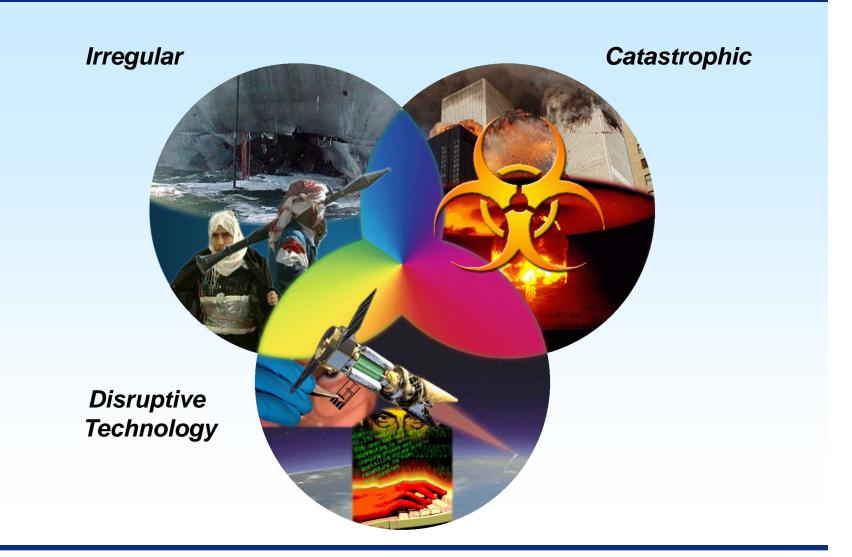
### **The Threat Spectrum**



**Air Force Global Operations** 



## **Non-Traditional Threats**





#### Non-Traditional Threats: Irregular

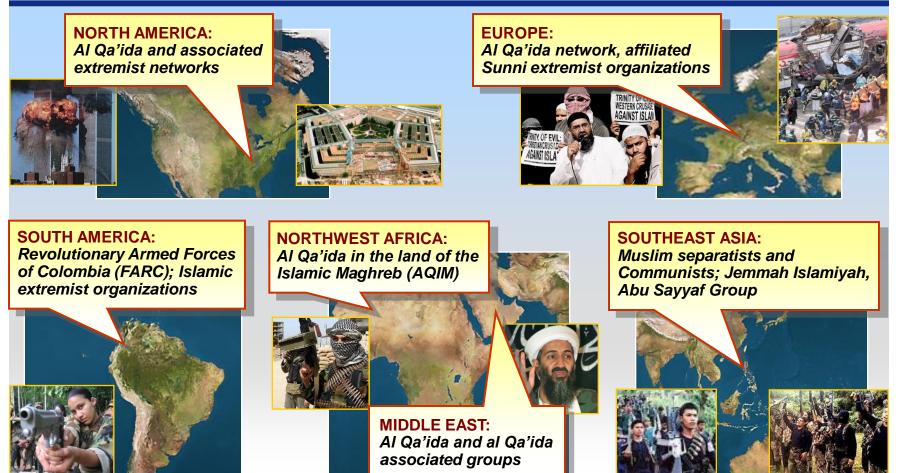
*IRREGULAR:* Employs unconventional methods to counter traditional advantages of stronger opponents





## Irregular Threat: Terrorism

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**Democracies at Risk Globally from Radical Islamic Terrorists** 



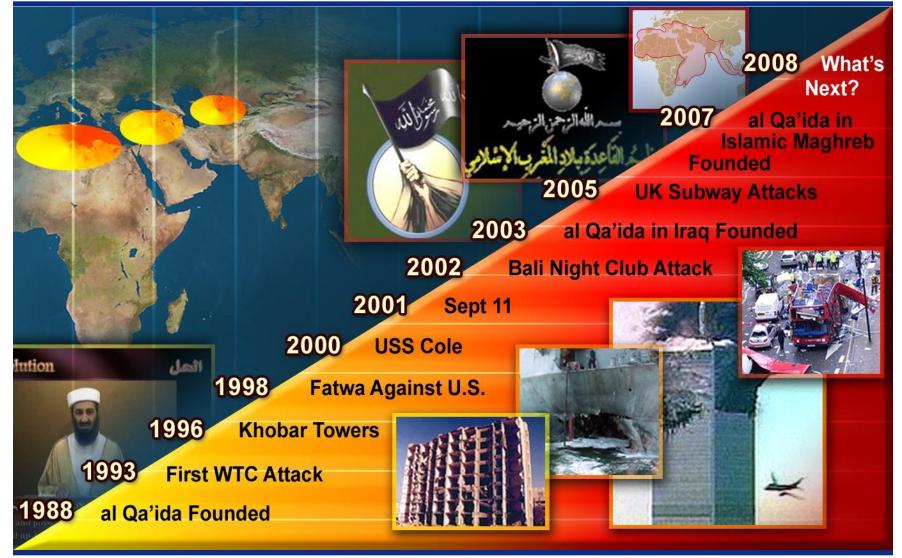
#### Terrorism: Rise of Extremist Ideology

