

SWRK 730

Assignment 3 - Layouts

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Introduction

AAA (level 3 rank A) hospitals in China refer to high-score regional hospitals that provide top-level medical services and perform high-level educational and scientific research roles to their and adjacent areas. This map depicts the city-level statistics of COVID-19 confirmation with provincial boundaries and the distribution of 42 cities with the greatest quantities of AAA hospitals and national top 100 hospitals as well.

Data Source

1. COVID City-level Statistics:

(1) [Dingxiangyuan Pneumonia Tracing Data Base](#)

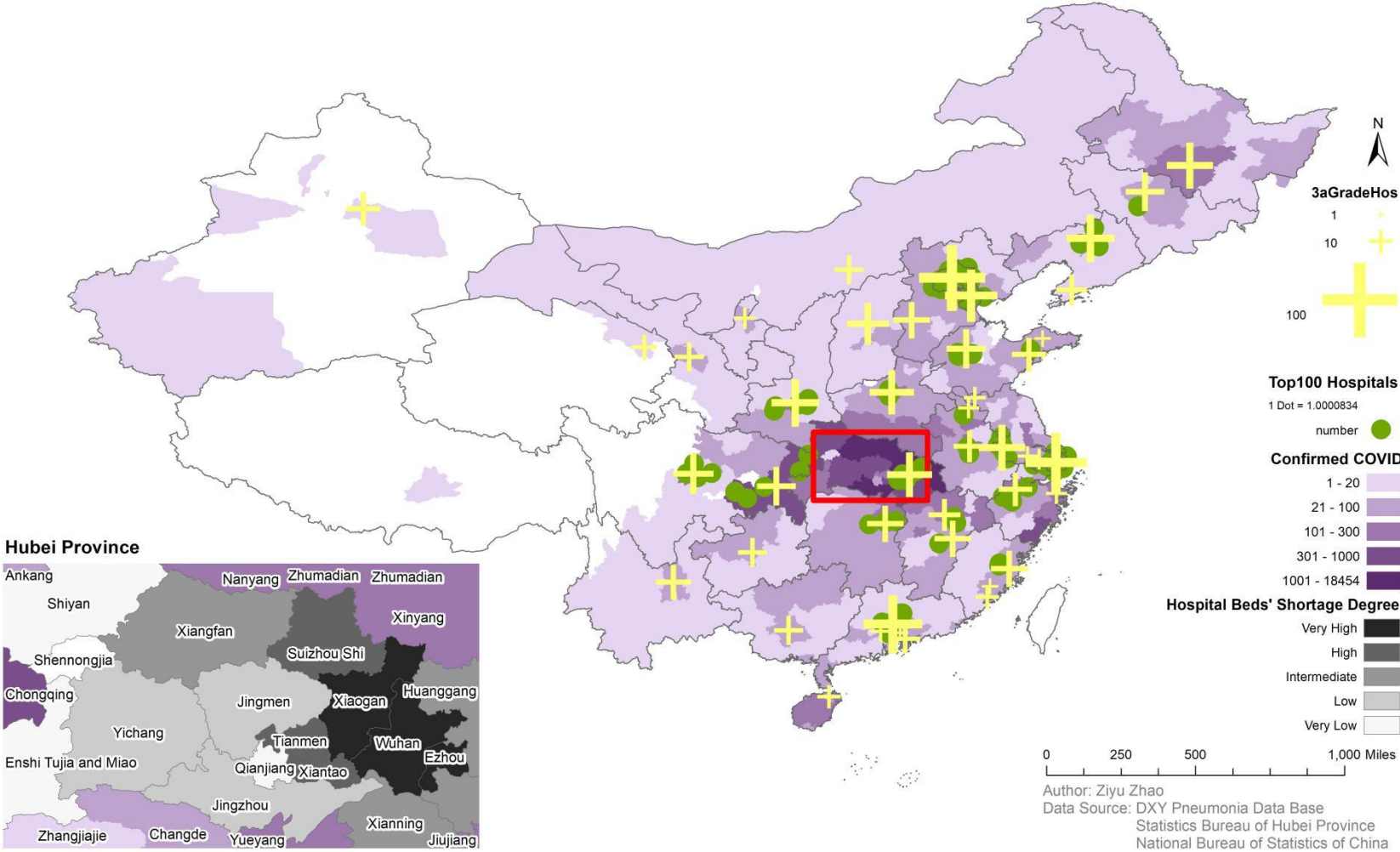
(2) My python codes to parse raw data into CSV: [ZiyuZhao19/COVID-19-ArcGIS-Project](#)

2. [National Bureau of Statistics of China](#)

3. [Statistics Bureau of Hubei Province](#)

4. Wikipedia: [AAA Hospital Distribution](#)

COVID Confirmed Cases and Chinese AAA Hospital Distribution (02/15/22)



Description

Reading from the map, cities like Beijing, Shanghai, Guangzhou, Tianjin and Xi'an show high competence in providing quality medical services and leading scientific researches, and can potentially be source cities of healthcare personnel dispatch and material assistance providence. The area enclosed by the red rectangle illustrates the hospital bed shortage degree in Hubei. For example, "Very High" shades the areas where the hospital beds/confirmed COVID statistics is between 2.42 to 5.09 in black, indicating strong incompatibility between local hospitals' designed capacity to accommodate other patients during normal periods of time and the sudden needs of treating thousands of COVID patients. Given above, it is also worth noting that unlike some other provinces that has more than one high-functioning "medical center" cities, the medical resources is solely centered in the city of Wuhan in Hubei and the other cities have less access to quality medical treatment. Specifically, the cities of Xiaogan and Ezhou are also in desperate need of help.

By the end of Feb. 12th, according to Hubei Government, there were altogether 24,418 doctors, nurses and other healthcare personnel had entered Hubei voluntarily to provide medical assistance. And since then, more dispatching teams have joined and are still joining this war from all directions from inside and outside China. Detailed data on the composition of these volunteers in terms of gender, origin, specialty, and so on can be included for future analysis to better understand the situation and support them policy and benefit wise.