

# Assemblamenti digitali da spazi ambigui

*Andrea Benedetti, Beatrice Gobbo*

[www.densitydesign.org](http://www.densitydesign.org)

D E N -  
S I T Y  
G N +

Design of the new extended relations | 06/10/2020



# DENSITYDESIGN LAB

DensityDesign is a research lab in the Design Department of the Politecnico di Milano. It focuses on the visual representation of complex social, organizational and urban phenomena [read more...](#)

## Activities



### Knot

Knot is a digital tool for exploring historical social networks, developed within a multidisciplinary research context involving DensityDesign,... [more...](#)



### Visualizing controversies in Wikipedia

Wikipedia is the largest and most popular online encyclopaedia, built by the collaboration and coordination of its users. Anyone can edit a page... [more...](#)



### The Trending Models

The Report: The Trending Models The base of our controversy are mathematical climate models that simulate the complexity of our climate in order to... [more...](#)

[See Research section](#)

[See Teaching section](#)

## News

### DMI Winter School 2020. Post-API Research? On the contemporary study of social media data

University of Amsterdam, Law Faculty Inside Court by Txllxt TxllxT [CC]

### Mapping and representing informal transport: the state of the art

This research is a preliminary step for an upcoming project. Its focus is to

### Collaboration against disinformation: a summit organised by First Draft

From March 17th to 19th we participated with a group of students to the



# PEOPLE

## Scientific Director



**Michele Mauri**  
PhD

## Research Director

## Research Fellows



**Gabriele Colombo**  
PhD



**Angeles Briones**  
PhD

## Research Assistants



**Andrea Benedetti**  
M.Sc.

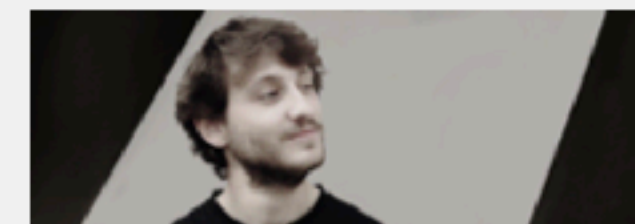
## PhD Candidates



**Sara Lenzi**  
PhD Candidate



**Beatrice Gobbo**  
PhD Candidate



**Tommaso Elli**  
PhD Candidate

## Research Assistants



**Andrea Benedetti**

Our research aim is to exploit the potential of information visualization and information design and provide innovative and engaging visual artifacts to enable [www.densitydesign.org](http://www.densitydesign.org) researchers and scholars to build solid arguments.

Assemblamenti  
digitali  
da spazi ambigui





WIKIPEDIA  
L'enciclopedia libera

- Pagina principale
- Ultime modifiche
- Una voce a caso
- Nelle vicinanze
- Vetrina
- Aiuto
- Sportello informazioni
- Comunità
- Portale Comunità
- Bar
- Il Wikipediano
- Fai una donazione
- Contatti

- Strumenti
- Puntano qui
- Modifiche correlate
- Carica su Commons
- Pagine speciali
- Link permanente
- Informazioni pagina
- Cita questa voce
- Elemento Wikidata
- Stampa/esporta
- Crea un libro
- Scarica come PDF
- Versione stampabile

- In altri progetti
- Wikimedia Commons
- In altre lingue
- Deutsch
- English
- Français
- Ligure
- Napulitano

Voci [Discussione](#) [Loggi](#) [Modifica](#) [Modifica wikitesto](#) [Cronologia](#)

## Coordinate geografiche

Da Wikipedia, l'enciclopedia libera.

In **geodesia** le **coordinate geografiche** sono valori utili ad individuare la **posizione** di un punto sulla **superficie terrestre**. Esse sono la **latitudine**, la **longitudine** e l'**altitudine**.

<b>Indice</b> <span>[</span> nascondi <span>]</span>
<b>1</b> <a href="#">Latitudine, longitudine e altitudine</a>
1.1 <a href="#">Misura</a>
1.2 <a href="#">Riferimento</a>
1.3 <a href="#">Monte Mario</a>
<b>2</b> <a href="#">Voci correlate</a>
<b>3</b> <a href="#">Collegamenti esterni</a>



Le linee verticali sono dette **meridiani** e servono a misurare la **longitudine**, le linee orizzontali sono dette **paralleli** e servono a misurare la **latitudine**.

### Latitudine, longitudine e altitudine [modifica] [modifica wikitesto]

La **latitudine** è la distanza angolare di un punto dall'**equatore** e la **longitudine** è la distanza angolare di un punto da un arbitrario **meridiano** di riferimento lungo lo stesso **parallelo** del luogo (misurati in gradi). Dal **1884** il **meridiano** fondamentale di riferimento è convenzionalmente fissato a **Greenwich**. La sua **longitudine** è quindi **0°**. L'**altitudine** è la distanza, misurata lungo la verticale del punto considerato sulla superficie terrestre, dal livello del mare.

### Misura [modifica] [modifica wikitesto]

*Lo stesso argomento in dettaglio: **Angolo** § **La misurazione dell'angolo**.*

Le latitudini e le longitudini sono grandezze angolari e come tali sono misurate in gradi.

Storicamente, l'ordine con cui si indicavano le coordinate era sempre lo stesso, prima la latitudine e poi la longitudine, usando diversi formati per scrivere i gradi.

#### Gradi minuti secondi (DMS)

Viene espresso tutto in **base sessagesimale**. Esempio: le coordinate del **Colosseo** sono N 41° 53' 24" E 12° 29' 32".

Talvolta, per fornire indicazioni più precise, pur utilizzando la notazione DMS, i secondi vengono espressi in formato decimale. Ad esempio: N 41°53'24.8280 E 12°29'32.0136.

#### Gradi minuti decimali (DM)

Esempio: le suddette coordinate diventano 41°53.41380', 12°29.53356" oppure 41d 53.41380m, 12d 29.53356m.

#### Gradi decimali (DD)

Di solito da 4 a 6 cifre decimali. Esempio: le suddette coordinate diventano 41.8902300°, 12.4922260°.

Notare che l'indicazione degli emisferi N (nord) / S (sud) e E (est) / O (ovest) può essere sostituita dal segno. In particolare, avremo valori negativi per latitudini nell'emisfero sud e longitudini ad ovest del meridiano fondamentale.

Ultimamente si usa sempre più l'ordine longitudine - latitudine, per uniformarsi ai sistemi **UTM** e **MGRS**.

### Riferimento [modifica] [modifica wikitesto]

Essendo la terra un corpo irregolare (**geaide**), dare una descrizione matematica della sua superficie è arduo dal momento che non si hanno i dati necessari. Solitamente si suppone che essa sia assimilabile a un ellissoide, in modo

In geodesia le coordinate geografiche sono valori utili ad individuare la posizione di un punto sulla superficie terrestre. Esse sono la latitudine, la longitudine e l'altitudine.

[https://it.wikipedia.org/wiki/Coordinate\\_geografiche](https://it.wikipedia.org/wiki/Coordinate_geografiche)



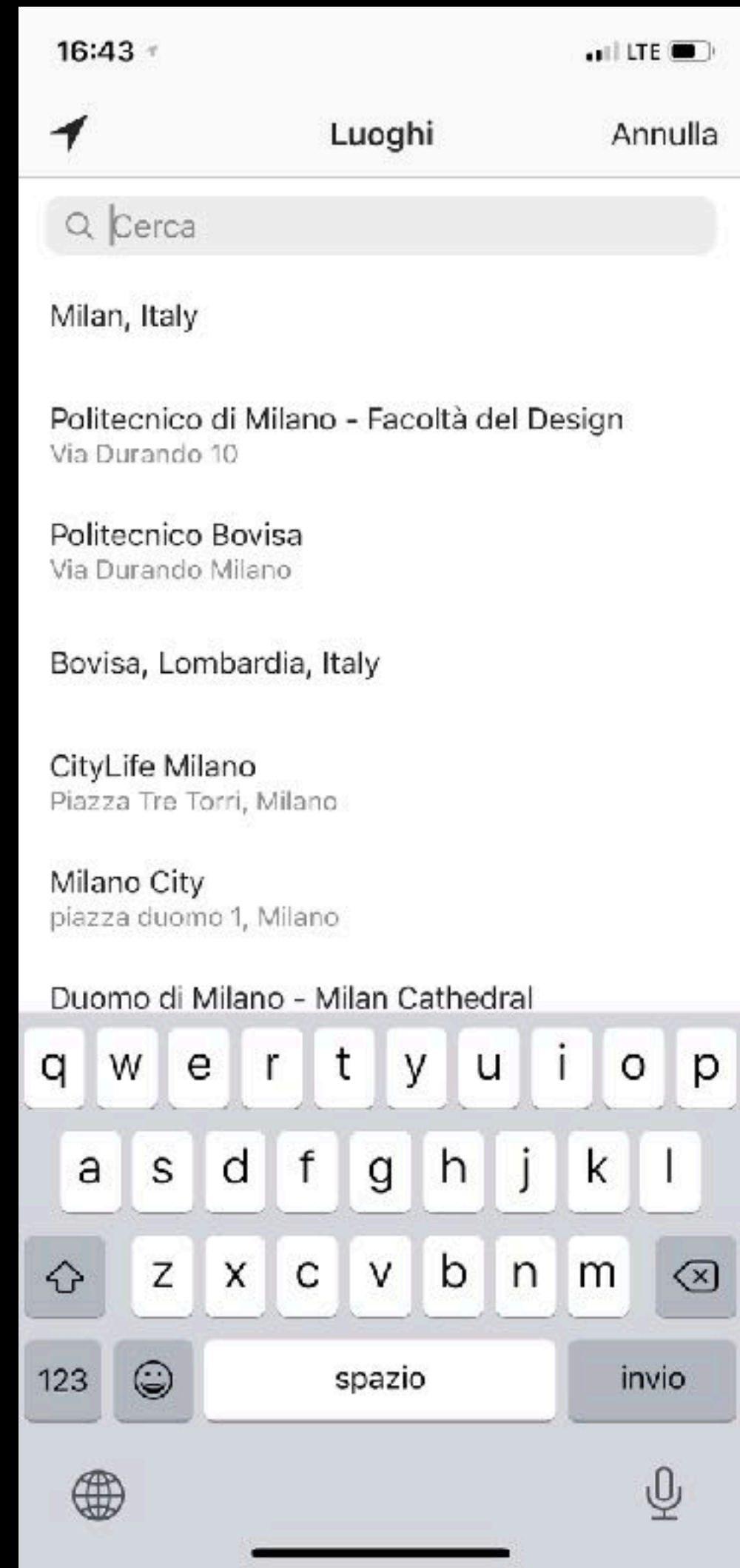
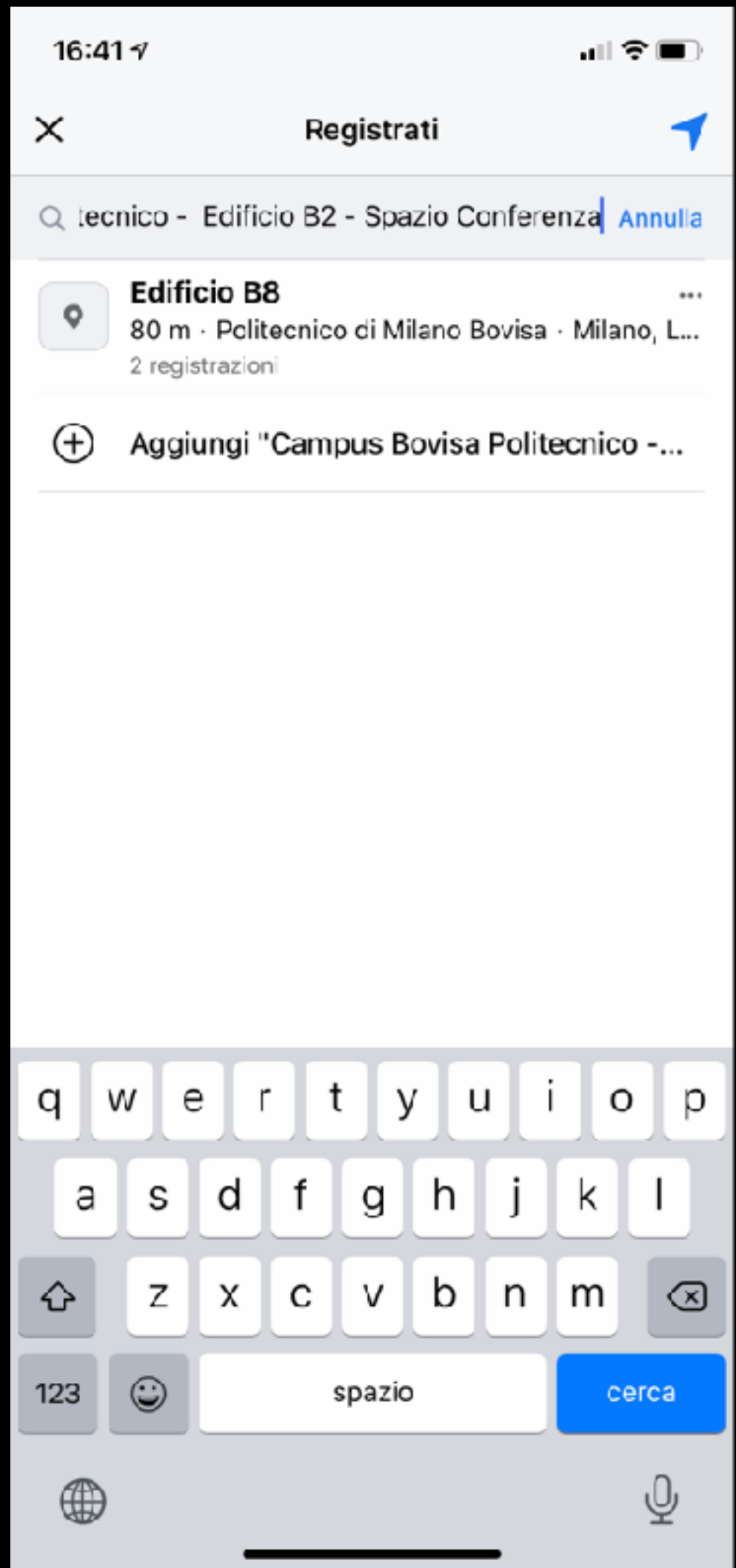




