

RSA® Conference 2019

San Francisco | March 4–8 | Moscone Center



BETTER.

SESSION ID: CSFP-W12

You've Predicted the Future, Now What? Pulling the Right Security Levers

John Pescatore

Director, Emerging Security Trends
SANS Institute
@John_Pescatore



#RSAC

Your Day So Far:

Building a Defensible Cyberspace: 2025 CSFP-W03 ☆

[Reserve a Seat](#)

Wednesday, Mar 06 | 09:20 A.M. - 10:10 A.M.

[C-Suite View](#) | [Security Strategy](#) | [Classroom](#)

How can we create a more defensible future cyberspace? This session, based on work by the NY Cyber Task Force, will examine technology, operation and policy changes to shift the advantage from attackers to defenders. The panelists will discuss a comp...

How to Eliminate a Major Vulnerability in the Cybersecurity Workforce CSFP-W05 ☆

[Reserve a Seat](#)

Wednesday, Mar 06 | 10:40 A.M. - 12:10 P.M.

[Classroom](#)

There's a major vulnerability in most cybersecurity firms and workforces that has yet to be addressed: the industry's gender gap. At a gathering of cyber-practitioners, behavioral scientists, and industry and government leaders in fall 2018, we devel...

Cybersecurity Futures 2025 CSFP-W10 ☆

[Reserve a Seat](#)

Wednesday, Mar 06 | 01:30 P.M. - 02:20 P.M.

[Classroom](#)

This session will explore, via four alternate scenarios, the future of cybersecurity (2025) and the new problem sets that cybersecurity professionals will encounter in a changing strategic environment. The session will begin with immersion in the sce...

Inputs from the Sessions

Trust Us

The stakes of deciding between an unsafe-yet-open internet and a safe but closed and surveilled SafetyNet are clear, but not what we expected.

Barlow's Revenge

In the digital world, the state is now either fully in or fully out – and not all countries make the ‘obvious’ choice

