



Welcome to the

**Deloitte-NASCIO Cybersecurity Webinar**

Reviewing the results and recommendations of the third biennial Deloitte-NASCIO  
Cybersecurity Study - State Governments at Risk: Time to Move Forward

[www.nascio.org/DeloitteNASCIO2014CybersecurityStudy/](http://www.nascio.org/DeloitteNASCIO2014CybersecurityStudy/)

#StatesAtRisk

Tuesday, December 16, 2014 2:00-3:00pm ET

You are welcome to join in "Listen Only" mode or by telephone. If you joined audio via telephone, please enter the code provided by Adobe Connect to match your name and number. All attendees will be muted.

During the webinar, please ask questions by typing in the chat box.



## State Governments at Risk: Time to move forward



**December 16, 2014**

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#StatesAtRisk #NAS CIO #deloittegov

## Today's Agenda

Introductions

About the 2014 Deloitte-NASCIO Cybersecurity Study and participation

Discuss study findings

Questions

## Our Speakers Today



**Stu Davis**

CIO, State of Ohio and NASCIO President

**Srini Subramanian**

State Sector Risk Advisory Leader  
Deloitte & Touche LLP



**Doug Robinson**

Executive Director  
NASCIO

**Mike Wyatt**

State Sector Cyber Risk  
Program Services Leader  
Deloitte & Touche LLP



# The 2014 Deloitte-NASCIO Cybersecurity Study



The study is based on surveys and comparisons, and offers suggestions to:

- Provide state leadership with insights and identify trends to help states set informed and strategic cybersecurity direction
- Assess elected and appointed business leader input with a state officials survey
- Compare responses from CISOs and state officials, along with relevant results from the 2010 and 2012 studies

## An outstanding response and result

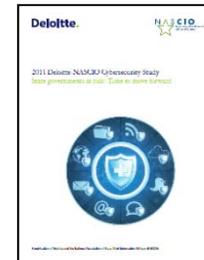
**State CISO Survey:** 49 state CISOs responded to an online survey containing 58 questions

**State Officials Survey:** 186 elected and appointed officials from 14 affiliated organizations answered 14 questions:

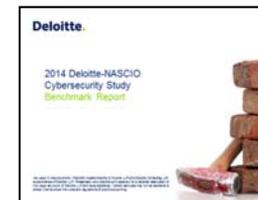
1. National Association of State Auditors, Controllers & Treasurers (NASACT)
2. National Association of Attorneys General (NAAG)
3. National Association of Secretaries of State (NASS)
4. National Association of State Personnel Executives (NASPE)
5. National Association of State Chief Administrators (NASCA)
6. National Association of State Budget Officers (NASBO)
7. National Association of State Procurement Officials (NASPO)
8. American Association of Motor Vehicle Administrators (AAMVA)
9. National Association of Medicaid Directors (NAMD)
10. National Emergency Management Association (NEMA)
11. Adjutant General Association of the United States (AGAUS)
12. Governors Homeland Security Advisors Council (GHSAC)
13. Federation of Tax Administrators (FTA)
14. International Association of Chiefs of Police (IACP)  
– Division of State & Provincial Police (S&P)