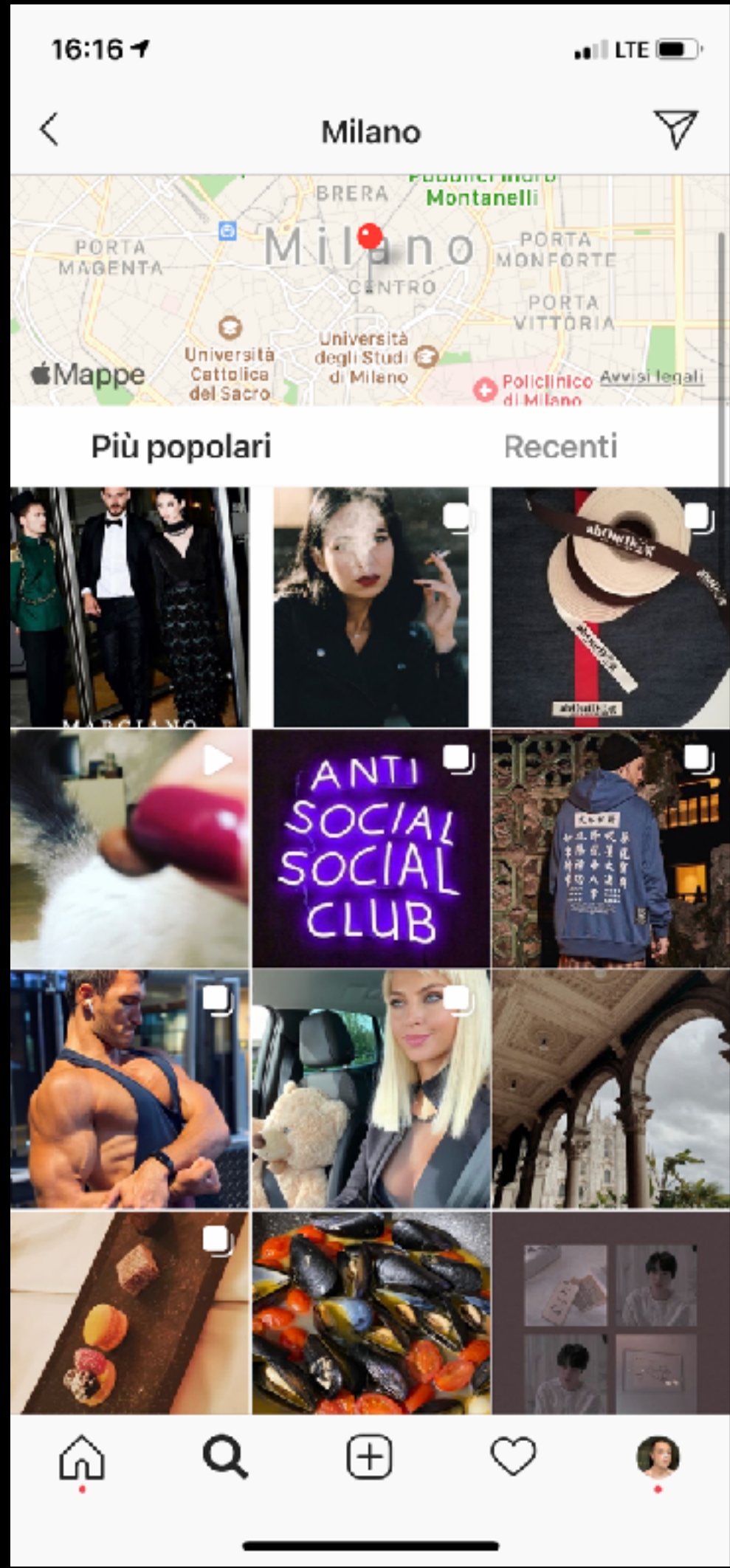


Planisfero di Tolomeo

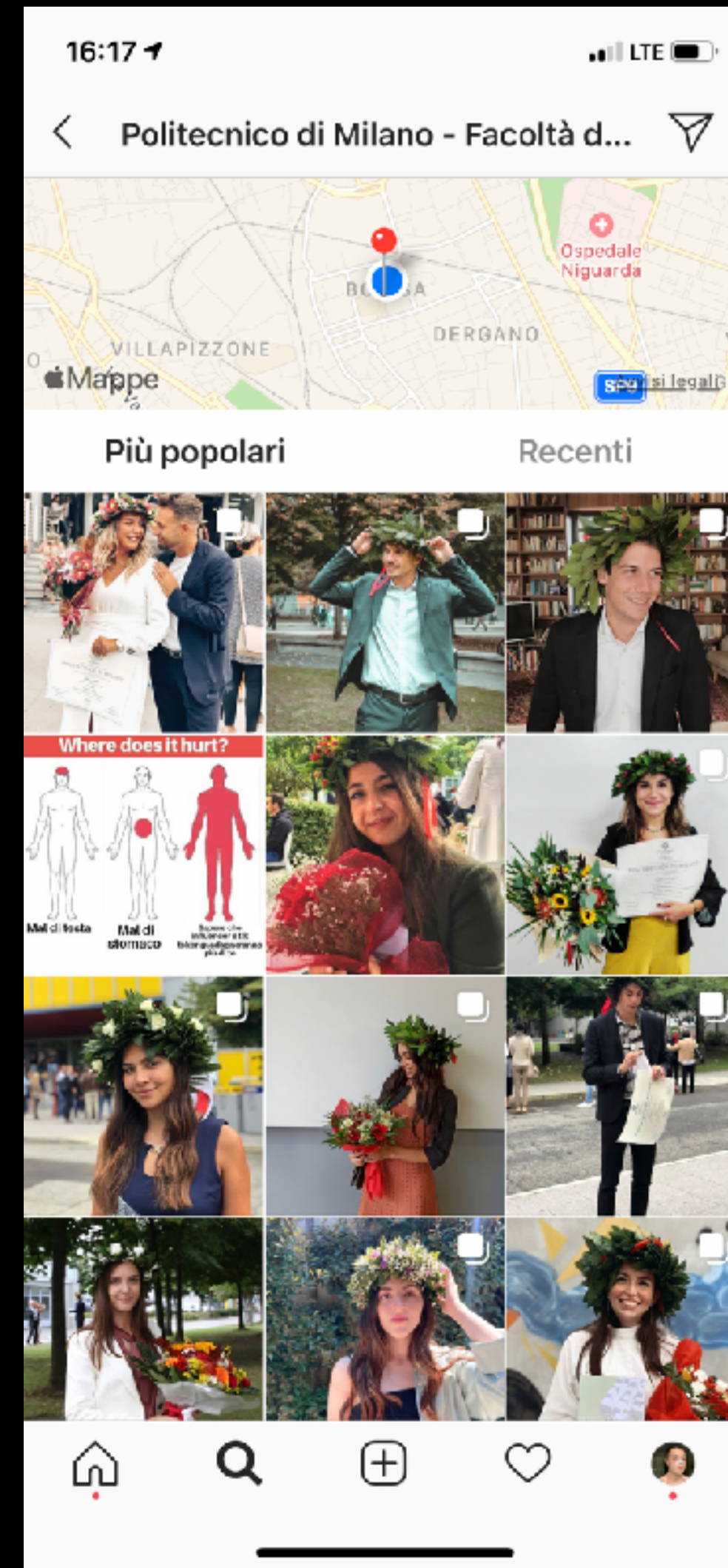
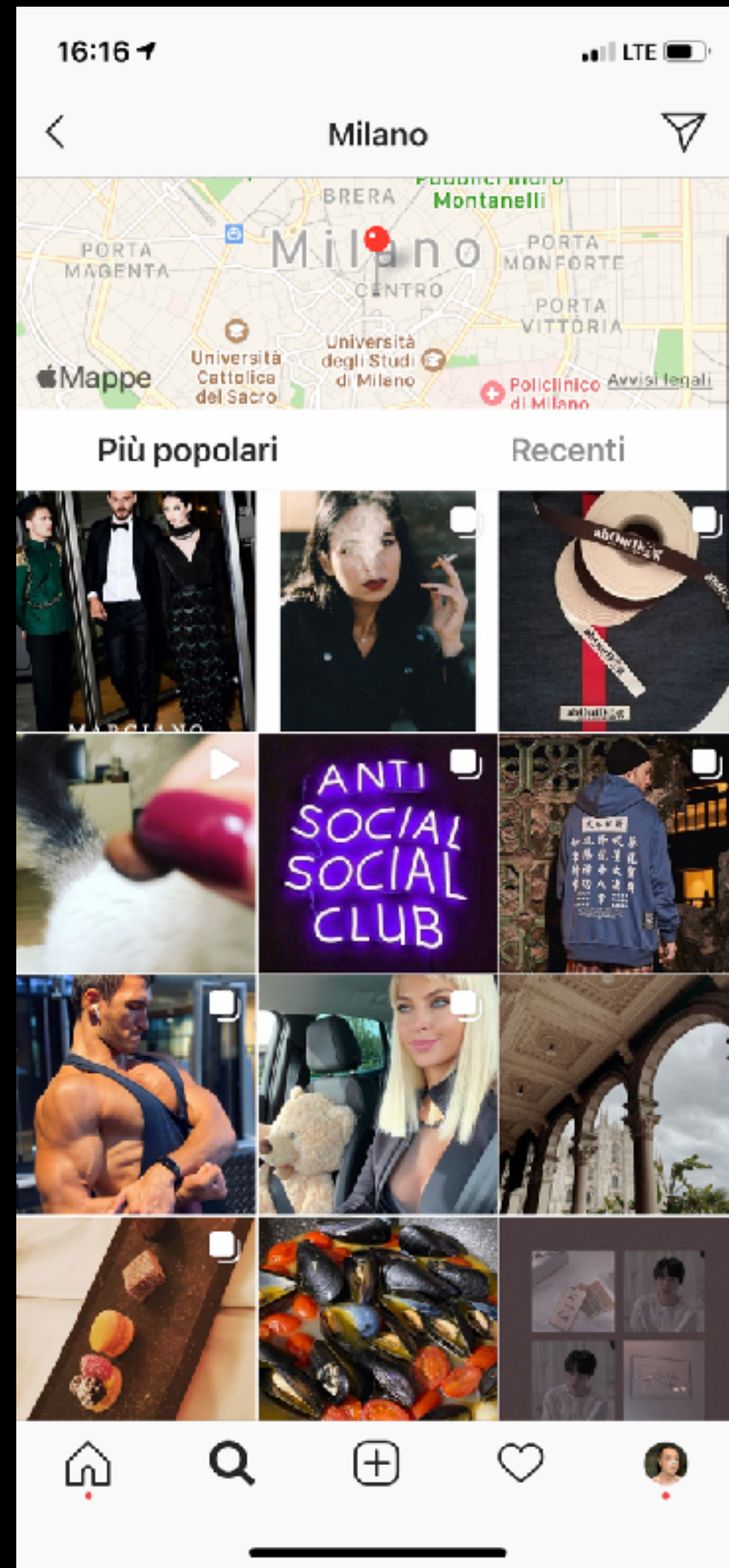












