

SREB

Overview of SREB's Commission on Artificial Intelligence in Education

October 15, 2024

-Stephen Pruitt, President

-Ivy Coburn, Division Director, Education and Workforce

AI: Biggest Work Disruption...

49%

Skills irrelevant by 2025

56%

Entry-level
jobs eliminated

60%

Jobs impacted

12M

Fewer jobs by 2030

41%

Executives expect to
employ fewer workers

25%

Work tasks replaced

Our Charge

The SREB Commission on Artificial Intelligence in Education will evaluate research, industry data and advice from experts to determine how education can successfully adopt and integrate AI across the region and lead the nation. Based on this critical evaluation, the Commission will then develop recommendations for

- policies regarding the use of AI in K-12 and postsecondary education,
- use of AI in instruction to promote AI literacy among students, educators, and the workforce and
- the development of skills and seamless pathways in the education-to-workforce system to meet industry and state needs.



AI Commission Subcommittees

K-12 AI
Policies

PSE AI
Policies

K-12 AI
Instruction

PSE AI
Instruction

AI Skill
Development

SREB

AI Policy Committee Initial Recommendations

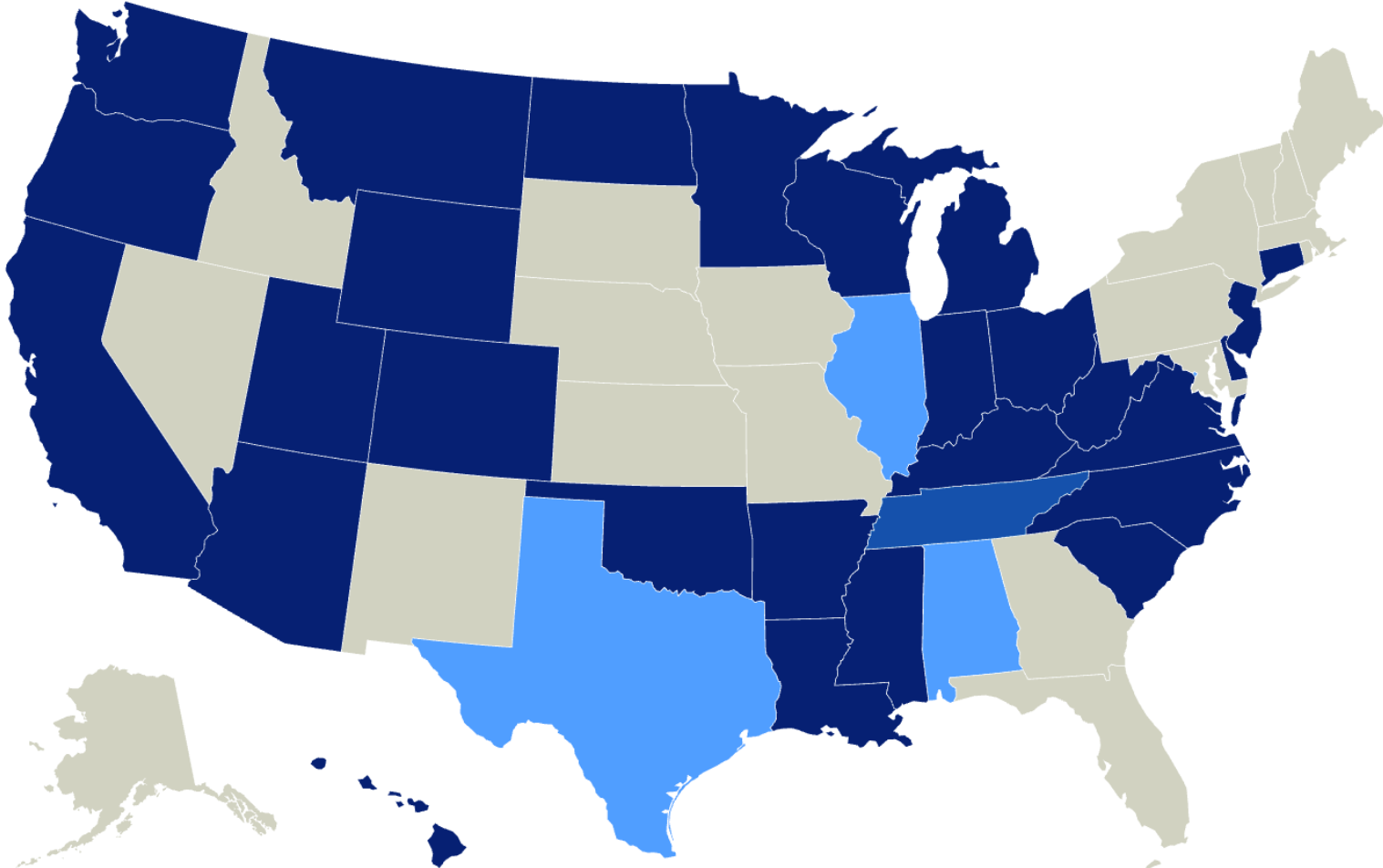
*Consideration by full commission in October
Adoption at November meeting*

