SecManiac

Security Zone
Making Sense of (in)Security

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About Me

- Creator of the Social-Engineer Toolkit, Fast-Track
- CSO of a Fortune 1000
- Co-Founder of DerbyCon
- Author of new book from NoStarch Press on Metasploit
- Back|Track Development Team
- Exploit-DB Development Team
- Exploit Writer
- Penetration Tester

What this talk is about…

Who here feels they’re company can withstand a targeted attack?

General Reaction…

Why?

We aren’t secure…

We are scared of….

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Where were we…during…

We were here..

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We prayed … please don’t let us be next.

So we watched and waited....

SECURITY


COMODO
Creating Trust Online™


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MySQL®


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HBGary
Federal


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And a lot more…

So we hire…consultants…

to fix our challenges

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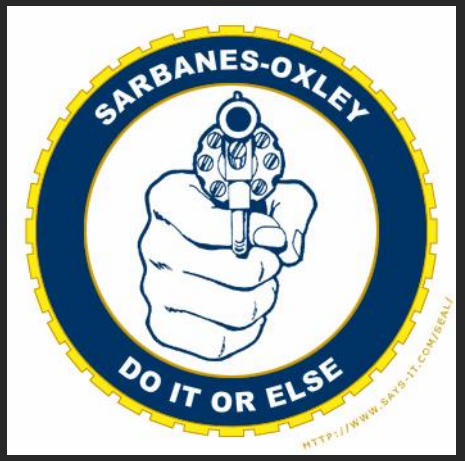
And we get..

certifications…

To expand our knowledge.

And we conform to..


SARBANES-OXLEY
DO IT OR ELSE


GLBA
Gramm-Leach-Bliley
Compliant


HIPAA

compliance…


PCI
Security
Standards Council
™
PARTICIPATING ORGANIZATION


NERC
NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION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To secure our organization.

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We prioritize our weaknesses with

risk management…

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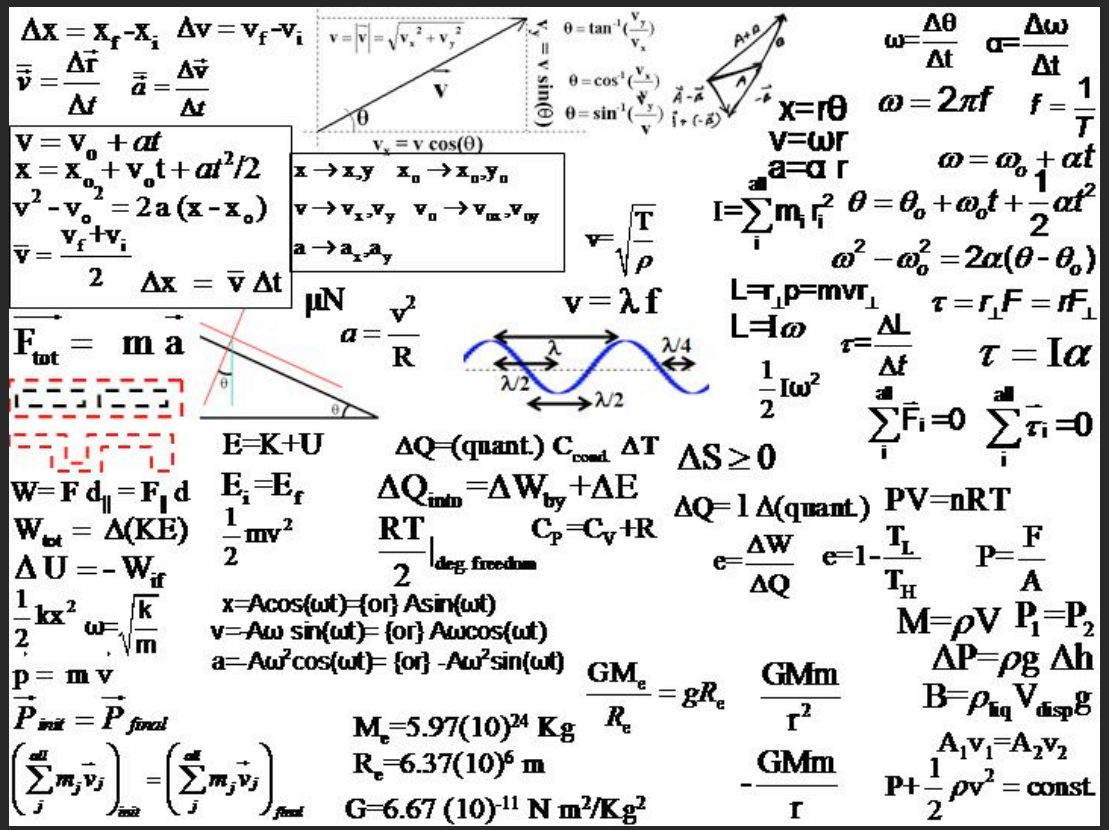
We create complexity

And add risk formulas



And spend…

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For what??????

