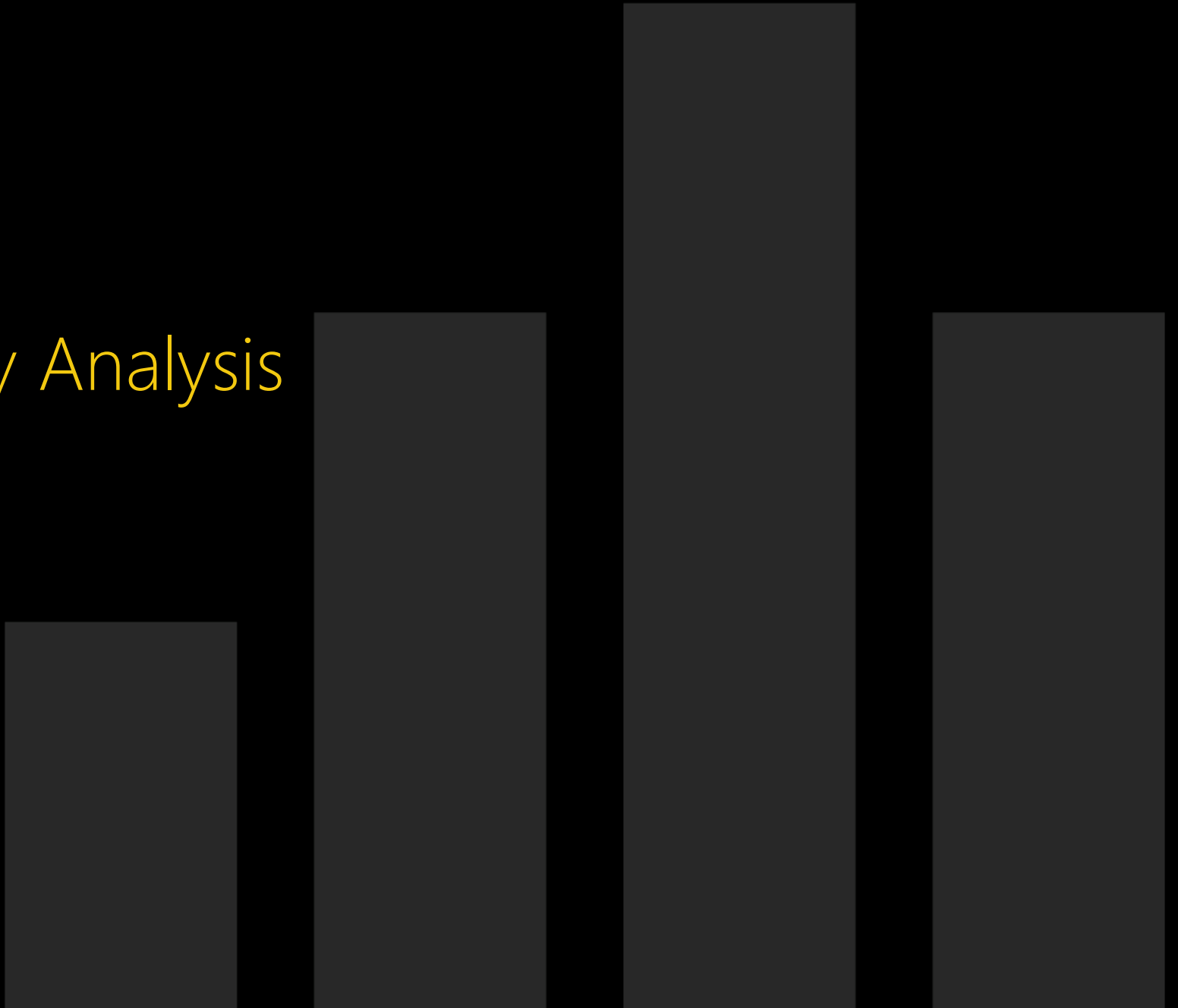


# Hospital Capacity Analysis For COVID 19

[View in Power BI](#) ↗

**Last data refresh:**  
5/6/2020 9:53:49 PM Eastern Standard  
Time  
**Downloaded at:**  
5/6/2020 10:01:03 PM Eastern  
Standard Time



# Project and Data Description

- This project aims to analyze hospital capacity in united states when the coronavirus patients reach 20% of the population by state.
- Health Systems Researchers at Harvard Global Health Institute (<http://globalhealth.harvard.edu/>) have built a model on bed capacity and offers localized estimate of beds that would be needed in the coming months

The model assesses hospital capacity over six, twelve, and eighteen months, if 20%, 40%, or 60% of the population contracts COVID-19.

