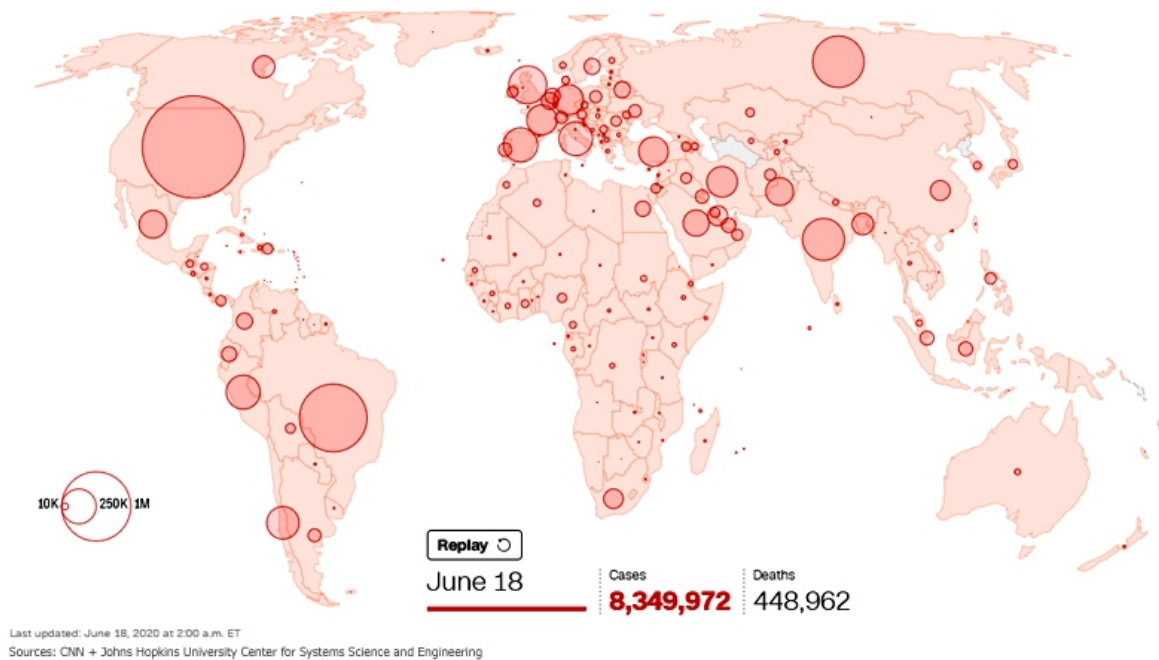


A Data-Driven Approach Can Help Save More Lives

- I. Intro
- II. COVID-19 Current Situation
- III. Healthcare Situation
- IV. How Starschema Helps
- V. Call to Action
- VI. Social Media Notes



I. Intro

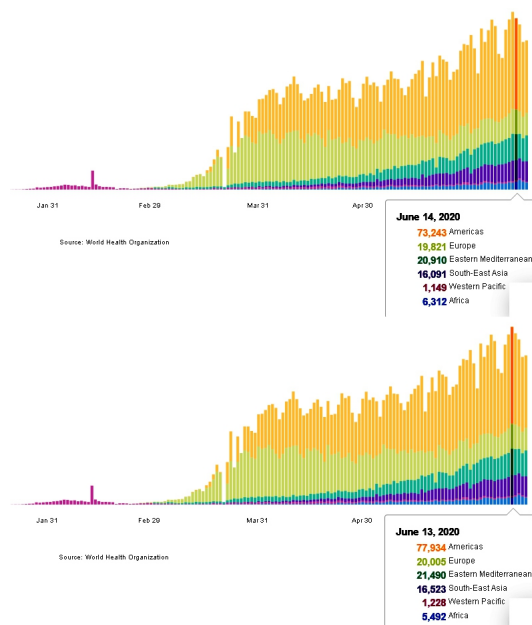
It has been 6 months but we are not out of the woods yet with this coronavirus pandemic. The fear of the virus mutating into something more dangerous is lurking. The grave possibility of a second wave is still rampant. Some countries are in soft reopening phases but the reality is that we are still in a grey area. Furthermore, a proven vaccine is yet to be produced. Amidst all these uncertainties, applying a consistent data-driven mindset can help prevent outbreaks, maintain valuable resources and even save more lives in the long run.

This article serves as an update about the coronavirus situation, the healthcare system implemented and how Starschema joins the fight against the pandemic.

Who you are: Health institutions, clinical laboratories, testing facilities, organizational stakeholders, government agencies, NGOs, doctors, nurses, healthcare workers, administrators and staffers.