To be secure?

Are we?

We are a young industry.

Still finding our ways.

Is the path we are going right now the right one?

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In order to answer this…

We need to understand

Maybe 15 years ago formally?

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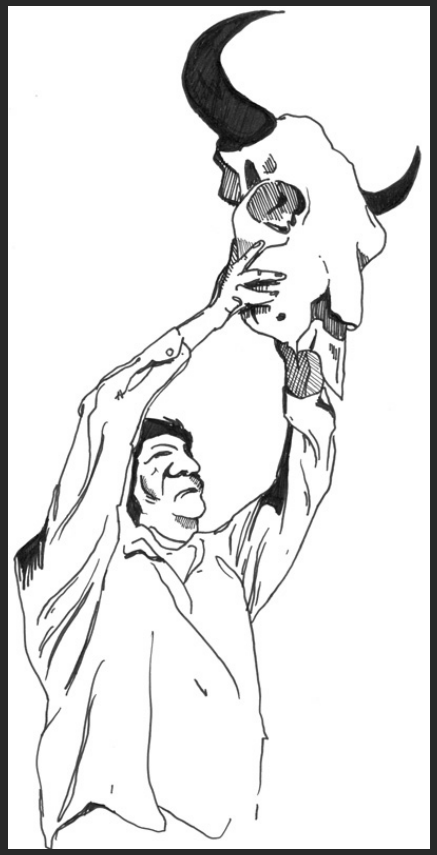
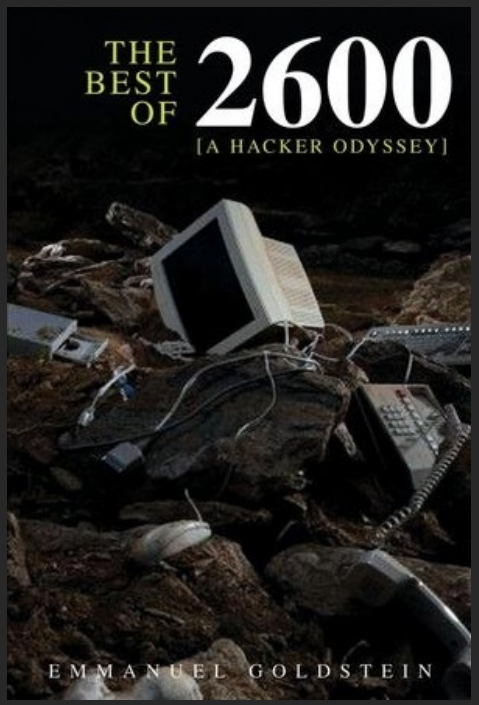
Before security, a breed of hackers were born…





