Security Awareness Training

A low cost approach to user enlightenment
Security?

That’s IT’s problem.

... right?
Security is *Everyone’s* Responsibility.

- End users are the *front line*
- Spam/Malicious Emails
  - Phishing
  - Spear Phishing
  - Ransomware
- Social Media Threats
- Social Engineering
The Threats are **Real** and **Local**.

- Think that Michigan municipalities are too small to be targeted? Think again. Some real life, local examples:
  - April, 2016
    - Municipal public utilities, southern Michigan, email ransomware - $2m loss
  - January, 2017
    - County government, southern Michigan, social engineering - $235k loss
  - May, 2017
    - County government, southern Michigan, email malware - $2m loss
What Can You Do?

- Ongoing end user training and an overall security awareness program are the keys to success.
  - Own organizational security *as an organization*
    - Top-down/Bottom-up approach
    - Emphatic, vocal support from the executive team
  - Educate users at every level of the hierarchy regularly
  - Make security a regular topic of discussion
  - Incentivize success
  - Retrain failure
Battle Creek’s Approach

- Ongoing security awareness training
  - Moodle LMS - open source and completely free
  - https://moodle.org

- City-branded, custom content
- Allows for assessments and signoffs
Battle Creek’s Approach

- Keep security at the forefront
  - Daily threat counter on the desktop
  - Desktop Info
    - http://www.glenn.delahoy.com/software/

As of 3/1/2018
this org has gone
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281
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day(s) without virus infection.
Current Record: 299 days
Method of last infection: Infected USB Camera
Battle Creek’s Approach

• Test the results
  • In-house spearphishing campaign
    • https://getgophish.com/
  • 425 emails sent
  • 91.8% success!
    • 355 people did nothing
    • 35 people notified IT
  • 8.2% failure.
    • 35 people clicked the malicious link
    • 7 entered their LinkedIn credentials
    • 2 did so repeatedly across multiple days
Conclusion

“Cyberspace is not a target in itself. It’s a medium. And that medium connects, in every direction, to the machinery of civilization itself.”
- Oleksii Yasinsky