

CONNECTS: Capacity Optimized Neural Network Extending Clinical, Theory, and Skills



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**WILSON SCHOOL OF
NURSING**

CONNECTS:

DISCLOSURES:

- ☐ No conflict of interest
- ☐ Grant awarded by
Taxes Higher
Education
Coordinating
Board.
- ☐ Awarded \$115,000
to support
construction,
equipment and
materials.

LEARNING OBJECTIVES:

- ☐ Discuss ways to promote
student and program
success.
- ☐ Create innovative ways to
connect theory,
technology and skills with
participants
- ☐ Describe ways to link
content, clinical skills,
clinical reasoning and
student learning
evaluation.

MISSION:

Facilitate learning for multidisciplinary healthcare providers in an innovative environment which stimulates clinical imagination and competence.



J.S. Bridwell Regional Simulation Center

VALUES

- Build strong clinical skills and clinical imagination
- Augment lifelong learning
- Promote safe, compassionate, and quality patient care for the healthcare consumer.

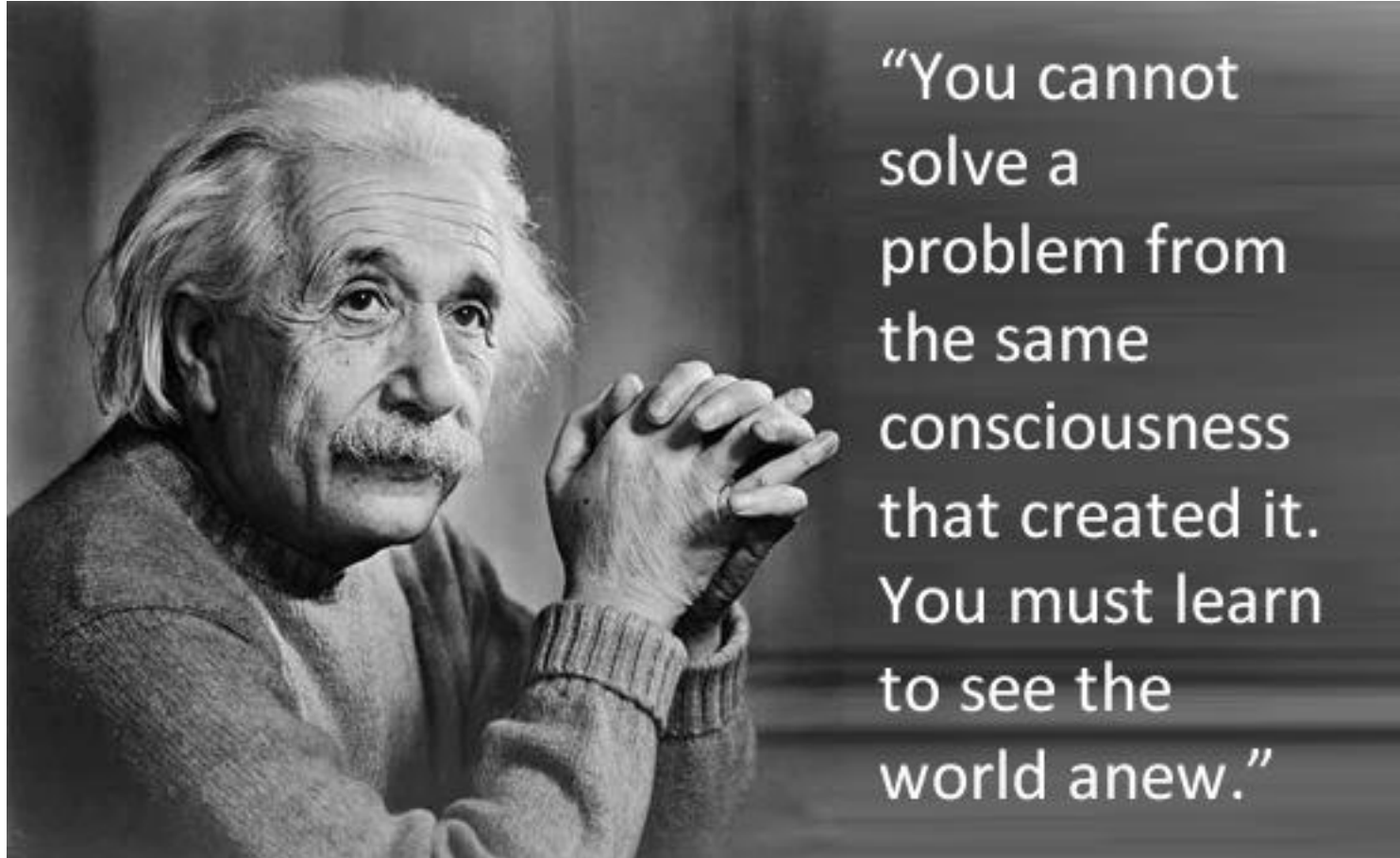


SIMULATION CENTER

- ✧ **History:** J.S. Bridwell Simulation Center is shared by a local community college, local healthcare system and the Wilson School of Nursing.
- ✧ Created by a grant awarded in 2004 by the Texas Higher Education Coordinating Board.
- ✧ BSN prepared educators who are clinically strong to provide competency education and validation.
- ✧ Accepted more students into program. And reduce amount of time faculty spend in validations.
- ✧ This has resulted in faculty who teach theory courses to NOT be trained in creative ways to integrate simulation experiences in courses.

TODAY

- 7 courses totaling 127 hours per student
- Add more hours – increase utilization of center
- Reduce the number of direct patient care experiences
- 1 – Director
- 1 – secretary
- 4 – Full time BSN educators
- 1 – part-time BSN educator
- Director and Full-time educators have MSN



“You cannot solve a problem from the same consciousness that created it. You must learn to see the world anew.”

CONNECTS: BUILDING CAPACITY FOR BUILDING SKILLS

**DR. KATHLEEN M. WILLIAMSON, RN
CHAIR, ASSOCIATE PROFESSOR
CONNECTS PROJECT DIRECTOR**

CAPACITY

- ◆ Optimize space
- ◆ Utilize supportive technology
