




**Driving to Results:
Addressing Critical Education
Needs in Rural Settings
with
Medical Simulation**

Presented by:
Simulation in Motion-Nebraska




1



Disclosures

I am an employee of the University of Nebraska Medical Center and co-editor of the Springer Textbook Comprehensive Healthcare Simulation: Mobile Medical Simulation.

I no longer have any financial connection to the textbook.



2



Objectives

- Identify two methods of education delivery that will work in rural areas.
- Describe potential roadblocks to delivering on-site hands-on education in rural areas.
- Explain the need for best practice training in rural areas of the country.



3



Why Mobile Simulation

- Best Practice Training**
- Lack of Availability**
- Rural vs. Urban Transport Times**
- Interprofessional Training**
- Critical Access Hospital vs. Regional/Urban Hospital**
- COVID-19**




4

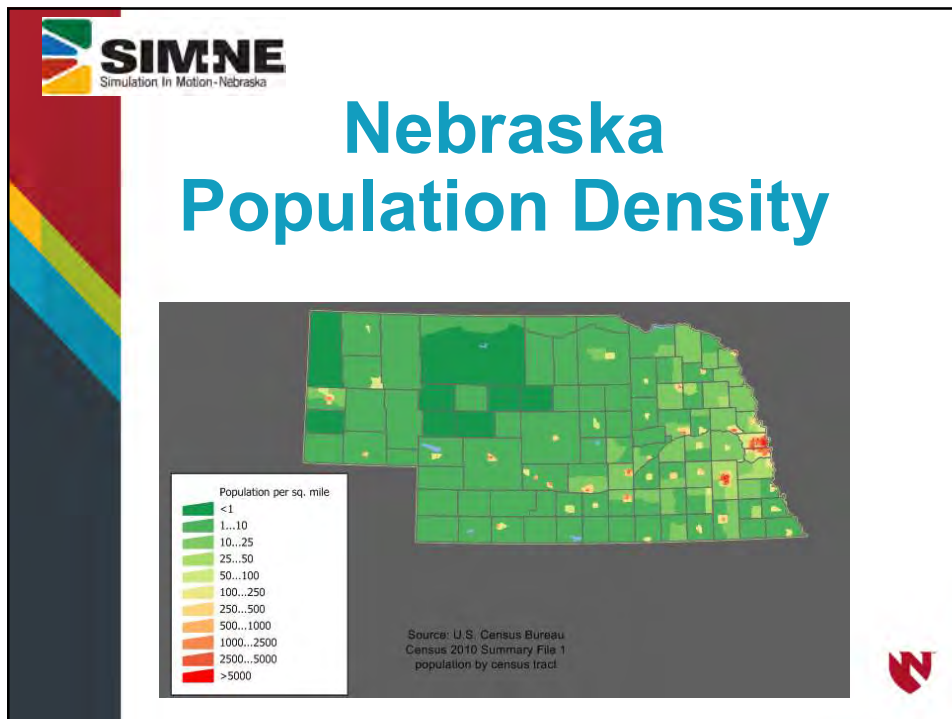
SIMNE
Simulation In Motion - Nebraska

U.S. Census Bureau Definitions


- **Urban-Densely developed territory, and encompasses residential, commercial, and other non-residential urban land uses**
- **Rural-Encompasses all population, housing, and territory not included within an urban area**
- **Frontier-Area that has a population density of less than two people per square mile**



5



6




Really How Rural

Least populated counties in the US

- Hawaii-1
- Texas-3
- Montana-1
- Alaska-1

- 5. Arthur County, Nebraska
Population: 463
- 6. Blaine County, Nebraska
Population: 465
- 8. McPherson County, Nebraska
Population: 494
- 10. Grant County, Nebraska
Population: 623




7



The Beginning






8




Who to Train

- Rural EMS Providers
- Critical Access Hospital Staff
- Law Enforcement
- Military
- K-12 Emergency Response Teams
- Primary Care Clinics
- Long Term Care Facilities