Quantum Leap

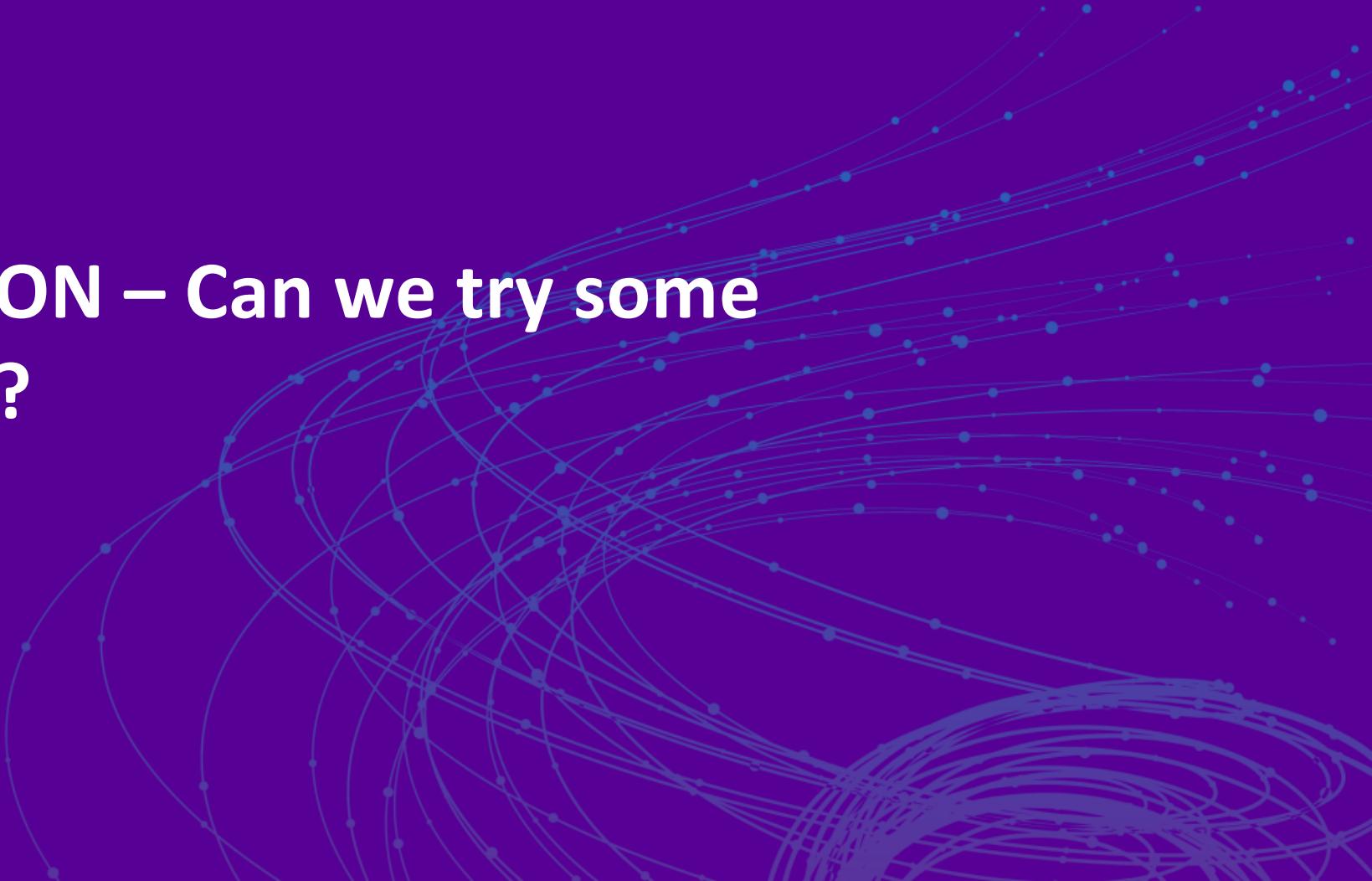
Quantum capabilities are available to some, and containing ‘proliferation’ is not a simple matter of carrots and sticks.

New Wiggle Room

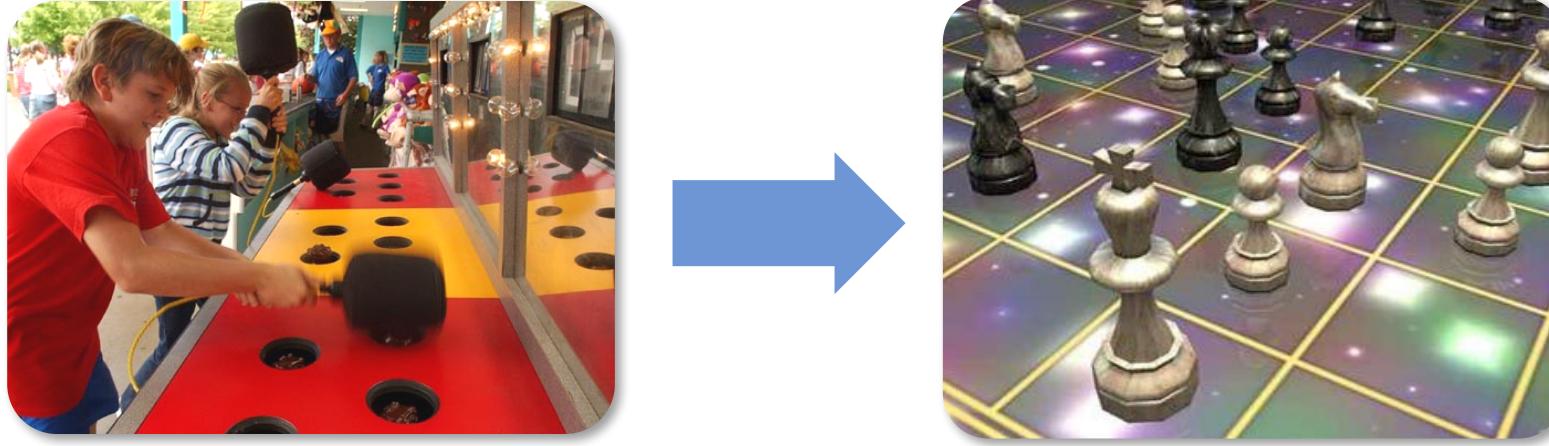
Perfect information makes societies perfectly miserable – and the escape is multiple identities.