Place ID	Label	Lat	Lon
1	Milano	N/A	N/A
2	Milan	N/A	N/A
3	Milano	45.4642	9.1900



# Null Island



Null Island is a name for the point on the Earth's surface where the prime meridian and the equator cross, located in international waters in the Gulf of Guinea off the west African coast. In the WGS84 datum, this is at zero degrees latitude and longitude, and is the location of a buoy. [Wikipedia](#)

## People also search for

[View 2+ more](#)



[180th meridian](#)



[Prime Meridian](#)



[Gulf of Tomini](#)

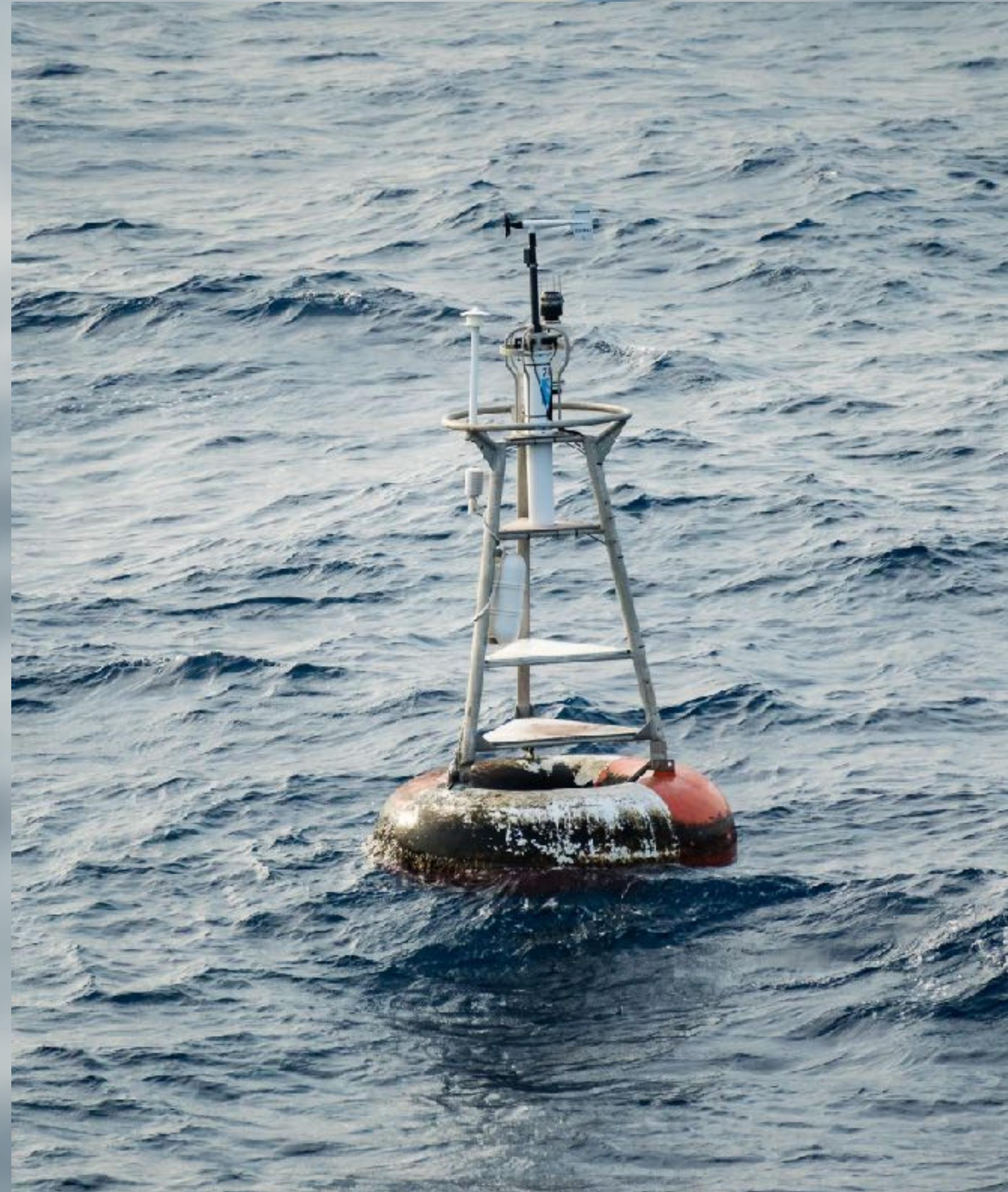


[Royal Observat... Greenwich](#)

*Null Island* is a name for the point on the Earth's surface where the prime meridian and the equator cross, located in international waters in the Gulf of Guinea. In the WGS84 datum, this is at zero degrees latitude and longitude (0°N 0°E)


[https://en.wikipedia.org/wiki/Null\\_Island](https://en.wikipedia.org/wiki/Null_Island)