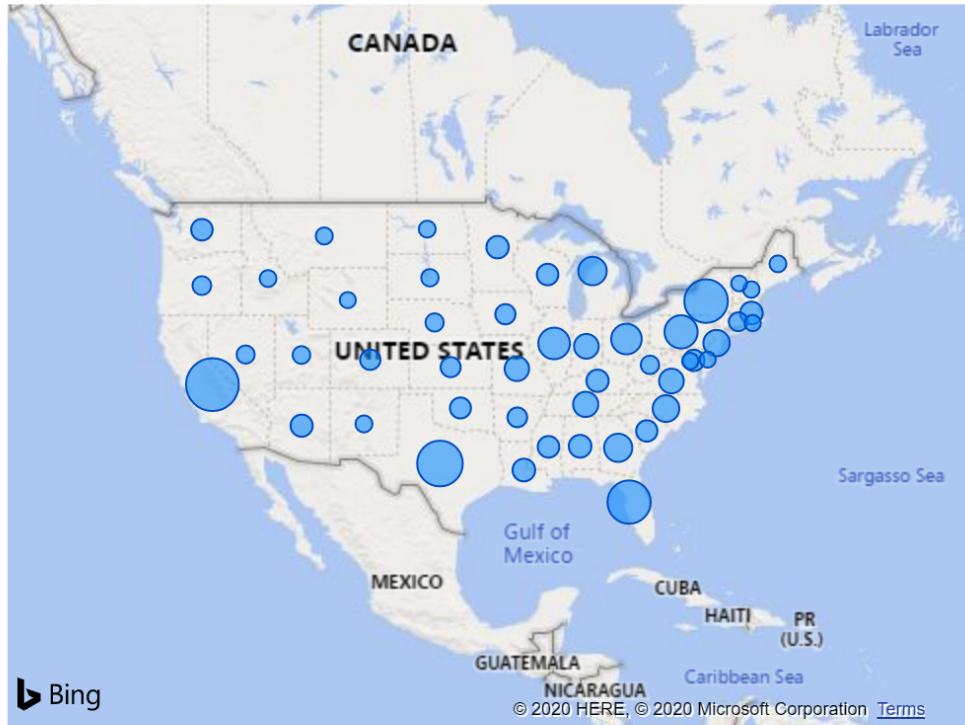
For more information on methodology and how rates are calculated, see: <https://globalepidemics.org/our-data-guide/>

## Breakdown of Visuals

- Story 1 : Shows Hospital Beds with respect to Available adult and 65+ population
- Story 2: Hospital Bed Capacity Analysis when 20 percent of the population, which seems plausible in the near future get affected.
- Story 3: Hospital and ICU Availability Analysis under high impacted states from Story 2.
- Story 4 : Hospital Search in Each State to manage availability

