

# Supply & Demand of RNs in the LA-Orange-Ventura region

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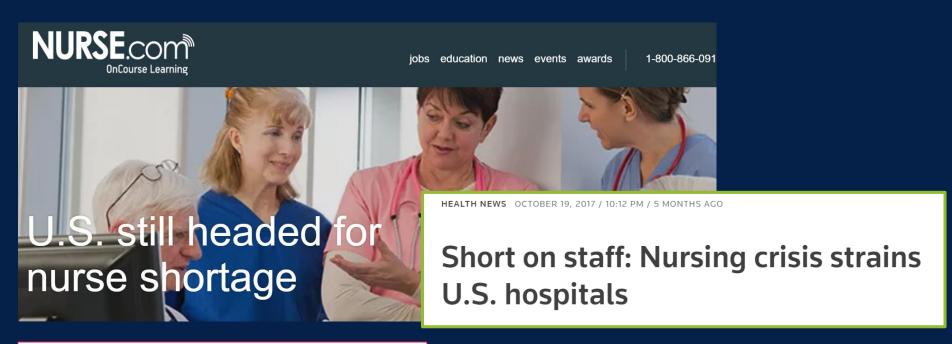
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### Tales of a nursing shortage...



#### The U.S. Is Running Out of Nurses

The country has experienced nursing shortages for decades, but an

aging population means the problem is about to

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COLUMNISTS 77,973 SHARES







#### Is US headed for worst nursing shortage?

#### Forecasting future RN supply & demand

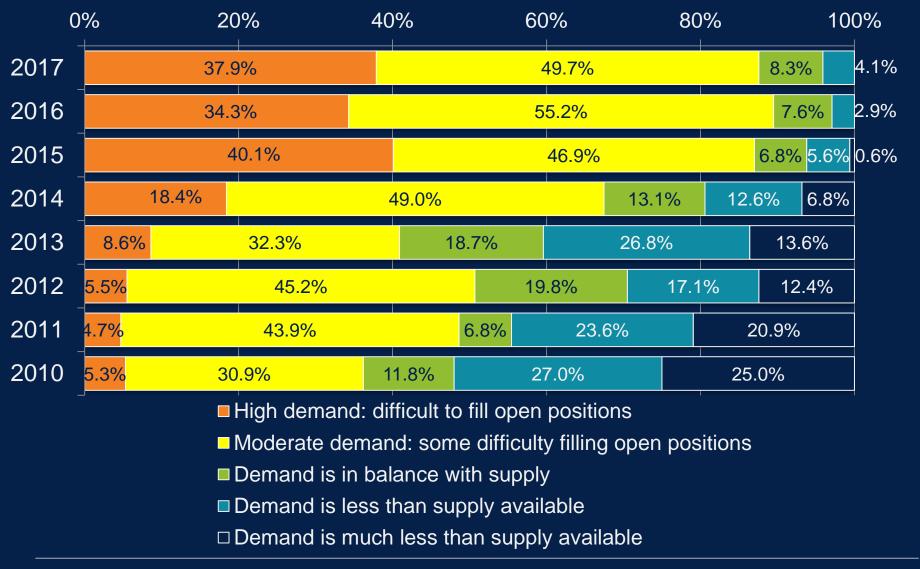
- National forecasts: market is balanced
  - National Center for Health Workforce Analysis, 2017
    - National surplus of 293,800 RNs by 2030 (8.2%)
    - Assumes supply = demand in 2014
  - Auerbach et al. 2015 128,000 RN shortage by 2025 (4%)

#### California

- NCHWA 2017 44,500 short (11.5%)
- Auerbach et al. 2017 only 0.7% per capita supply growth in Pacific region
- Spetz 2017 no shortage overall, but skills & regional imbalance

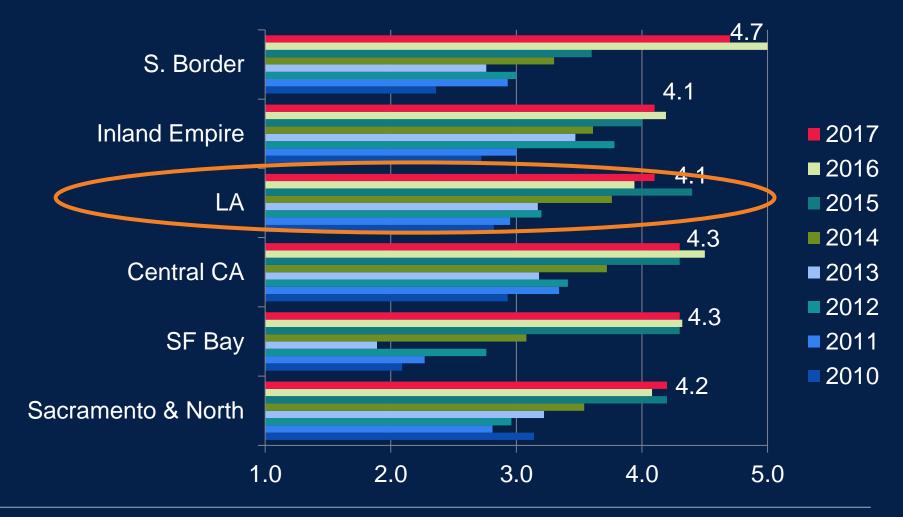


#### Perceptions of employers: Overall labor market





#### Differences across regions: Overall RN labor market





### Differences across regions: Experienced RNs



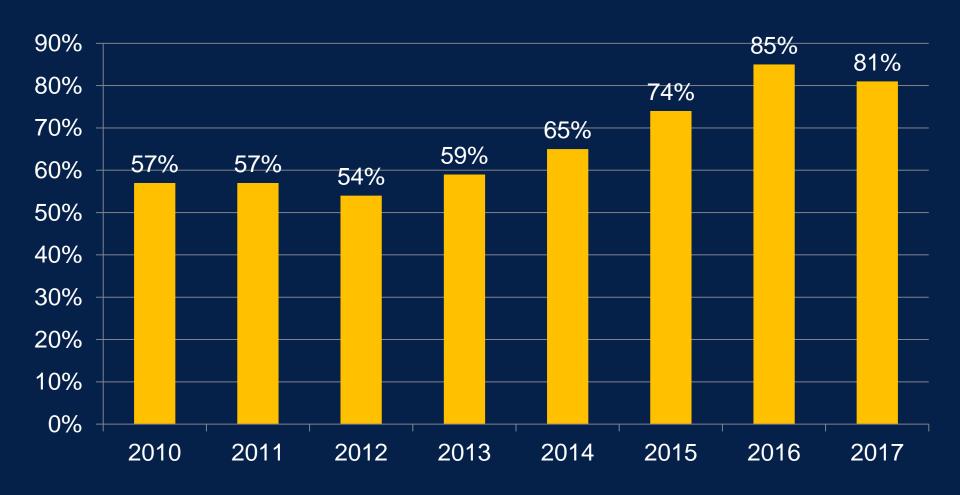


### Differences across regions: New Grad RNs



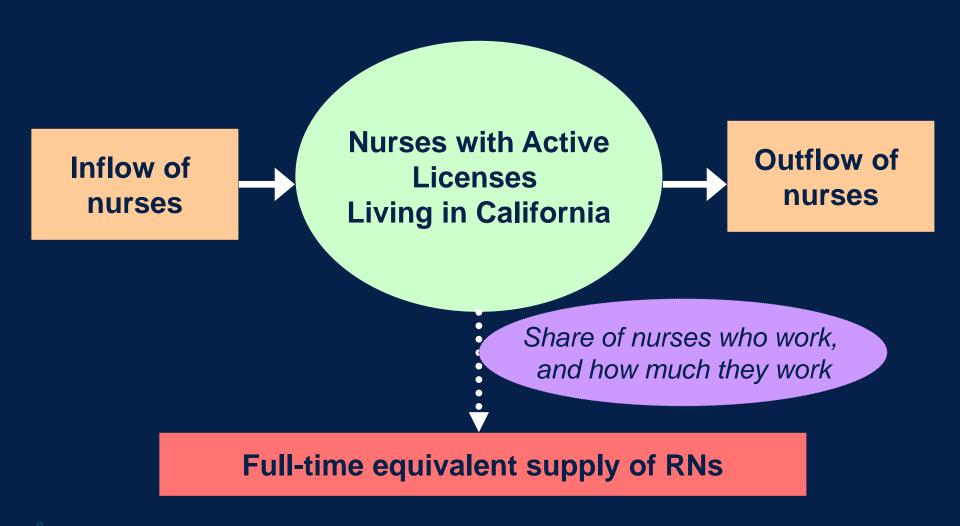


#### New Graduate Employment





#### A model of the supply of RNs



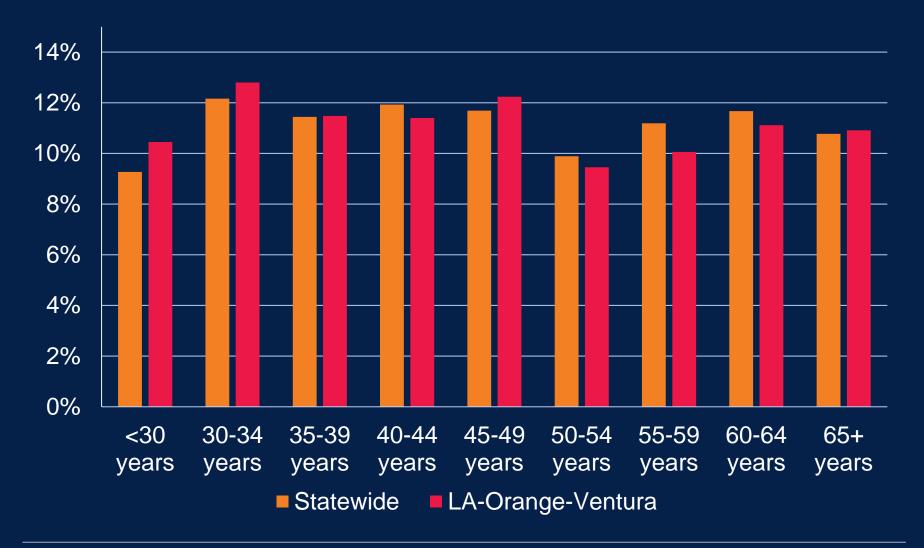


#### Forecasting demand is harder

- Number of nurses per capita
  - What is the target?
    - National average?
    - Some arbitrary benchmark?
    - Estimates of how many providers are needed to provide XYZ?
- Demand-based models can be based on economic demand models
  - Easier said than done....



