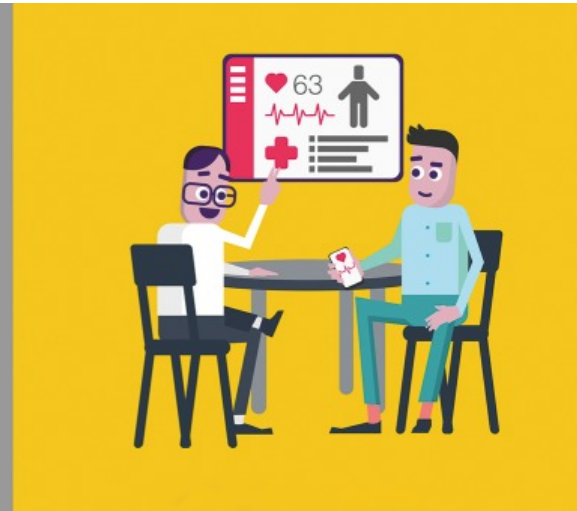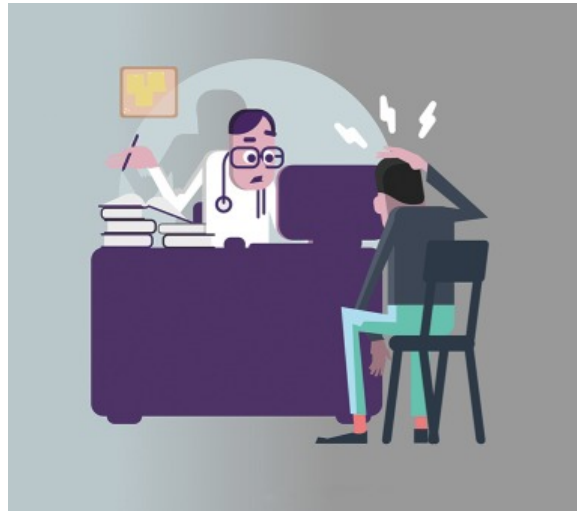# Expectations vs. Reality

J. Perl MS, RN-BC

Digital Literacy

The ability to leverage technology to:

- Create new knowledge to complement critical thinking, complex problem solving, and social intelligence to solve the new challenges in education and practice

The New Status Quo

Traditional Health Care	Modern Health Care
Point-of-care is the clinic or lab	Point-of-care is the patient
Based on populations	Based on the individual
Hierarchy	Partnership
Prescriptions and orders	Collaboration
Data owned by institutions	Data owned and shared by the patient
Individual experience dominates	Limitless data analyses
Physicians as authority	Physicians as guides
Ivory tower	Social media
Expensive	Costs driven down by Moore's law

Two Transformational Trends

Pressure to Deliver high- Value Care

The Dominate Issue Today

Digitalization of the U.S. Healthcare system

Prediction: The Dominate Issue in 2025
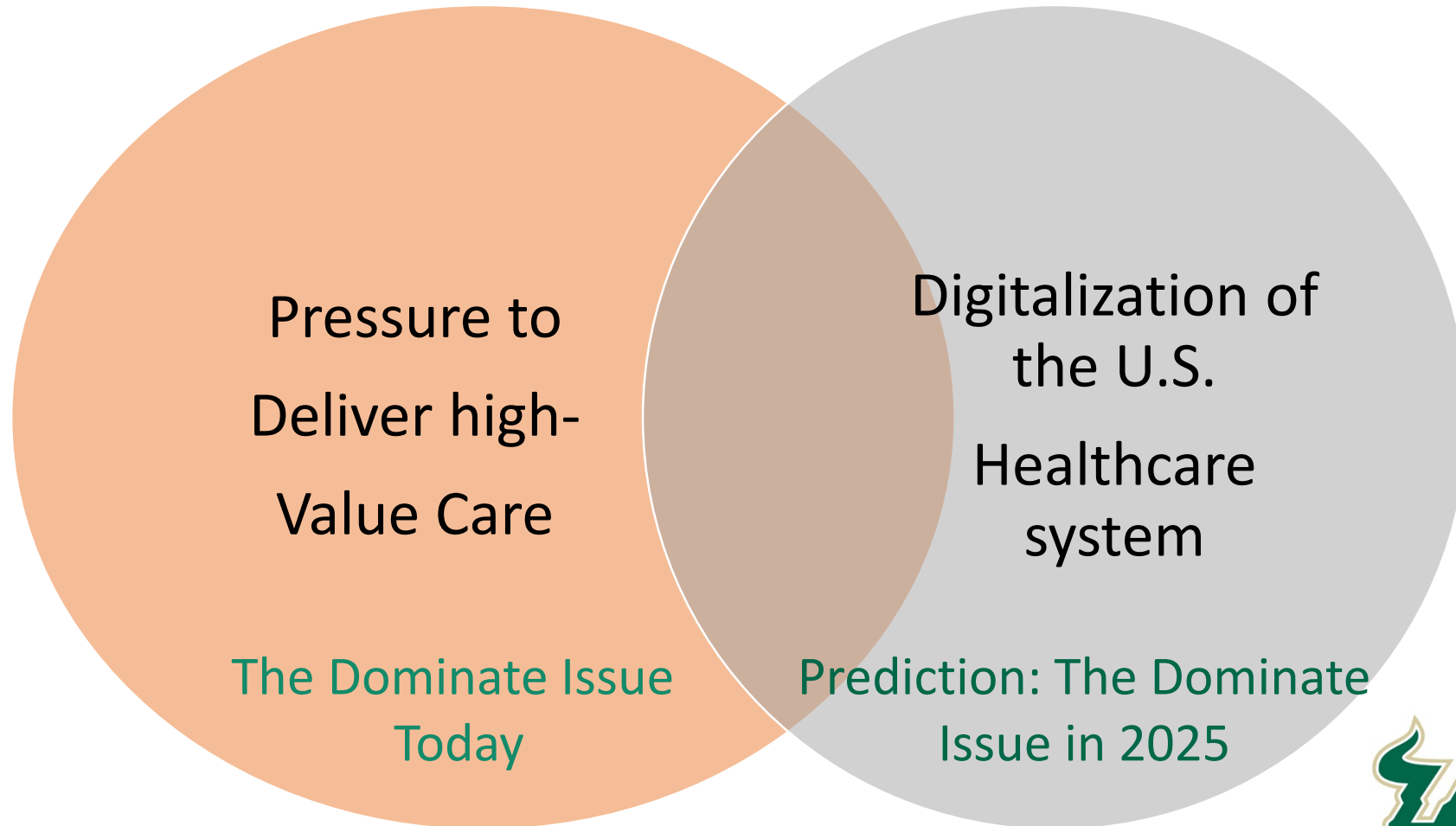
UNIVERSITY OF SOUTH FLORIDA