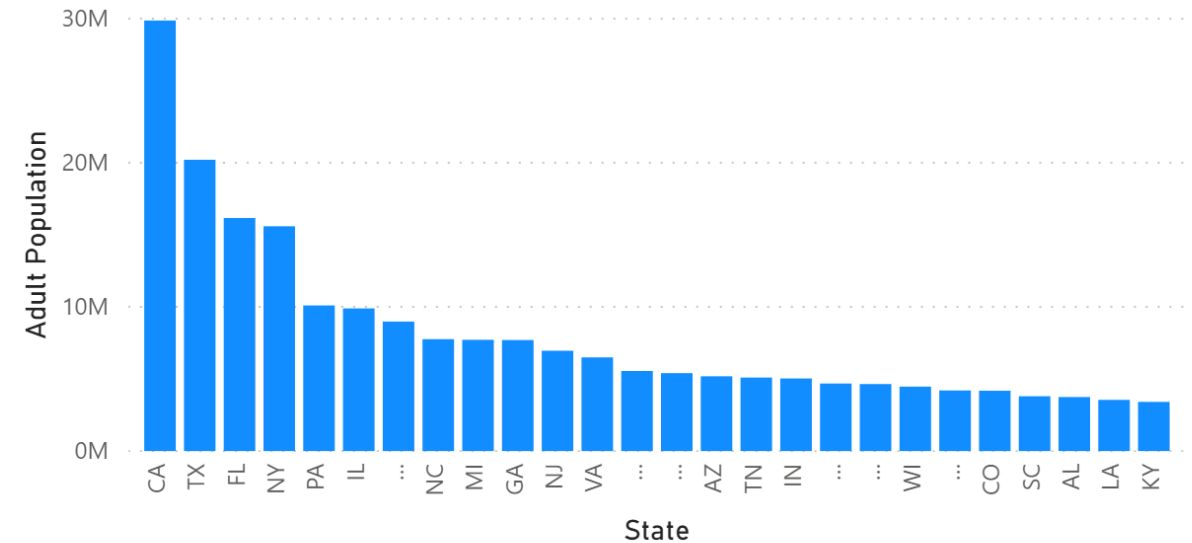
# Hospital Beds and Population by State

Total Hospital Beds by State

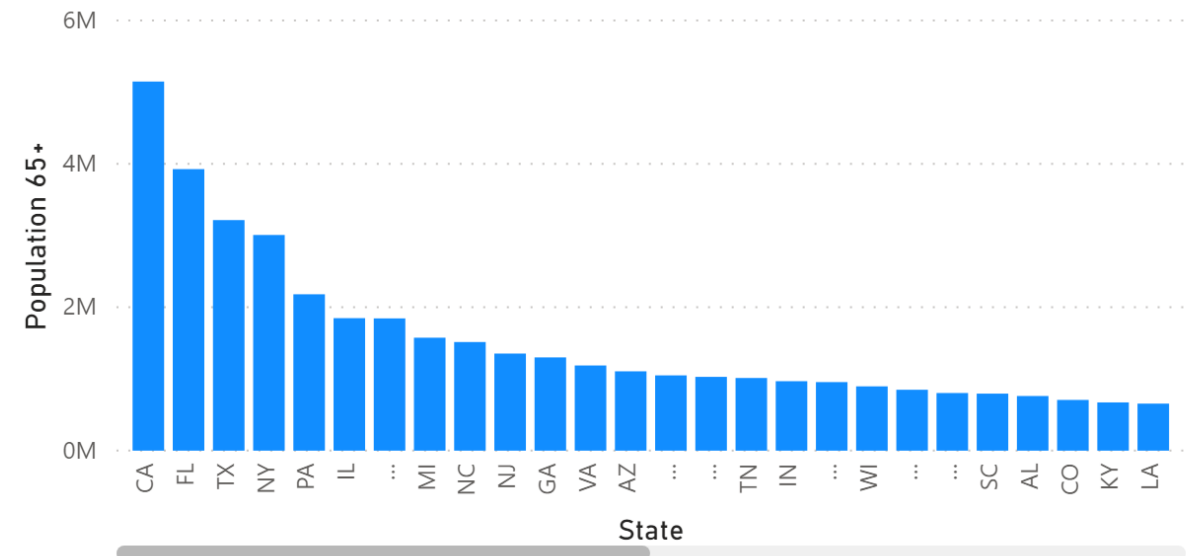


State	Total Hospital Beds
CA	68554
TX	55588
NY	51713
FL	51190
PA	32817
IL	30006
<b>Total</b>	<b>746170</b>

Adult Population by State

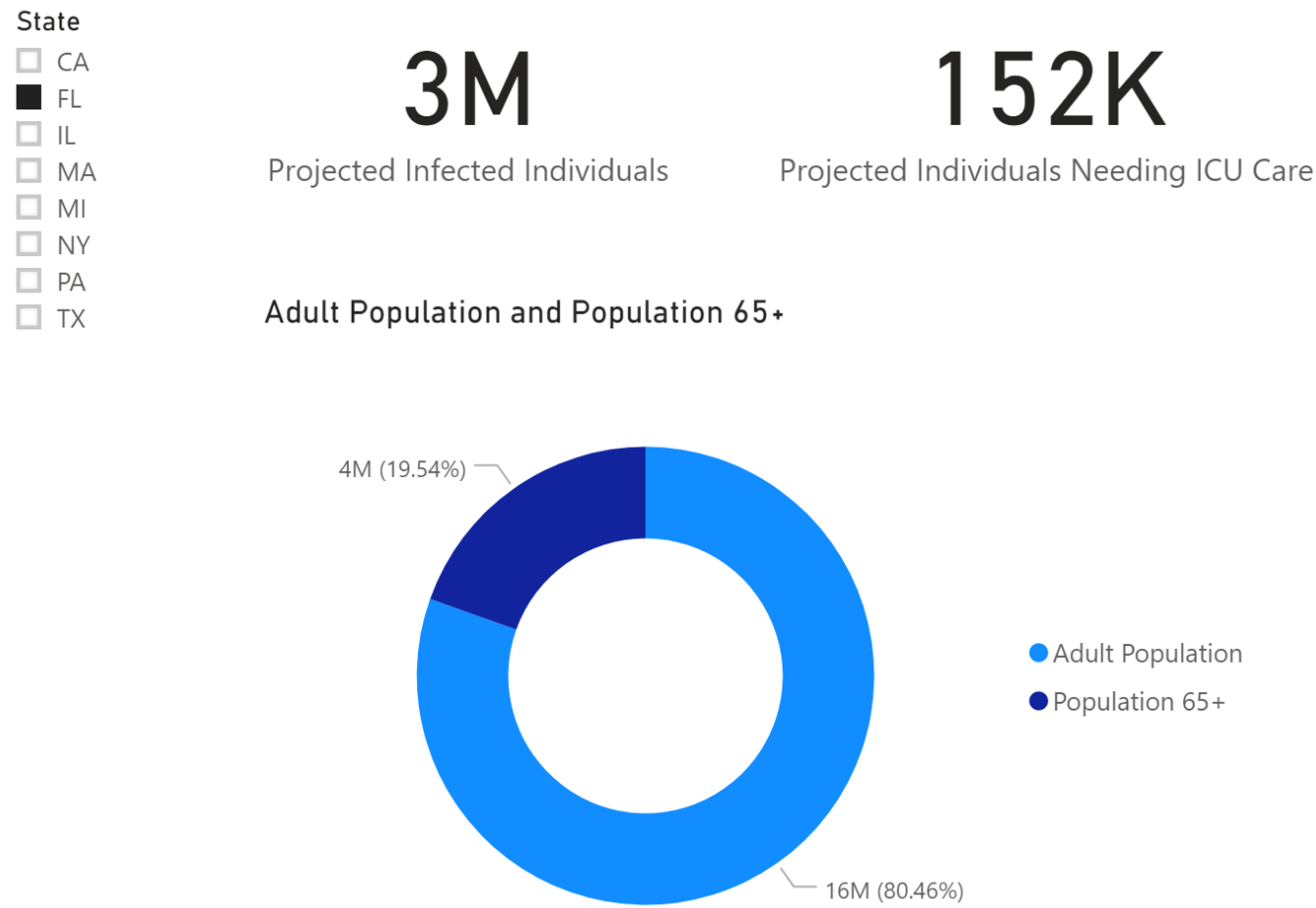


Population 65+ by State



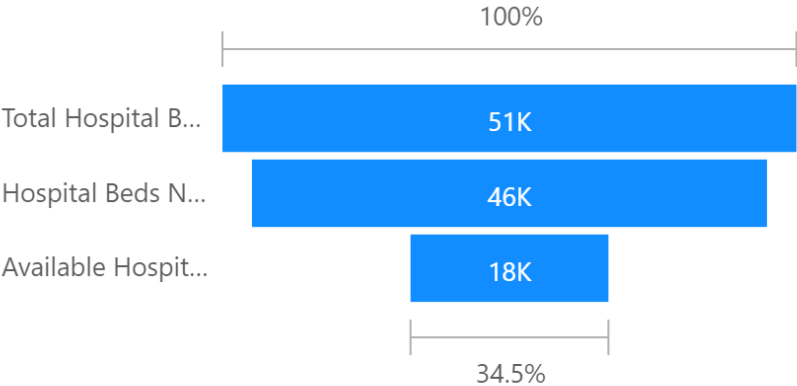
We can see the direct correlation of hospital beds by the population

# Hospital Bed Analysis when 20% of the Population are infected by covid 19 by state

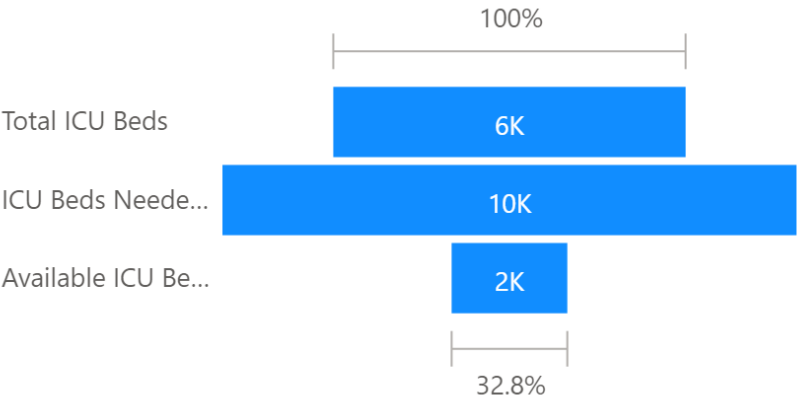


## Hospital and ICU Beds Needed in 6 Months

Total Hospital Beds, Hospital Beds Needed, Six Months and Available Hospital Beds



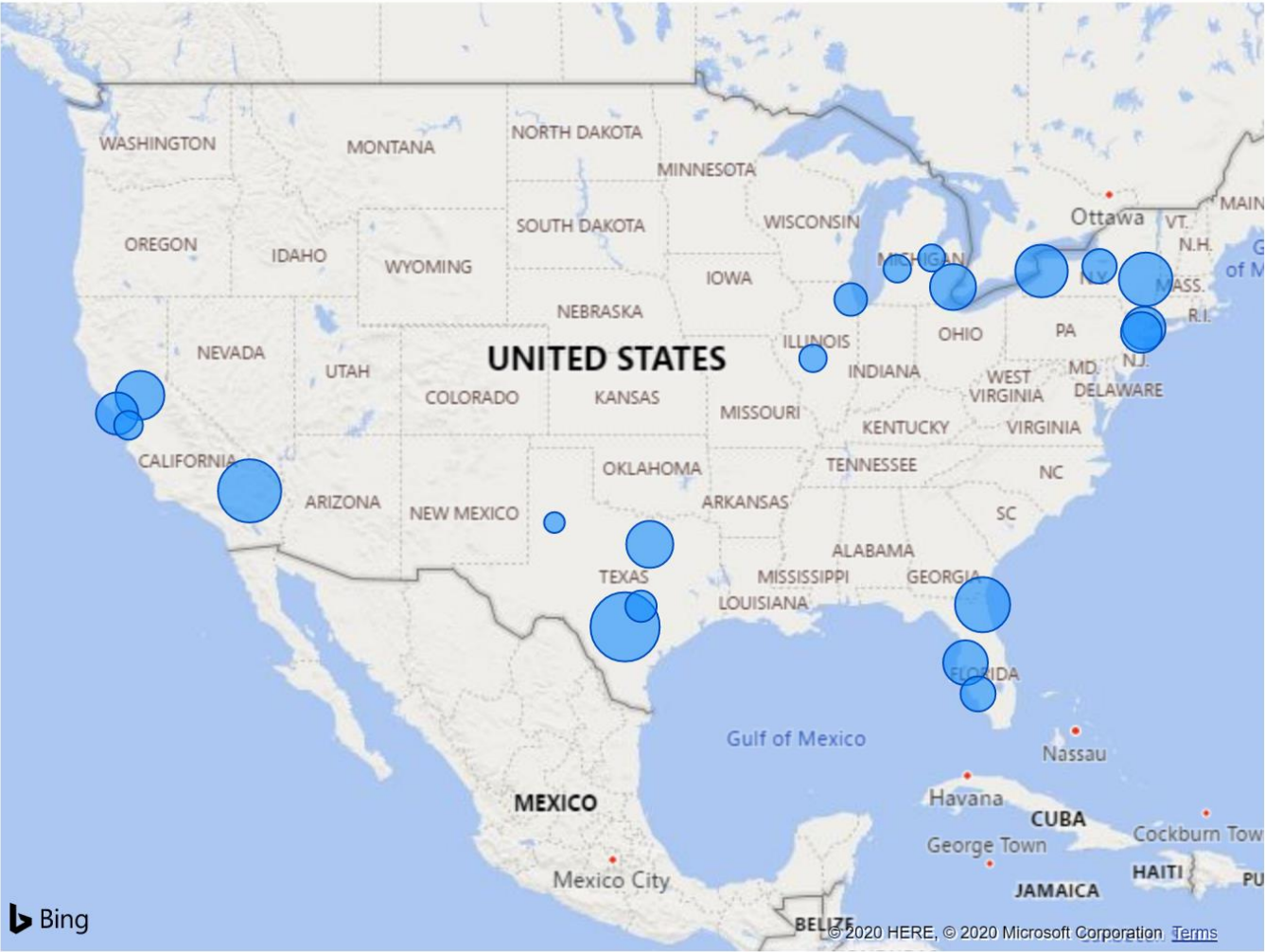
Total ICU Beds, ICU Beds Needed, Six Months and Available ICU Beds