II. COVID-19 Current Situation (as of June 18, 2020)

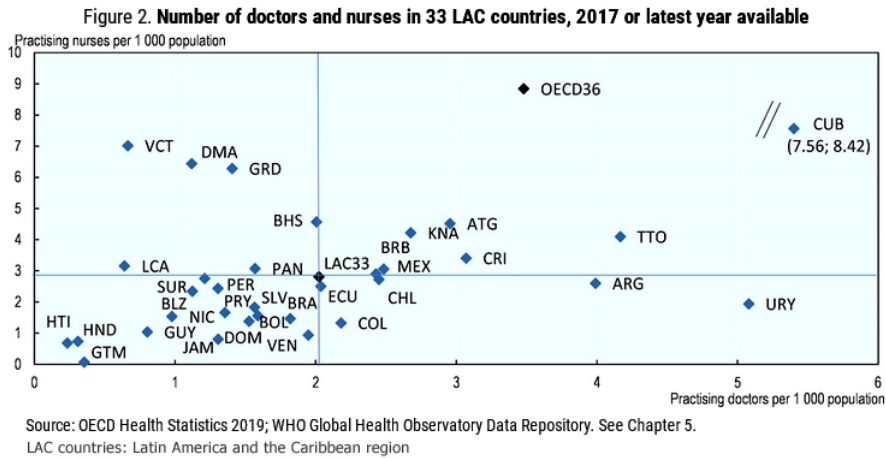
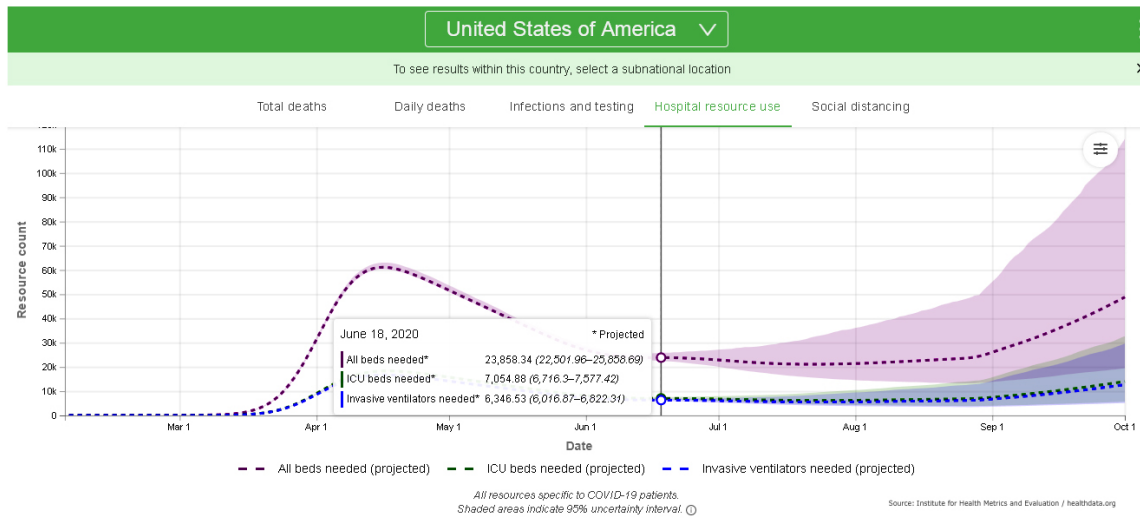
- A) In Germany, there was a recent outbreak at a meat plant in Toennies (Northern Germany). 400 workers tested positive for the virus. As a precaution, the local government closed schools and kindergartens. Furthermore, Chancellor Angela Merkel said that the country will extend its ban on large events until late October. (source: CNN)
- B) Last 13th of June, Chinese authorities reported about a cluster of COVID-19 cases linking to the Xinfadi Market in Beijing. Since 16th of June, Beijing upgraded its emergency response to COVID-19 to level II. Primary and middle school students have classes online, while college class resumptions are suspended. (sources: World Health Organization and National Health Commission of the People's Republic of China)
- C) For the 18th of June, the United States saw a spike in confirmed new cases with 27,921. Florida could be next large epicentre of coronavirus transmission with California and Texas in the hot zones. Brazil increased to 34,918 cases for the day. India has been on an upward trend with 11,502 cases last 14th of June. Surprisingly, Chile had a sudden rise of 36,179 cases for the day amidst a seemingly flat curve in the past few months. (source: CNN, World Health Organization and Johns Hopkins University Center for Systems Science and Engineering)
- D) Here's a 14-day cumulative number of reported COVID-19 cases per 100,000 population in Europe as of the 18th June 2020: Russia - 121,024, United Kingdom - 19,395, Sweden - 13,759, Belarus - 10,916, France - 6,497 and Poland – 6,306. (source: European Centre for Disease Prevention and Control)





