



Building North Dakota's Contribution to the Cyber Moonshot

August 28, 2018

Speaker



Shawn Riley
Chief Information Officer
State of North Dakota

NORTH DAKOTA'S CONTRIBUTION TO THE CYBER MOONSHOT



A close-up photograph of a smooth, light-colored rock with the word "Gratitude" engraved on it in a dark, serif font. The rock is surrounded by other rocks of various colors and textures, including some with a rough, crystalline surface. The lighting is warm, suggesting a sunset or sunrise, with soft shadows and highlights on the rocks.

Gratitude

North Dakota

...for those that have not visited ND... YET...

**EMPOWER PEOPLE
IMPROVE LIVES
INSPIRE SUCCESS**

Brag Stats

- #1 Entrepreneurs in the Nation – *Univ. of Nebraska*
- #1 Entrepreneurship environment – *Kauffman*
- #1 Best environment for start-up survival – *Kauffman*
- #1 Growth Performer State Since 2000 - *U.S. Chamber*
- #1 Quality of life - *U.S. News & World Reports*
- 252,000 users on State Gov Network
- 200,000 K-PHD students



Reinventing
Government



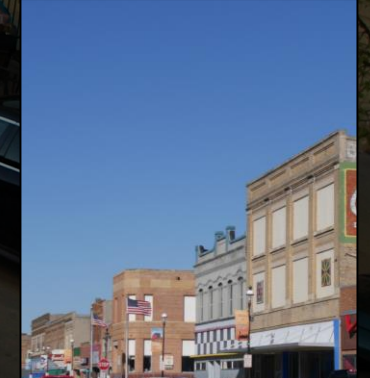
Behavioral Health
& Addiction



Tribal Engagement



Transforming
Education



Main Street
Initiative



K-20W

Every student
Every school
Cyber educated

Kindergarten through PHD

GRATITUDE

COURAGE

CURIOSITY

HUMILITY



GRATITUDE

COURAGE

CURIOSITY

HUMILITY

Why North Dakota?

...why would we want to be a national leader in Cyber?



Citizen
Focused

Growth
Mindset

Leadership
Everywhere

Work
As One

Make A
Difference



CITIZENS

Protecting the privacy and security of our citizen's data is essential

GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Citizen Focused

Growth Mindset

Leadership Everywhere

Work As One

Make A Difference

GRATITUDE

COURAGE

CURIOSITY

HUMILITY

Technology = Opportunity



Citizen
Focused

Growth
Mindset

Leadership
Everywhere

Work
As One

Make A
Difference

Technology is changing every job, industry, organization **and government**



GRATITUDE

COURAGE

CURIOSITY

HUMILITY



GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Marching towards the Smart State

1,000,000,000 sensors just in ND



”

The magic of software is driving a digital transformation, creating an interconnected world with unprecedented opportunities and unprecedented threats.

Cyber Security is absolutely essential to our collective future. We are rising to the challenge to create a comprehensive, statewide approach to cybersecurity. We are creating a future that meets the needs of industry and provides career opportunities for our citizens.

Governor Doug Burgum





How are we getting there?

...how do you shift an entire state to a new position?

GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Build Cyber Mission Control



Mission Control starts at the top



North Dakota Office of the Governor
Governor Doug Burgum Lt. Governor Brent Sanford



NORTH DAKOTA DEPARTMENT OF
PUBLIC INSTRUCTION



North Dakota
Information Technology Department



Codenamed "K-20W"



Every student
Every school
Cyber educated

Kindergarten through PHD

Start with Vision

GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Work across the silos

40+ different organizations have come together...so far

GRATITUDE

COURAGE

CURIOSITY

HUMILITY

Organizations

- Governor's Office
- Department of Public Instruction
- North Dakota University System
- National Guard
- NICERC
- *Palo Alto Networks*
- *6+ private industry partners*

• *6x K-12 Agencies*

• *7x Higher Ed Institutions*

• *9x Cabinet Agencies*



Citizen
Focused

Growth
Mindset

Leadership
Everywhere

Work
As One

Make A
Difference



GRATITUDE

COURAGE

CURIOSITY

HUMILITY

Integrated Standards

Computer and Cyber Science
Building the 21st Century Workforce



Citizen Focused

Growth Mindset

Leadership Everywhere

Work As One

Make A Difference

Teach the teachers

Cyber education for the educators across the state



GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Citizen Focused

Growth Mindset

Leadership Everywhere

Work As One

Make A Difference

Design for the students

Curriculum and day to day instruction



GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Citizen
Focused

Growth
Mindset

Leadership
Everywhere

Work
As One

Make A
Difference

Operational Security

Defending schools day to day

GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Outcomes

Building the 21st Century Workforce

"Creativity is thinking up new things.
Innovation is doing new things."

