

The background of the image is a close-up, shallow depth-of-field shot of a beach. It shows dark, wet sand in the foreground, with numerous light-colored, smooth, rounded pebbles and shells scattered across it. The lighting is soft, creating a moody atmosphere. In the center, there is a solid teal-colored square. Inside this square, the text "ArcBBQ" is written in a white, thin, sans-serif font. Below the text, there is a short, horizontal orange line.

ArcBBQ

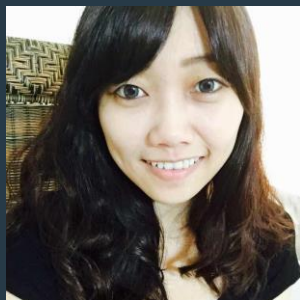
---

# Team Members



**Joey Lee**

GIS



**Karie Huang**

GIS



**Zhengcong Yin**

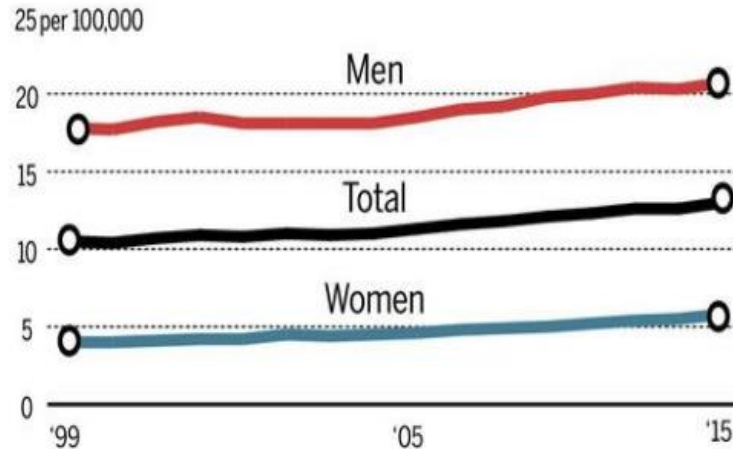
Developer



**A mental health monitoring platform**

# Why Mental health?

## National suicide rate increases



Source: Centers for Disease Control and Prevention

DANIEL WHEATON • U-T

**Invisible, but killed !**

# Why Mental health?

How can we share useful mental health information  
and analytical tools in our local community?

The logo consists of a teal square containing the text "Mental H" in a white, thin, sans-serif font. Below the text is a short, horizontal yellow line.