- Innovations and leverage in Technology, Operations and Policy
- Getting Diversity into the Cybersecurity Workforce
- Four possible future scenarios

**TAKING ACTION – Can we try some
game theory?**

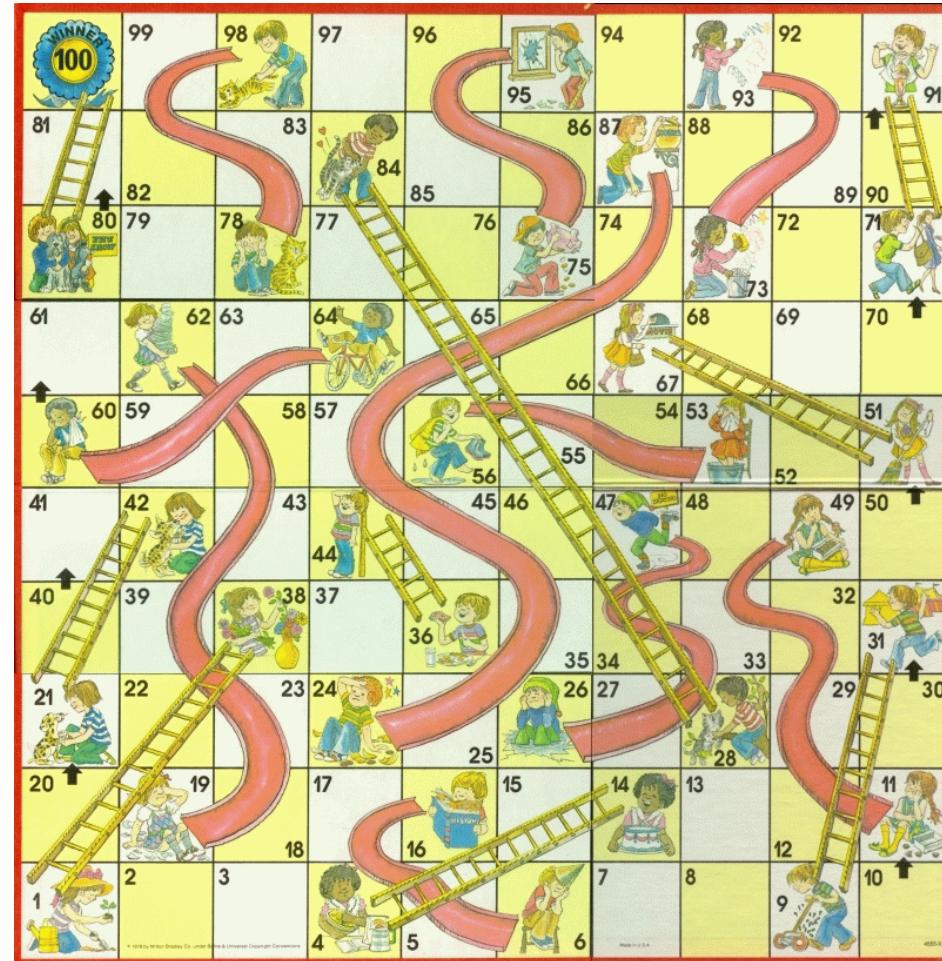


Move from reactive Whack-a-Mole to Chess



But threats and IT “advancements” are more like random moles than predictable chess pieces

Find the Ladders, Avoid the Chutes



Unfortunately, the ladders and chutes don't stay still...