Benvenuti a Sandy Island, l'isola fantasma del Mar dei Coralli




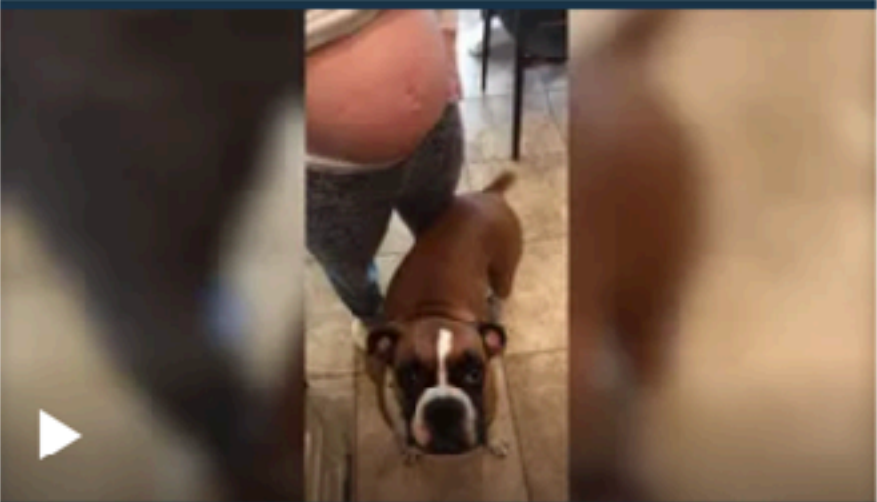
NOEMI PENNA

LA STAMPA

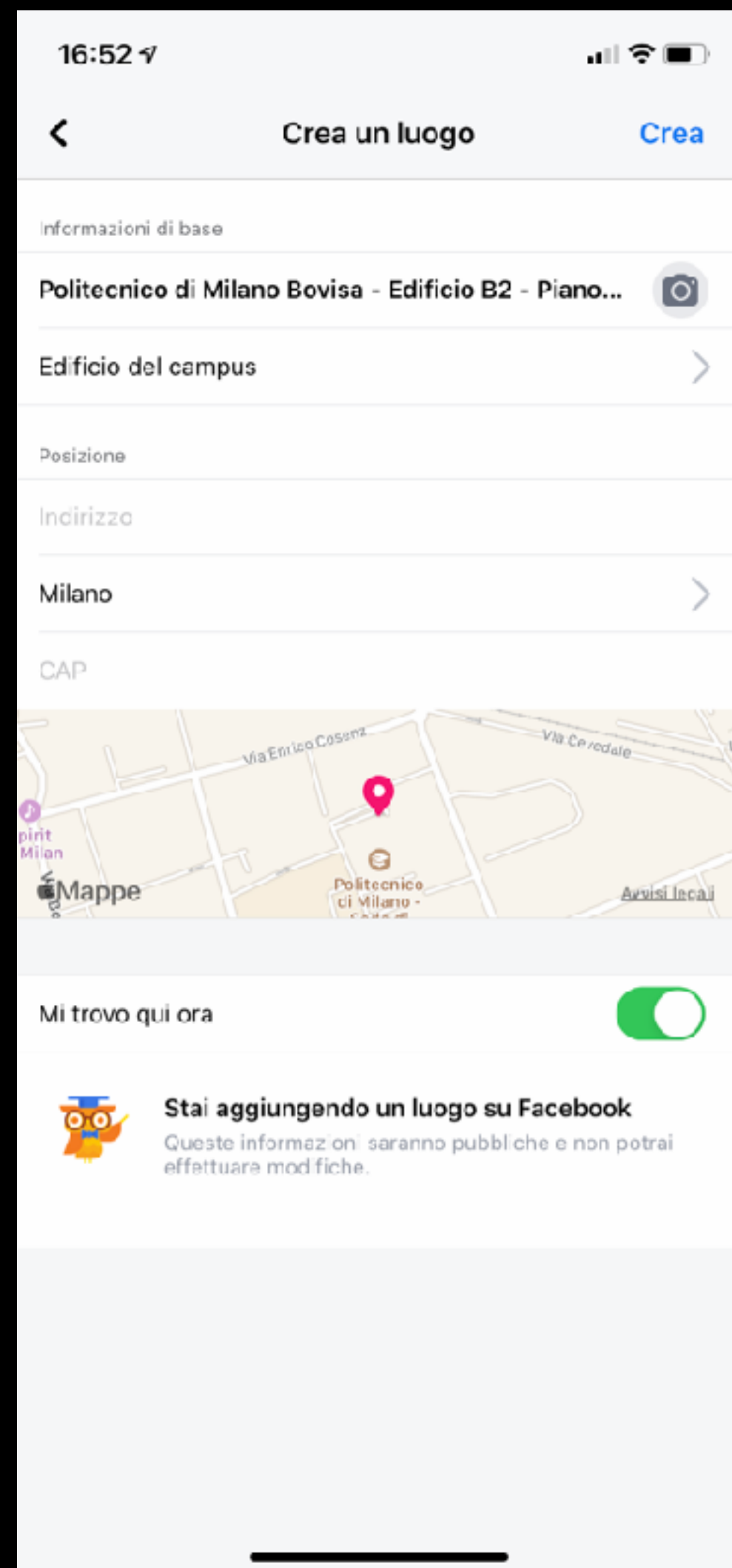
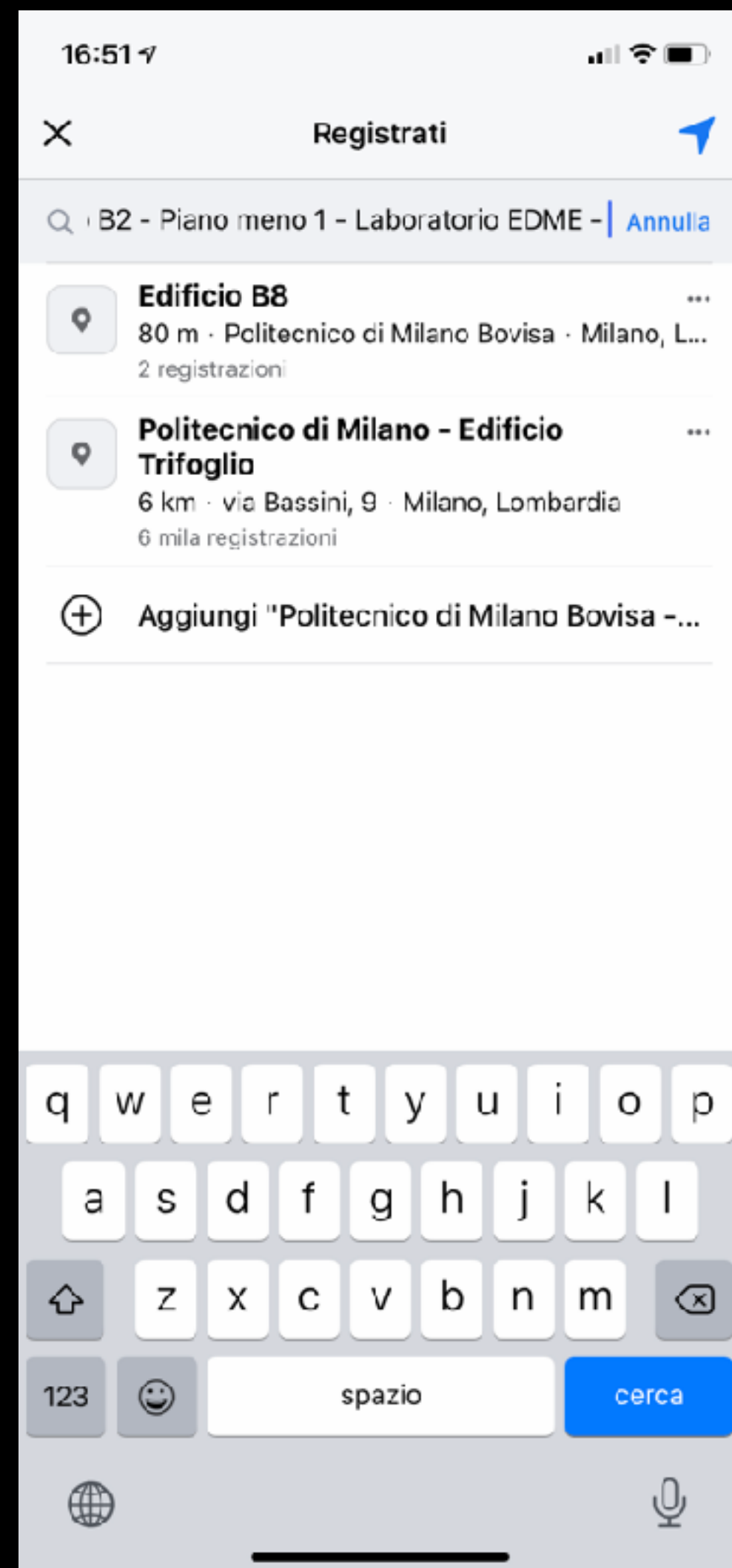
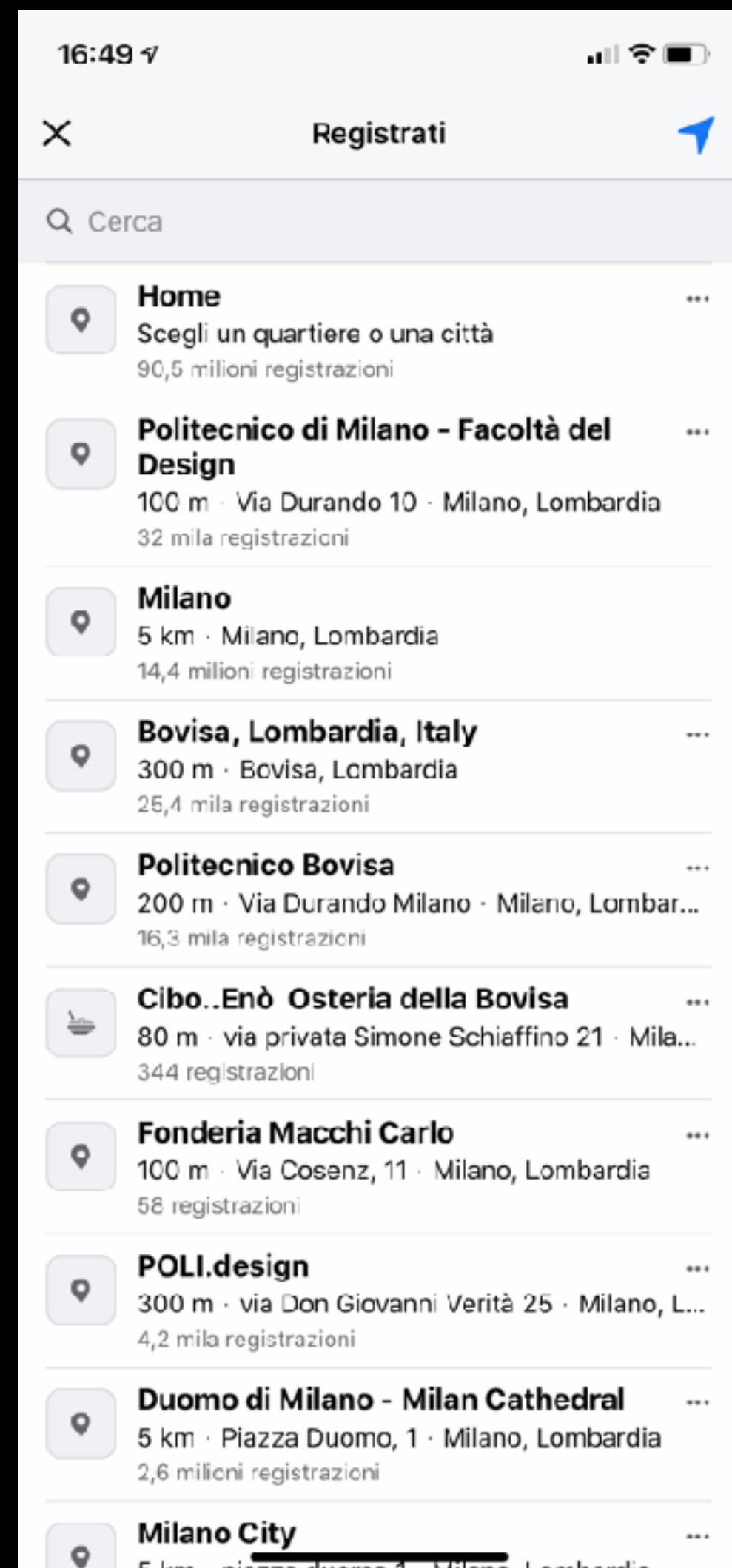
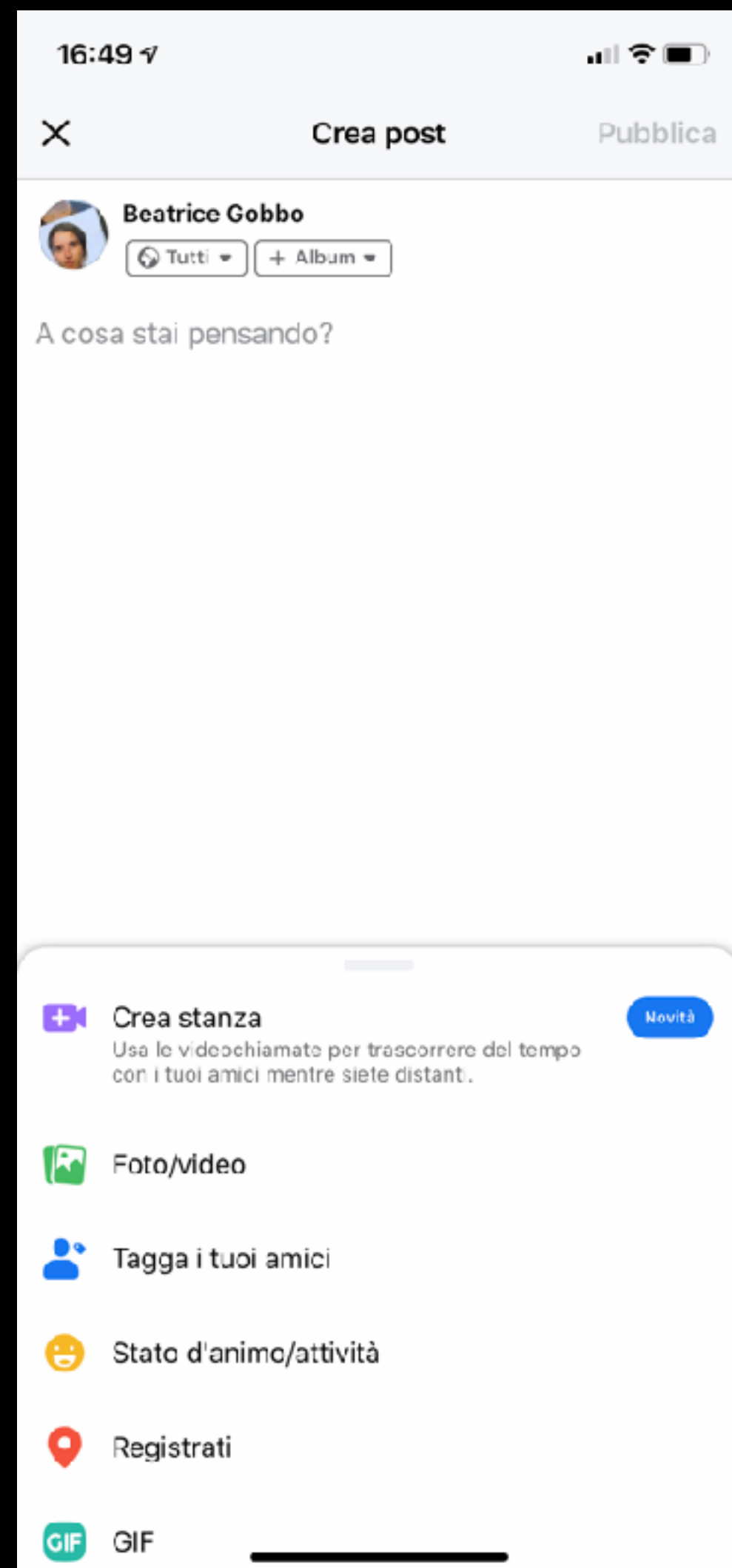
ABBONATI ACCEDI

TUTTI I VIDEO

La padrona è incinta, ecco come reagisce il cane se qualcuno le tocca la pancia



L'isola appare su alcune mappe, tra cui quelle disegnate da James Cook nel 1774 e pubblicate due anni più tardi, ma anche su Google Maps, mentre su Google Earth si vede soltanto il blu dell'oceano.