9




Content Delivery



- 1. The trucks**
- 2. In Situ-
Vans/SUV/Trailer**
- 3. Hybrid**
- 4. Virtual**



10



The Trucks


11




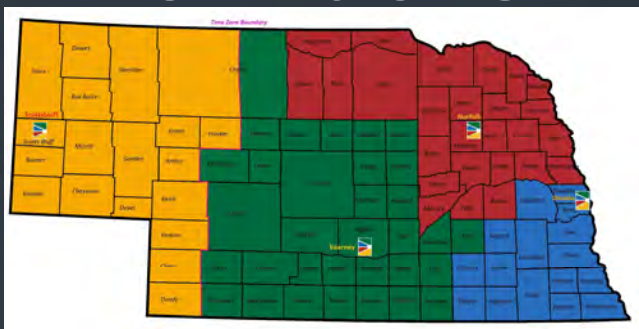

- Four trucks
- 45' Long
- Simulated ER
- Simulated Ambulance Patient Compartment
- Control Room
- Family of Simulators
- Working Medical Equipment
- Fully Self Sufficient
- Strategically Located Across the State



12



The Trucks



13



In Situ Hybrid




14



2 Vans capable of transporting all needed equipment for in situ events





15



Virtual

Facebook Live
Zoom
Other Platforms



16

 **SIMNE**
Simulation In Motion - Nebraska

Roadblocks



17

 **SIMNE**
Simulation In Motion - Nebraska

Roadblocks Trucks

- \$\$\$
- CDL to drive
- Maintenance and upkeep
- Trainees not familiar with environment/equipment
- Parking
- Weather



18



Roadblocks In Situ Hybrid


This Photo by Unknown
Author is licensed under CC
BY-NC-ND







19



Roadblocks In Situ Hybrid

Taking up hospital room/ambulance
Using facility/agency equipment (Roadblock and advantage)
Simulation “control room”
Real patients


This Photo by Unknown
Author is licensed under CC
BY-NC-ND






20



Roadblocks Virtual






21



Roadblocks Virtual

- Bandwidth (sending and receiving)
- Equipment
- Viewer experience with platform
- Staffing (10)
- Keeping it relevant and interesting


22

 **SIMNE**
Simulation In Motion - Nebraska

Advantages






23


 **SIMNE**
Simulation In Motion - Nebraska

Advantages

<u>Trucks</u>	<u>In Situ/Hybrid</u>	<u>Virtual</u>
Space	Space	Anywhere
Teamwork	Familiarity with equipment	Anytime
Scheduling	Process testing	Experts
Interprofessional	Entire team training	Event reach





24



SIM-NE by the Numbers

- 624 On-site training events-9,812 Registered participants
- 82 Virtual events-4,638 Registered participants
- 346 Agencies visited on site
- 670 Agencies represented in virtual events-Representing 23 states and 1 foreign country
- Trained in 92 of 93 counties
- Travelled over 88,000 miles
- Longest distance travelled for a training 440 miles roundtrip



25




ROI







26



ROI




27





Resources

SIM-NE Website
www.unmc.edu/sim-ne

SIM-NE Facebook Page
<https://www.facebook.com/Simulation.in.Motion.NE>

Comprehensive Healthcare Simulation: Mobile Medical Simulation
<https://a.co/d/2N3U67p>