Mental H

**Visualizing Mental Health Info**



Mental H

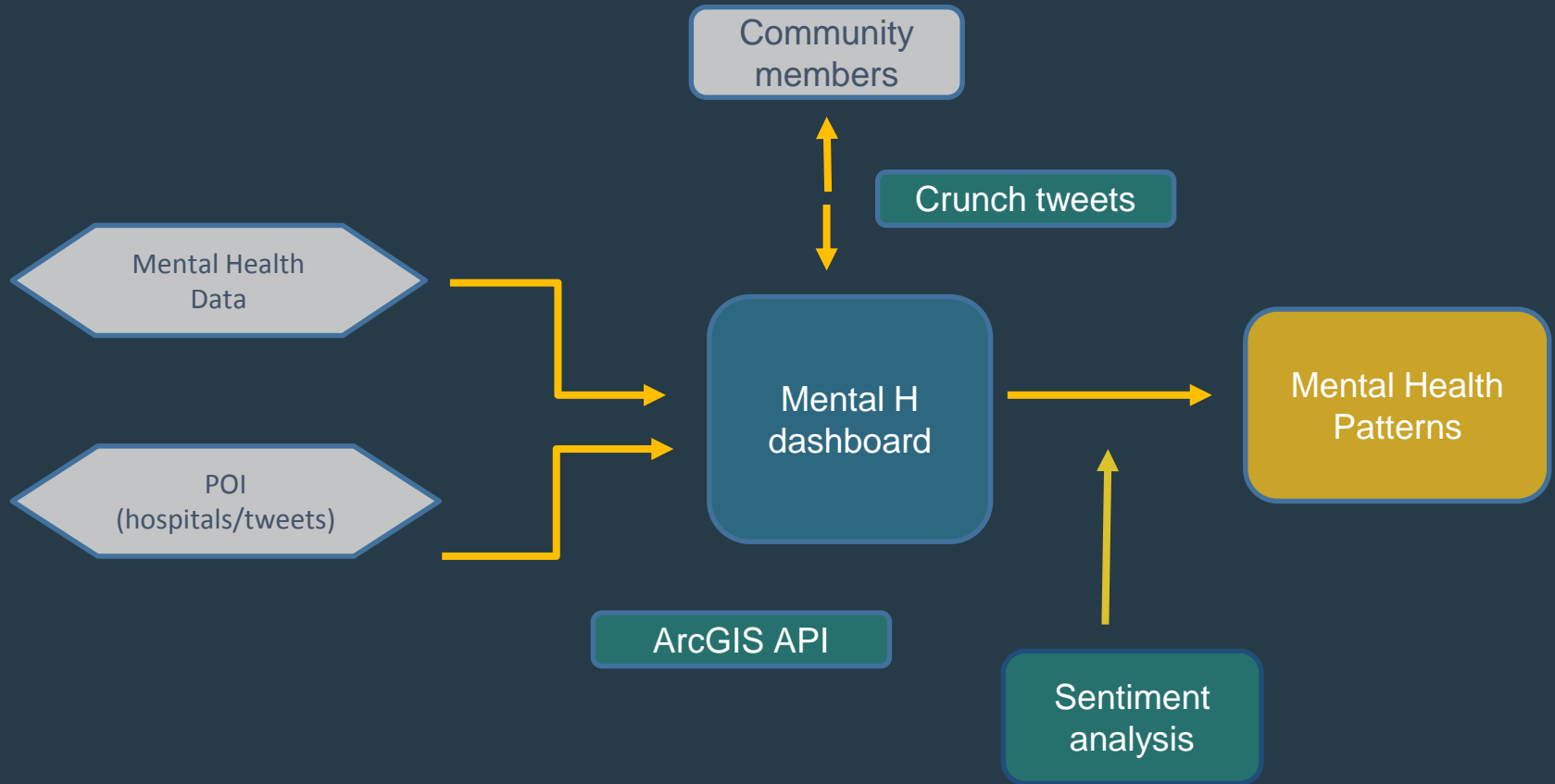
**Exploring the Spatial Patterns of Local Mental Health Status**

# How – can we collect the data ?

Data	URL
Suicide Death 2010-2013 (livewell)	Livewell <a href="http://www.livewellsd.org/">http://www.livewellsd.org/</a>
Self Inflicted Hospitalization 2010-2013 (livewell)	Livewell <a href="http://www.livewellsd.org/">http://www.livewellsd.org/</a>
Chronic Alcohol Hospitalization 2010-2013 (livewell)	Livewell <a href="http://www.livewellsd.org/">http://www.livewellsd.org/</a>
Anxiety Hospitalization 2010-2013 (livewell)	Livewell <a href="http://www.livewellsd.org/">http://www.livewellsd.org/</a>
Mood Disorders Hospitalization 2010-2013 (livewell)	Livewell <a href="http://www.livewellsd.org/">http://www.livewellsd.org/</a>
Healthcare Facility Locations (California Health and Human Services Open Data Portal)	California Health and Human Services Open Data Portal <a href="https://chhs.data.ca.gov/">https://chhs.data.ca.gov/</a>
Twitter	Twitter API



# How – does it work?



Mental H

---

**DEMO!**



Mental H



**Questions?**

Mental H



**Questions?**

# How to Collect Tweets?

**1. We use Twitter Search API to collect Tweets. The key word we used is “San Diego.”**

**2. There are 46520 tweets. After filtering those tweets without coordinates, there are 12462 tweets remain.**

# The Challenges

1. Data cleaning.
2. Limited time to use Twitter streaming API for collecting tweets.
3. It is difficult to choose a proper key word for searching.
4. Migrating our database and website to a cloud server.
5. There are some issues in ArcGIS API.

# Future Works

1. Running our database and website on a server.
2. Keep collecting the tweets on our server, and real-time analyzing the sentiment.
3. Improve the performance of sentiment analysis.