Come studiamo e  
rappresentiamo questi  
fenomeni?



Digital methods are techniques for the study of societal change and cultural condition with online data.

We look at Google results and see society, instead of Google.

Richard Rogers



Cerca su Facebook



Beatrice



13

13 DIC 2017 ALLE ORE 00:30 - 15 DIC 2017 ALLE ORE 17:00

### Visualizing Ambiguity Workshop

Teknoantropologisk Laboratorium

Informazioni

Discussione

Parteciperò



#### Dettagli

Persone che hanno risposto: 53

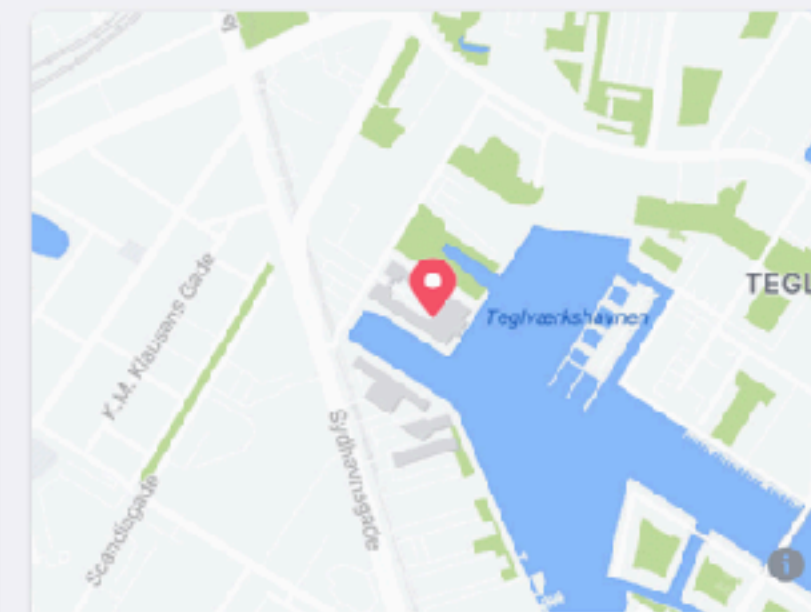


13 dic 2017 alle ore 00:30 - 15 dic 2017 alle ore 17:00

Teknoantropologisk Laboratorium

Tutti - Evento organizzato da Teknoantropologisk Laboratorium, DensityDesign e altre 2 persone

We are organising a three day mini-sprint (workshop) on the topic of data visualisation in ambiguous situations. The cartography of controversies in particular, and the process of ... Altro...



Teknoantropologisk Laboratorium

A. C. Meyers Vænge 15, 3rd floor, room 2.3.003,





A street scene in a European city, likely Rome, showing a cobblestone street, parked cars, and buildings. A vertical heatmap overlay is applied to a utility pole in the center, showing a green and purple color gradient. The heatmap is most intense on the pole and fades out towards the top and bottom.

# *Places out of place*

An ambiguous journey through the world according to the Facebook API

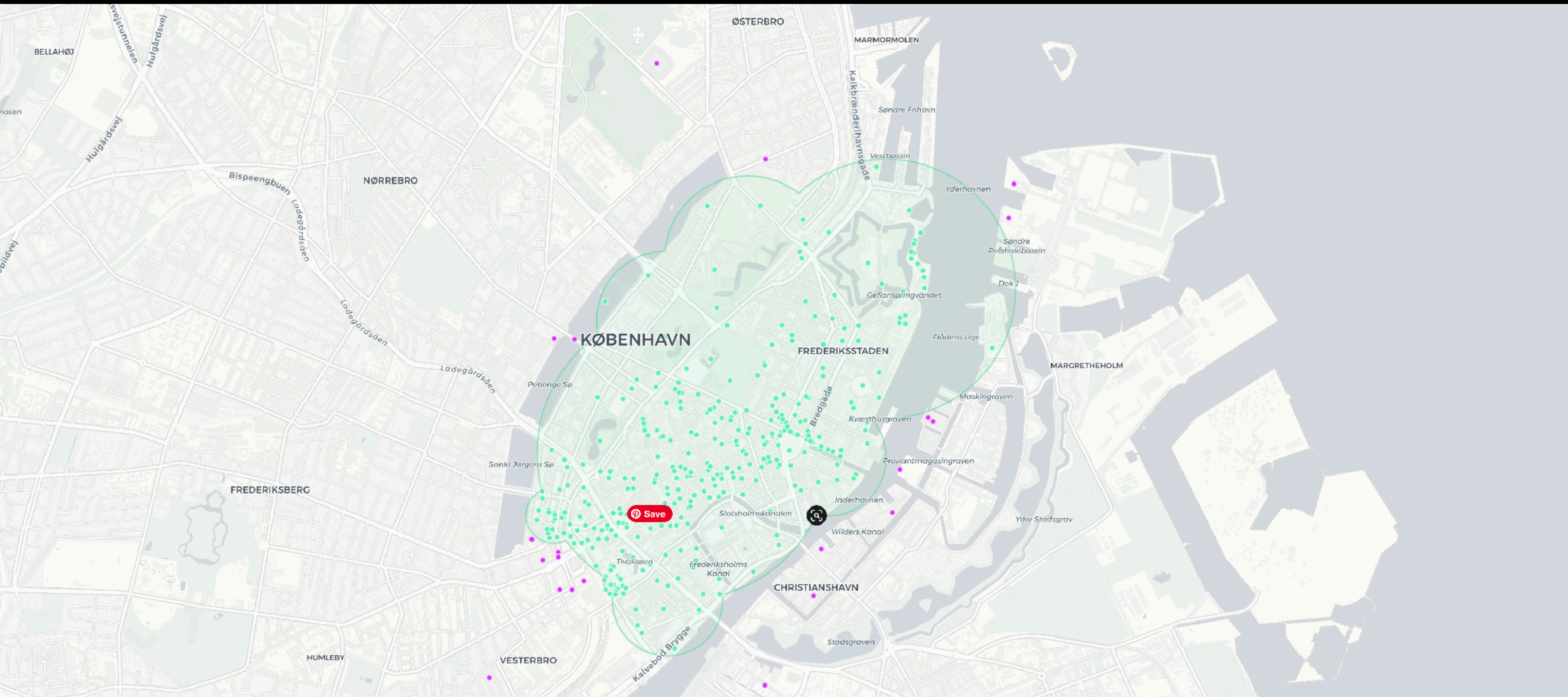
by Àngeles Briones, Tommaso Elli, Anders Munk



1. Draw a search box around the city of interest
2. Search Facebook for places geo-located in your search box
3. Now call the API to get events associated with each of these places
4. Voila, now you have a dataset of events happening in your city of interest

```
0:
  id: "219533054725933"
  location:
    longitude: 12.582954491272
    city: "København"
    country: "Denmark"
    latitude: 55.67930541456
  name: "KØBENHAVN - Kopenhagen -"
1:
  id: "108459515844583"
  location:
    longitude: 12.57537222
    latitude: 55.67877778
  name: "Strøget"
2:
  id: "108003279227124"
  location:
    latitude: 55.675367
    zip: "1216"
    longitude: 12.584533
    city: "København"
    country: "Denmark"
    street: "Slotsholmsgade 1"
  name: "Børsen"
3:
  id: "129889340386464"
```