### Results

#### 1. Cybersecurity Study



#### 2. Benchmark Report



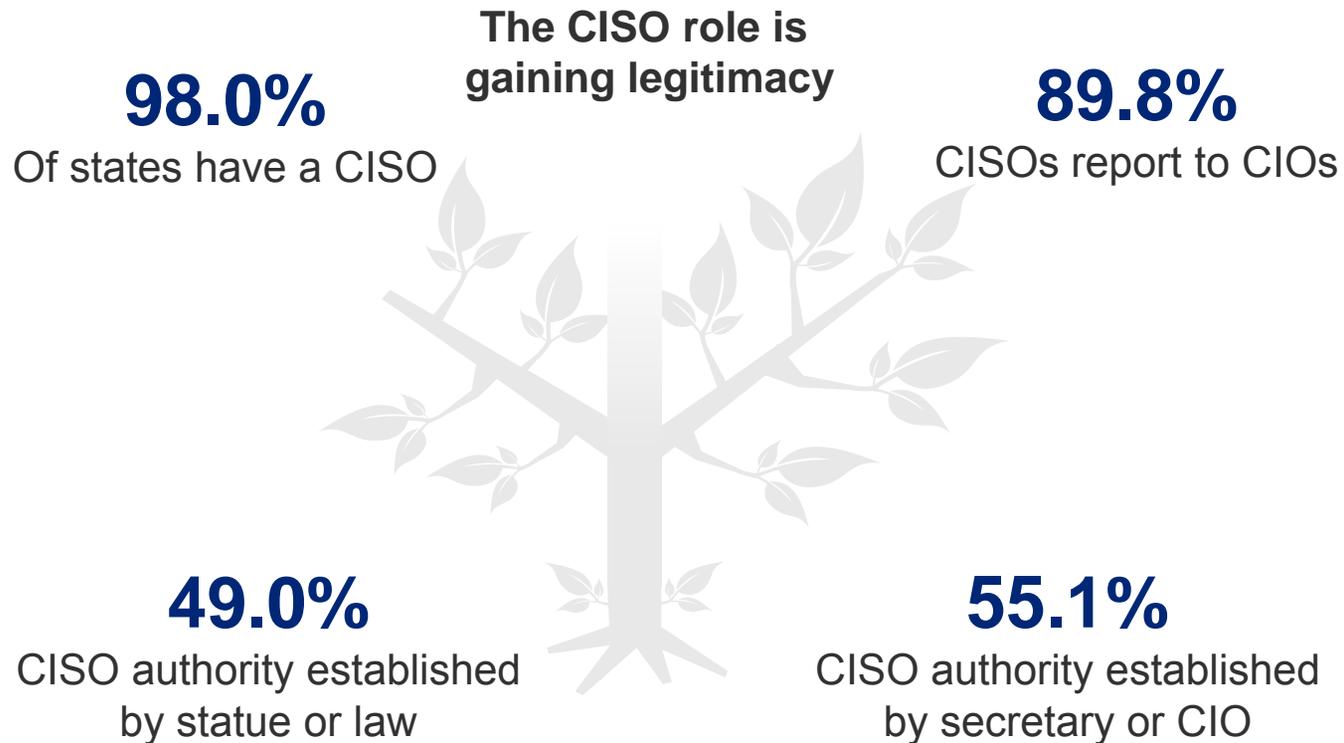
# Findings from the study

## Key themes from