STATE GUIDANCE ON AI

50 States

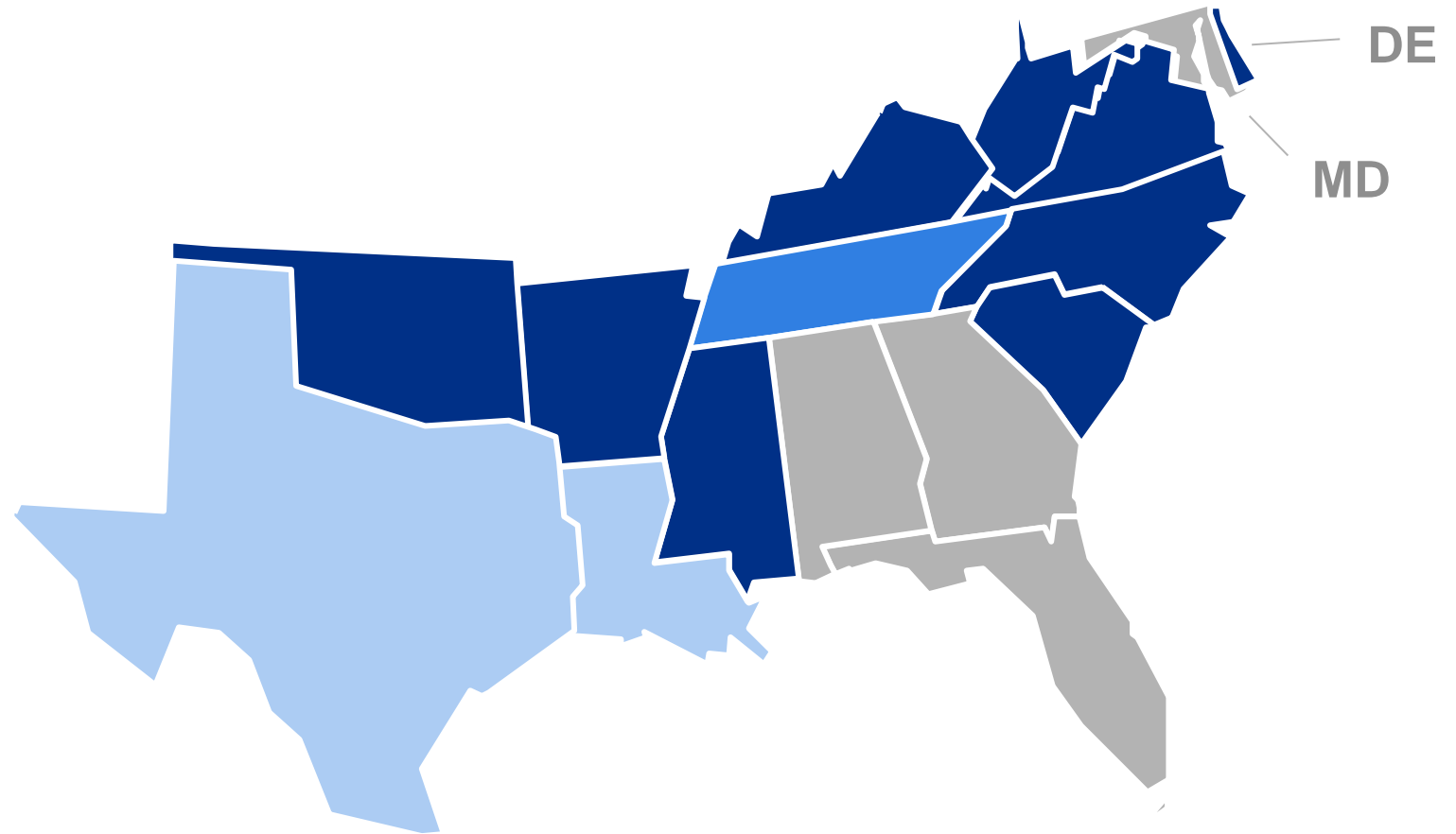
AI Guidance for Education

■ Does not currently have guidance ■ Guidance taskforce established ■ Has bill/law in place that will require guidance ■ Has guidance



AI Education Guidance in SREB States

- Does not currently have guidance
- Guidance taskforce established
- Has law in place that requires guidance
- Has guidance



AI-Policy Draft Considerations

1-Develop Targeted AI Guidance for All Groups

2-Integrate AI Knowledge & Skills

3-Provide Professional Development for Educators

4-Establish State-Wide AI Networks

5-Develop and Administer AI Needs Assessments

6-Develop Costs Models for AI Implementation

SREB

K-12 Instruction Update

Process and Accomplishments

Review, discuss and draft a document outlining the skills needed for students and educators to be AI-literate.