**Venue**

**1, 2, 1, 2 Is just a text**  
 14 Público · Organizado por Angeles Briones

Hoy a las 11:00  
 En este momento · 3° Lluvias

Aalborg Universitet København - AAU CPH  
 A.C. Meyers Vænge 15, 2450 Copenhagen

Universidad  
 99 40 98 40  
 aaugaa@au.dk

Cómo llegar

Información Conversación

**Specific address**

**1, 2, 1, 2 Is just a text**  
 14 Público · Organizado por Angeles Briones

Hoy a las 11:00  
 En este momento · 3° Lluvias

A.C. Meyers A.C. Meyers Vænge 15, 2450 København

Cómo llegar

Información Conversación

**Imaginary places**

**1, 2, 1, 2 Is just a text**  
 14 Público · Organizado por Angeles Briones

Hoy a las 11:00  
 En este momento

Tantiab

Información Conversación

**The TANT-Lab**

**The TANT-Lab**  
 A.C. Meyers Vænge 15, 3rd floor, 2450 Copenhagen

Universidad  
 tantlab@learning.aau.dk

Cómo llegar

Información Conversación

**1, 2, 1, 2 Is just a text**

**1, 2, 1, 2 Is just a text**  
 14 Público · Organizado por Angeles Briones

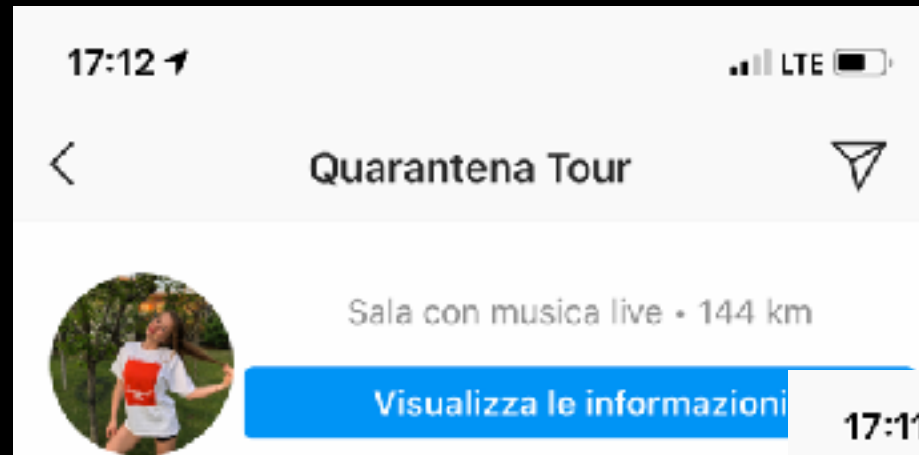
Hoy a las 11:00  
 En este momento

The spoon doesn't exist

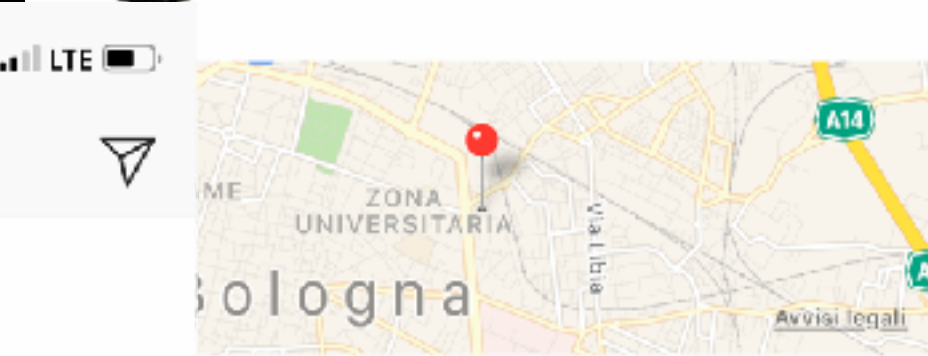
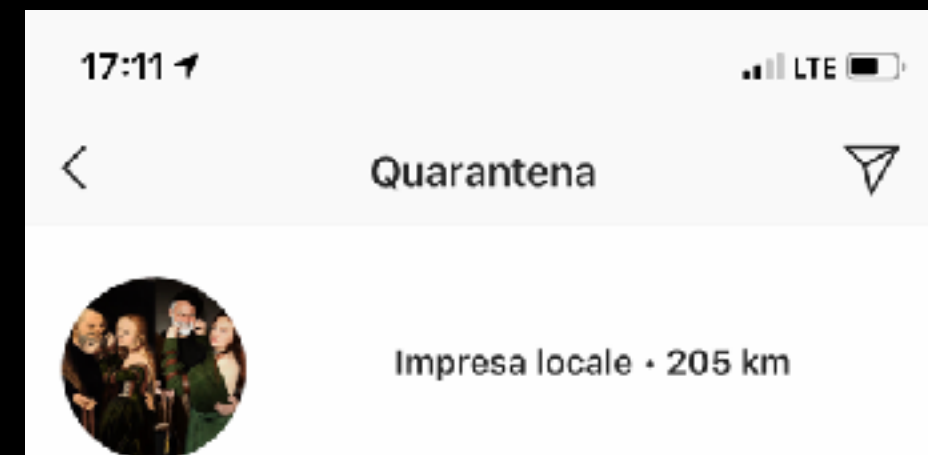
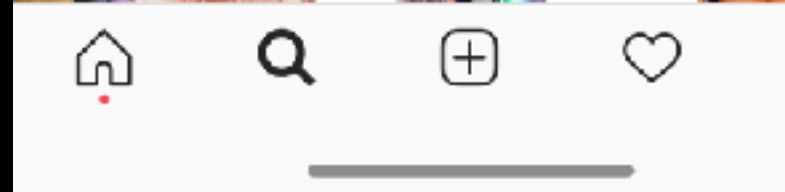
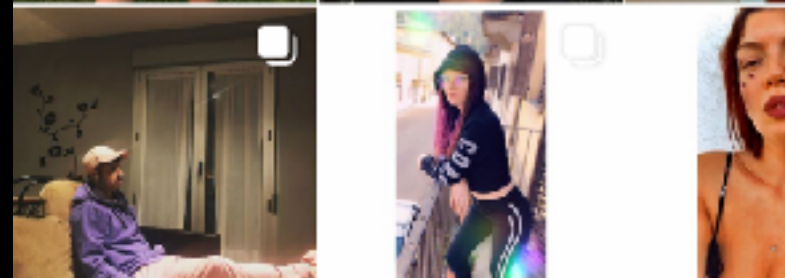
Información Conversación



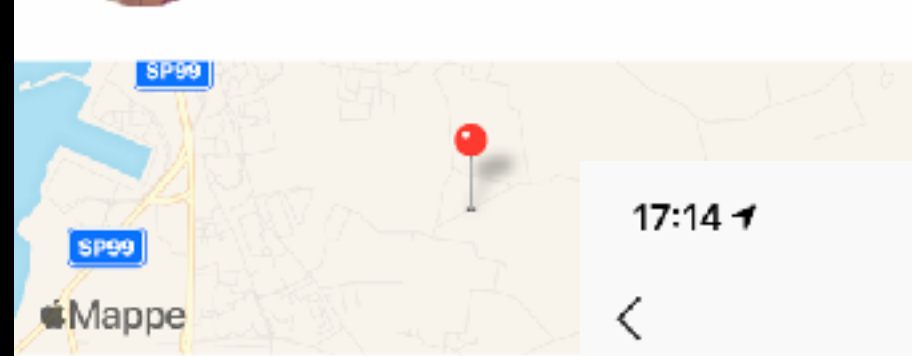
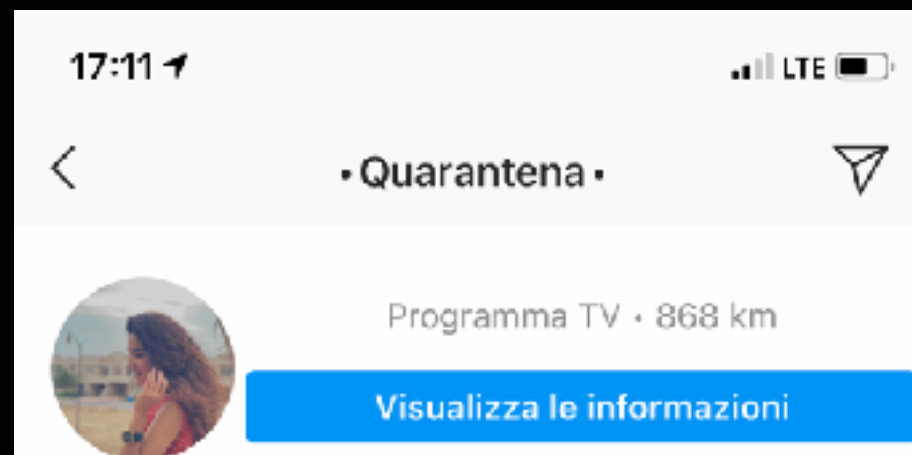
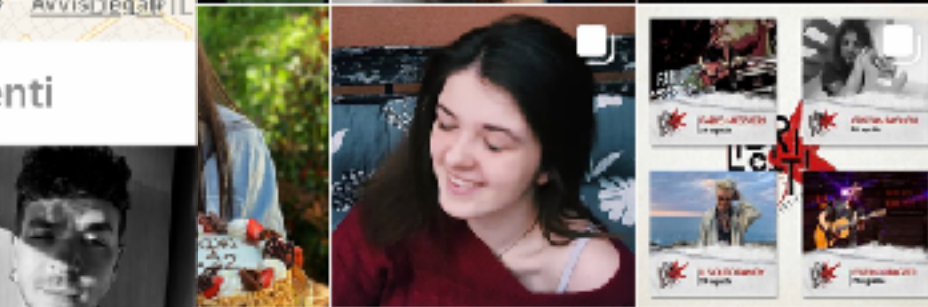
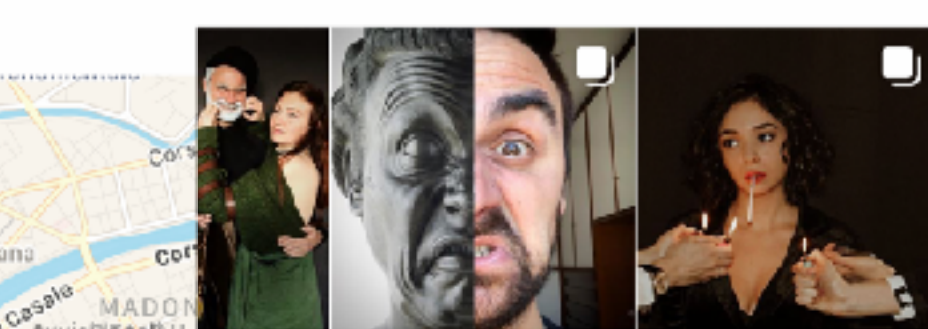




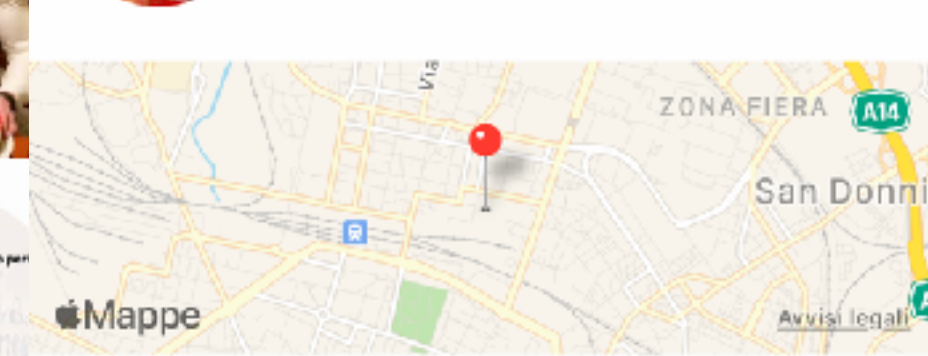
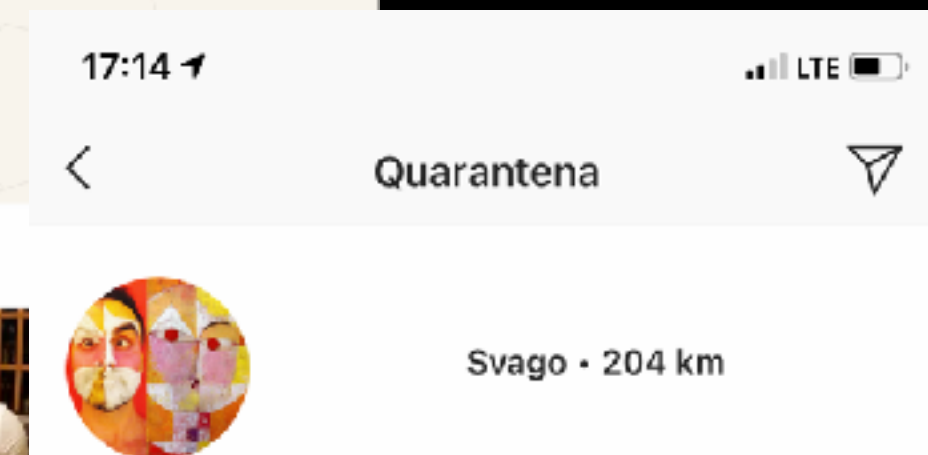
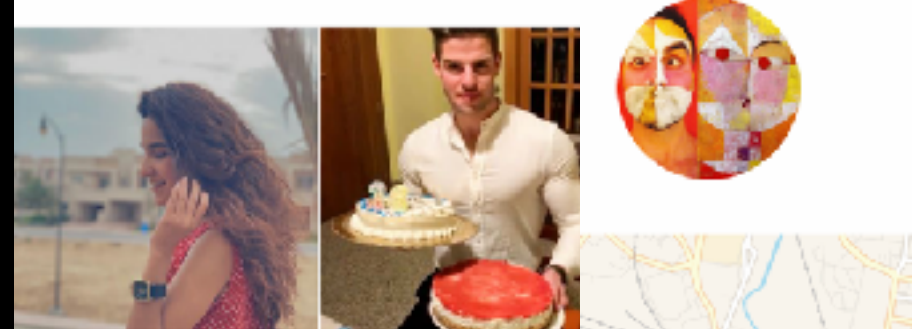
Più popolari Recenti