ITNEP Grant

Integrating Technology into Nursing Education and Practice (ITNEP) Initiative
- 5 year HRSA grant with 1 year extension (2010-2016)

Goal: Increase knowledge of informatics, simulated learning and telehealth by at least 25%

Faculty Knowledge of Digital Health for Education & Practice (ITNEP Grant)

353 Faculty

100% Some Knowledge of Sims & Informatics

75% No Knowledge of Telehealth/mHealth

66% MS-DNP No NI Content

Barriers Lack of resources, resistance to change

2011 to 2016

32 States

UNIVERSITY OF SOUTH FLORIDA

Nursing Informatics (NI) Self-Assessment of BS/MS-DNP Students Informatics Skill-Sets 2016-2019

Nursing Informatics (NI) Self-Assessment of Informatics Skill-Sets for Education & Practice

188
Students Self Assessment of NI Skill-Sets

16%
Novice or Advanced Beginner

61%
BS-DNP No NI Content

66%
MS-DNP No NI Content

1997- 2018
Graduated from BS/MS Program

BS & MS to DNP Program over 6 Semesters Sum 2016-Sum 2019

UNIVERSITY OF SOUTH FLORIDA

Student Goals

- Proficiently use digital health in my advanced practice
- Gain a better understanding of the technology that can advance nursing practice and research
- Use Information and Communication technologies to enter, retrieve and manipulate data
- To become more familiar with social media to generate/develop areas of research
- Learn more about applications that can be useful in daily DNP practice.
- Become proficient with HIT to benefit patient care
- I would like to learn how to collect data and present it professionally
- Become more proficient in using informatics tools to extract, organize, and interpret data
- Recognize patient safety issues with regards to different computer documentation systems.
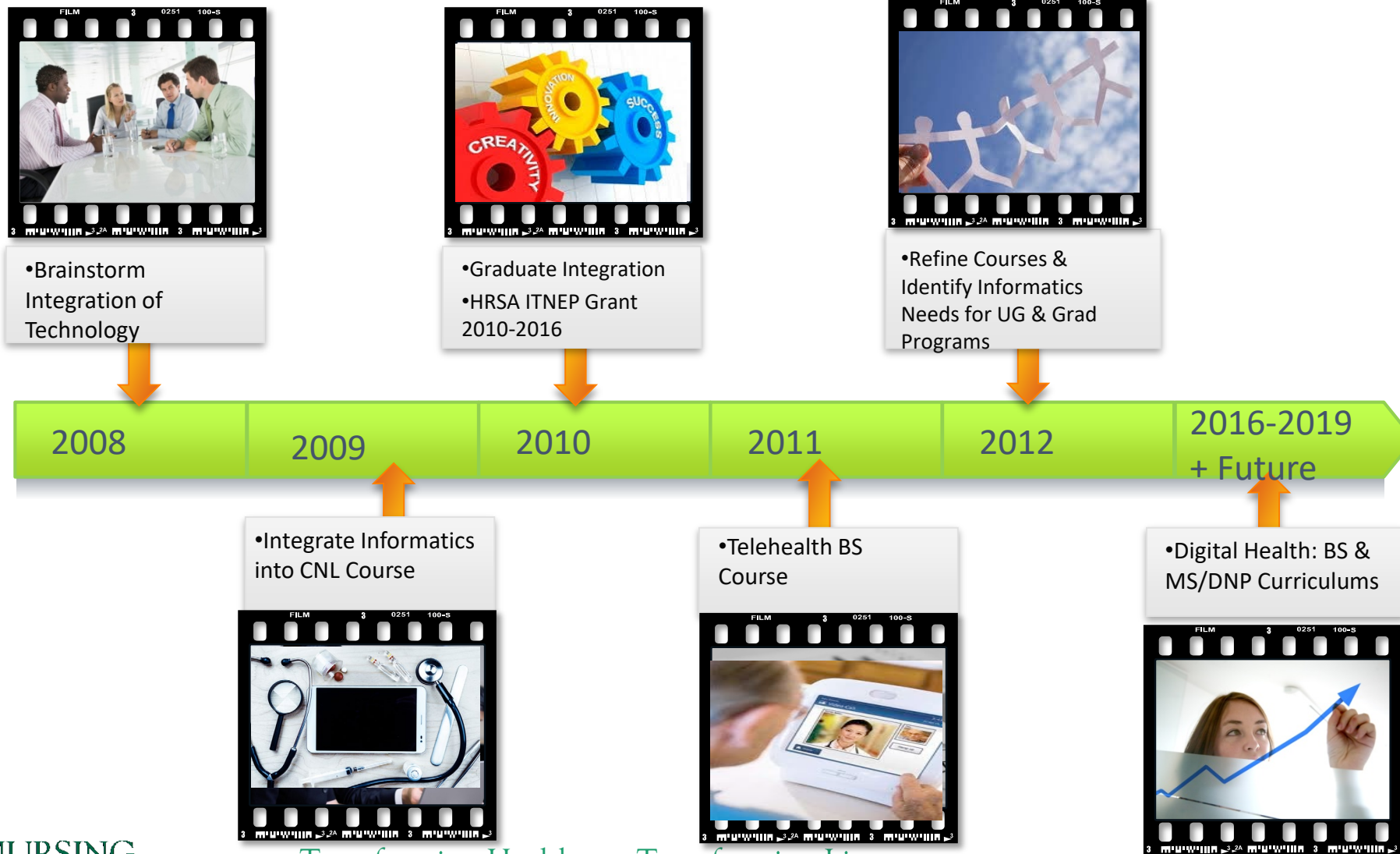
ITNEP Grant-→ New UG & Grad Courses

- Brainstorm Integration of Technology

- Graduate Integration
- HRSA ITNEP Grant 2010-2016

- Refine Courses & Identify Informatics Needs for UG & Grad Programs

| 2008 | 2009 | 2010 | 2011 | 2012 | 2016-2019 + Future |

- Integrate Informatics into CNL Course

- Telehealth BS Course

- Digital Health: BS & MS/DNP Curriculums

COLLEGE OF NURSING
UNIVERSITY OF SOUTH FLORIDA

Transforming Healthcare Transforming Lives

12

USF HEALTH

BS	BS	MS	DNP