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Technology progressed…

So did hackers…

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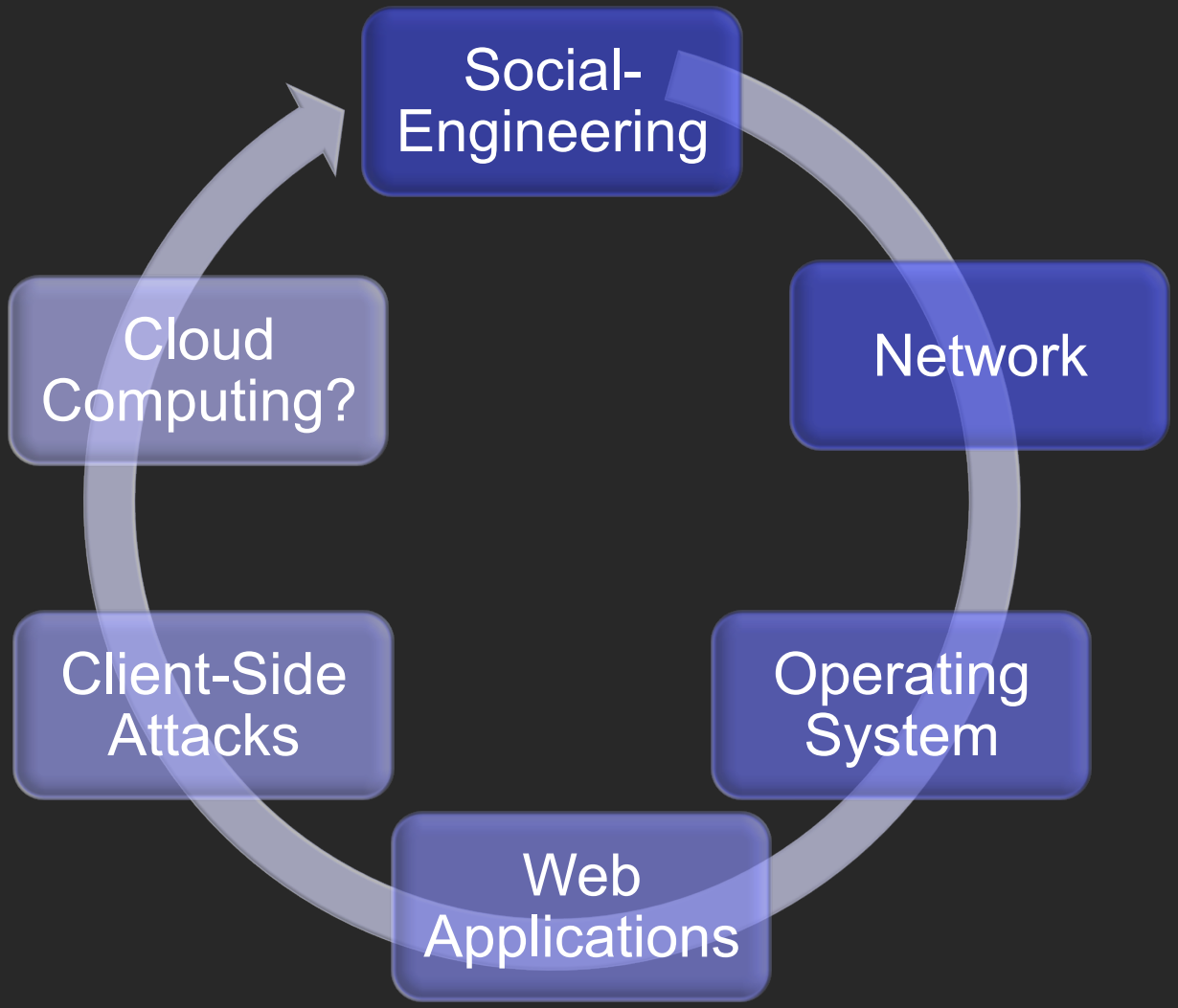
Evolution of Hacking



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A new era was born.

The Security Industry.

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Flash forward - Today..

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the present

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2009 to 2010

- Security conferences reported record numbers.
- Security staffing decreased...then increased.
- Estimated 1 billion spent on Vista and Win 7.

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2008 Breaches (PrivacyRights.org)

- In 2008 there was a total of 354 reported public data breaches.
- You might remember this one:
- RBS Worldpay, Atlanta Georgia

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2009 Breaches (PrivacyRights.org)

- In 2009 there was a total of 252 reported public data breaches.
- We got better! … Wait?
- Largest breaches in history, largest amount of records disclosed, large amount of PII, PCI, PHI disclosed in one year ever.

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2010 Breaches (PrivacyRights.org)

- We spent so much more this year… Estimated 34% increase on our budget.

- In 2010 there was a total of 594 reported public data breaches. Over double that of last year.

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We are only the second industry that can continue to spend WAY more each year and get WORSE.

The first. Weatherman.

So we buy products to protect us.

But buy this, it will fix it.

Data Loss Prevention

But buy this, it will fix it.

Intrusion Prevention

But buy this, it will fix it.

Host Based Intrusion Prevention

But buy this, it will fix it.

Web Application Firewall

But buy this, it will fix it.

File integrity monitoring

But buy this, it will fix it.

Firewall

But buy this, it will fix it.

Anti-Virus

But buy this, it will fix it.

Whitelisting/Blacklisting

But buy this, it will fix it.

Patching Solution

But buy this, it will fix it.

Vulnerability Scanners

But buy this, it will fix it.

Network Access Control

But buy this, it will fix it.

APT Preventer

But buy this, it will fix it.

Data Loss Prevention

But buy this, it will fix it.

Anomaly Detection

But buy this, it will fix it.

Heuristics

But buy this, it will fix it.

Shiny stuff.

We buy technology to automate and prevent / detect human-based attacks.