### Age distribution of licensed RNs





### RN graduations per year



#### These numbers do not include satellite campuses



## Statewide graduations are expected to hold steady

	New enrollment	Projected enrollment from 1 yr	Projected enrollment from 2 yrs	Graduations
2014-2015	13,318	12,162	13,347	11,119
2015-2016	13,152	13,110	12,177	11,191
2016-2017		13,862	13,236	10,761
2017-2018			14,219	10,627
2018-2019				11,200
2019-2020				11,489

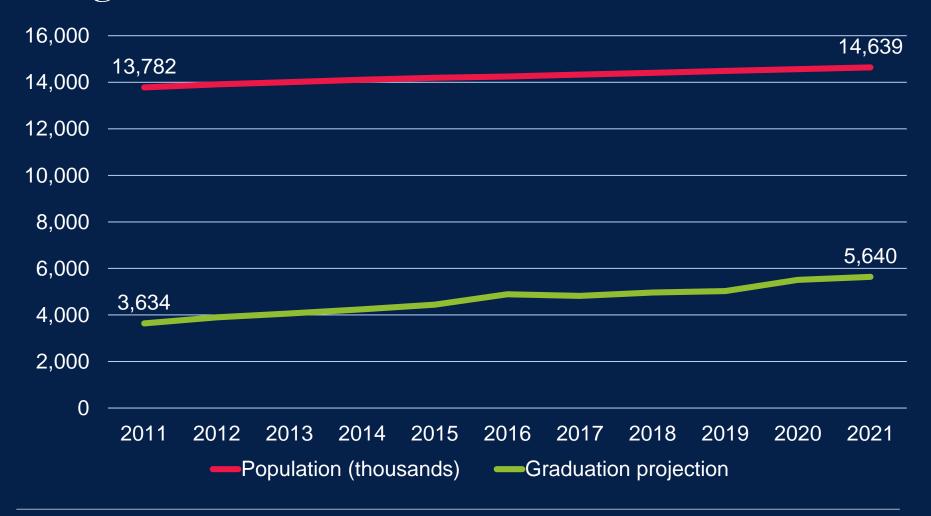


## LA-Orange-Ventura graduations are projected to continue to grow

	New enrollment	Projected enrollment from 1 yr	Projected enrollment from 2 yrs	Graduations
2015-2016	5,966	5,561	4,483	4,886
2016-2017	6,040	5,837	5,590	4,821
2017-2018		6,619	6,101	4,963
2018-2019			6,780	5,024
2019-2020				5,506
2020-2021				5,640

