NICE Webinar Series

NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

State Governments Pursuing New Tactics in the War for a Skilled Cybersecurity Workforce

July 18, 2018

Lauren DeNinno
Policy Advisor
ldeninno@westgov.org

THE STATES

YEAR-ONE REPORT FINDINGS

The Western Governors' Workforce Development Initiative

SPECIAL REPORT

The Chairman's Initiative of South Dakota Governor Dennis Daugaard

June 2018

http://westgov.org/initiatives/workforce-development-initiative/report
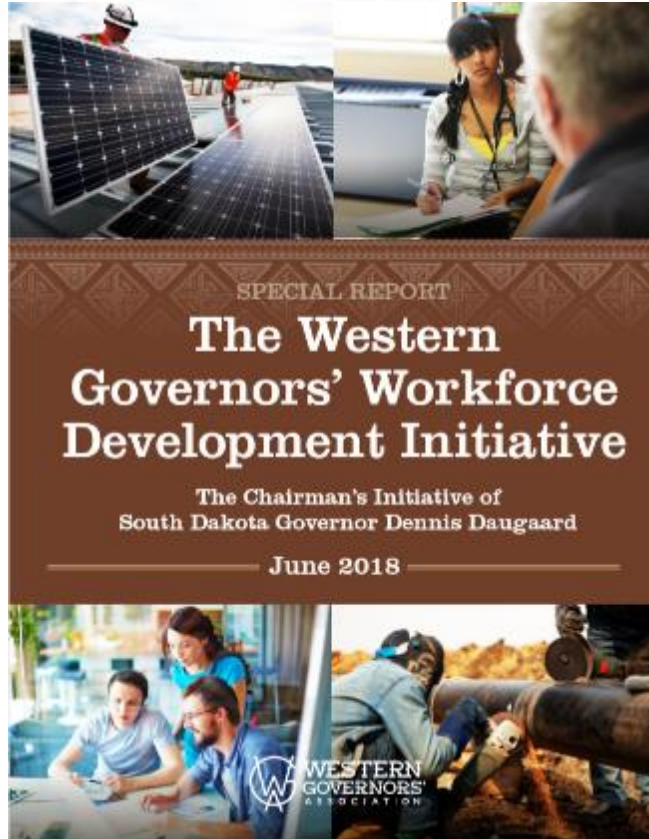
- Integrate State Efforts

- Value All Pathways

- Connect Education to Careers

- Create Pathways to In-Demand Careers

- Upgrade Skills

- Address Rural Challenges

Integrate State Efforts

PROTECTING ARIZONA
AGAINST CYBER THREATS
THE ARIZONA CYBERSECURITY TEAM

- Establish statewide goals

- Align state resources and break down silos

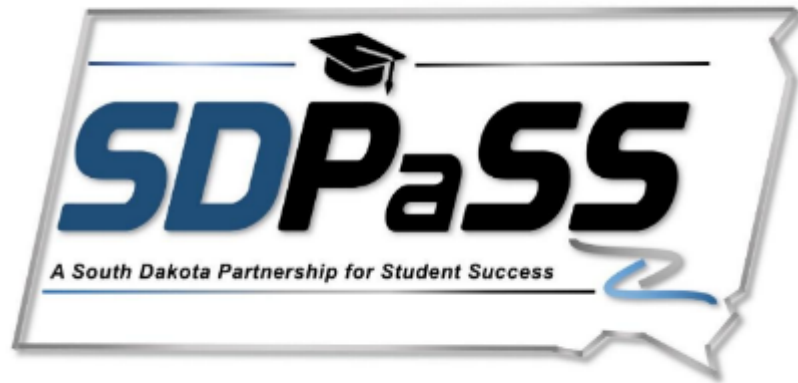- Encourage industry leadership

Connect Education to Careers

- Increase career awareness

- Provide opportunities for career exploration

- Facilitate industry-education collaboration

Create Pathways to In-Demand Careers & Upgrade Skills

SDPaSS — A South Dakota Partnership for Student Success

- Provide work-based learning opportunities, such as internships and apprenticeships

- Design career pathways that help guide students through training and education into the workforce