the study

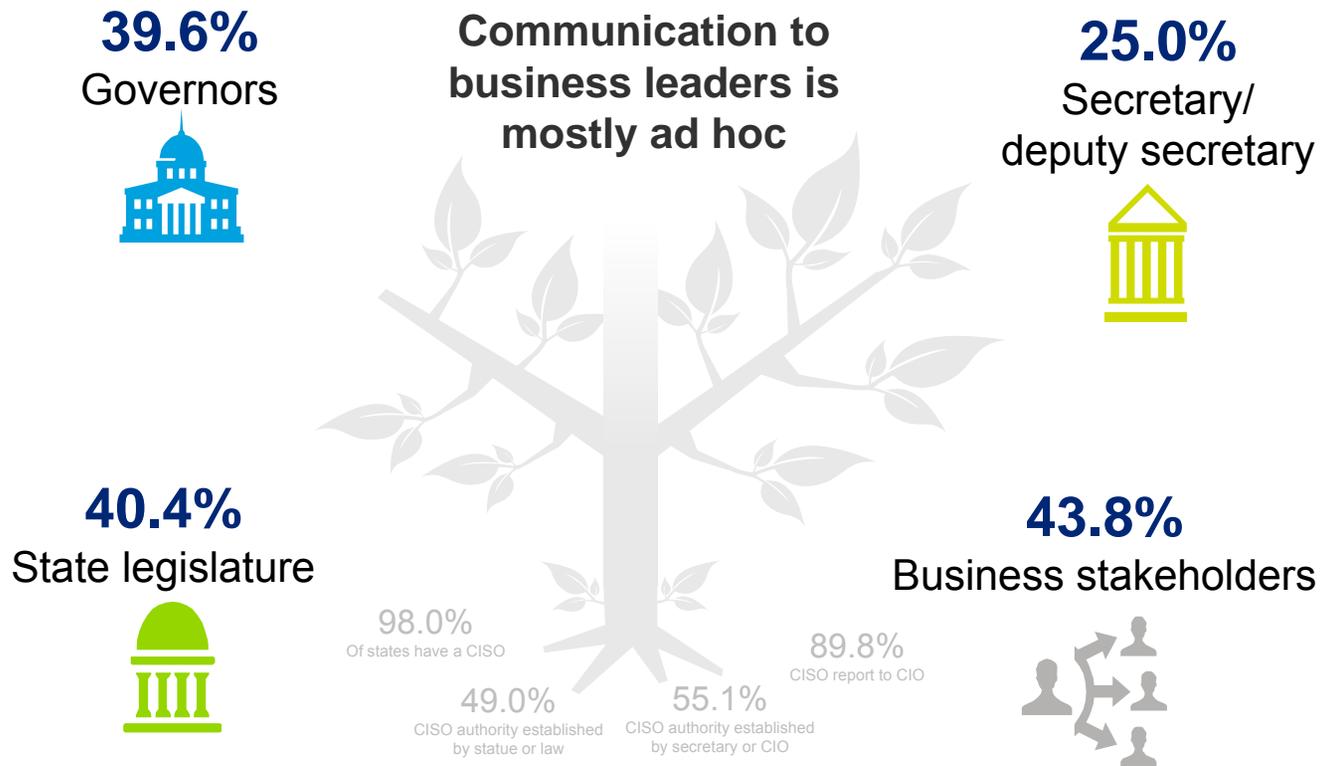
- Maturing role of the CISO
- Budget-strategy disconnect
- Cyber complexity challenge
- Talent crisis

