CERIAS

The Center for Education and Research in Information Assurance and Security

Digital Security Breaches: Arming Crisis Organizations with New Insights

Kelley Misata, Ph.D Candidate

20 people per minute fall victim to physical violence by an intimate partner in the United States

Center for Disease Control (January 2015)

RESEARCH QUESTIONS:

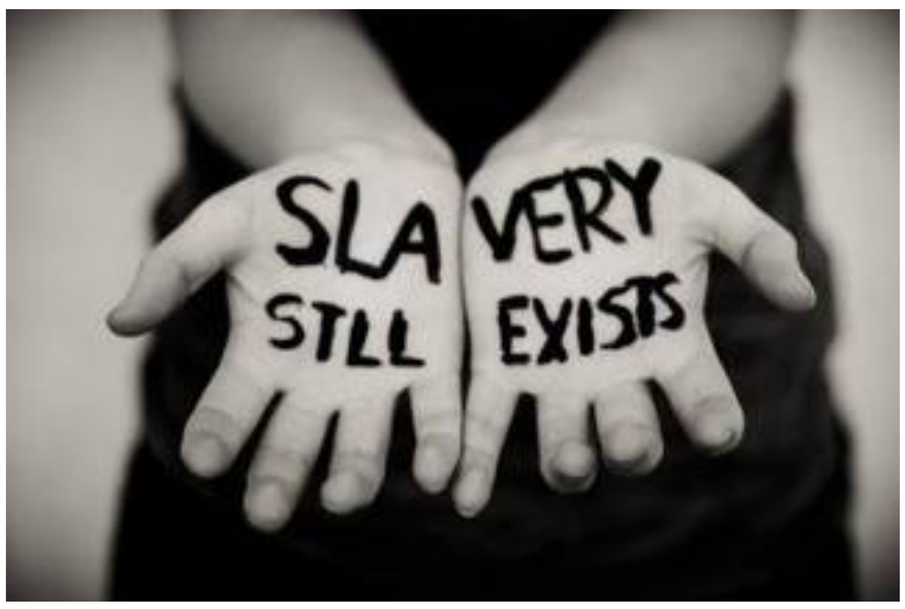
1. What assets or characteristics within crisis organizations are vulnerable?
2. How do advancements in technology impact the organizations' risk for digital security breach?
3. What existing or potential impacts can a breach have on a crisis organizations?
4. What ways can crisis organizations prepare or respond to a digital security breach?

APPROACH:

✳ Reviewed of over 100 academic and general media articles reviewed

✳Assessed of 20 US, non-government domestic violence, human trafficking, and/or stalking organizations

✳Conducted conversations with an Executive Director of a domestic violence shelter for women in Cambridge, MA.



What's at RISK?

RESULTS:

1. Need for Pre-Event, During-Event, and Post-Event Strategies;
2. Dispel the myth that security is 100% flawless 100% of the time;
3. Encourage staff, victims, and stakeholders look at their individual security;
4. Investigate network security solutions including VPNS, firewalls, IDS/IPS technologies;
5. Understand motives for attacks;
6. Assess current the computer systems are within the crisis organizations is a point of future research;
7. Assume a breach will happen;
8. Invest in Protection that is reasonable for the risks;
9. Educate <u>and</u> Train for Staff, Clients and Stakeholders.
10. MORE RESEARCH!

CERIAS®

PURDUE UNIVERSITY