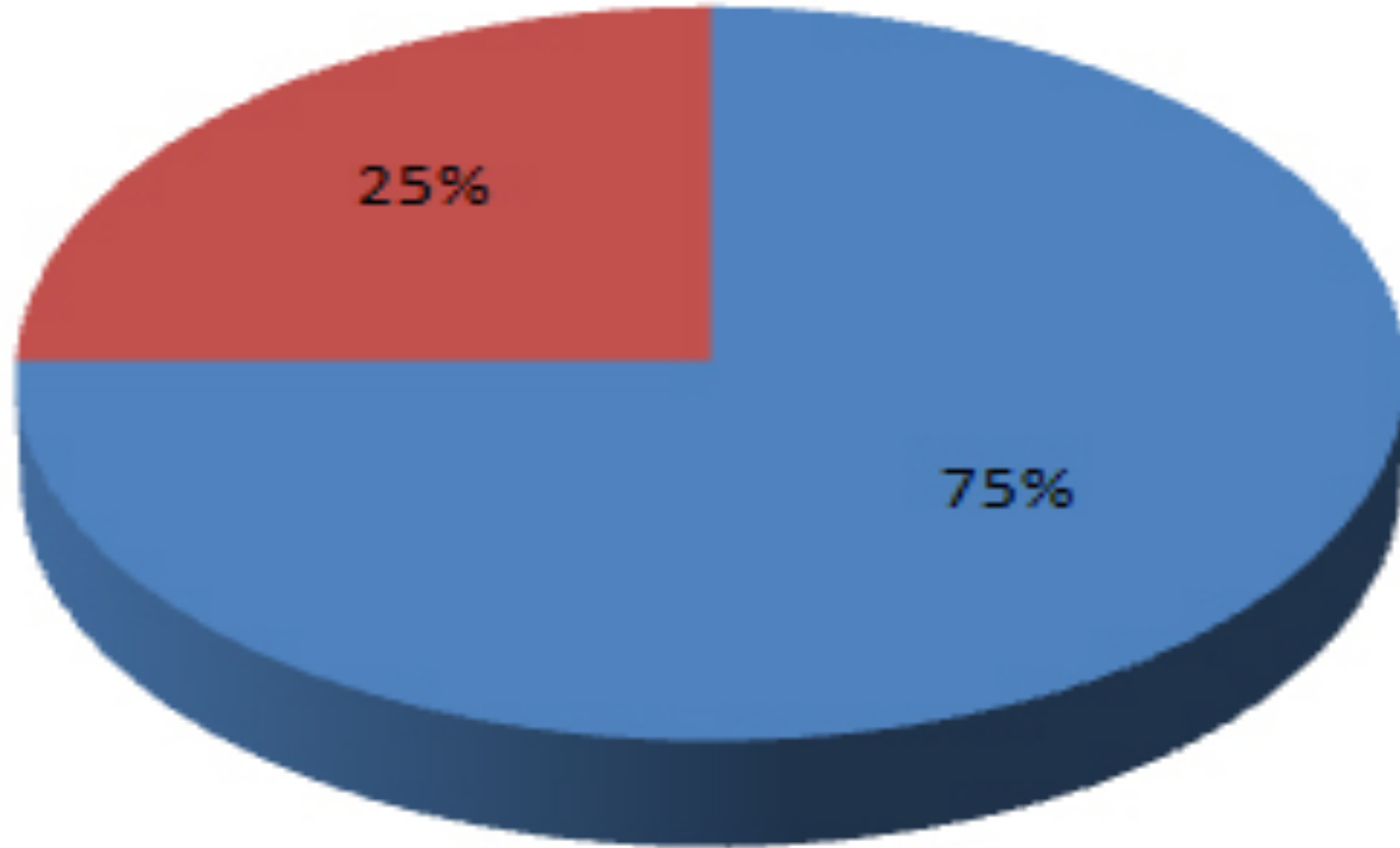- Make it easy for adults to upgrade their skills through earn-and-learn programs

Lauren DeNinno
Policy Advisor
ldeninno@westgov.org

Q & A

Indiana Executive Council on Cybersecurity

The Problem

The Strategic Solution

MISSION

In order to protect the security and economy of the State, it is appropriate and necessary for state government to establish and lead a statewide, collaborative effort involving government, private-sector, military, research, and academic stakeholders to enhance Indiana's cybersecurity.

DIRECTIVES (PER EXECUTIVE ORDER)

- Establish an effective governing structure and strategic direction

- Formalize strategic cybersecurity partnerships across the public and private sectors

- Strengthen best practices to protect information technology infrastructure

- Build and maintain robust statewide cyber incident response capabilities

DIRECTIVES (PER EXECUTIVE ORDER)

- Establish processes, technology, and facilities to improve cybersecurity statewide

- Leverage business and economic opportunities related to information, critical infrastructure, and network security

- Ensure a robust workforce and talent pipeline in fields involving cybersecurity

Indiana Executive Council on Cybersecurity

Columns: Government Service | Finance | Defense | Energy | Water/Wastewater | Communications | Healthcare | Elections | Economic Development | Workforce Development

Steps (top to bottom):
- Personal Identifiable Information
- Public Awareness & Training
- Emergency Services & Exercise
- Cyber Sharing
- Policy
- Cyber Pre Thru Post Incident
- Legal/Insurance
- Local Government
- Cyber Summit
- Strategic Resource

18

IN LESS THAN A YEAR…

- Completed Four Phases
  - Research
  - Planning
  - Implementation
  - Evaluation
- Developed Almost 67 Deliverables and 117 KPIs

Workforce Development

RESEARCH CONDUCTED

- Existing data on cybersecurity programs/courses/degrees/certifications and the capability of that data
- Sources for current and future demand for cybersecurity workers in Indiana
- List of all cybersecurity-related jobs and the skills required to fill those jobs – NICE
- Discussion on how easy / difficult it is to fill cybersecurity jobs, currently
- List of programs designed to generate interest in cybersecurity and a career in cybersecurity
- What has happened in the recent past in this area in Indiana