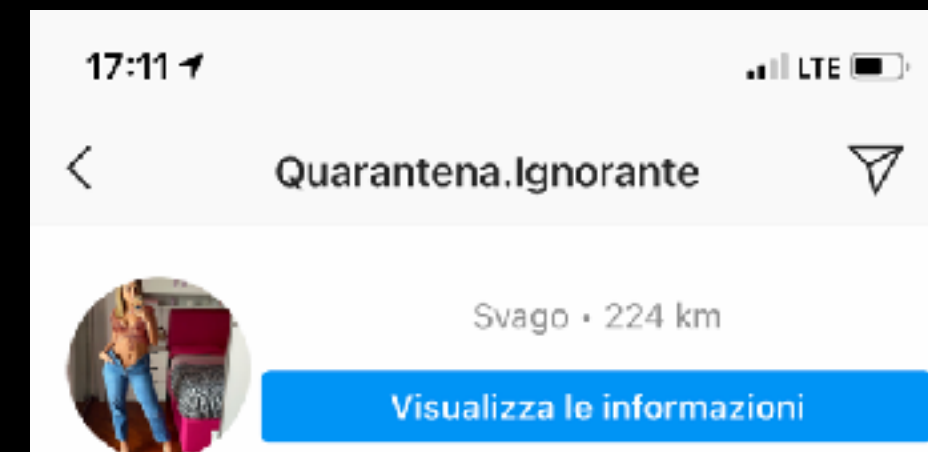
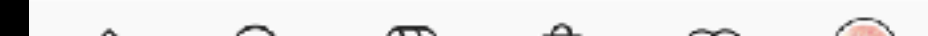
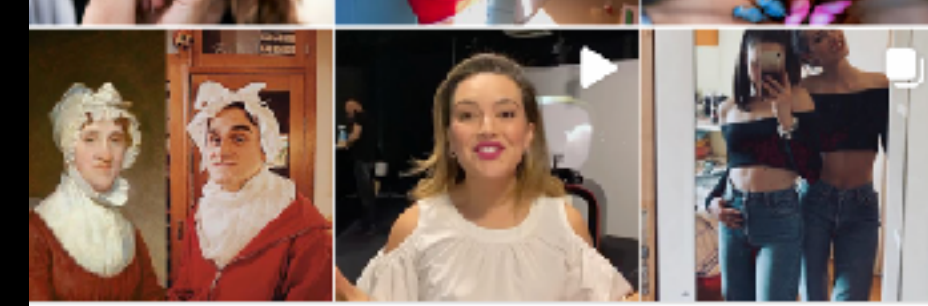
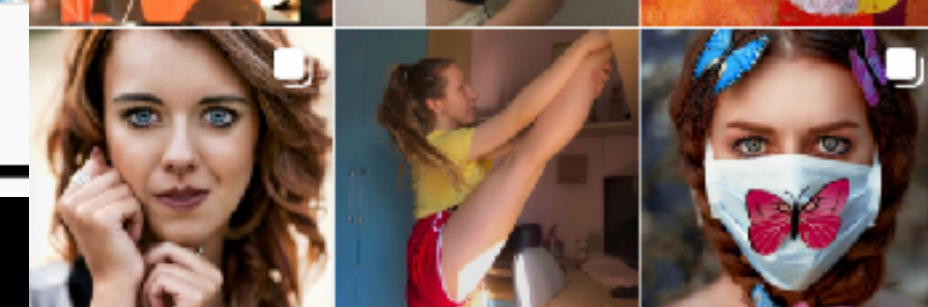
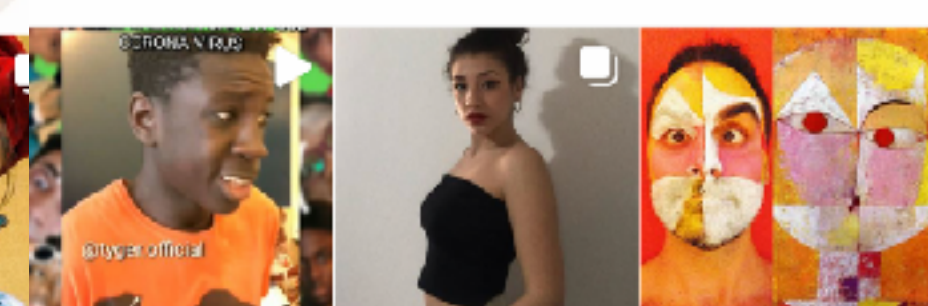
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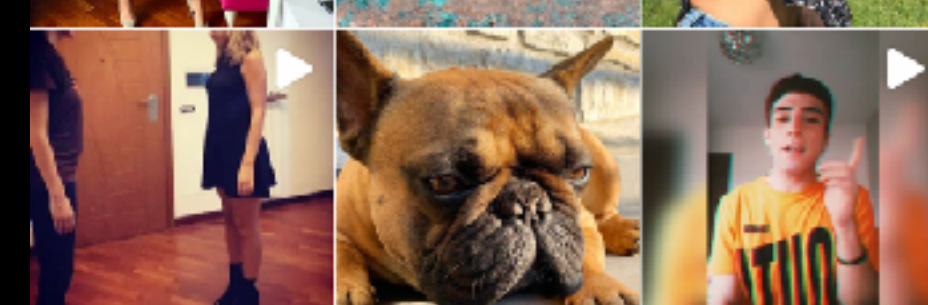
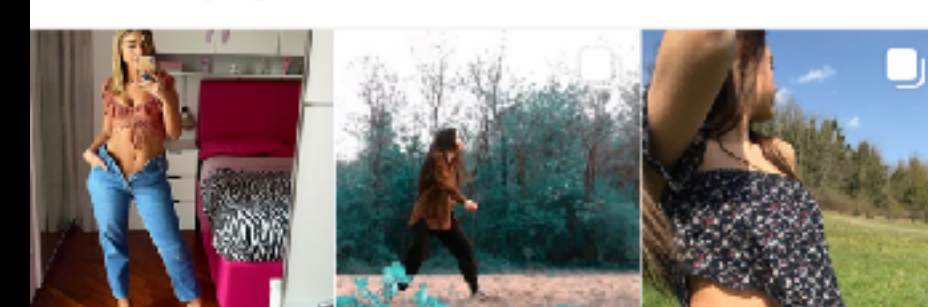
Più popolari Recenti



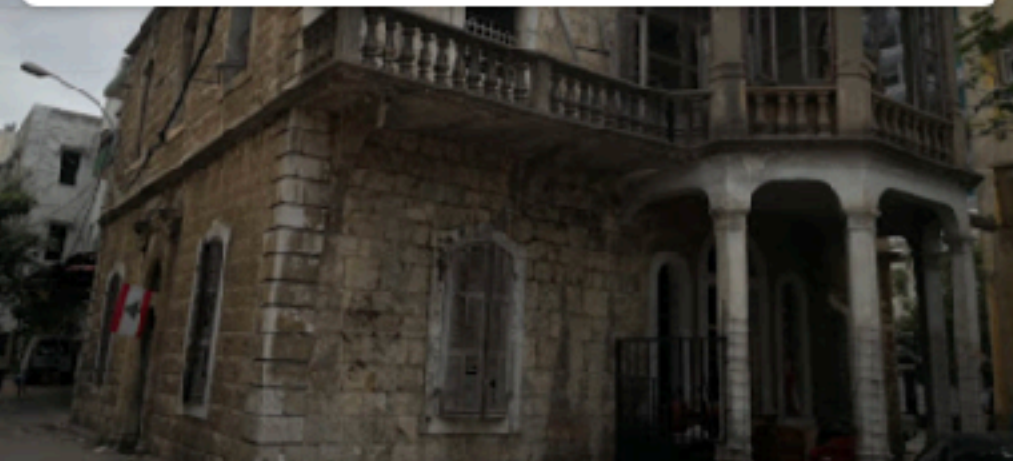
Più popolari Recenti



Più popolari Recenti







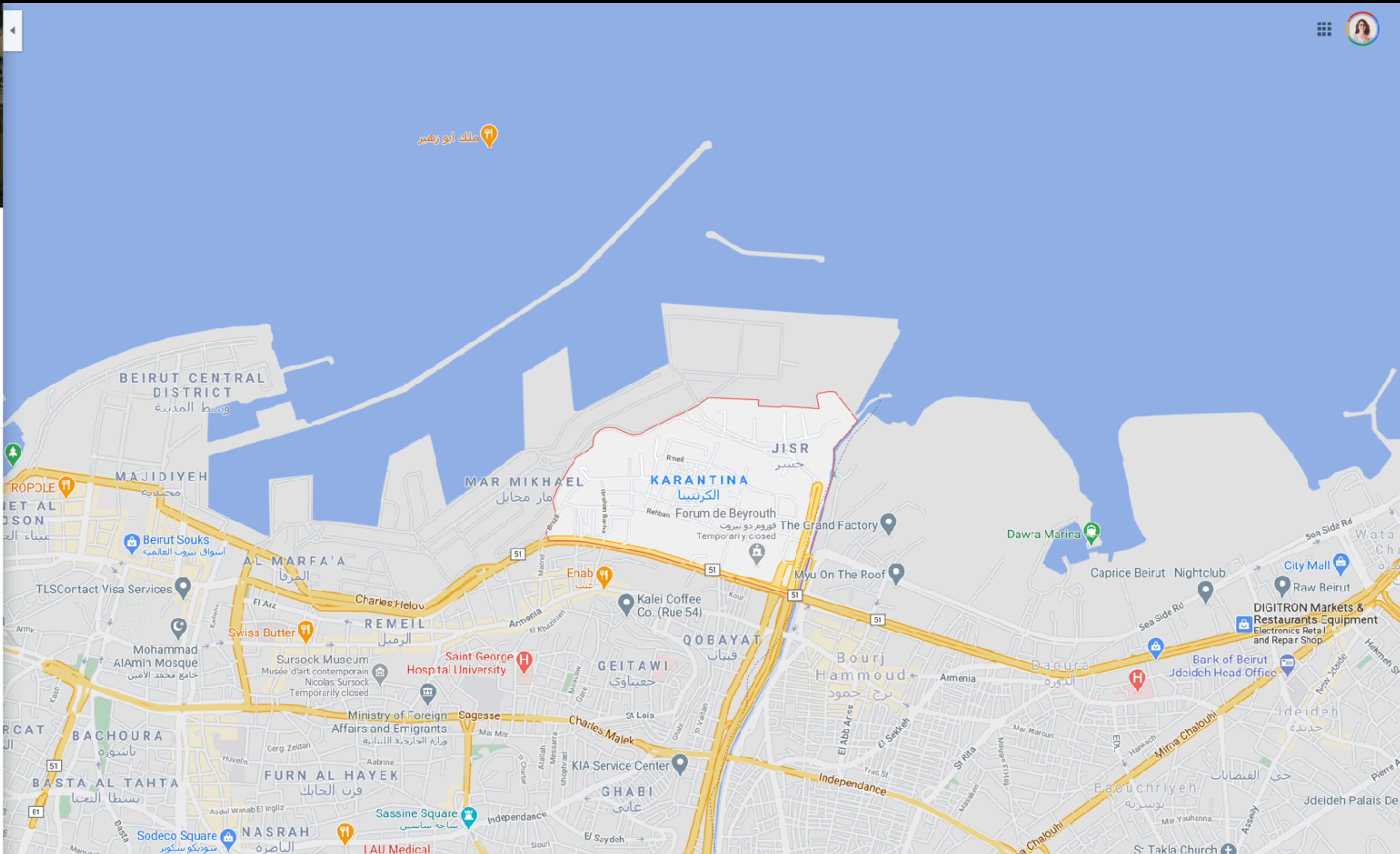
**Karantina**  
الكرنتينا  
Beirut  
Lebanon  
Clear with periodic clouds · 27°C  
6:50 PM

- Directions
- Save
- Nearby
- Send to your phone
- Share



**Quick facts**

La Quarantaine, which is colloquially referred to as Karantina and sometimes spelled Quarantina, is a predominantly low-income, mixed-use residential, commercial, and semi-industrial neighborhood in northeastern Beirut. [Wikipedia](#)



