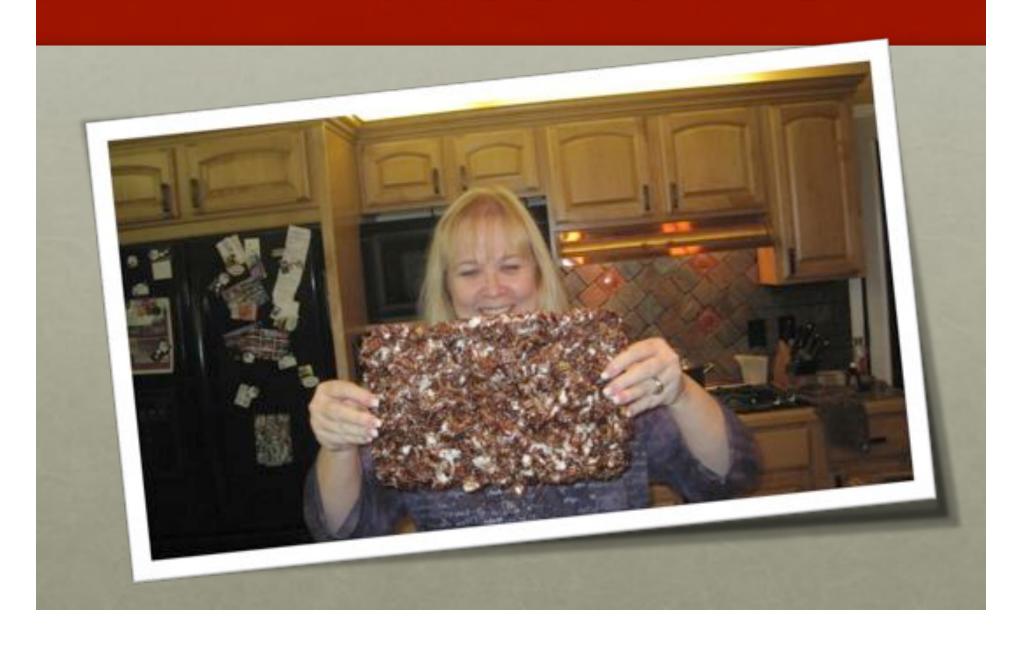
What Scares the Living IT' Out of Me

THE HISTORY OF THE FUTURE (UN-PC VIEWS ON SECURITY)



Winn Sch wartau, Founder, Security Experts
www.WinnSch wartau.Com
www.TheSecurityAwarenessCompany.Com

MY WIFE'S SNORING



WHAT SCARED ME IT-LESS 1989-1992

- Class I-IW: Loss of Privacy
 - Creeping Surveillance (Gov)
 - "You" Massive
 - Identity Theft
- Class II-IW: Unrestrained Espionage
 - Company/Company
 - Nation-state
- Class III-IW: Cyberwar/Infowar
 - Asymmetry (APT)
 - Cyberterrorism
 - Nation-state cyber conflict
 - Confocal Infrastructural Vulnerabilities



SCARED: 3 SECURITY DOMAINS



HUMAN

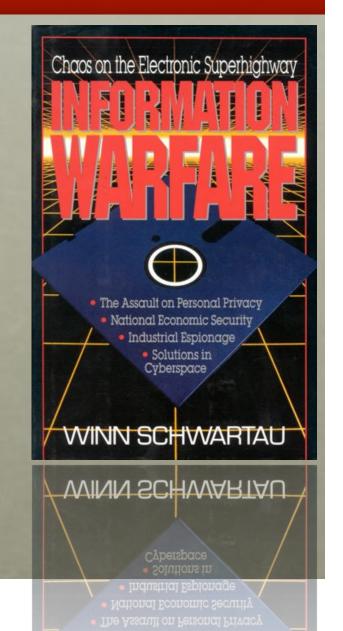


IGNORANCE (APATHY & ARROGANCE)