Review current state and other entities' guidelines for the use of AI in K -12 Instruction.

Interview current educators and state education leaders to understand how AI is currently used in schools and what barriers exist.

Draft a guidance document for starting points for using AI in instruction.

- Potential Uses – Opportunities and Cautions
- Resources
- Stories of current use in classrooms and schools

SREB

Postsecondary Instruction Update

Postsecondary Education Instruction

Subcommittee is:

- Researching and developing landscape analysis for postsecondary instruction.
- Discussing accreditation implications with accrediting bodies to develop an alignment document institutions, states, and accreditors.
- Comparing shared resources and viewpoints presented in the 2020 Global AI Strategy Landscape to identify alignment and opportunities to strengthen instructional practices needed to support workforce development.

SREB

AI Skill Development

AI Examples Across Industries

Agriculture, Food & Natural Resources

- AI-powered drones and sensors monitor crop health, soil conditions, and weather patterns to optimize farming practices.

Finance

- AI algorithms analyze transaction data to identify and prevent fraudulent activities.

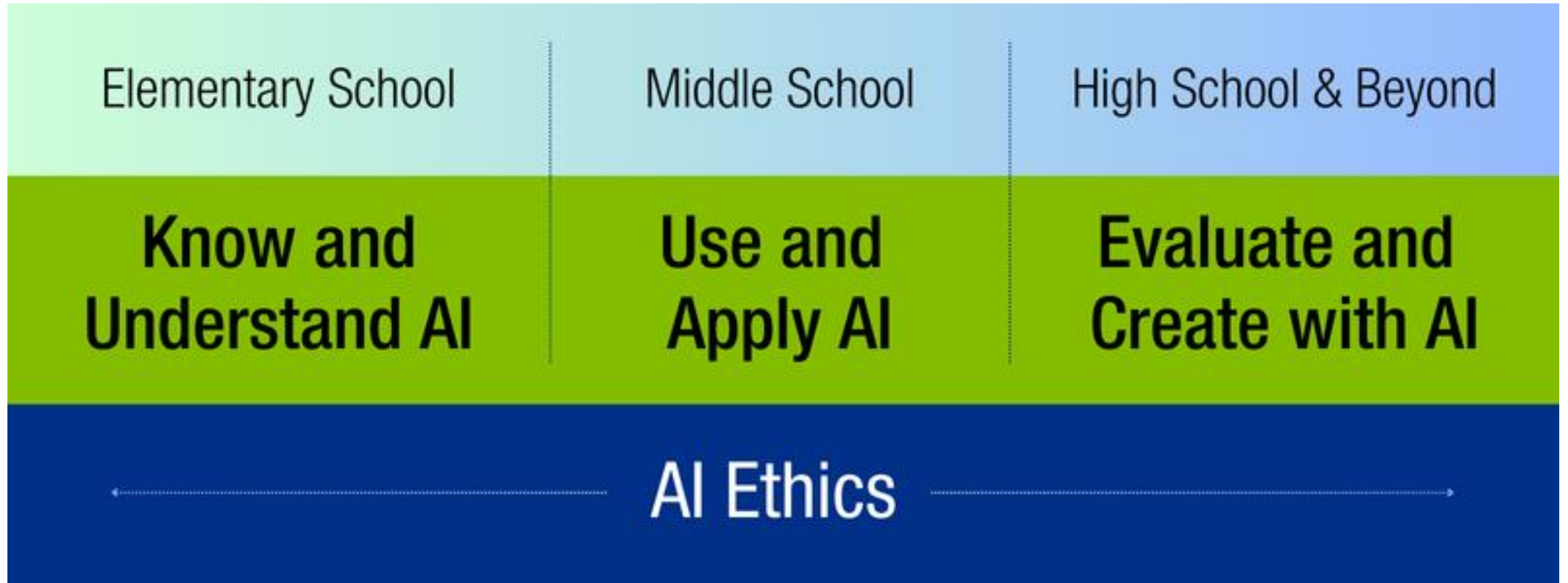
Transportation, Distribution and Logistics

- AI analyzes traffic patterns to optimize delivery routes and reduce fuel consumption.

STEM

- AI tools assist researchers in data analysis, literature review, and experiment design.