COMMITTEE DELIVERALBES

- Generate Interest Plan
- Job Demand Tool
- K-12 Offering Cybersecurity Content
- NICE Framework Standard
- Program Data Tool

NATIONAL GOVERNORS ASSOCIATION

- NICE Framework Standard
  - Full ecosystem of the workforce
    - K-12 – Generate Interest
    - College and Training Programs for all types of job seekers
    - Employers and Business Support

Contact Information:
Chetrice L. Mosley
Cybersecurity Program Director
Cell: (317) 607-3178
Email: MosleyCLM@iot.in.gov

Q & A

INNOVATIVE HIGHER EDUCATION PARTNERSHIPS

Company	Education partner	Industry	Details
EA Electronic Arts	LSU	Digital media	Building the Louisiana Digital Media Center on LSU's campus
IBM	LSU	Software and information	Tripling the number of computer science graduates
CenturyLink	Louisiana Tech University	Telecommunications	Expanding telecommunications curriculum
CSC	Louisiana Tech University	Software and information	Increasing number of computer science graduates
GE Capital	The University of New Orleans	Software and information	Funding academic programs
CGI	University of Louisiana Lafayette	Software and information	Increasing number of computer science graduates
IBM	University of Louisiana at Monroe	Software and information	Increasing number of computer science graduates
DXC.technology	Regents	Software and information	Increasing number of computer science graduates Expanding CS curriculum Extra-curricular program funding
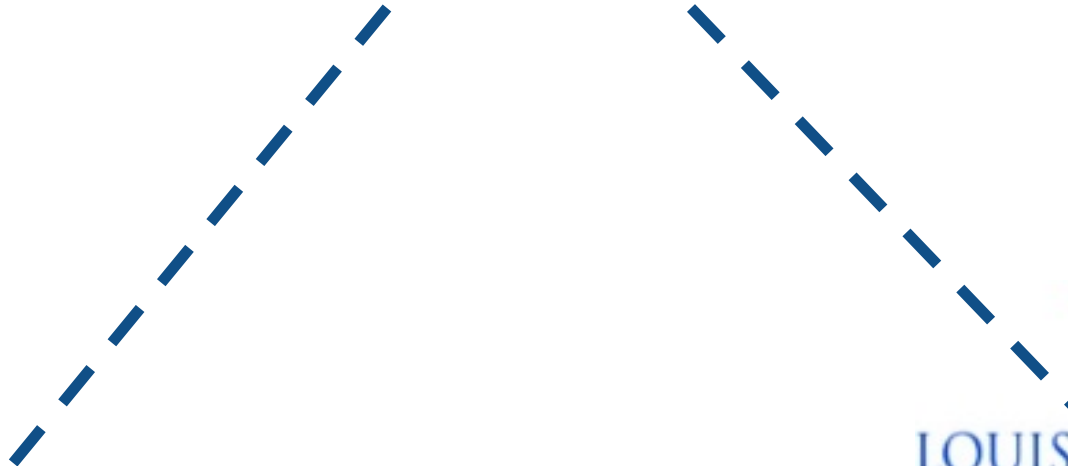
LED FastStart
Louisiana's Custom Workforce Solution

26

PROTECT WHAT MATTERS℠

Mission

Establish a Cybersecurity Commission to advance the State's cyber ecosystem and positions Louisiana as a national leader and preferred location for cyber business, education, and research.

LED *FastStart*
Louisiana's Custom Workforce Solution

LOUISIANA CYBERSECURITY COMMISSION

Cybersecurity Commission Goals

1. Identify, Prioritize, and Mitigate Louisiana's Cyber Risk

2. Promote Cybersecurity Awareness and Recommend Best Practices for the Security of all of Louisiana's Cyber Ecosystem

3. Promote Actions, Including Legislative, Administrative, and Regulatory, Where Appropriate, to Enhance Cybersecurity in Louisiana

4. Grow Louisiana's Cybersecurity Workforce and Educate the Public/Private Sectors about Cybersecurity

5. Enhance Louisiana Cyber Emergency Preparedness and Response Capabilities

6. Monitor, Understand, and Share Cyber Threat Information

7. Build a Comprehensive Digital Forensics and Cyber Investigative Capability

8. Identify, Prioritize, Acquire, and Establish Funding Mechanisms to Enhance Louisiana's Cybersecurity Efforts

9. Facilitate Economic Development by Promoting a Cyber-safe Louisiana for Businesses and Consumers

Q & A

Thank You for Joining Us!

Upcoming Webinar: "Afterschool Programs Present Opportunities to Grow the Cybersecurity Workforce"

When: Wednesday, September 12, 2018 at 2:00pm ET

Register: https://nist-nice.adobeconnect.com/webinar-sep2018/event/registration.html

nist.gov/nice/webinars

NICE
NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION