Updates in Web-based Modeling

David P. Armstrong, PhD Director Health Workforce Technical Assistance Center School of Public Health | University at Albany, SUNY

June 6th 2017

National Forum of State Nursing Workforce Centers 2017 Preconference

Denver, CO



Background

- HRSA has a longstanding commitment to help health workforce researchers, planners and policy makers
 - o Data collection
 - o Research programs
 - Projection models
- In the mid-1990s RWJF began providing seed money for Nursing Workforce Centers
 - Colleagues in Caring: Regional Collaboratives for Nursing Work Force
 - o Collaboratives created systems to collect and analyze data
 - o Grants expired in 2003
- Talk began to intensify on how to help nursing workforce planners...



Goals for Web-based Model

- Previous versions of HRSA's nursing supply and demand model have been made available to researchers (FORTRAN and FileMaker Pro)
- Goals for Web-based Model
 - o Allow states to use their own data
 - Allow states to update their projections more frequently
 - o Allow states to perform sub-state analyses



Overview of Web-based Model

- Focuses on supply
- Allows users to upload their own supply data
- Allows users to create their own scenarios using a variety of levers
 - Entry of BSNs, ADNs, and LPNs
 - o Retirement age
 - o Hours worked

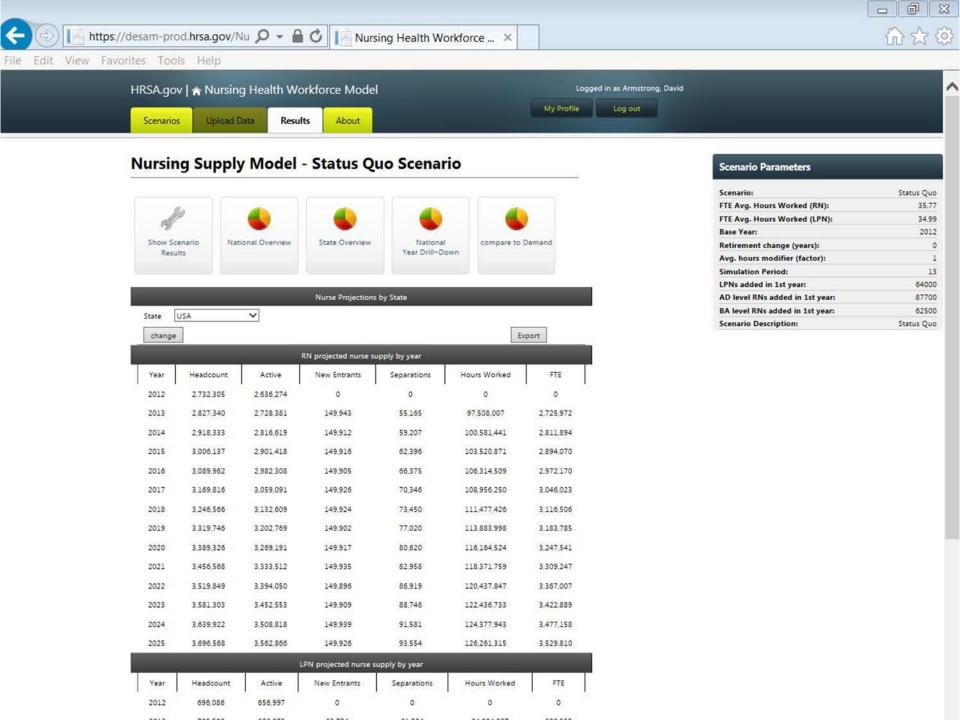


User Scenario Screen Shot

User scenario			
Name	Status Quo	Description	Status Quo
Hours per FTE (RN)	35.77	Hours per FTE (LPN)	34.99
Simulation Period (Years)	13		
Chg In Retirement Age	0	Avg. Hours Modifier In %	0
Add LPNs Per Year	64000	Yearly % Change	0
Add AD Level RNs Per Year	87700	Yearly % Change	0
Add BA Level RNs Per Year	62500	Yearly % Change	0

Run Scenario





Next Steps...

- New version of the model in development
- Beta test of Version 2 (imminent)
- Anticipated October 1st launch date



Version 2 of Web-based Model

- More stable application
- Improved processing time
- More secure registration and log-in process
- Emphasis on supply model
- Enhanced user interface
 - o Simpler design
 - o Better organized model options
 - New about model screen
 - o Announcement and updates screen



Feedback

- You get better results when you use your own data...
- More later...





David P. Armstrong, PhD Email: <u>dparmstrong@albany.edu</u> Phone: (518) 402-0250



http://www.healthworkforceta.org/