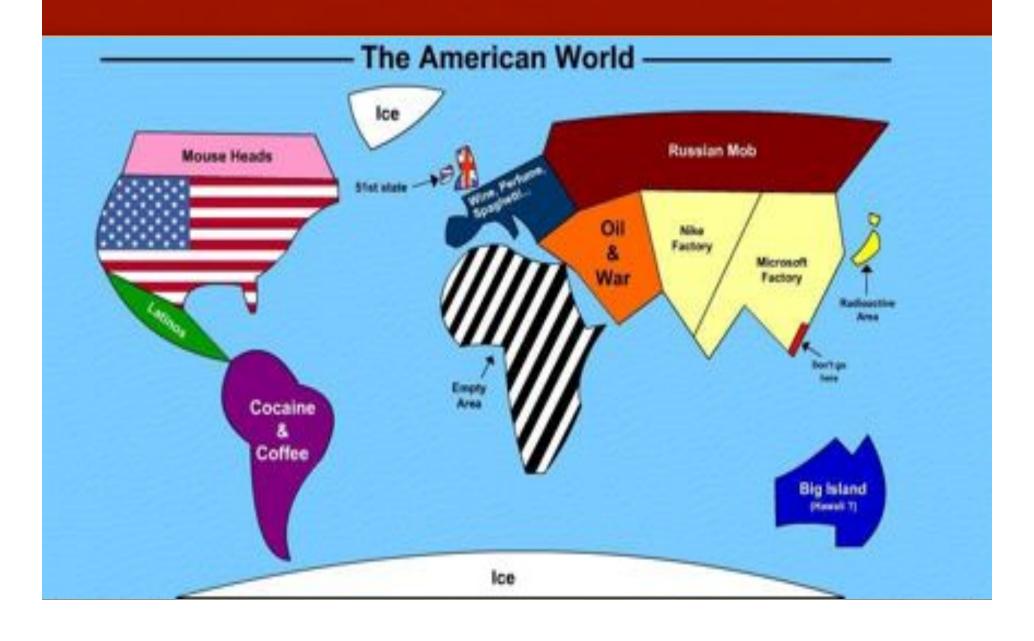


NOBODY GIVING AN IT ©

- "Electronic Pearl Harbor"
 - Winn Schwartau testified before Congress on June 27, 1991 (Coined the phrase)
- "Electronic Pearl Harbor"
 - CIA Director John Deutch testified before Congress, June 26, 1996
- "If the nation went to war today, in a cyberwar, we would lose."
 - Mike McConnell, U.S. DNI (2007-9)
- "There is the cyber capability to basically to virtually paralyze our country."
 - January, 2012, Leon Panetta