- ◆ Extend clinical opportunities
- ◆ Link clinical, theory and skills
- ◆ BSN educators



RELIANCE ON SIMULATION CENTER

- ❖ Patient areas shrinking**
- ❖ Increase use of acute care simulations**
- ❖ Scheduling with all partners**
- ❖ Simulation center is at maximum capacity**

UTILIZATION

	2005	2014	
MSU	12,072 hours	21,427 hours	77% increase
All	15,398 hours	24,777 hours	61% increase

Need: Creative way to use space and be innovative in the way simulation is designed and implemented at the simulation center.

Need: Use center to its fullest maximum capacity.

REASON:

- ◆ **Lack of efficient use of current space, access to computers, task trainers, and technology to develop innovative alternative types of simulation experiences.**
- ◆ **Faculty training to develop scenarios/educational lessons in a more strategic way in courses.**
- ◆ **Expand simulation to courses that currently do not use the simulation center.**
- ◆ **Adjust the hours of operation.**
- ◆ **Make more usable square footage available.**



- 1) Reconstruct space to increase capacity and use.**
- 2) Faculty Development in using the newly acquired technology.**
- 3) Reduce the hours in clinical practice**
- 4) Be more efficient and provide a quality experience.**



CONNECTS: SIMULATION AS AN INSTRUMENT

MELODY CHANDLER, MSN, RN

**DIRECTOR, J.S. BRIDWELL
REGIONAL SIMULATION CENTER**

UNIQUE MATRICES

- Diverse level of learners
- Consortium partnership's affect on simulation and creating unique, realistic, evidence based clinical environments
- Sim staff personnel as facilitators



REALISTIC PATIENT CARE ENVIRONMENT



EVIDENCE BASED SIMULATIONS

Linking CLASSROOM to SIMULATION to CLINICAL ENVIRONMENT

- **Realistic patient care simulations are developed based on course specific learning objectives which provides a connection between classroom didactic and scenario objectives**
- **Nursing actions and interventions are governed by current evidence based practice and care guidelines in coordination with consortium partner**
- **BSN educators function as expert nurses to guide simulations**

Learner Confidence

- **Learners allowed time to practice in safe environment**
- **Full time staff allows for intimate learning environment**