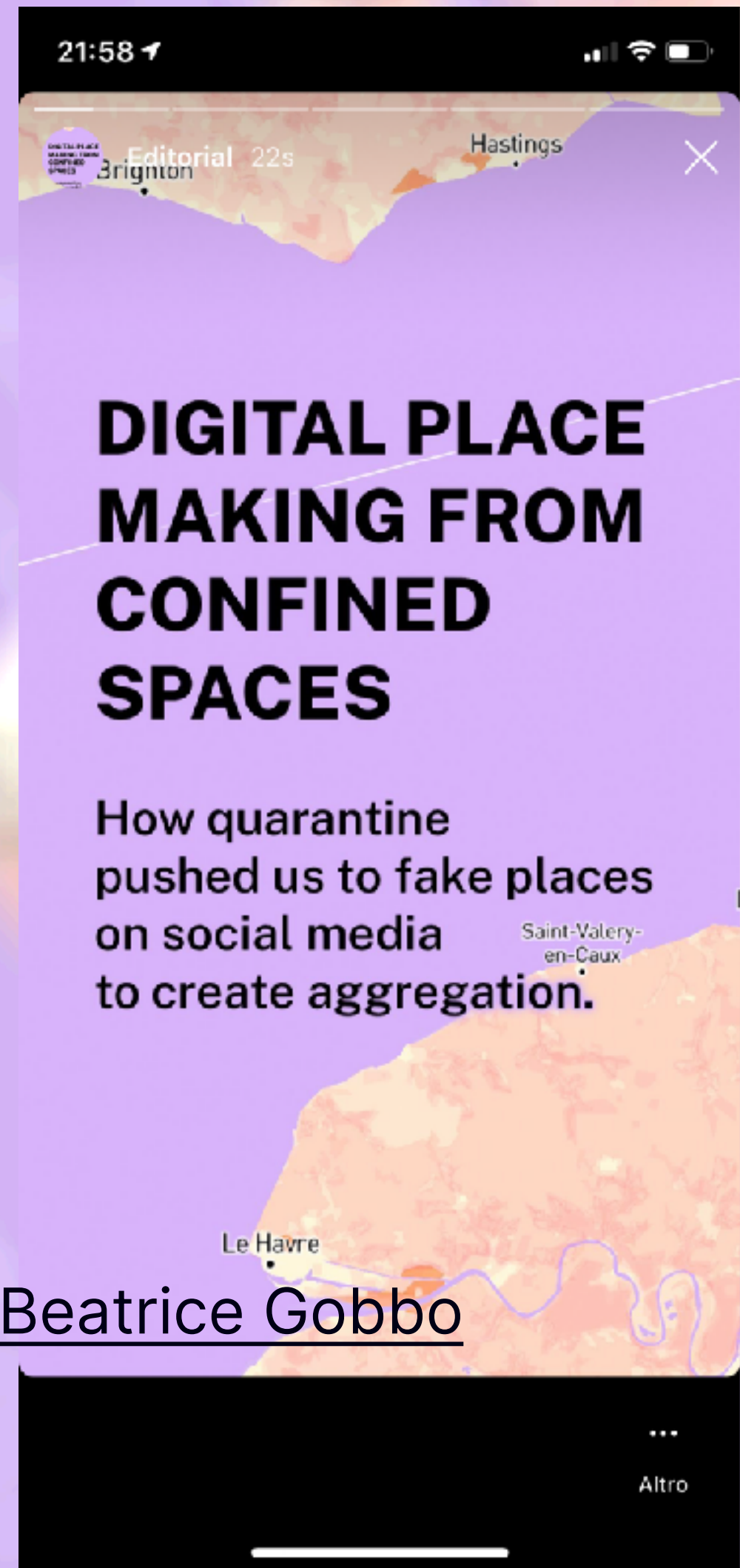


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<https://www.instagram.com/web/search/topsearch/?context=place&query=Quarantine>

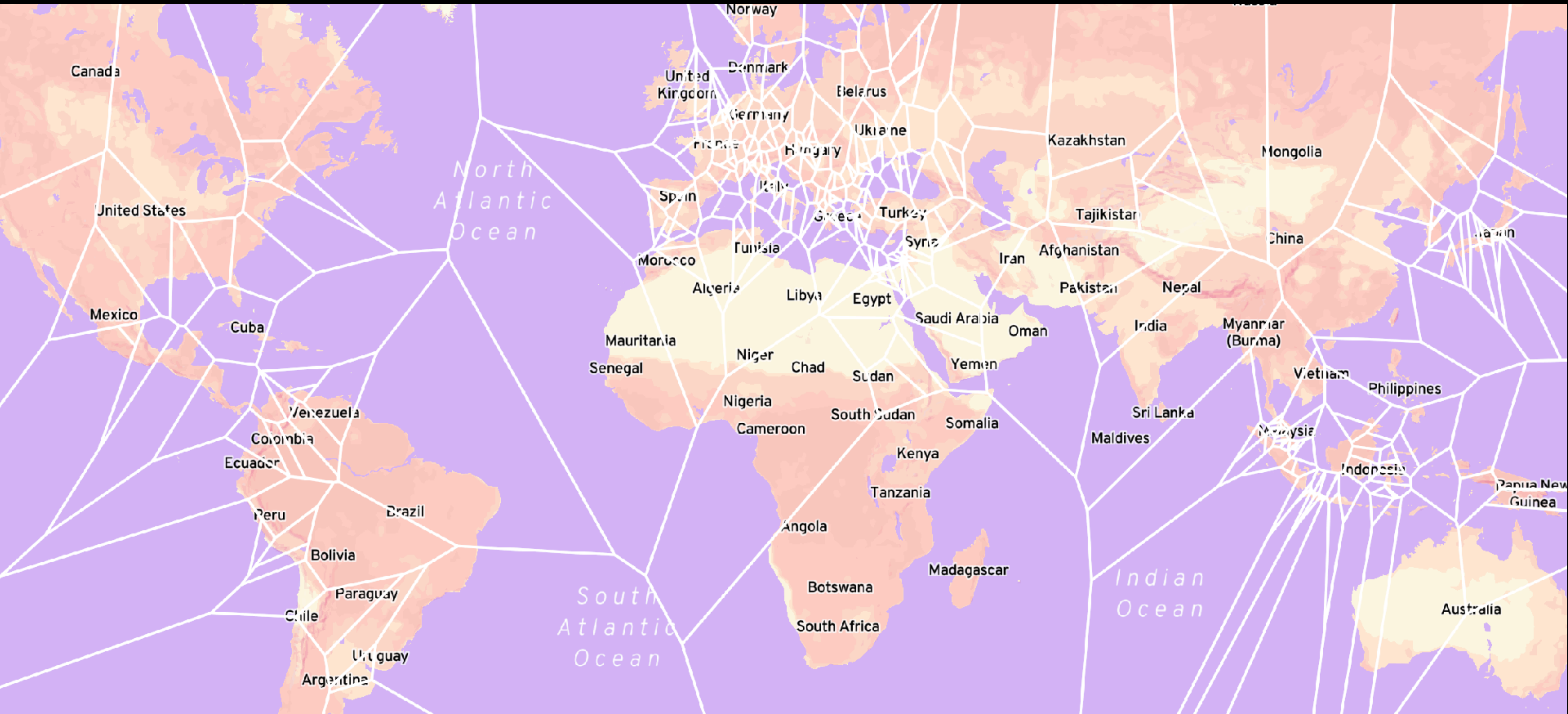
852 luoghi





by Andrea Benedetti, Giacomo Flaim, Beatrice Gobbo







12:28

4G

quaran.tile 9+



15  
post

75  
follower

7  
seguiti

**Quarantile**

A collection of fake Quarantine places on Instagram

Visualizza traduzione

Modifica il profilo

Promozioni



Nuova

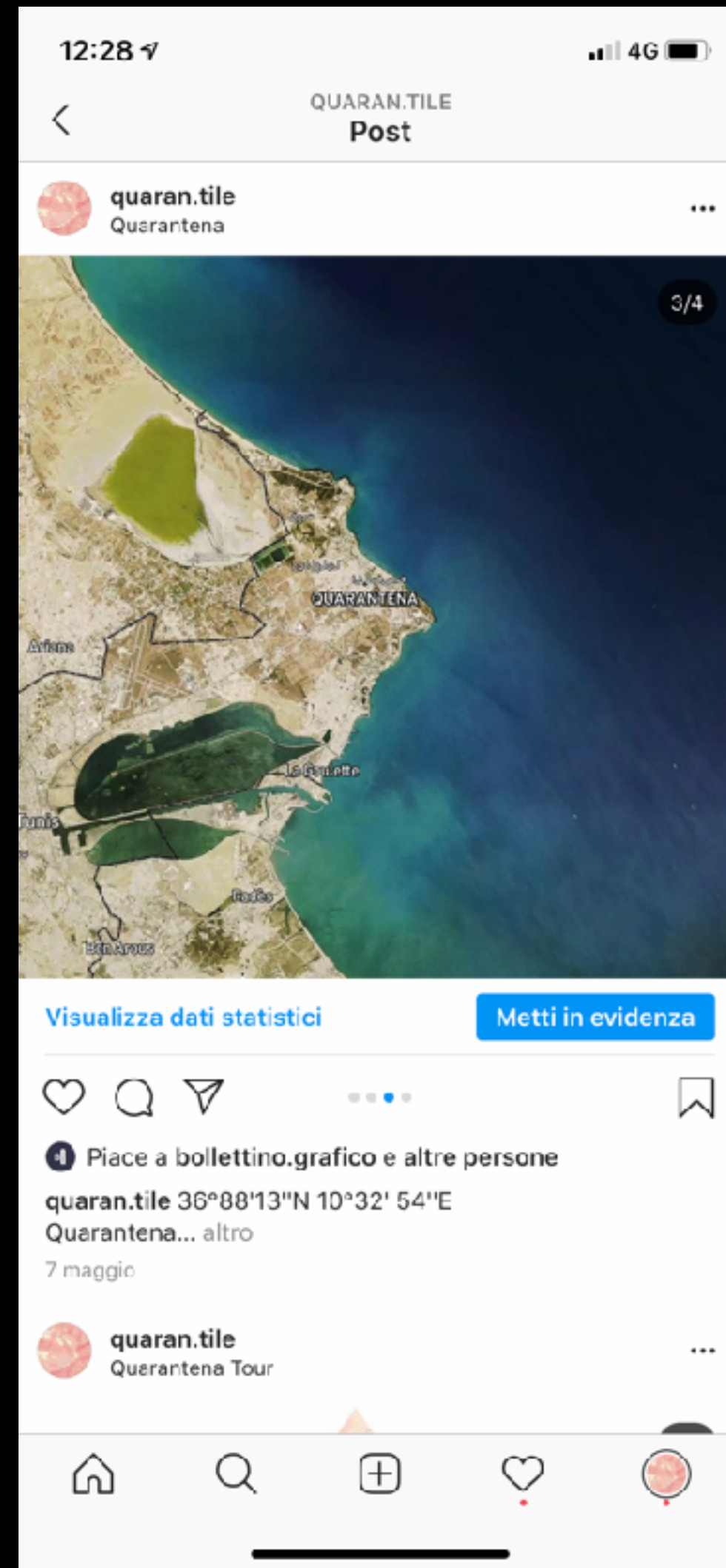


Tiles expla...



Editorial















# Parco della Quarantena

40.8296, 14.05007





# Quarantine & Chill

-33.8696, 151.20691



Google

© Google



# Papa en Quarantaine sans ses enfants

49.72688754, 3.4681402



Google

© Google



1. L'avvento del digitale ha semplificato la creazione di luoghi ambigui
2. Ambiguità determinata dalla tecnologia o dall'attività della community



1. Cosa comporta la libertà di poter creare luoghi anche se non esistono?
2. Come raccogliamo i dati? Come li comunichiamo?
3. Come cambia il ruolo del designer?



# Grazie

*Andrea Benedetti, Beatrice Gobbo*

[www.densitydesign.org](http://www.densitydesign.org)

D E N -  
S I T Y  
G N +

Design of the new extended relations | 06/10/2020