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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

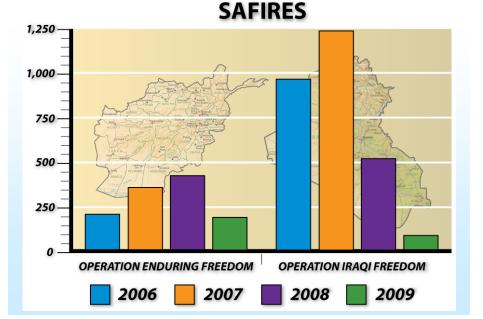
- Over 6,000 Airmen deployed
- USAF has flown over 210,000
   OEF sorties (~90/day in 08);
   180/day over the last 3 months
- Illicit poppy income aiding insurgency
- Government/Security Forces slowly improving





## 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



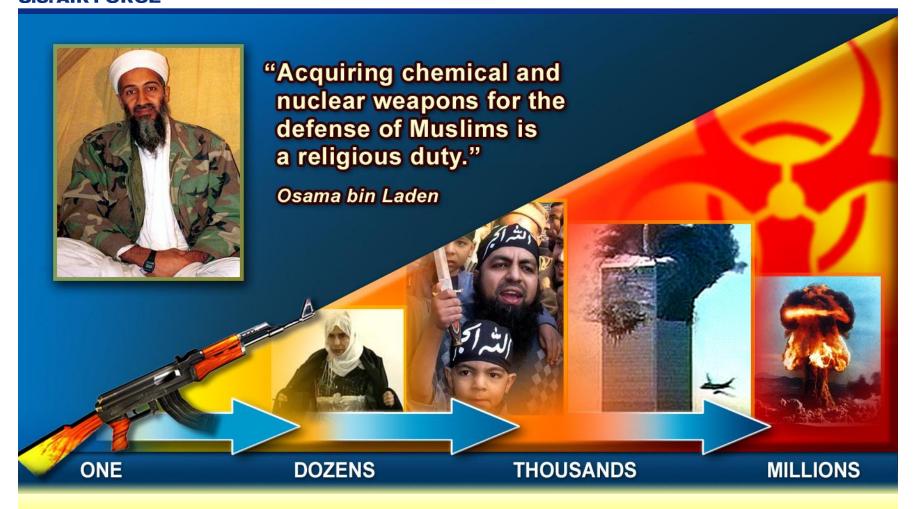
#### Non-Traditional Threats: Catastrophic

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

Integrity - Service - Excellence



#### Catastrophic Challenges: WMD Threat



**Casualty Producing Capabilities** 

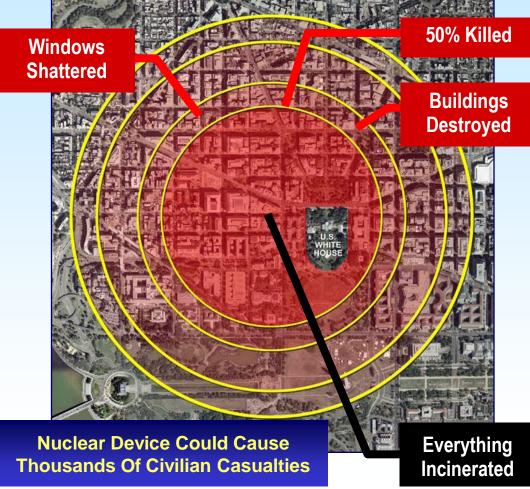


### Catastrophic Challenges: WMD Proliferation

- 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



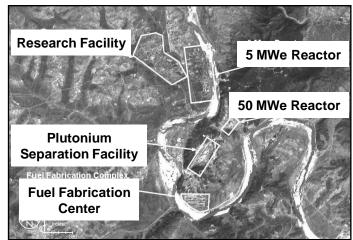
## North Korea: Catastrophic Threat

- 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 2<sup>nd</sup> 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