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Machine Learning and Adaptive Something or Other to the Rescue?

Constants

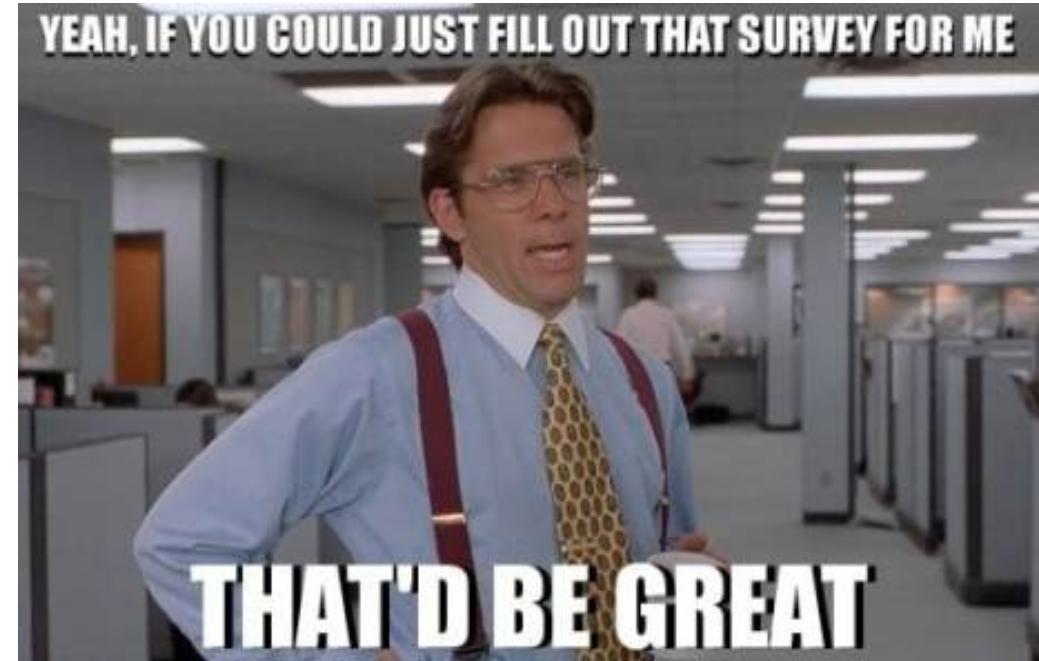
- Software will always have vulnerabilities
 - But it can have fewer!
- People will always make mistakes and take chances
 - But usually in a human understandable manner
- Keeping the business in business will always be Job 1
 - But security can move up from Job 99 to Job...
- The infrastructure will never secure the infrastructure
 - But it **can** be much less of an attractive nuisance