LIMITATIONS

- **“Maximum Capacity” versus “Maximize Capacity”**
 - Use of case scenario driven simulation is at capacity
 - Simulation rooms are used throughout the day
 - Task trainer equipment is in use throughout the day
 - Limited availability of electronic healthcare technology at the simulation center
 - BSN educators are scheduled throughout the day



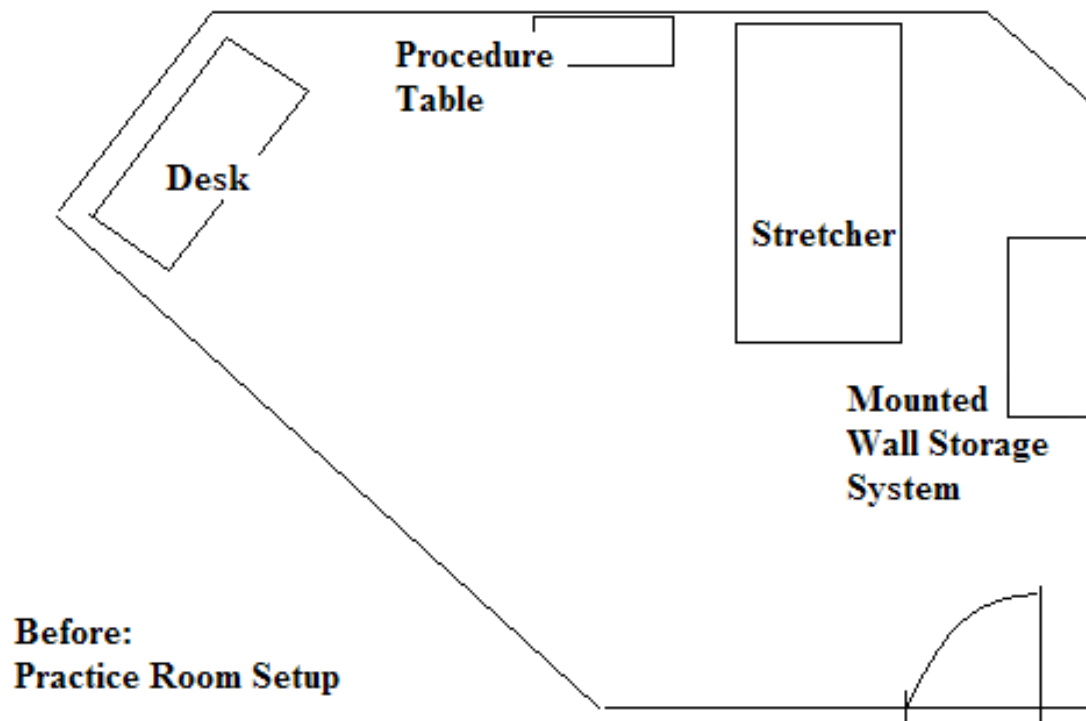
SIMULATION CENTER LOBBY



ACCESS INCREASED



BEFORE



MULTIPURPOSE PRACTICE ROOM



BENEFITS

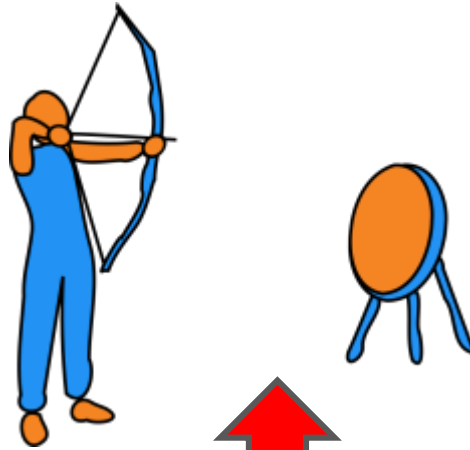
- **Provides increased access while simultaneously partnering learning activities with advanced technologies**
 - Increased faculty participation
 - Increased availability of task trainers for practice
 - Audio visual recording system for self evaluation
 - Electronic medication dispensing system
 - Mobile technology for bedside charting and managing electronic medical record