28



29



30



31



32



33



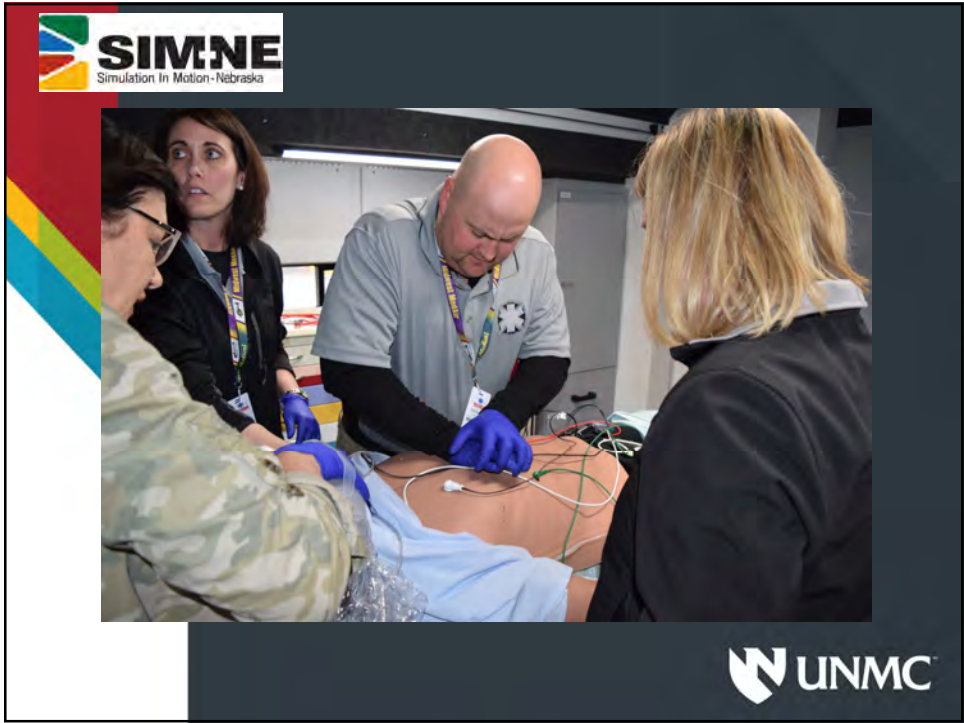
34



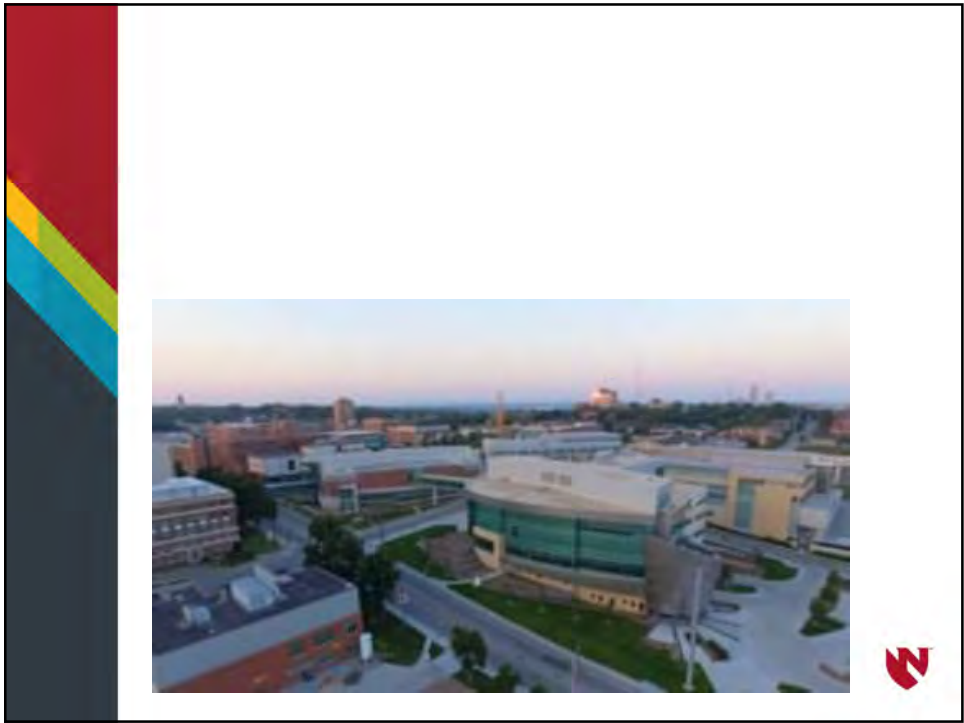
35



36



37



38



Questions