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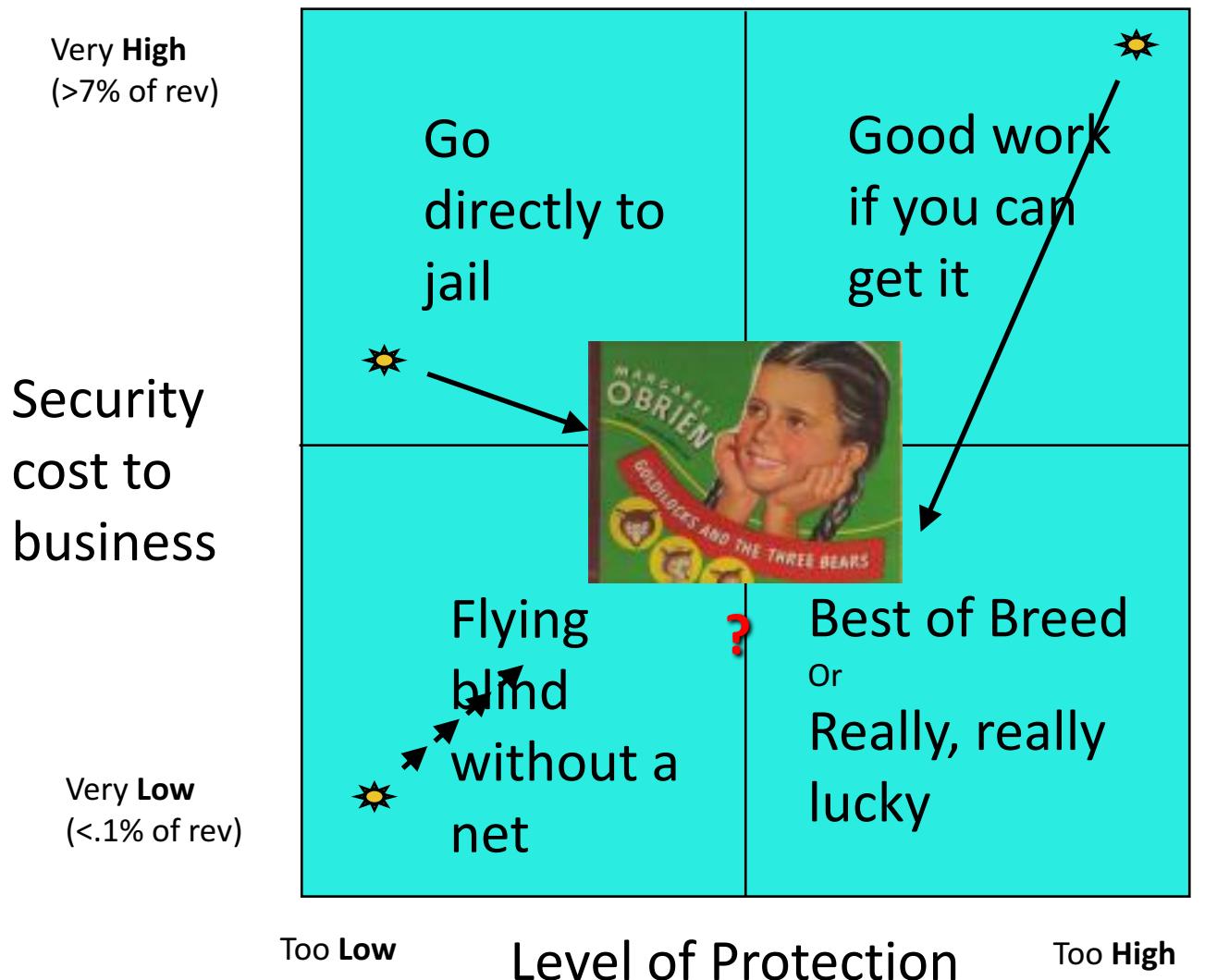
More Money and More People!

The Right Resources vs. More Resources

- Every cybersecurity survey ever done lists lack of budget, lack of resources
 - Same as every IT or business survey
- There is little to no correlation between security spending as a % of revenue or IT budget and security results.
- Complexity is still the enemy



Effectiveness and Efficiency



Security Cost =

Security Expenditures +
Incident Costs +
Bus. Restraint Costs

Leverage = Convincing Others to Support Change

- **Convince** CIO security can enable IT cost reduction/maturity improvement.
- **Convince** COO that reducing downtime due to security has positive ROI.
- **Convince** CMO that privacy and trust will increase click through rates.
- **Convince** HR that training attracts and retains diverse workforce, saves money over trading unicorns with other companies.