AI Learning Progressions



Communication Skills

Problem Solving

**Leadership &
Project Management**

Adaptability

**Teamwork &
Collaboration**

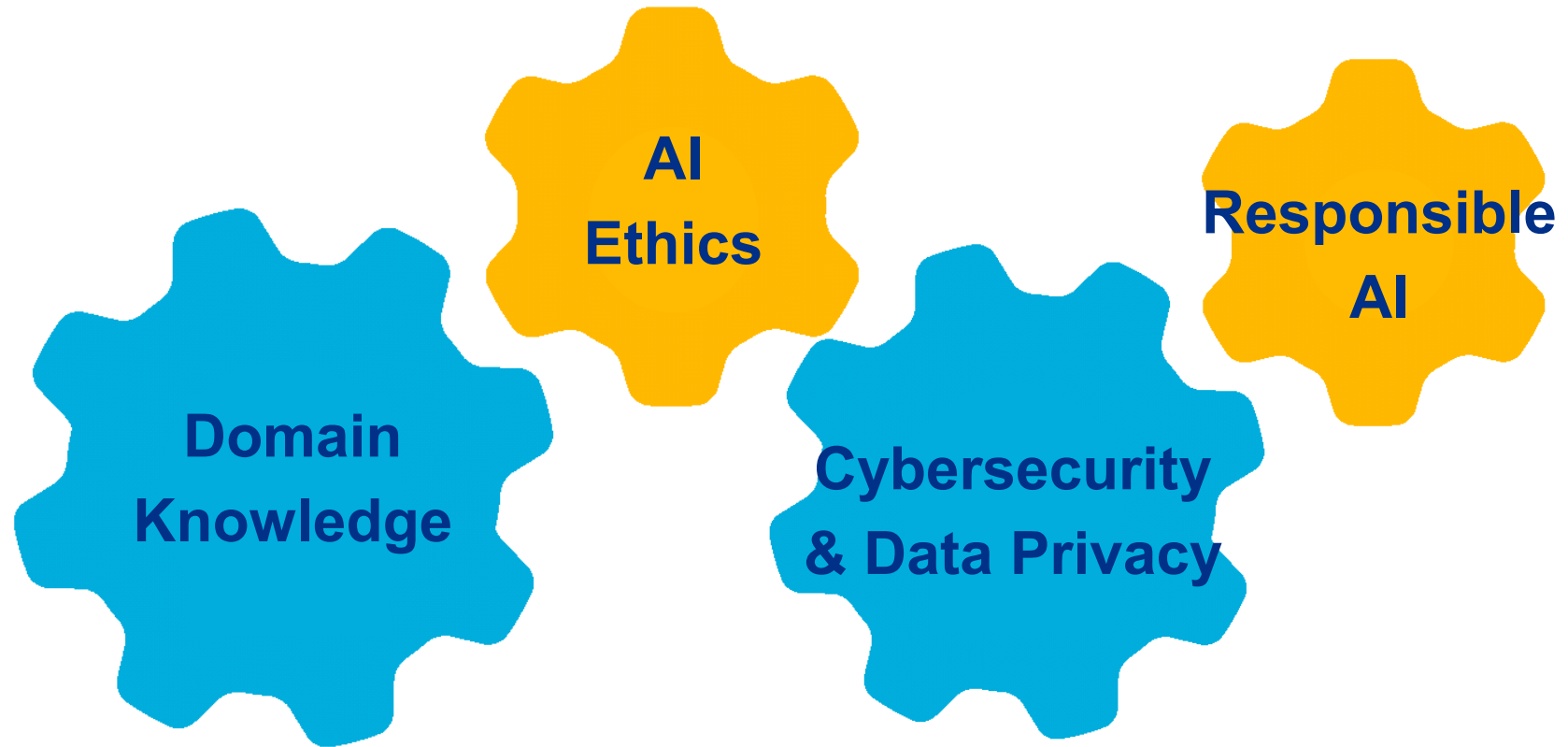
**Continuous
Learning**

Critical Thinking

Creativity



Industry Baseline Skills



Technical Skills

Artificial Intelligence

Machine Learning

Deep Learning

Generative AI

Language Models

Computer Vision

Data Literacy

Programming

Machine Learning – Understanding how computers use supervised, unsupervised and reinforcement learning algorithms to analyze and learn from data to recognize patterns, make predictions and improve performance over time through experience and iterative training on diverse datasets.

Elementary School Know and Understand AI	Middle School Use and Apply AI	High School and Beyond Create with or in AI
Introducing students to machine learning by exploring how computers can learn from data to recognize patterns and make simple decisions.	Exploring key machine learning concepts by experimenting with data to help students see how algorithms and models can be used to classify and predict outcomes.	Creating and evaluating machine learning models, applying advanced concepts and assessing the performance and ethical implications of their work.



For more information:

Stephen Pruitt

President

Stephen.Pruitt@sreb.org

Ivy Coburn

Division Director – Education and Workforce

Ivy.Coburn@sreb.org