# I. Maturing role of the CISO

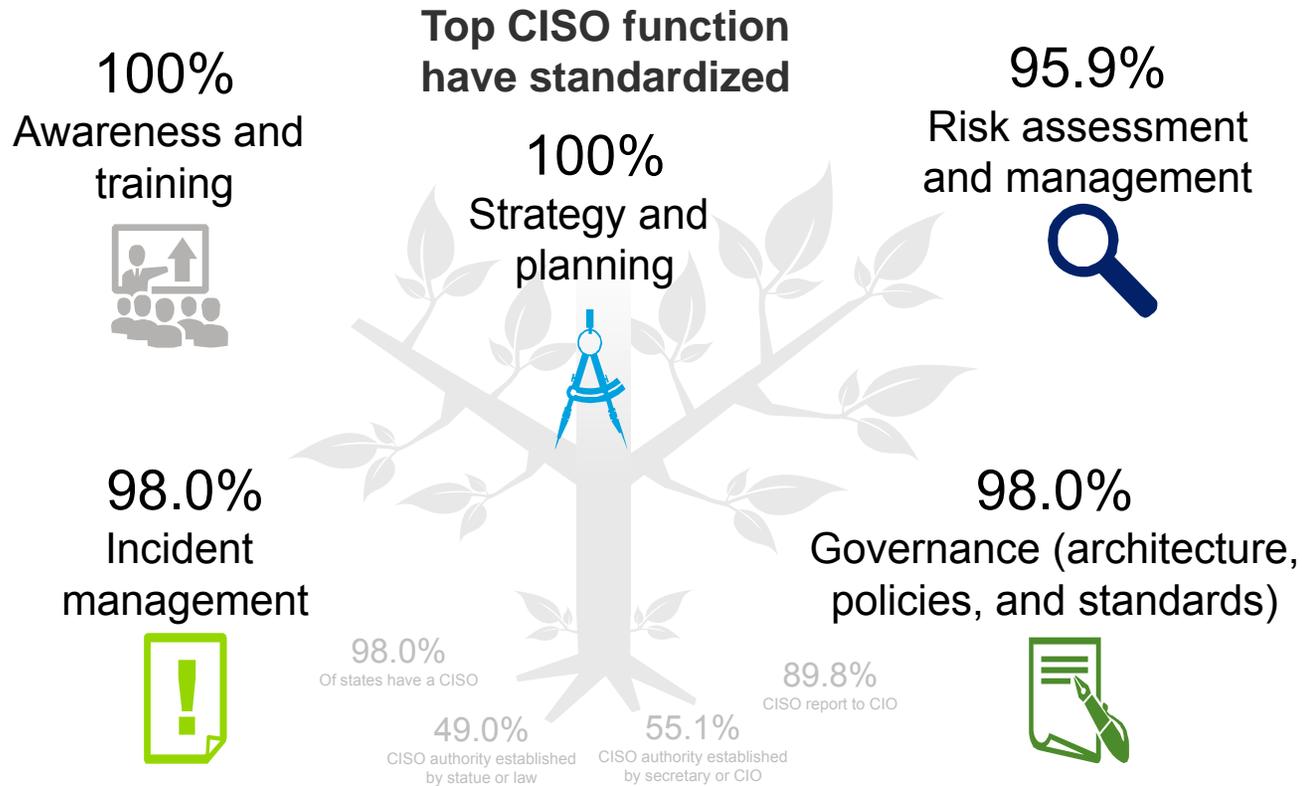
## Maturing role of the CISO



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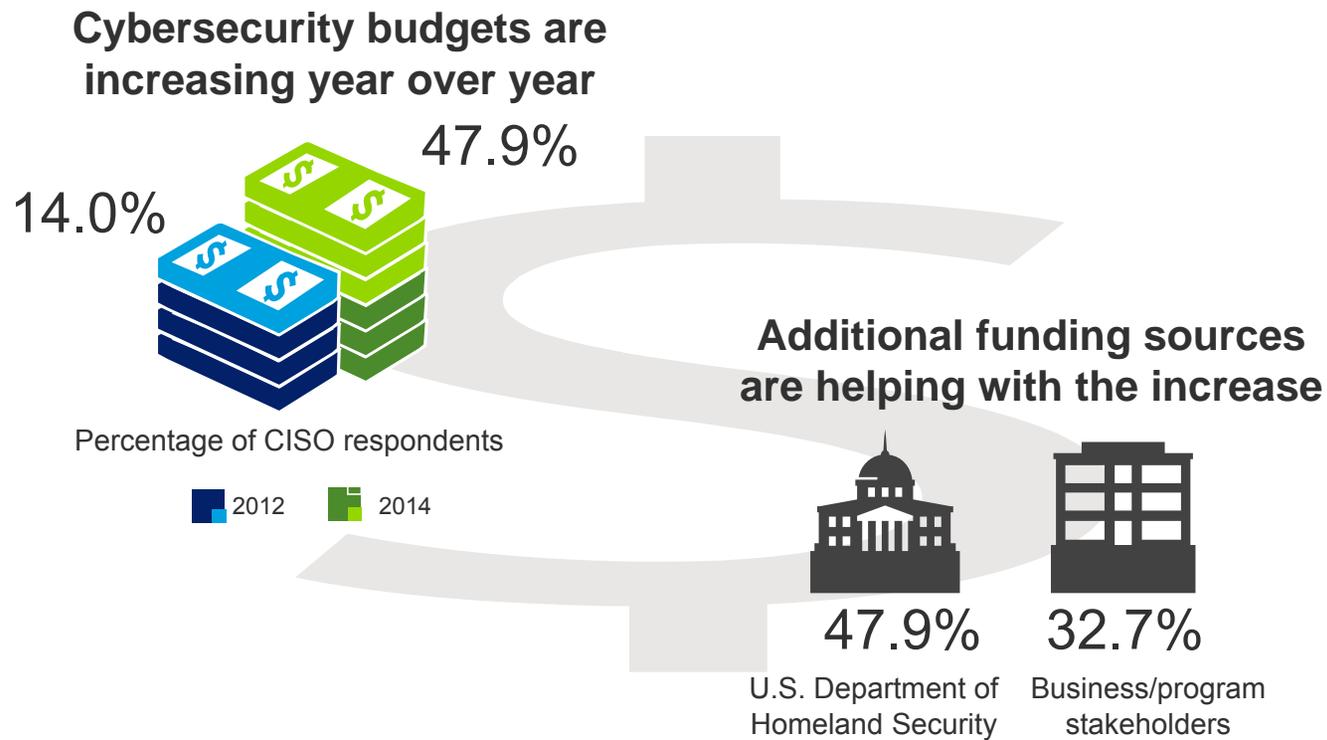
## Moving forward...