A much larger 65+ population should create an urgency for more ICU beds in a state

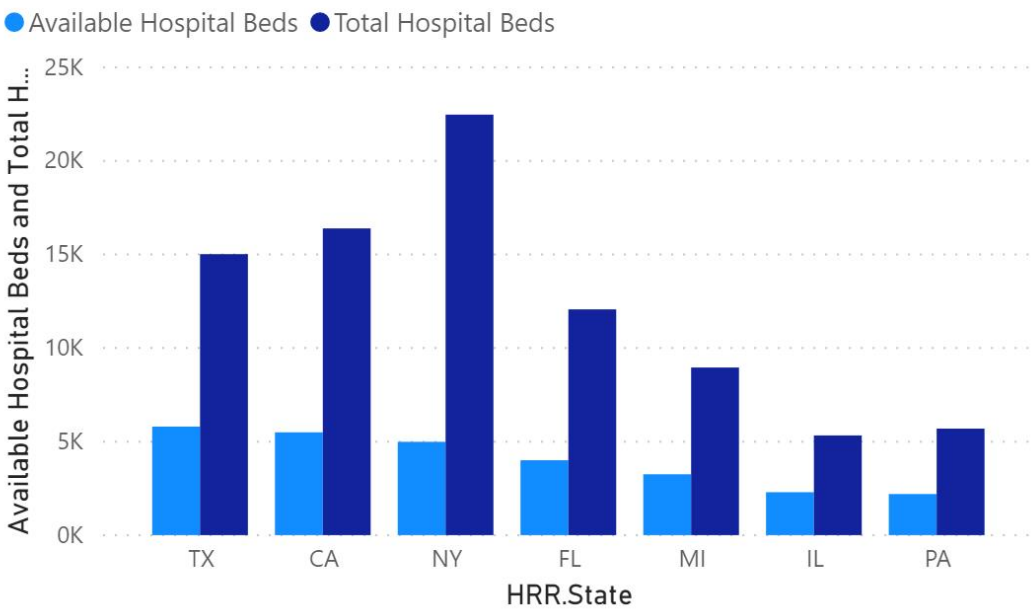
# Hospital Availability Analysis in cities under high impacted states

Total Hospital Beds by HRR.1 and HRR.State



Map Showing **Total** Hospital beds by city in states

Available Hospital Beds and Total Hospital Beds by HRR.State



Total vs Available hospitals in high impacted states



Slider for **available** beds that determines location in map and location in map shows total beds