Theodore Levitt

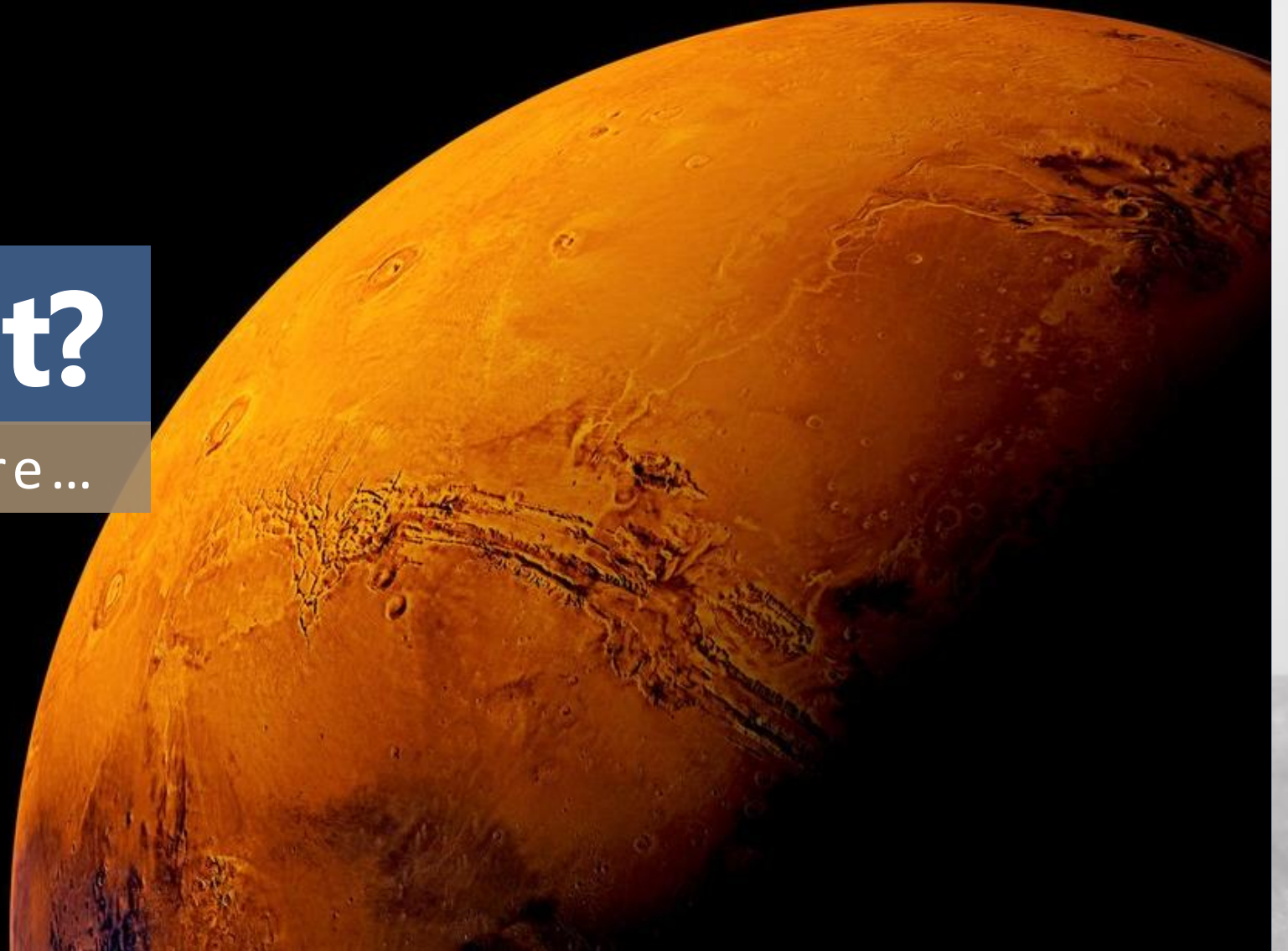
GRATITUDE

COURAGE

CURIOSITY

HUMILITY





What's Next?

We aren't stopping here...

GRATITUDE

COURAGE

CURIOSITY

HUMILITY



GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Far and away the best prize that life offers is the chance to work hard at work worth doing.

Teddy Roosevelt

North Dakota
LEGENDARY

North Dakota enjoys all four seasons.



Citizen
Focused

Growth
Mindset

Leadership
Everywhere

Work
As One

Make A
Difference



GRATITUDE

COURAGE

CURIOSITY

HUMILITY



Questions?



Contact Information

Shawn Riley

State Chief Information Officer
State of North Dakota
Information Technology Department
701-328-1001 | sriley@nd.gov

Eric Sweden MSIH MBA CGCIO™

Program Director, Enterprise
Architecture & Governance
National Association of State Chief
Information Officers (NASCIO)
859.514.9189 |
esweden@nascio.org

Follow Us



@NASCIO



/NASCIOMedia



/NASCIOMedia



National Association of State
Chief Information Officers
(NASCIO)