### Role and Governance

- **Governance, Risk and Compliance:** CISOs could continue to manage the strategic, risk management, and regulatory/compliance functions
- **Privacy:** Enterprise-level privacy officers can help determine which data needs to be protected and why
- **Security technology and operations:** A security executive could manage technical and operational aspects of security

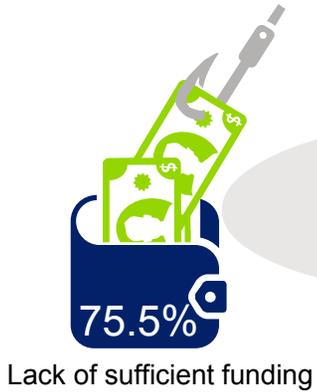
## II. Budget-strategy disconnect

## Budget-strategy disconnect



## Budget-strategy disconnect

**Funding is still the #1 barrier to effective cybersecurity**



**Security allocation as part of IT budget remains unchanged**



46.8% of states have only 1-2% of IT budget for cybersecurity

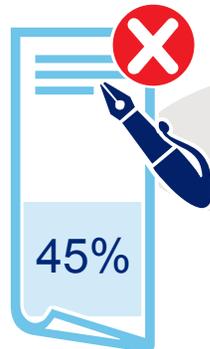
**Senior Executive commitment is there, but funding still insufficient**



65.3%

## Budget-strategy disconnect

**Approved strategies are still largely missing**



Absence of approved strategy

**Absence of business-aligned metrics**



Majority of CISOs continue to work on establishing business-aligned metrics

## Moving forward...

Strategize & achieve appropriate funding

- Communicate and collaborate with legislators and state business/program leadership to build a business case for security as a line item in the budget
- Effectively collaborate with agency-level program and business leaders to get cybersecurity included in program budgets
- Work with CIOs to:
  - Allocate a reasonable percentage of new business and technology initiatives for cybersecurity
  - Identify creative ways to include cybersecurity as a critical part of enterprise data center consolidation initiatives

### III. Cyber complexity challenge

# Cyber complexity challenge

## Confidence Gap

Ability to protect against external attacks;  
Only 24% CISOs vs.60% State officials