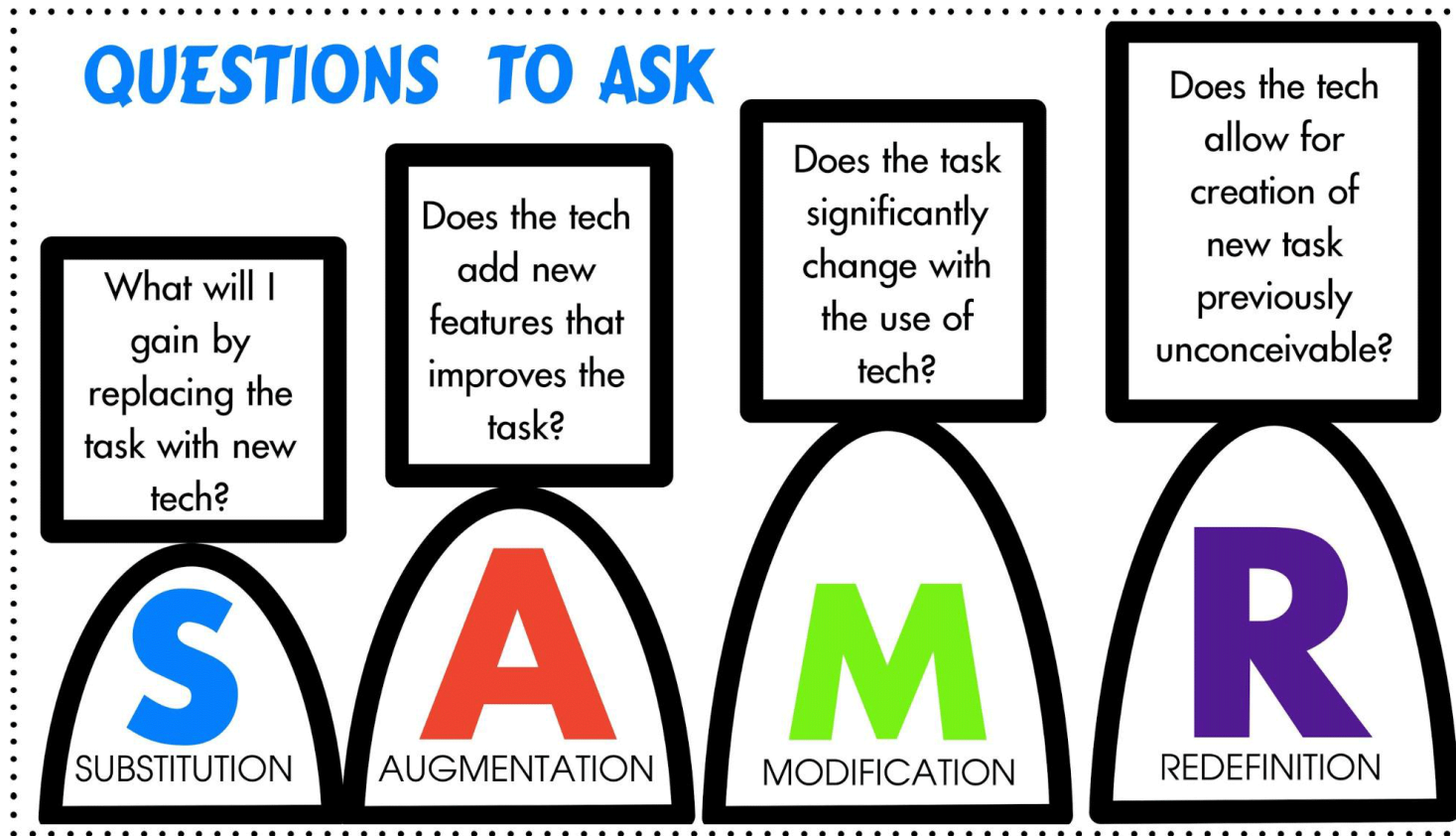
CONNECTS: MAKING THE CONNECTION

**ROBIN LOCKHART, MSN, RN
UNDERGRADUATE PROGRAM
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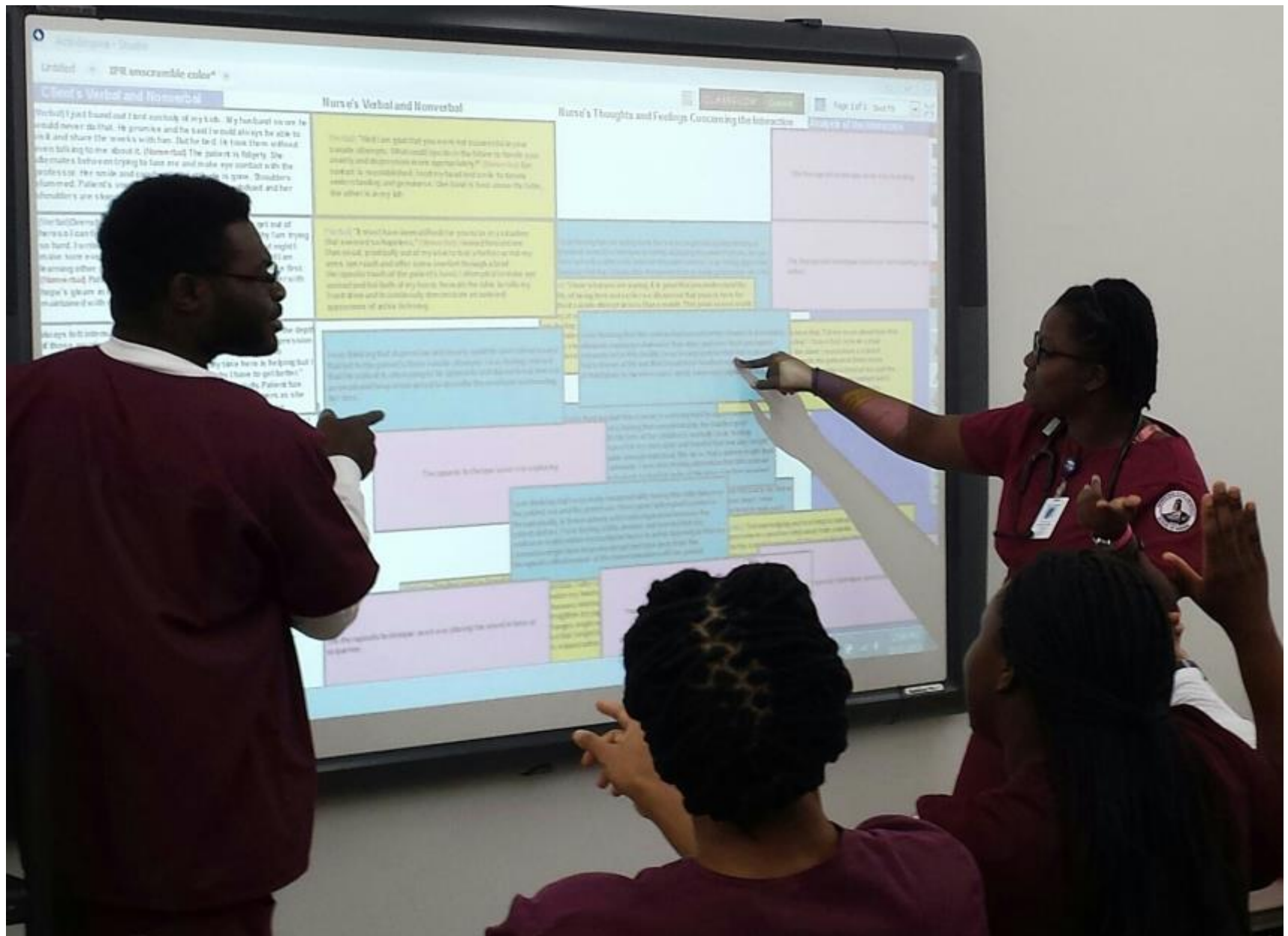
CONNECTS PROCESS




DR. RUBEN PUENTEDURA'S MODEL



Brown, P. (2015, February 6) <https://www.edsurge.com/news/2015-02-06-a-guide-for-bringing-the-samr-model-to-ipads>





There is no continuum for success.
Focus on the progress,
not the results

Nick Saban

Questions/Comments



Thank you!