So…

We have consultants.

Somehow they know our business better and how to secure us….

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And we spend

And spend…

And spend...

Because we're told it will fix our problem…

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This stuff doesn’t stop me….

It barely stops her…

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So why?

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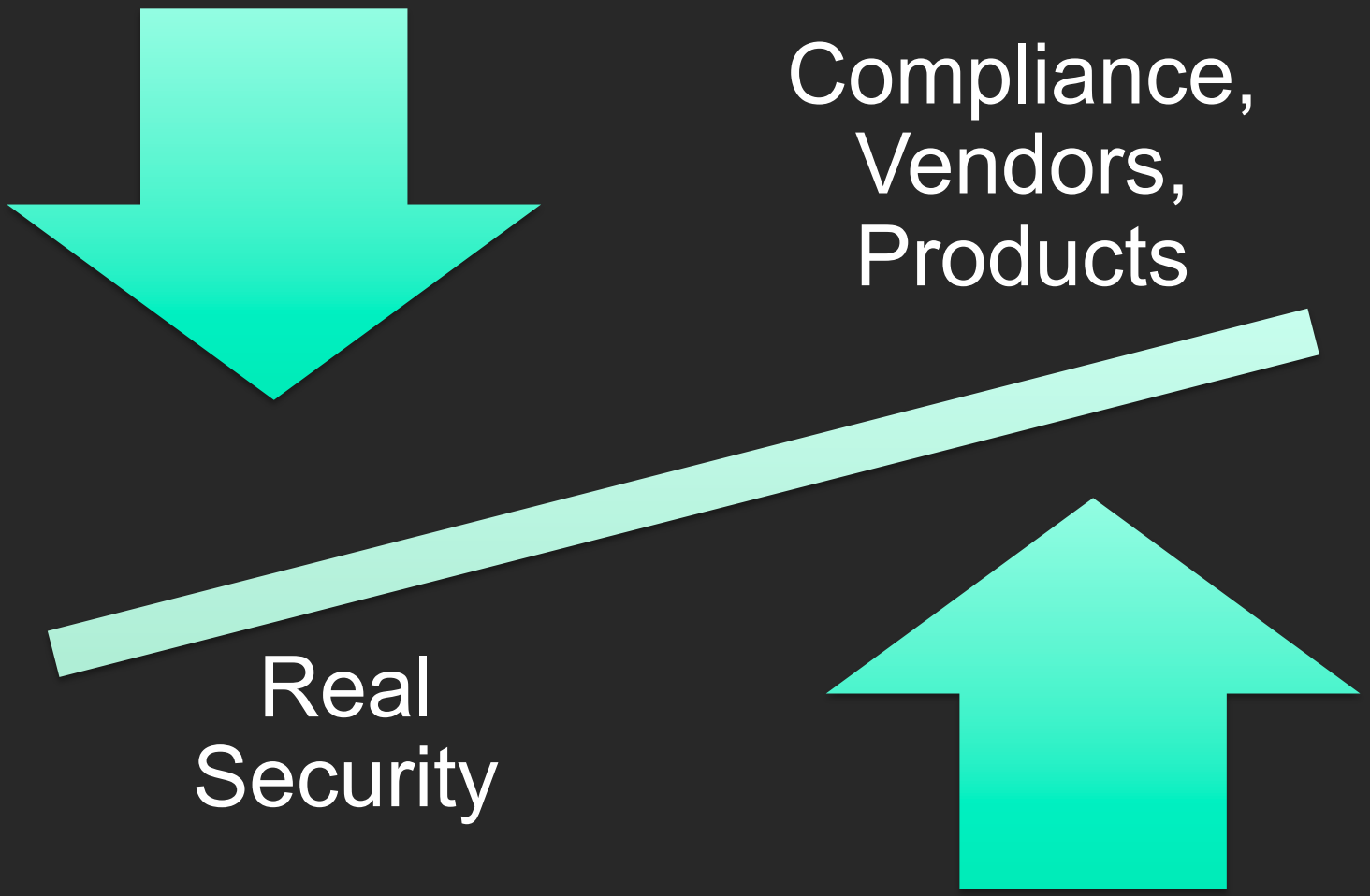
We aren't balanced….



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We are taught risk management, risk acceptance, risk formulas. We are taught to be aligned with the business.

But we are in tune with “the business”

Does the business know security?

Do they know how to make decisions based on security?

Experience a Breach

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Home of the Social-Engineer Toolkit

We are so scared of a breach.

Breaches can be a good thing.