NON-GLOBAL VIEWS



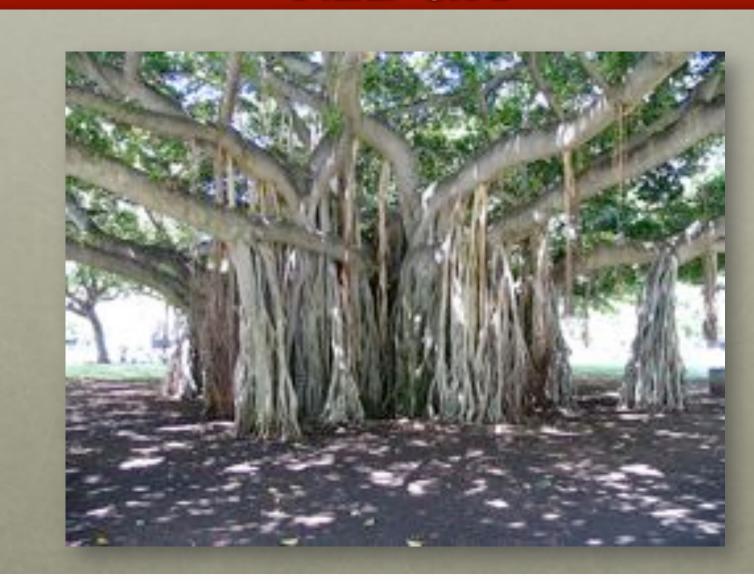
CHINA



DIRTY 4-LETTER WORDS

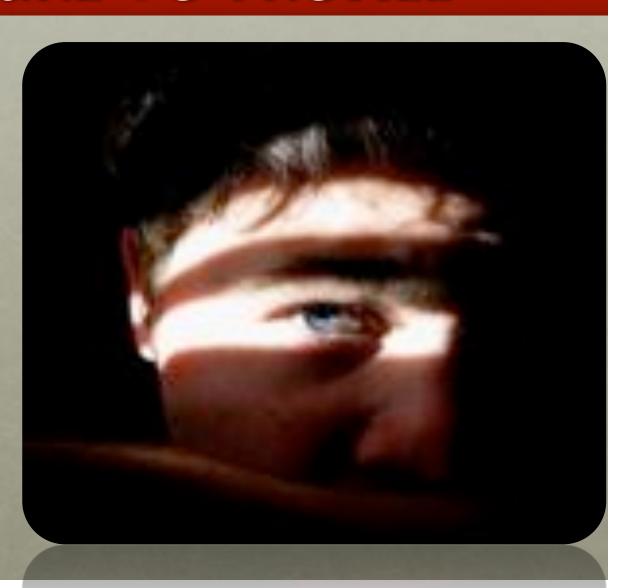


DIRTY 4-LETTER WORDS: REDUX



INSIDERS: A FAILURE TO PROFILE

- Errors
 - (Omissions and typos)
- Intent
 - (Improper vetting)
- Technical
 - (Root)
- Users
 - (Root of all error...)



LAWYERS



I CAN'T DEFEND MYSELF



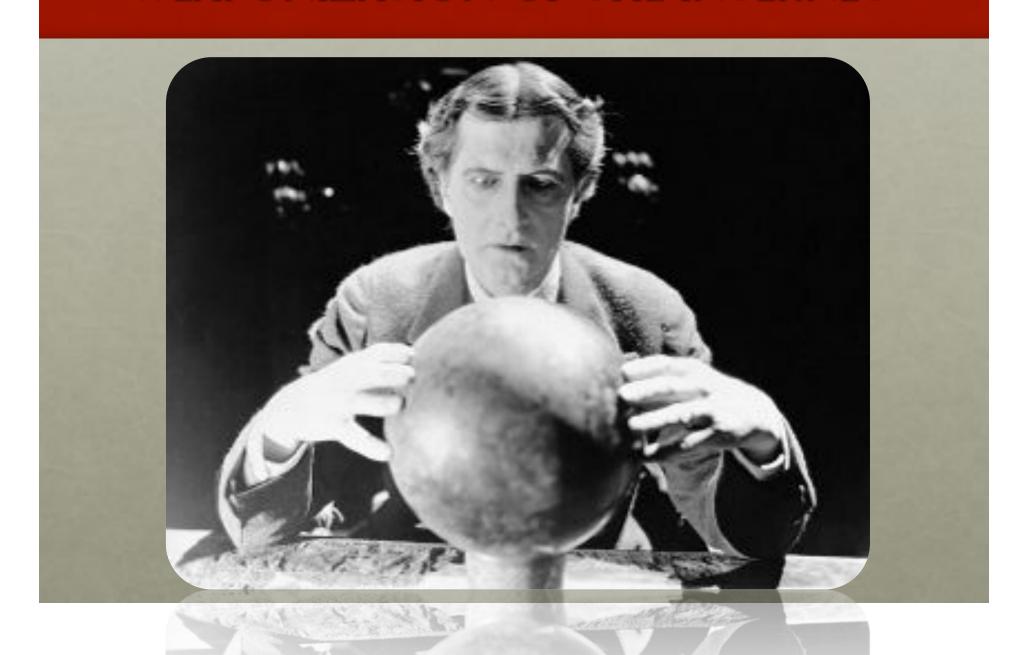
TECHNICAL



VENDORS



1989-1994: WE WARNED YOU: THE WEAPONIZATION OF THE INTERNET

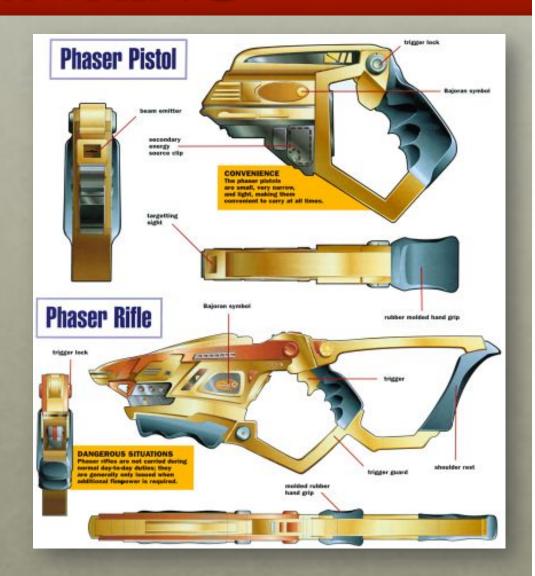


WEAPONIZATION OF EVERYTHING

• IT - Oriented

• Sort of IT-Oriented

Other Technical



ITTY DEFENSE

• Trying the same thing over and over in the hopes of getting a different result.



ASYMMETRICAL KINETIC RESPONSE



COMPLEXIFICATION



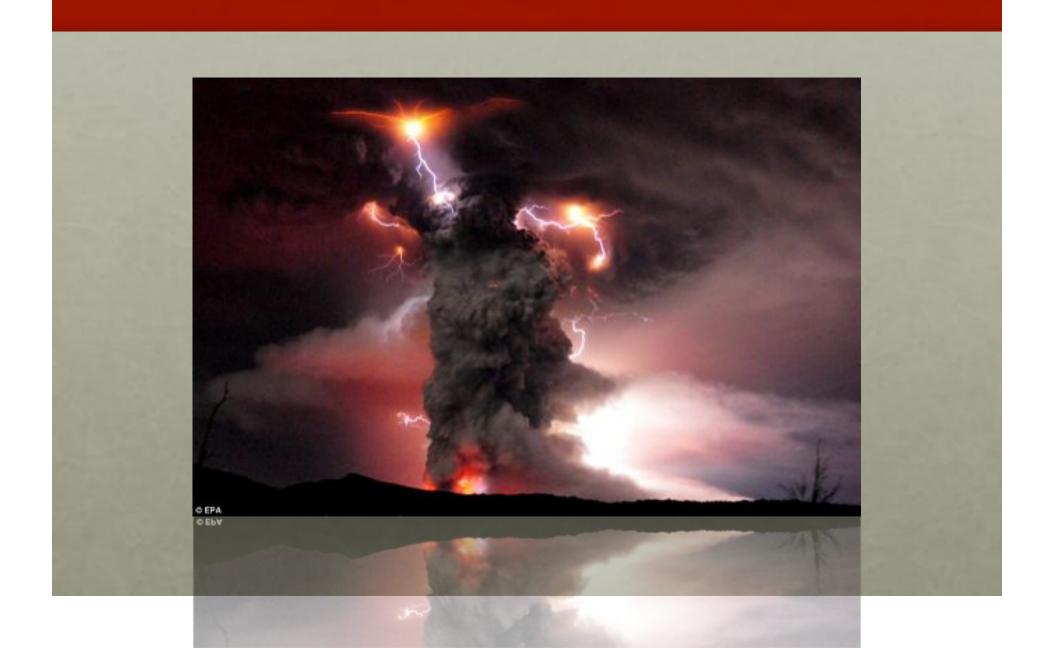
SIMPLIFICATION



OVER-RELIANCE: BINARY DEGRADATION = EPIC FAIL

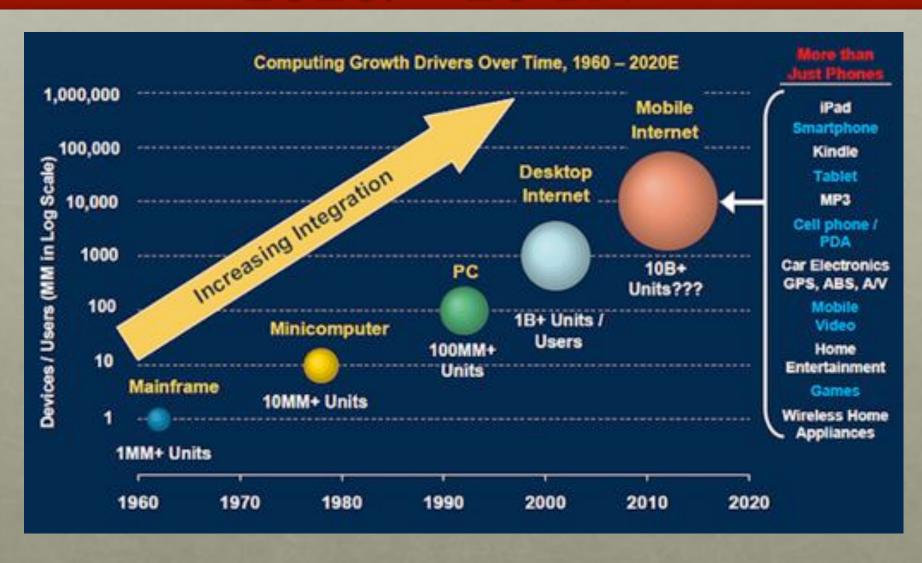


CLOUDBURSTS





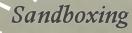
2014: 4 BN MOBILE DEVICES: 2020: ~ 20 BN