<u>Informatics:</u> Use information & technology to communicate, manage knowledge, mitigate error, and support decision making	<u>Essential IV: Information Management and Application of Patient Care technology</u> Knowledge & skills in information management & patient care technology are critical in the delivery of quality patient care	<u>Essential V: Informatics & Healthcare Technologies</u> Recognizes that the master's prepared nurse uses patient care technologies to deliver & enhance care and uses communication technologies to integrate and coordinate care <u>QSEN Informatics</u> Information & technology to communicate, manage knowledge, mitigate error, & support decision making	<u>Essential IV: Information Systems/Technology for the Improvement & Transformation of Health Care</u> DNP graduates are distinguished by their abilities to use information systems/technology to support & improve patient care and healthcare systems, and provide leadership within healthcare systems and/or academic settings

Informatics (Digital Health) Competencies

Need for Expansion of Faculty Competencies

Informatics literacy/Digital Literacy is crucial to the future of nursing.

QSEN Institute (2019a; 2019b) competencies support the progressive achievement of informatics proficiency of KSAs at all levels of nursing education.

AACN Essentials of Baccalaureate (2008), Master's 2011) and Doctoral (2006) Education require knowledge and competencies in informatics and healthcare technologies.

USF HEALTH

Informatics/ Digital Health Content

- BS & RN
  - Public Health Informatics & Information Skills for RNs, Apps for You & Your Patients, Social Media and the RN, Interdisciplinary Digital Health Course, Coordination of Care, Ambulatory Care Track

- Masters
  - Health Policy, Systems, and Technologies for Improving Population Health Course

- DNP
  - Informatics & Patient Care Technologies

➢ Content in Stand Alone Courses & Integrated into Courses

UNIVERSITY OF SOUTH FLORIDA

Next Steps

- Continue to endow students & faculty with the literacies, capacities & resources needed to thrive in a world defined by technology

- Provide contemporary innovative educational opportunities
  - e.g., Ambulatory Care offering Spring 2020 (Includes Digital Health)

- Strategize ways to facilitate & engage faculty & students knowledge and applications of digital health in education and practice

UNIVERSITY OF SOUTH FLORIDA

Thank you!