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It almost takes a breach for something to move.

Come to the realization that we will never win 100 percent of the time.

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In most cases: A breach will not destroy your company.

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Sometimes a breach isn’t as bad as it sounds..

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It can help us.

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So you can’t get security funded…..

Get breached.

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Option 1

- You get popped.
- It sucks. Yea.
- But use this. Inject security into the company.

Option 2

- Simulate a breach.
- Penetration testing.

Who here has had a “penetration test”.

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A penetration test was never what it was designed to be.

Our tests today are vulnerability scans and validation of testing.

How is that a simulated breach?

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A penetration test is a simulation of an attacker attempting to cause impact to the companies ability to generate revenue.

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They are designed to simulate a breach.

Penetration Test == Breach Simulation

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You need to jack a company up.

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You need to make them hurt, you need to be able to show you could destroy that company and everything it does.

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Who here has had a “penetration test”?

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So what now?

The Future..?

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That’s up to us…

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It could be this…

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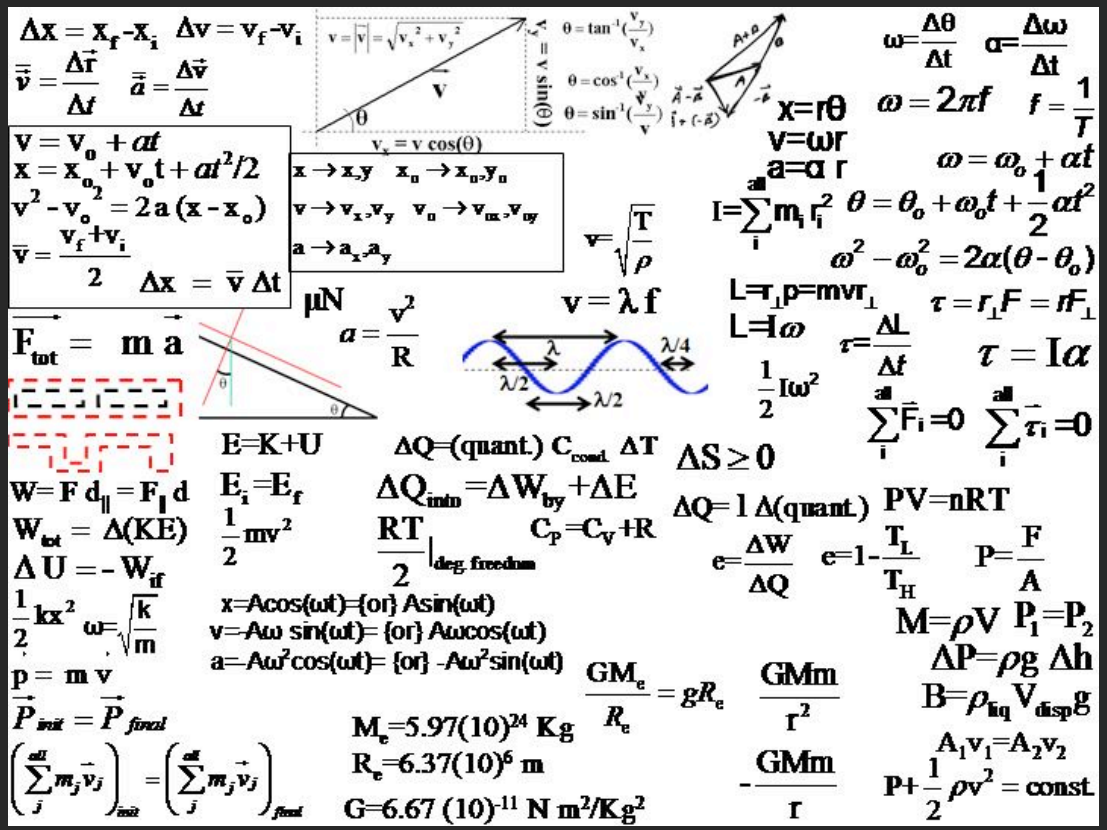
We need to invest in our people and do some hard work…

Or if we…

Impact change….

Secure critical assets that make companies money…

Move away from risk formulas and auditors…



Ignore the fear mongering…

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Throw away the 5 year plans

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And secure your stuff.. You got it.

The easiest thing to remember is

Find out what makes your company money.

Protect that.

Simple.

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Invest in people.

Not technology.

Get Back to Reality

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Breaking stuff.

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Home of the Social-Engineer Toolkit

Thanks.

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Home of the Social-Engineer Toolkit

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