III. Recent Healthcare Situation

- A) The Healthcare system resources and workforce have been overwhelmed with the demand surge from COVID-19. The Latin America and the Caribbean region have 2 doctors per 1 000 population, but a number of countries are below the OECD average of 3.5. Concurrently, the average number of hospital beds is 2.1 per 1 000 population, which is also less than the OECD average of 4.7. (source: Organisation for Economic Cooperation and Development)
- B) The hospital bed data sets vary in degrees, demand and an uncertainty level. In the United States, 23,858 beds are needed with a projected 25,858 beds by September. 6,346 invasive ventilators are needed with an estimate of 6,822 units at the same period. With the recent spike, Sweden has 7,081 beds available for 2,326 beds being occupied. 655 invasive ventilators are needed with a projected 1,066 by August. On the other hand in Brazil, 53,439 beds are needed with 83,774 availability. 12,100 invasive ventilators are needed with a projected 15,382 by July. (source: Institute for Health Metrics and Evaluation)
- C) Virologic surveillance in the United States shows 1,587,072 specimens tested with a 99,357 (6.3%) testing positive for the week of the 31st of May to the 6th of June. Results came from select public health, clinical and commercial laboratories. (source: Centers for Disease Control and Prevention)



IV. How Starschema Helps

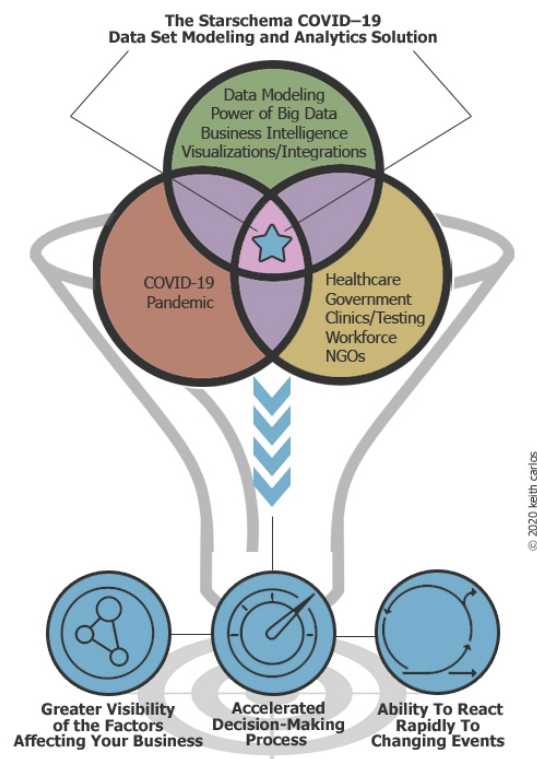
We understand and are compassionate about the dire situation that the world is in especially the healthcare workforce and the thousands of families victimized by this infectious disease.

The COVID–19 pandemic changed the way businesses operate. There are so much unknown factors impacting our procedures and how we respond. What we do have is available data - big data from internal and external sources. These determine our future actions especially towards probable outcomes and data visualization scenarios to maximise opportunities and tackle likely threats in the system and environment.

The Starschema COVID-19 Data Set gathers metrics from a range of important resources for analysing the gravity, condition and response to the COVID-19 pandemic. This type of business intelligence provides a more accurate and timely analytics to support real-time, data-driven decision-making. Insights can be tracked over time, over many factors, against variables and in any context.

Among many advantages, here are Key Benefits in integrating the Starschema COVID-19 Data Set to your organization's data.

- A) Greater Visibility of the Factors Affecting Your Business
- B) Accelerated Decision-Making Process
- C) Ability To React Rapidly To Changing Events
- D) The power of this big data can evaluate:
 - 1. Contact Tracing
 - 2. Demand Planning
 - 3. Effect of Government Policies
 - 4. Financial Repercussions
 - 5. Geographic and Location Anomalies
 - 6. Potential Risks and Hot Zones
 - 7. Projections and Scenarios from Data Visualizations
 - 8. Resource Usage, Efficiency and Productivity
 - 9. Supply Chain Operations
 - 10. Workforce Vulnerabilities



V. Call to Action

Now is the time to face this rapid changing environment. Stay ready and utilise the power of our big data modelling to prepare your organization into the unknown. Let us join the fight with you.

The Starschema COVID–19 Data Set Modelling and Analytics Solution

<https://starschema.com/solutions/covid-19-modelling-analytics>

Tableau Solutions & Data Visualizations

<https://starschema.com/tableau>

VI. Social Media Notes

Along with the custom infographic above (funnel), this cover image I made can be used for a LinkedIn article, Facebook post, blog post and other effective social media channels.



Author (All research, copy and visuals)

Christopher "Keith" N. Carlos

Copyright © 2020. All Rights Reserved.

Created to provide sample content for Starschema.