THUS, THE PERFECT STORM OF SECURITY

- Billions of intelligent mobile endpoints
- An inherently insecure backbone infrastructure
- Clueless users
- Smart bad guys

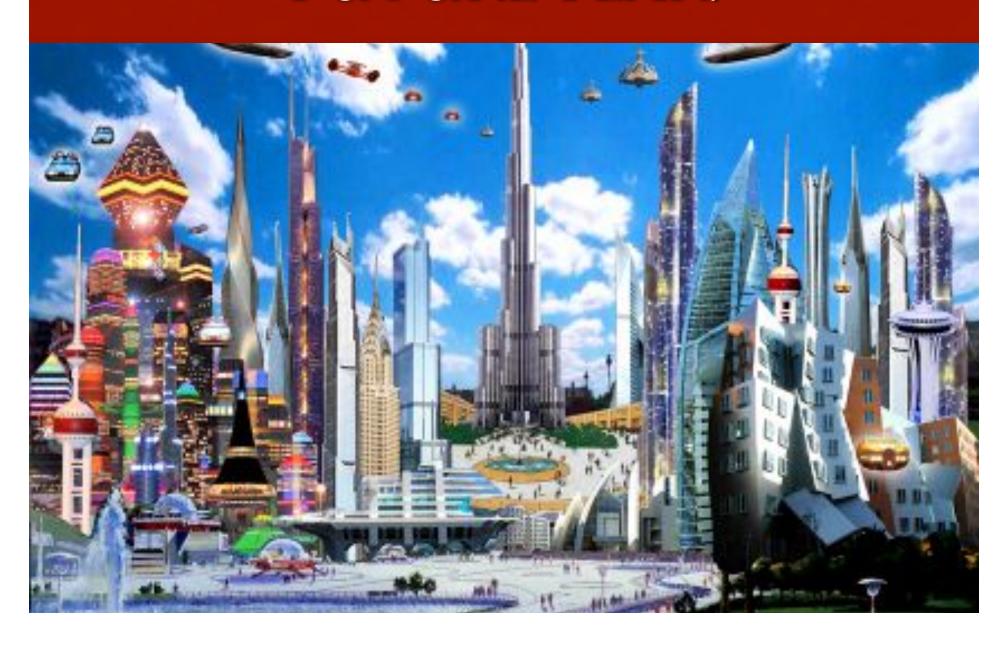




- Which 'One' container are you going to protect?
- Is good really good enough?
- What's the downside?



FUTURE FEAR!