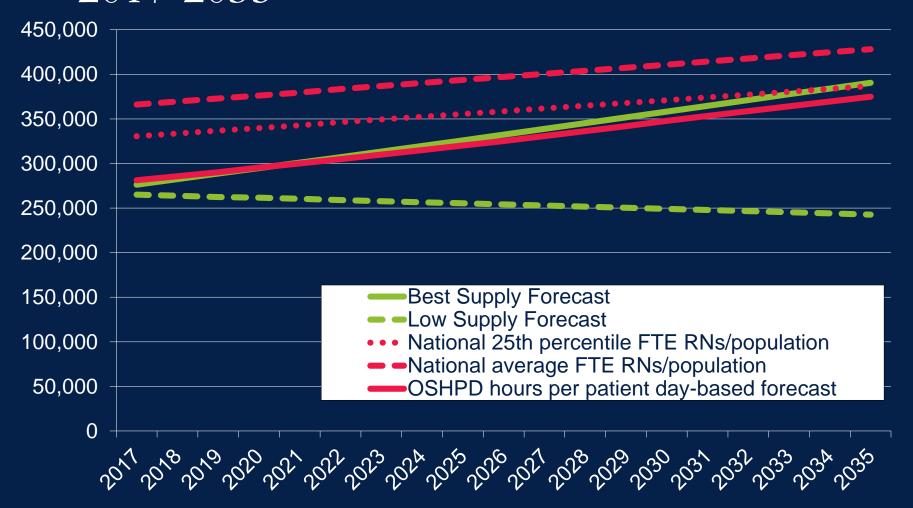


## What is projected population growth in the region?



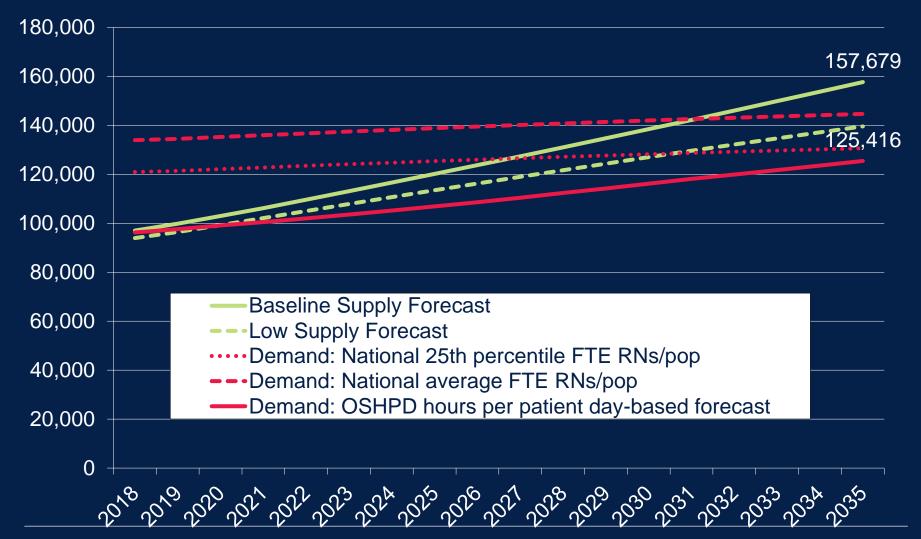


### California RN supply and demand forecasts, 2017-2035





#### Regional differences are important Supply & demand forecasts for LA region





#### Inflows and outflows for the LA region

- Inflows = 6,438 now 7,257 by 2021
  - Graduations: 4,821 in 2016-17 5,640 in 2020-21
  - Migration into the region: 896 per year 2016-2018
  - Endorsements from other states: 721 in 2017

- Outflows = 5,334 now
  - Migration out of the region/state: 2,101 per year 2016-2018
  - Lapsed licenses: 3,233 per year 2016-2018
- Conclusion: Inflows exceed outflows >2000 in a few years
  - Even with low growth the region will overshoot demand



#### Impact of oversupply

- Unemployed new graduates
- Greater competition for clinical space than needed
- Will these new RNs move to other regions or states?
  - >50% of recent RN grads work within 40 miles of high school
  - This can be an opportunity to address shortages in other regions



#### How do we address the challenge?

LA-Orange-Ventura region faces a surplus

Projected new graduate growth is much higher than needed

Competition for clinical space

Need to encourage graduates to move elsewhere