A Better Way: Strategic Navigation

- Where am I?
 - Effectiveness
 - Efficiency
- Where do I need to go?
 - Constants
 - Waypoints
 - Obstructions
 - Bail outs/Plan B
- Leverage points



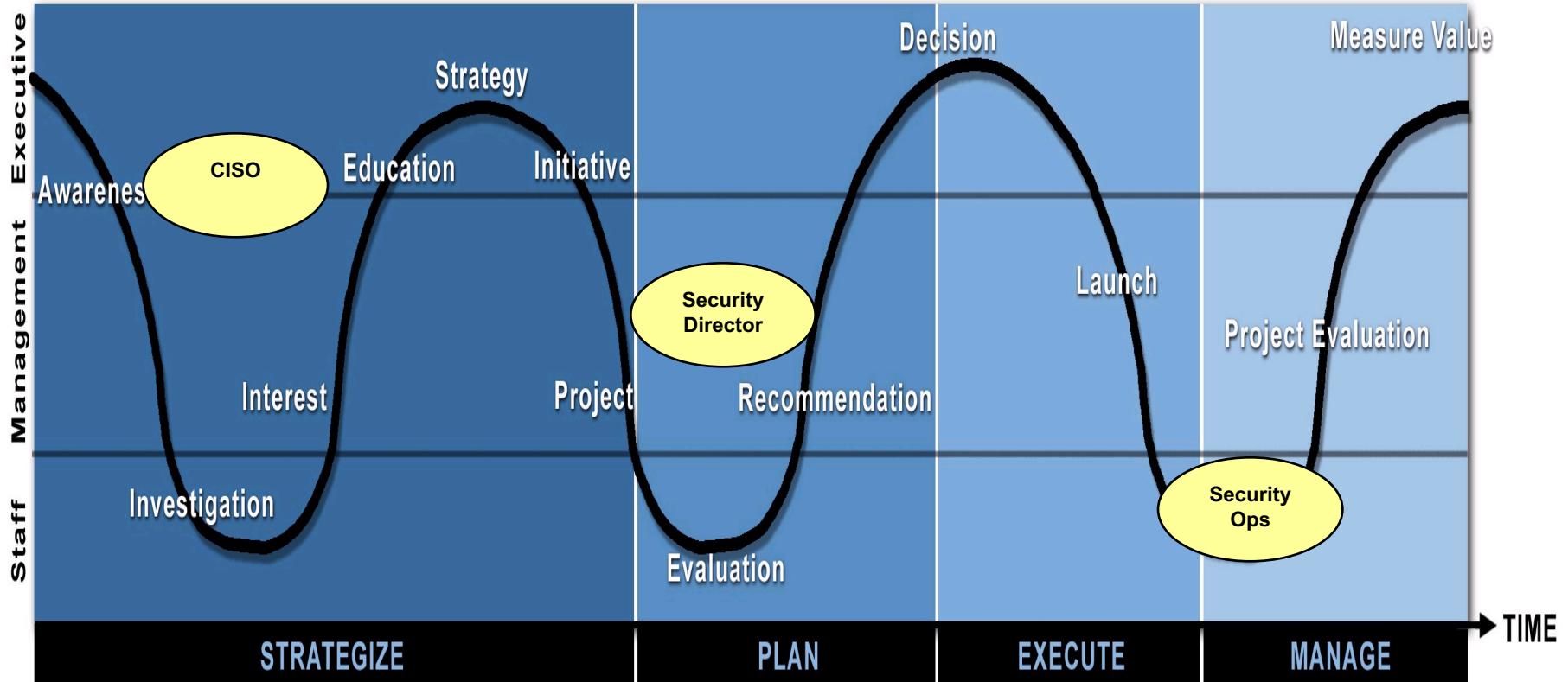
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Warning: Skewing Old Here!



