

Recipe for a Successful Cyber-Safe Awareness Campaign

25 November 2016





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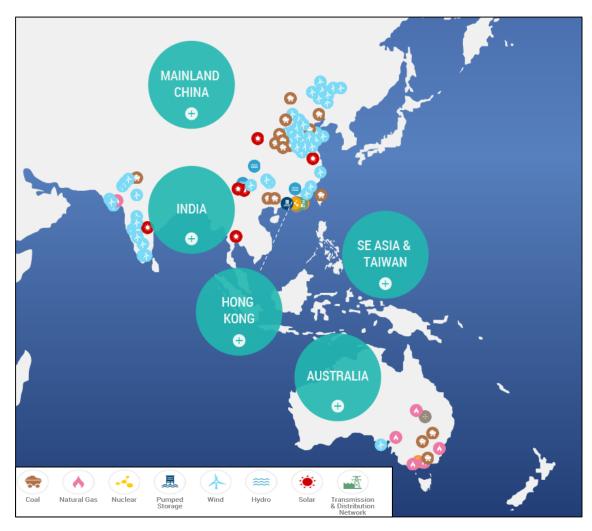
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About CLP – Assets at a glance





燃點生活力量 Energy for Life Source: www.clpgroup.com





INFOSECURITY MAGAZINE HOME » NEWS » #INFOSEC16: SECURITY AWARENESS RAISING A WASTE OF TIME, SAY EXPERTS





Security awareness and training programs are mostly ineffective and a waste of time and money, according to a panel of experts speaking at Infosecurity Europe in London today.



Experts agreed that the way to address these problems is to make programs more relevant to their audience in a way which will help to build an organization-wide culture that makes security second nature to employees.



Angela Sasse, director of the UK Research Institute in Science of Cyber Security (RISCS) at UCL, argued that it was "very doubtful" that most programs had any value at all and said government-led efforts aimed at educating the populace were "pitiful" and sent out mixed messages.

The focus should be on changing people's behavior rather than raising awareness, as the latter does little to improve information security, according to Andrew Rose, CISO in the UK transport sector.

He said program managers could take a leaf out of the marketer's book in looking at new ways to influence behavior in smaller, bite-sized chunks – in an almost subliminal way that doesn't require hour-long training sessions.

Rose said his team inform all infosecurity training via a simple three-point framework: "motivation," ie what are the consequences of a specific policy; "ability," ie can employees practically comply with any new rules; and "triggers" – what will remind them to do the right thing?

Uber's security awareness and education program manager, Samantha Davison, argued that training has to be as relevant as possible to employees so as to avoid wasting everyone's time by resulting in programs that don't work.



The taxi hailing firm builds its programs on the back of feedback from staff, and is currently developing a training app which will produce different content depending on the location and role of the individual user, she explained.

"Build a program they want, not the program you want as an information security professional," she advised.

Publicis Groupe CISO, Thom Langford, added that building a corporate culture around security best practice is the goal.

"Culture is great; it's also really difficult to build, but once it's built it lasts a long time," he argued.

This will ensure security is maintained almost subconsciously by staff, and one of the ways to get there is by creating "visceral experiences" through new approaches to training, he said.

UCL's Sasse concluded that although improvements to training programs are a necessity – not least because the "attackers are getting more persistent and smarter" – they won't be a cheaper option.

To be most effective, training programs must be built on the back of the right corporate technology "which wastes people's time as little as possible," she argued.

Is it a familiar comment to you?