NO MORE PRIVACY...AT ALL



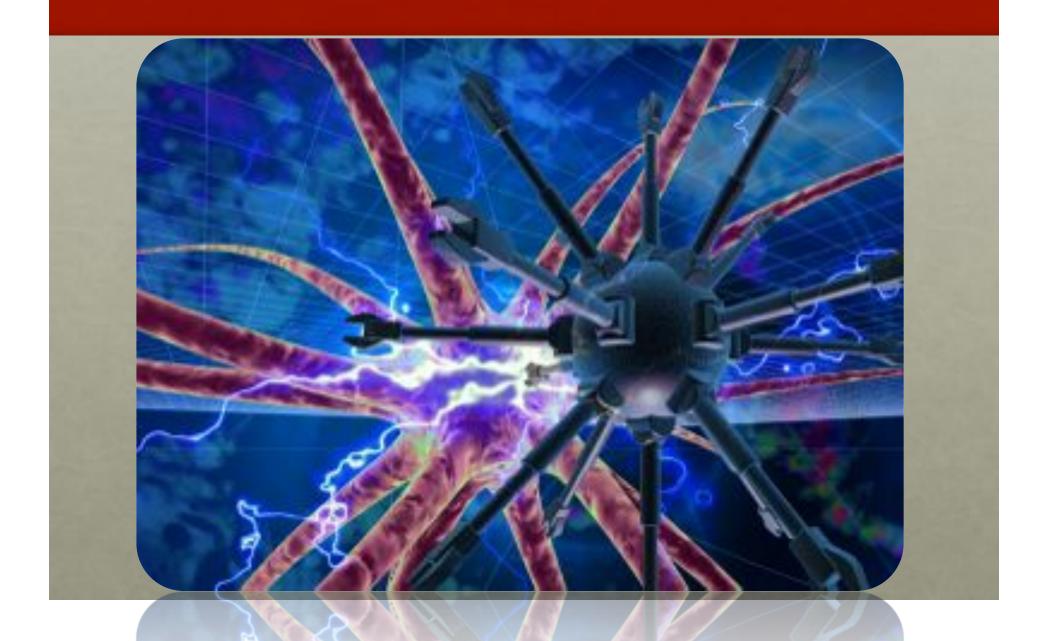
BUGS



POOR MAN'S TERRORIST HERF & EMP



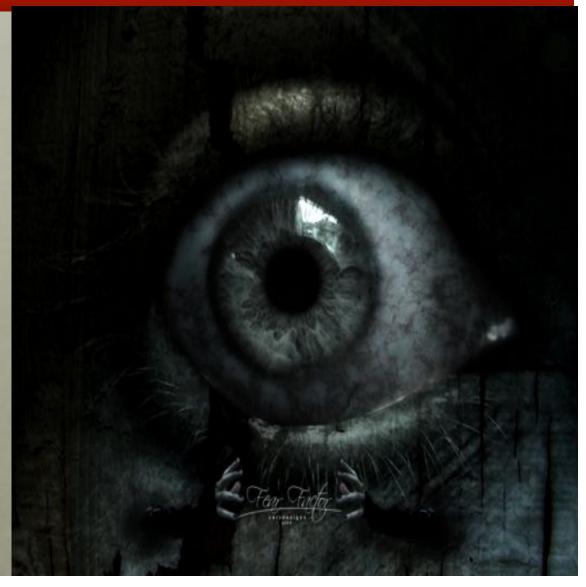
NANOTECHOLOGY



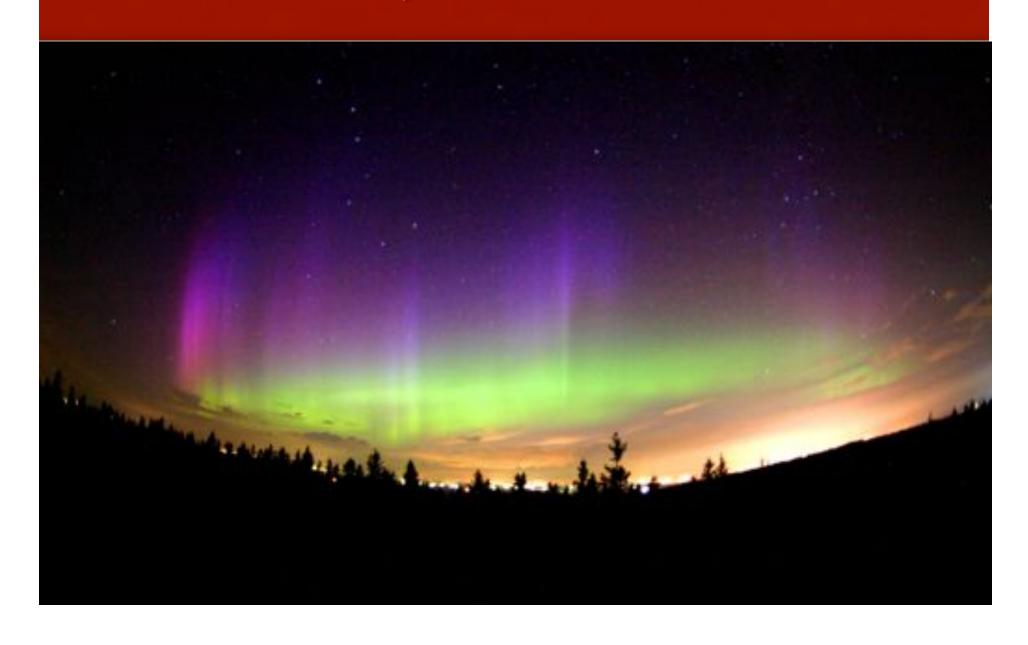
THE SUM OF ALL FEARS

- Idiots in politics
- Ignorance in business
- Apathetic about warnings
- Arrogance about Preparation

• THIS one REALLY scare the Livin' IT out of me...