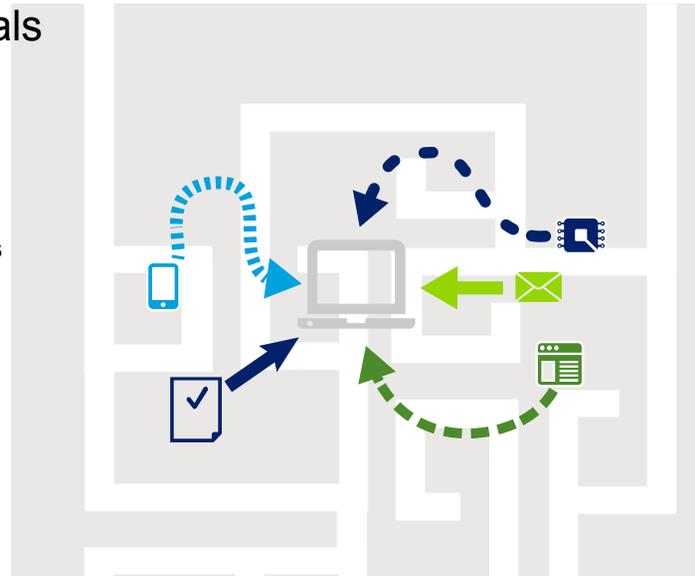
State officials



State officials



CISOs



## Top barriers

State officials and CISOs agree



#1 Funding



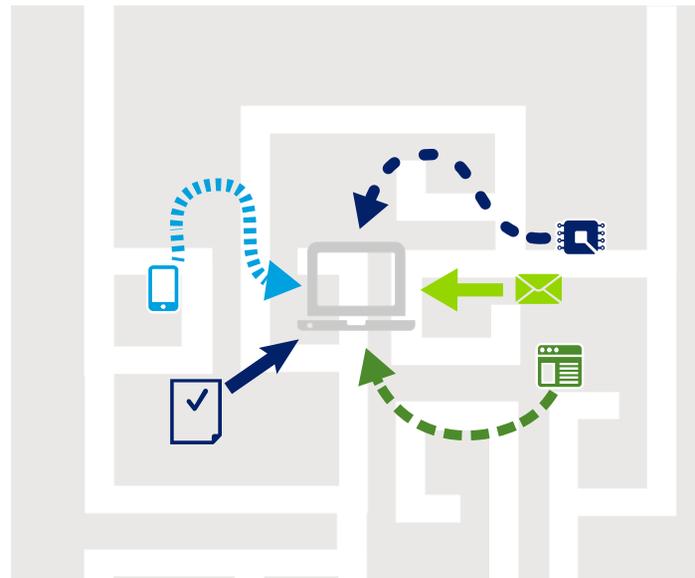
#2 Sophistication of threats



# Cyber complexity challenge

## Top 2 regulations for states

-   
100%  
HIPAA
-   
98.0%  
IRS 1075



## More regulations introduced

-   
CMS MARS-E
-   
OCSE security
-   
IRS 1075 updates

## Moving forward...

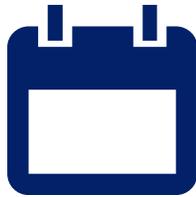
Unravel the complexity

- Use both increasing regulatory requirements and audit findings to gain the attention of business and agency/program leaders
- Clearly communicate the nature and severity of cyber risks and impacts to business stakeholders, agency/program leaders and legislative leaders
- State cybersecurity approach needs to evolve – can't rely on protection or securing efforts alone

## IV. Talent crisis

# Talent crisis

**FTE counts are increasing**



49% 6 to 15 FTEs

**Competencies have increased, training has improved**



7 out of 10 states agree

**Inadequate availability of cybersecurity professionals**



Barrier #3  
59%

# Talent crisis

## Top challenge is staffing



Salary  
9 out of 10 CISOs

## Collaboration needed with HR to define cybersecurity career path



25%

States with appropriate job descriptions documented by HR

## Leading challenge in workforce development

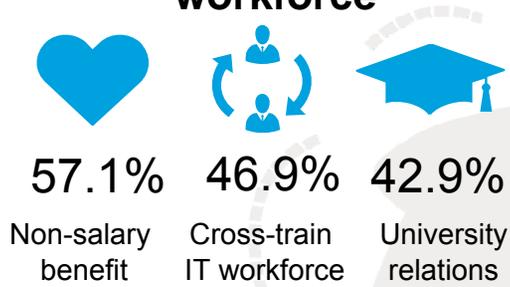


67.3%

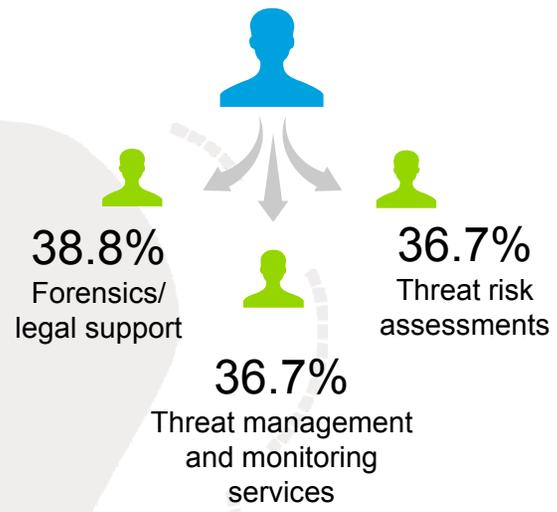
CISOs choose "Lack of a defined cybersecurity career path"