Don't make an











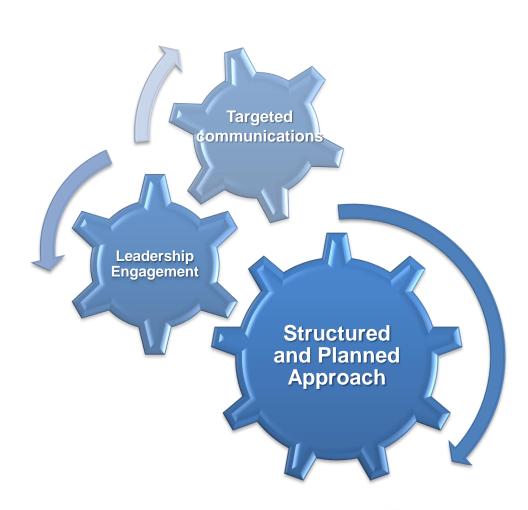




Ingredients: Proven Change Methodology



- ✓ Proactive identification of training needs
- ✓ Proactive identification and management of employee resistance







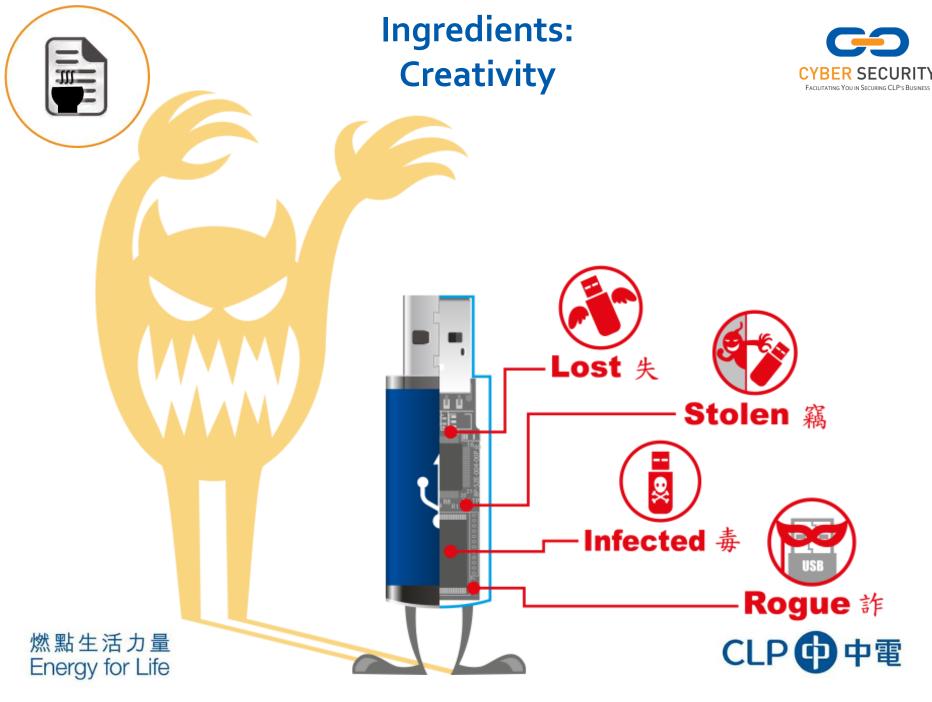
Ingredients: Change Curve





Source: PROSCI ADKAR model







Ingredients: Key Success Factors



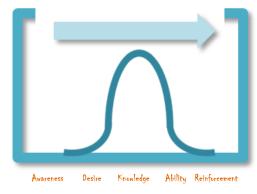






No. of USBs Collected

No. of Video View Counts



Change Curve Distribution

燃點生活力量 Energy for Life Need to be measureable, enabling trend comparison. Consider a post implementation survey every year!





Directions: Identify your risks



2010 Aug: Iran nuclear plant centrifuge destroyed by Stuxnet via USB infection. Detail here 2012 Feb: U.K. nuclear plant lost data in USB. Detail here 2012 Oct: Crimeware in USB idled U.S. power plant for 3 weeks: link 2013 Nov: International Space Station infected by USB malware: link 2016 2010 2012 2015 2011 2013 2014 2014 Aug: New USB Threat - 'BadUSB' found: Detail here Explanation Video 2014 Nov: New USB Threat - Cyber Espionage use 'USBStealer' to steal data from Closed Networks. Detail here 2015 Nov: New USB Threat - 'USB Killer' destroys computer in seconds: Detail here 2016 Mar: New USB Threat - 'USB Thief' data stealing malware: Detail here 2016 Apr: German Gundremmingen Nuclear Plant with USB infection. Detail here