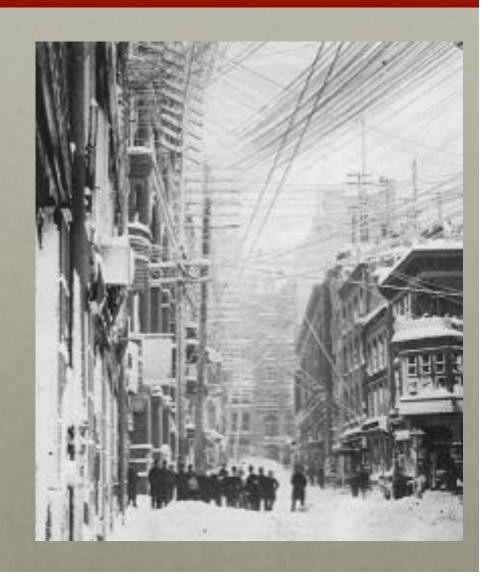
NOT IF, BUT WHEN...



CARRINGTON EFFECT: 1859

• 2 September, 1859

- Skies all over planet Earth erupted in red, green, and purple auroras.
- Newspapers could be read as easily as in daylight.
- Auroras pulsated even at near tropical latitudes over Cuba, the Bahamas, Jamaica, El Salvador, and Hawaii.
- Telegraph systems worldwide went haywire.
- Spark discharges shocked telegraph operators and set the telegraph paper on fire..

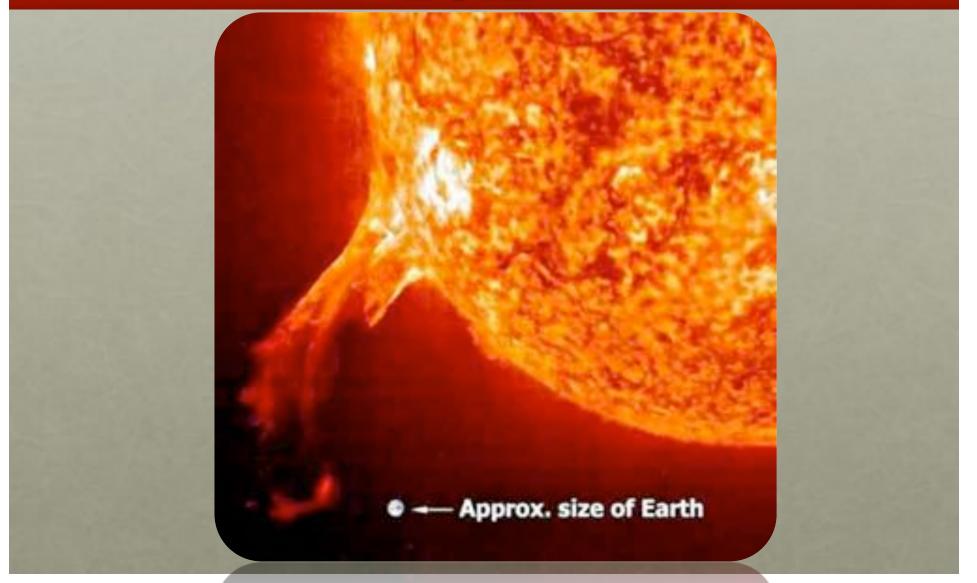


CARRINGTON EFFECT: 1972-2012

- August 4, 1972
 - Huge solar flare knocked out telephone communication across Illinois.
 - AT&T redesigned its power system for transatlantic cables
- March 13, 1989,
 - Geo-storms plunged Québec Canada and 6 million people into blackness
- December, 2005
 - Aurora-induced power surges melted power transformers in New Jersey.



CARRINGTON EFFECT: 2012+



CARRINGTON: WORST CASE

- Damage to the 900plus satellites currently in orbit:
 - \$130 \$270 billion
- 10 year rebuilding of infrastructures