# Talent crisis

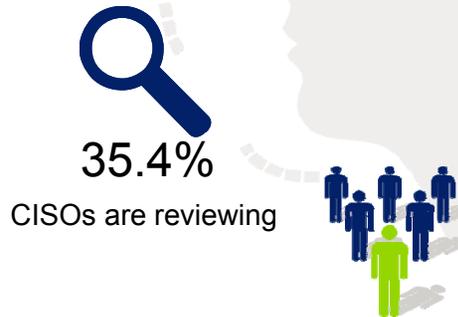
## Top three actions to improve workforce



## Top functions outsourced



## NICE framework



## Moving forward...

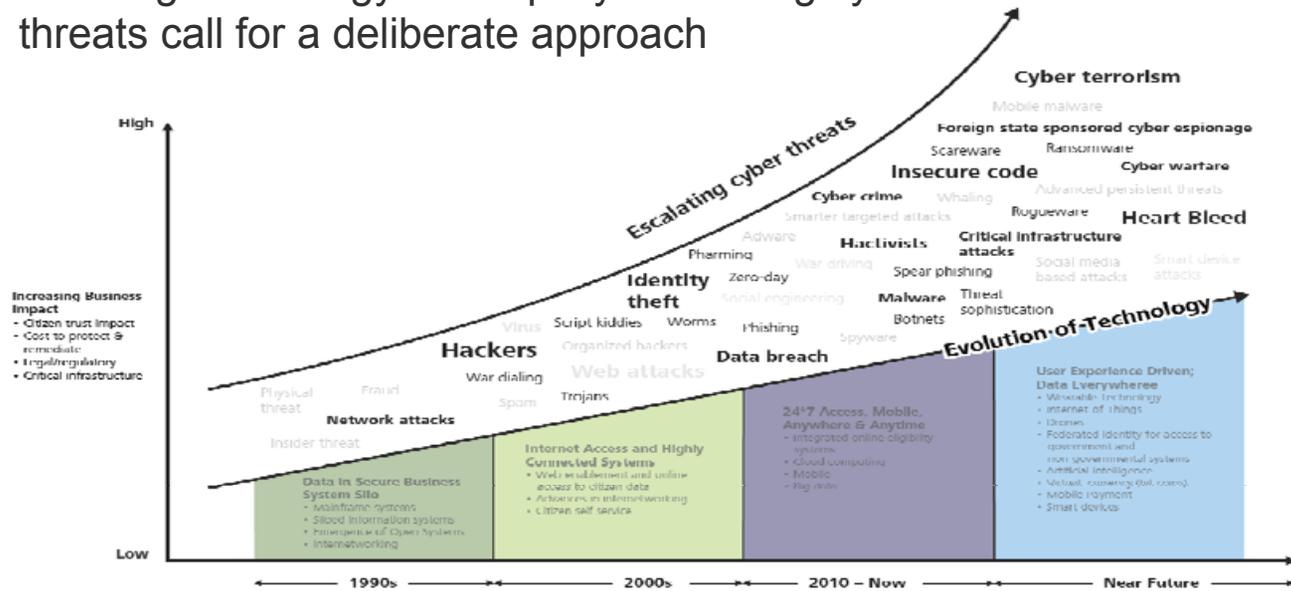
Get creative & gain on talent

- Attracting Millennials is a whole new ballgame: Millennials are likely to be an important source of talent in the cybersecurity arena
- Partner with Human Resources: States need a career development path for cybersecurity talent
- Partner with private sector to supplement cybersecurity teams: CISOs should provide training to their staff to effectively manage teams that may include members from third parties

# Time to move forward

Cybersecurity should become an enterprise business imperative

Evolving technology and rapidly escalating cyber threats call for a deliberate approach



Questions



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## Other questions?

Please send additional questions to  
Meredith Ward at [mward@nascio.org](mailto:mward@nascio.org).

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