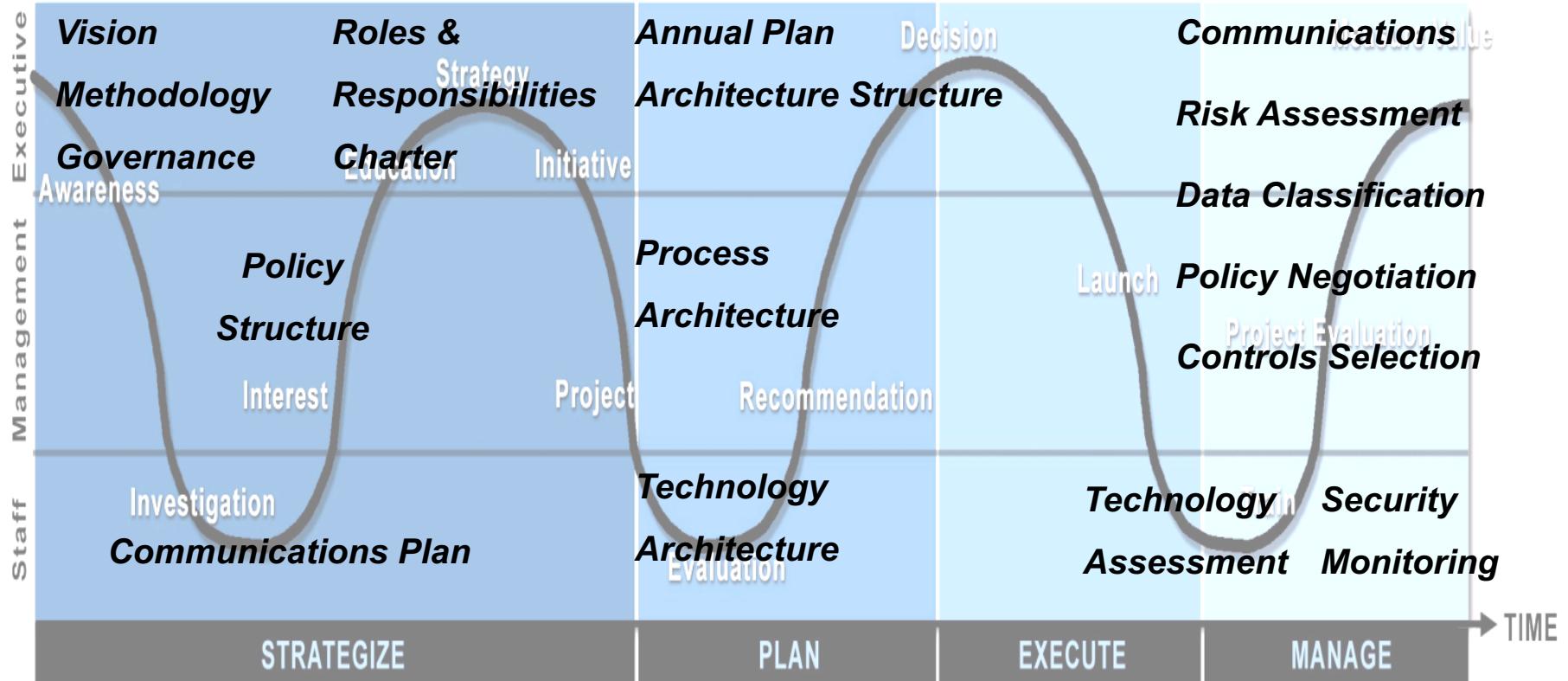
Erebus

Convincing CXOs and Boards Requires Strategic Thinking



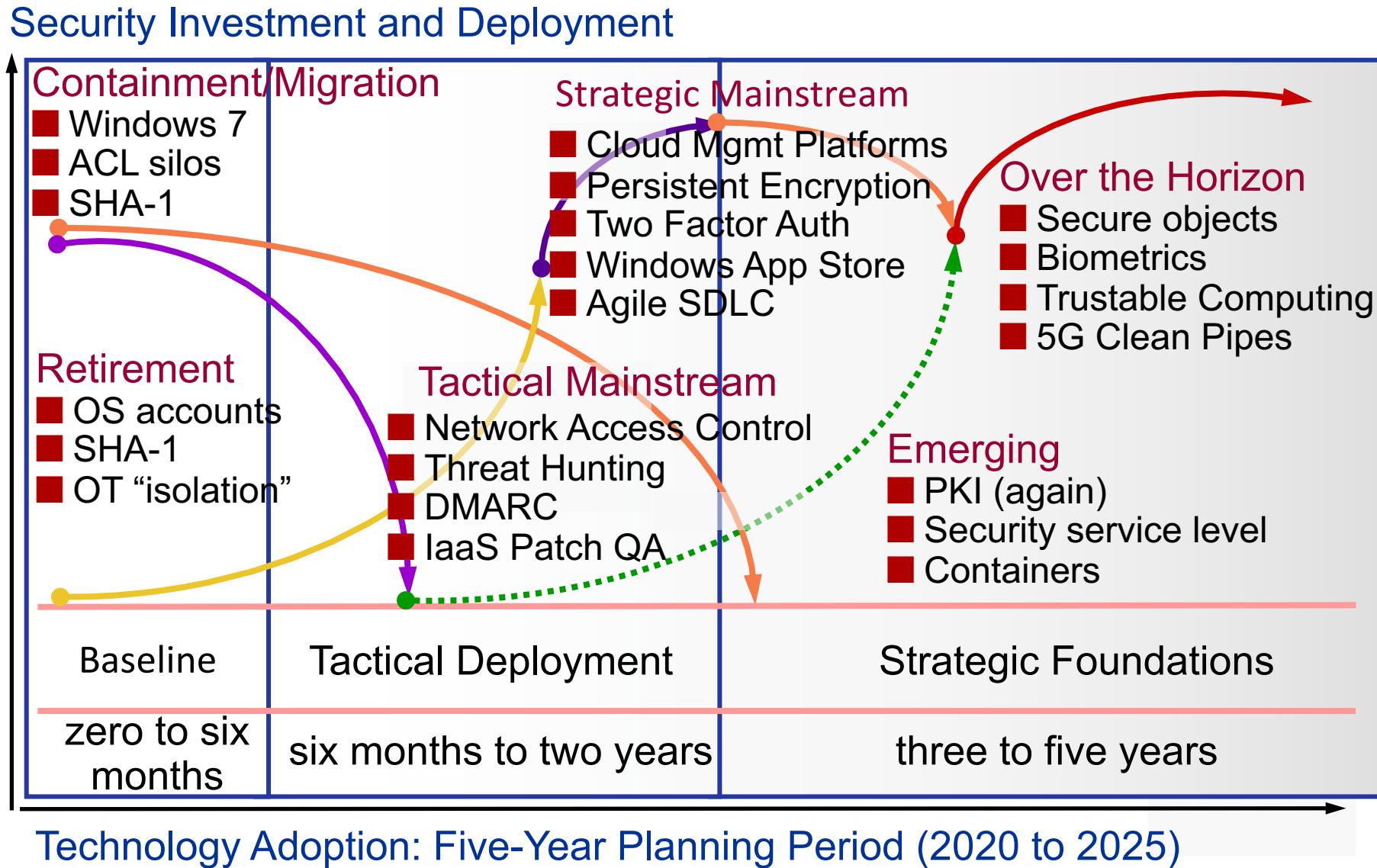
Decision Life Cycle Chart

Convincing CXOs and Boards Requires Strategic Thinking



Decision Life Cycle Chart

A Strawman Approach



When You Get Back To Work

- Establish a realistic baseline
 - May require outside look
- Start/build relationships with key leverage “partners”
- Identify strong authentication and encryption insertion points as enablers
- Establish “Basic Security Hygiene” gains as efficiency improvements
- Make a measurable promise in effectiveness and/or efficiency gains
 - It is only a journey if you predict where you will be when you get there

Resources

- SANS What Works: <https://www.sans.org/vendor/whatworks>
- RSAC/SANS Threat Panel:
<https://www.rsaconference.com/events/us18/agenda/sessions/11413-The-Five-Most-Dangerous-New-Attack-Techniques,-and-What's-Coming-Next>
- Briefing the Board:
<https://www.rsaconference.com/events/us17/agenda/sessions/4965-briefing-the-board-lessons-learned-from-cisos-and>
- Jpescatore at sans dot org