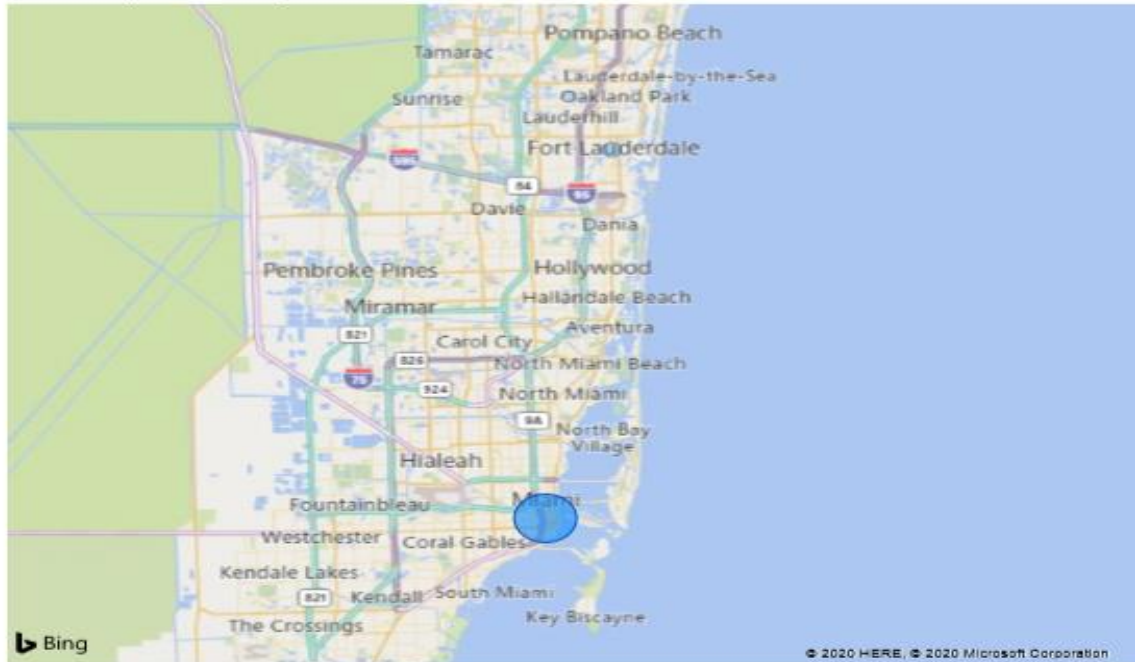


Slider for **available ICU BEDS** that determines location in map and location in map shows total beds

# A Story and inference

## Hospital Availability Analysis in cities under high impacted states

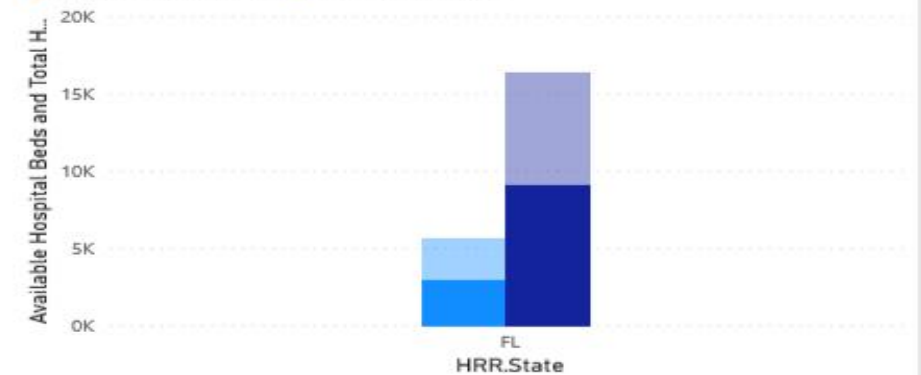
Total Hospital Beds by HRR.1 and HRR.State



Map Showing **Total** Hospital beds by city in states

Available Hospital Beds and Total Hospital Beds by HRR.State

Available Hospital Beds Total Hospital Beds



Total vs Available hospitals in high impacted states



Slider for **available** beds that determines location in map and location in map shows total beds

Available ICU Beds



Slider for **available ICU** BEDS that determines location in map and location in map shows total beds



# Insights

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As we have seen, Florida has highest number of Adult to 65+ ratio

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For this much larger population of 65+, there are very meager number of ICU's

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In the above visual we can see that Miami has a highest number of beds in florida and at the the same time lowest number of ICU's

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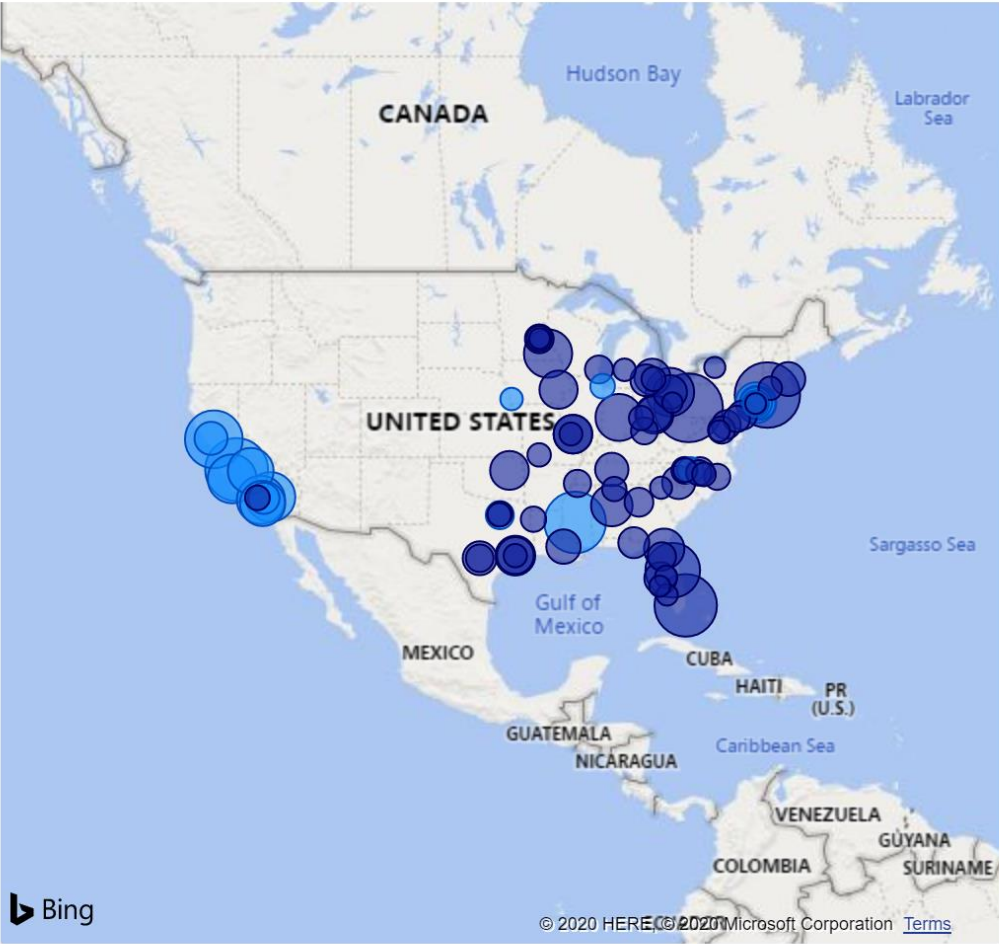
Next slide shows story on top of it to explore each hospitals in a state and then to continue to the story