... Keep on sharing industry real-life incidents

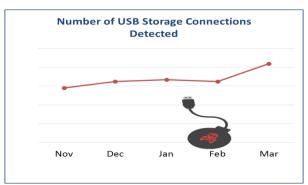


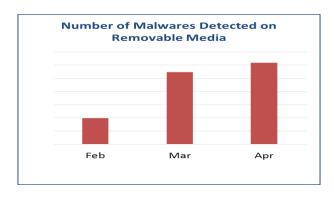


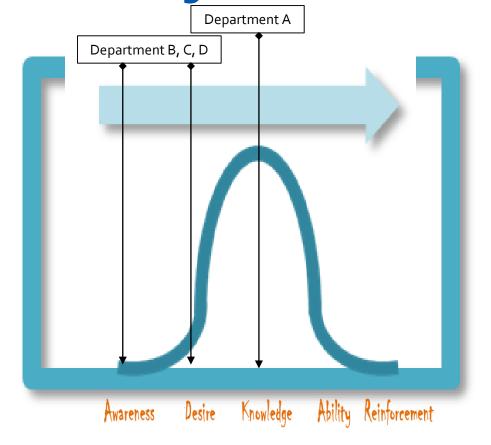
Directions:



Map stakeholders on change curve







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Mapping per current behaviour, for example 燃點生活力量 infected or unattended USBs found by department





Directions : Set target key messages



Everyone can help to take one more step the company



Sub-messages ____



Communication Calendar

- 1. USB malware is now a very common attack, which can cause serious damage. [Aware & Desire]
- Wide adoption of USB in company presents huge risks. [Aware & Desire]
- 3. Together, we need to stop using USB storage to protect the company. [Aware & Desire]
- 4. We can minimize impact to operation by Smart Alternative.
 [Knowledge]
- We will continue to monitor the risk to strengthen our security
 [Reinforce]

		Year											
	Sub-Activities	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
All Staff	Video												
	Poster												
	Email						•						
	Broadcast				•	•				•			
	Meetings				•	•			•				
	Team Briefing (Monthly)						•	•		•			
	Survey											•	
Management	Focus Group Meeting		•				•				•		
	Executive Newsletter					•						•	
	Executive Update					•				•			
Technical	Champion Meetings						•						
	PCC Meetings			•				•				•	

Make your key message, sub-messages, activities which would drive the messages across.

Form the final communication plan & calendar.







Make it personal









Cyber Security is our shared responsibility

In ancient times, when a castle was stormed, every person was armed to fight and protect – even the king.





Make it to their personal life also







We all do NOT have **a laser-eye** to examine your USB before using it!

Appreciate your tips to make their personal and families secure



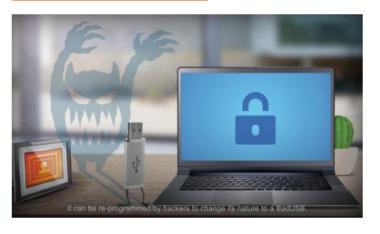


Directions:



Design activities and communications to move people up the change curve

Aware & Desire: Risk of USB



Ability: USB Amnesty / test after training/ tool adoption



Reinforcement: Being Visible









Knowledge: Implement Secure
Tools and offer training
(Smart Alternative)





Directions: Measure your results











Tool adoption trends, event attendance and survey feedback are valuable to measure if change has happened



Successful Security Cultural Change



Ingredients regularly

all staff

10 mins/month





5 stages in change curve



A lot of creativity



At least one risk area



Many key success factors





Directions

- Identify a key risk where a behavioral change would help to mitigate the risk significantly.
- Map your stakeholders on change curve.
- Plan your target messages to different level of stakeholders, make it personal and relevant to them!
- Design activities and communications with a lot of creativity (video, games, posters, newsletters, etc). Make sure they are appropriate for moving people up the change curve.
- Measure your results and change curve position, use them to contribute next round activities.







Thank you

