



## Artificial Intelligence: Opportunities and Leadership in South Dakota

*SD Legislature's Summer Study Committee on Artificial Intelligence and Regulation of Internet Access by Minors*

*U.S. Senator Mike Rounds*

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### What is AI and what does it do?

- Artificial intelligence (AI) is like a very smart computer program designed to perform tasks that usually require human intelligence. AI systems are designed to process large amounts of information quickly and accurately, which helps them find patterns and make predictions. AI is simply another tool created by humans to help us solve problems more efficiently.

### Senate AI Working Group's Roadmap to AI Policy:

- This roadmap to the future of AI policy sets the stage as we seek to harness AI's power to bring greater prosperity to the American people while also mitigating potential long-term risks.
- The roadmap supports a "light touch" regulatory approach that incentivizes companies to innovate here in the United States and provides Americans with the highest quality technology.

### Opportunities with AI – national security and healthcare innovations:

- **AI is keeping you safe:** AI revolutionizes national security by providing advanced tools for analyzing vast amounts of data, enabling faster and more accurate threat detection and enhancing decision-making processes.
- **AI can help cure cancer:** AI accelerates research and improves treatment outcomes by analyzing vast datasets of medical records, genetic information and clinical trials. This enhances early detection and diagnosis, improving survival rates. It can also assist in the creation of life-saving therapeutics for those affected.
- **AI can help solve our national debt crisis:** The federal government can leverage AI to increase efficiency, lower costs by streamlining operations, reducing bureaucratic overhead and enhancing public service delivery.
- **AI will increase demand for US energy production:** Developing and deploying increasingly advanced AI systems requires significant energy resources. Adopting an all-of-the-above energy strategy, including renewables, nuclear power and cleaner fossil fuels, is crucial.

### South Dakota's Leadership in AI

- **Dakota State University (DSU):** Renowned for its focus on cybersecurity and AI, and offers specialized programs to conduct groundbreaking research on AI applications.
- **South Dakota School of Mines and Technology:** Leader in AI research with a focus on integrating AI into materials engineering, advanced manufacturing and cybersecurity.

### Senator Rounds' efforts on AI:

- **Federal Cyber Workforce Training Act:** Establishes a centralized resource and training center for federal cyber workforce development.
- **GUIDE AI Act:** Increases access to better health care in rural areas through enhanced data collection.
- **Unleashing AI Innovation in Financial Services Act:** Creates opportunities for companies to experiment with AI.
- **Consumer LEARN AI Act:** Creates a national campaign to increase consumer AI literacy.
- **AI Grand Challenges Act:** Establishes program with prize competitions to encourage AI innovation.
- **CREATE AI Act:** Establishes the National Artificial Intelligence Research Resource (NAIRR) to provide tools and resources for AI research nationwide.