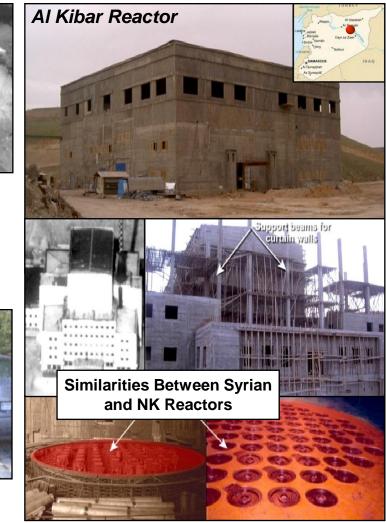
- Covert nuclear reactor destroyed by Israel, Sep 2007
- Sole function: Producing weapons-grade plutonium
- After attack, demolished site and removed evidence
- North Korean Connections
  - Provided experts and equipment in 2001
  - Multiple visits in 2007 including post-strike assessment



Post-Strike Removal

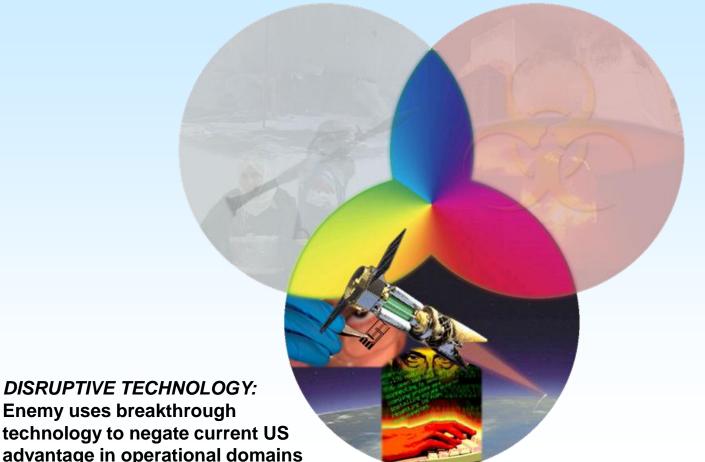


NK and Syrian Nuclear Experts



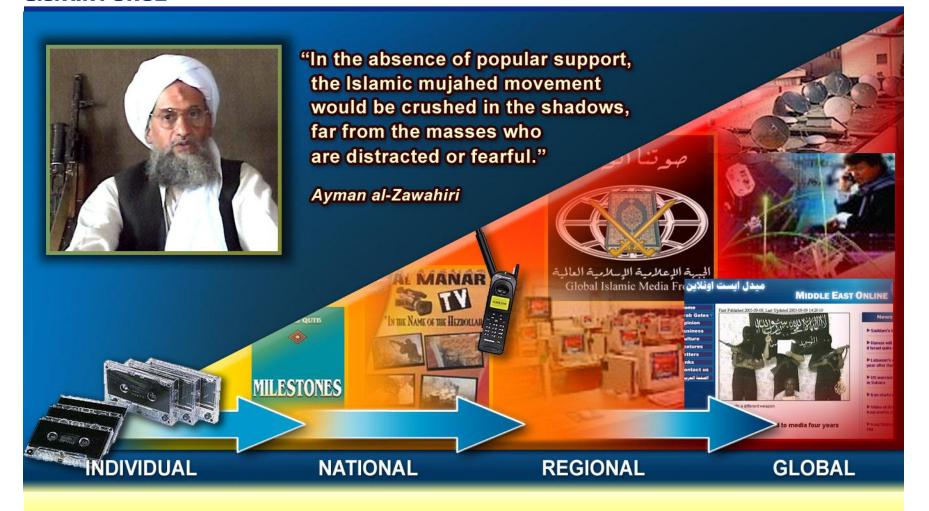


### Non-Traditional Threats: **Disruptive Technology**



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** 



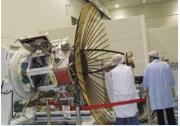
Laser



**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	<ul> <li>Commercial Off the Shelf (COTS) Technology (GPS Jammers)</li> </ul>			



#### **U.S. AIR FORCE**

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



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