# Hospital Search in Each State to manage availability

BEDS, POPULATION, First OWNER, First NAME and First WEBSITE  
by HELIPAD, LATITUDE and LONGITUDE

HELIPAD ● N ● Y



## STATE

- ☐ AL
- ☐ CA
- ☐ CT
- ☐ DC
- ☐ DE
- ☐ FL
- ☐ GA
- ☐ IA
- ☐ IL
- ☐ IN
- ☐ LA
- ☐ MA
- ☐ MD
- ☐ MI
- ☐ MN
- ☐ MO
- ☐ MS
- ☐ NC
- ☐ NY
- ☐ OH
- ☐ OK
- ☐ PA
- ☐ SC
- ☐ TX

## BEDS

## CITY

- ☐ ANN ARBOR
- ☐ ATASCADERO
- ☐ ATLANTA
- ☐ BALTIMORE
- ☐ BATON ROUGE
- ☐ BIRMINGHAM
- ☐ BOSTON
- ☐ CANTON
- ☐ CHAPEL HILL
- ☐ CHARLOTTE
- ☐ CHATTAHOOCHEE
- ☐ CHICAGO
- ☐ CLEVELAND

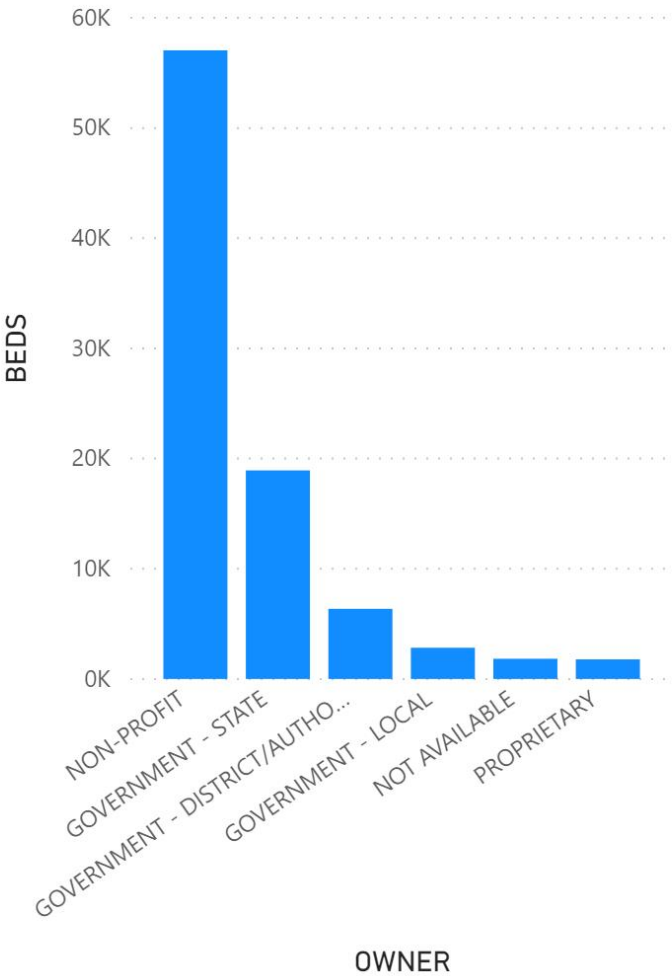
## COUNTY

All

▼

Selected Filters can show hospital ownership in that state,city or county

## BEDS by OWNER

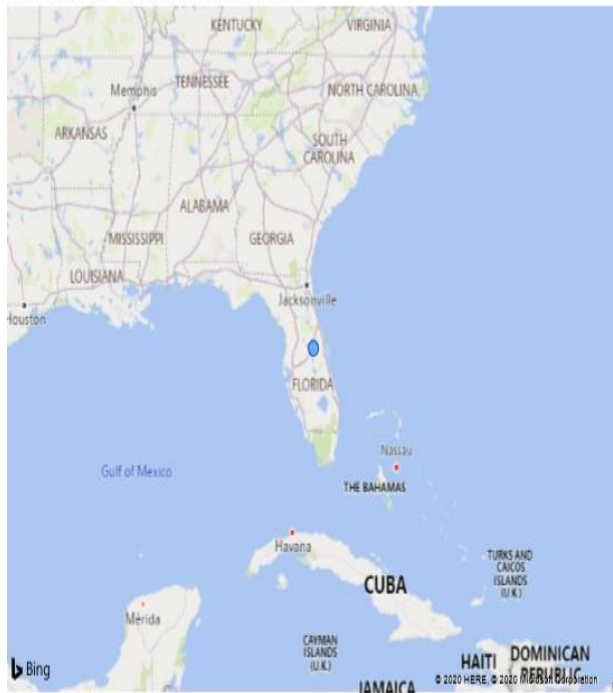


The Map contains the details of hospitals in selected state, city or county along with helipad information to transfer urgent care patients  
**The Map can be used to have a detailed information from previous report or can be used for general information**

# A story and inference... Contd..

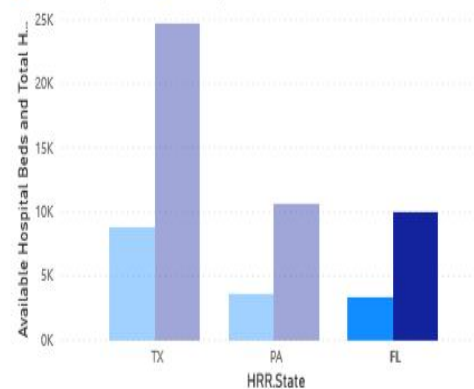
## Hospital Availability Analysis in cities under high impacted states

Total Hospital Beds by HRR.1 and HRR.State

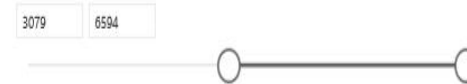


Map Showing **Total** Hospital beds by city in states

Available Hospital Beds Total Hospital Beds



Total vs Available hospitals in high impacted states



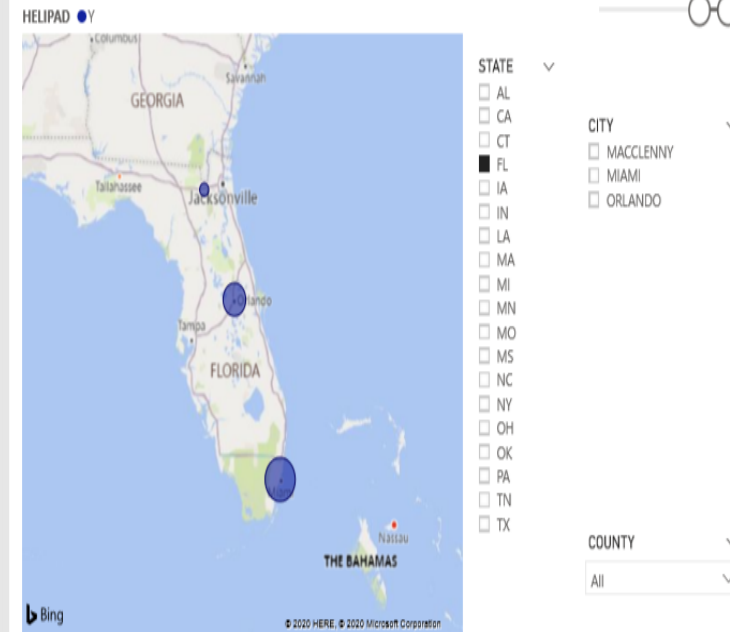
Slider for **available** beds that determines location in map and location in map shows total beds



Slider for **available ICU** BEDS that determines location in map and location in map shows total beds

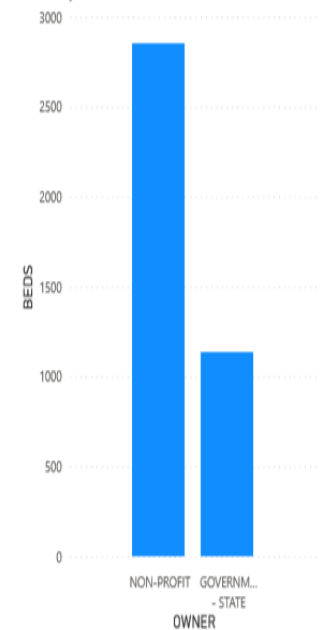
## Hospital Search in Each State to manage availability

BEDS, POPULATION, First OWNER, First NAME and First WEBSITE by HELIPAD, LATITUDE and LONGITUDE



Selected Filters can show hospital ownership in that state,city or county

BEDS by OWNER



The Map contains the details of hospitals in selected state, city or county along with helipad information to transfer urgent care patients  
**The Map can be used to have a detailed information from previous report or can be used for general information**

# Conclusion

- As it can be seen, Orlando has high number of ICU beds including total beds.
- On Situation getting worse, People needing ICU Care can be taken to Orlando's hospital from Jackson's memorial Hospital in Miami via the air route as both hospitals have helipads.
- The above visuals can be used for analysis of other states or general purpose information. Moreover, other types of analysis can be done.