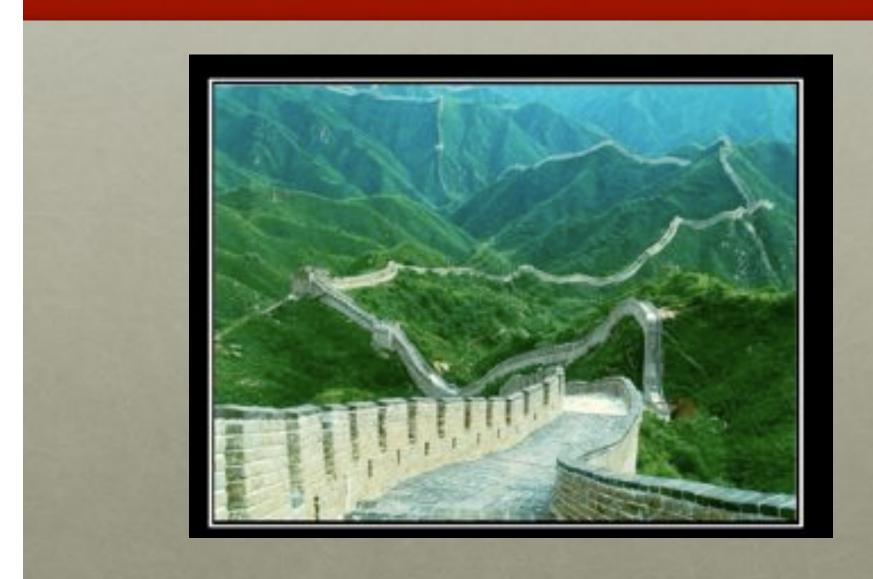
THE SINGULARITY



THE UNKNOWN



THREE KEY COMPONENTS FOR SUCCESS * CAPABILITY * INTENT * WILL *



WE CAN STOP THE FEAR: TECHNICAL



STOPPING THE FEAR: HUMAN

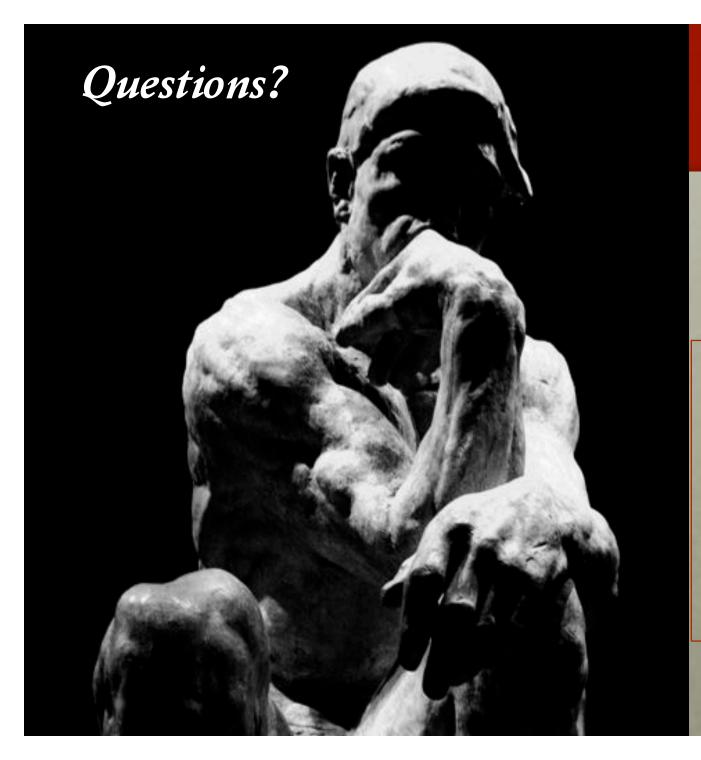
- Learn About the History of War (Sun Tzu, etc.)
- Accept & Realize You Are At War
- Change The Rules of the Game (Go Asymmetric)
- Think Like The Bad Guys
- Try to Attack Yourself
- Pre-vet & Re-vet
- Know H1B Realities

- Use Psychological Profiling
- Rate Risks of Off-Shoring & Cloud Computing/Storage
- Think Privacy & Security
- Teach Awareness
- Change Behavior
- Change Response Policy to Attacks
- Create Graceful Degradation Policies and Procedures

WHY DON'T WE?

- Let Hacker Communities Lead
- Teach Security history
- Embrace Failure
- Have trusted, self-repellent OS/ Operating Environments
- Measure security with the Time Metric?
- Know how to Stop DDoS?
- Build security in from the start?
- Do what's RIGHT?





Answers!

Winn Schwartau

The Security Awareness Company.com

+1 727 393 6600

Winn@WinnSchwartau.Com

Winn@MobileActiveDefense.Com