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# ENABLING COMMUNICATION IN TIMES OF DISASTER







*“Open Garden may have found the next version of the Internet.”*

FINANCIAL TIMES



*“FireChat is quite possibly the most important thing to happen to the Internet since 1995.”*

**TIME**



**Winner Innovation Award**

**SXSW**  
*USA, March 2015*



**Winner Boldness in Business**

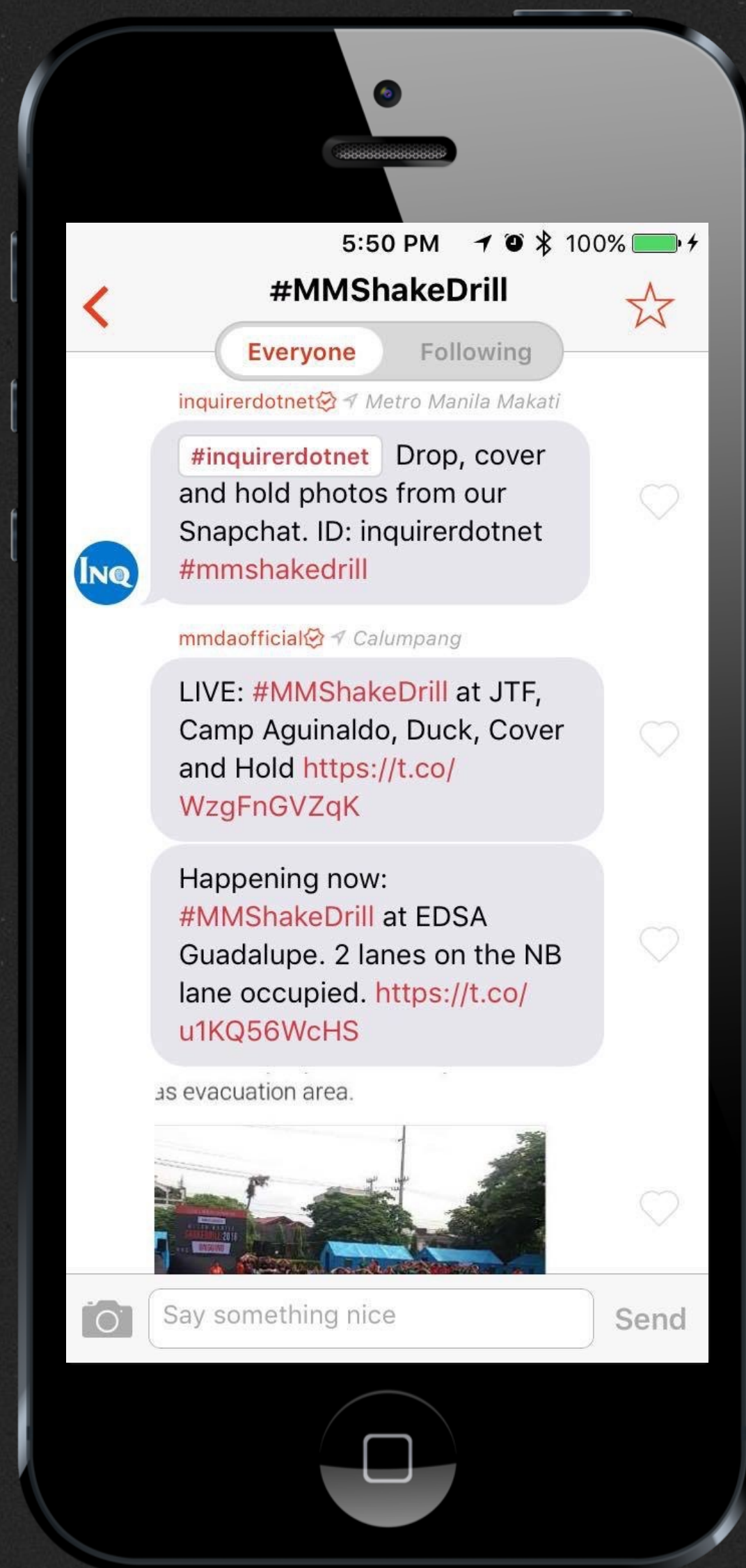
**Financial Times**  
*London, March 2015*



**Tech 4 Resilience**

**Making All Voices Count**  
*Manila, July 2015*



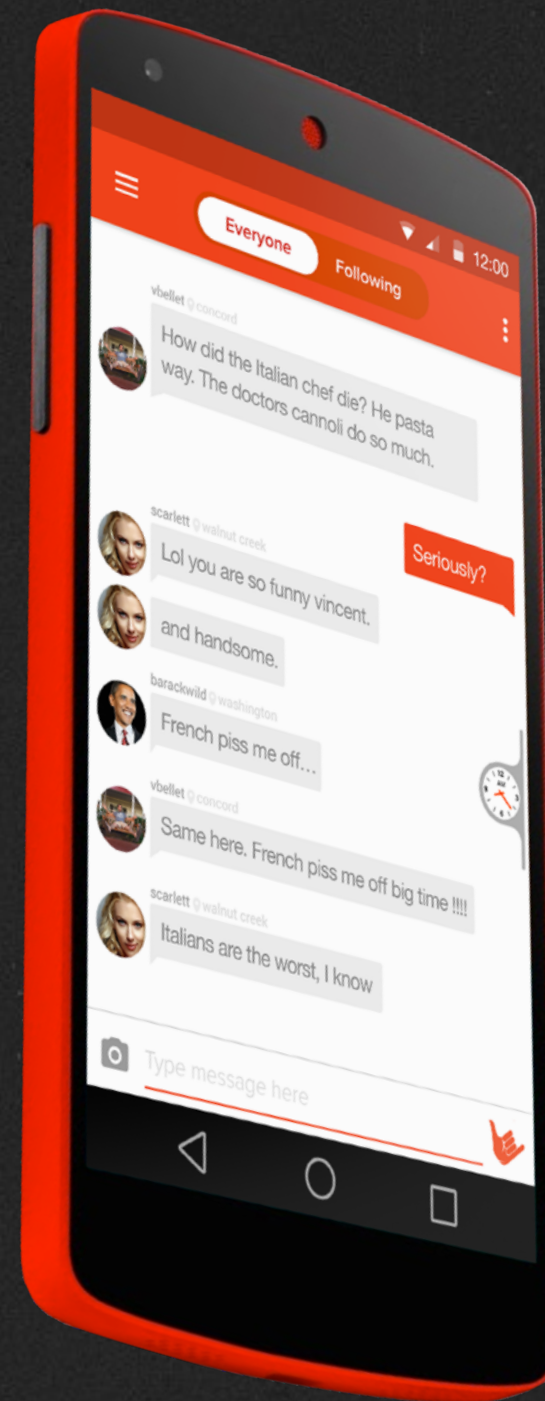


Disaster-proof free mobile messaging  
Works without signal, load  
or Internet connection





Uses radios already in our smartphones to connect devices with one another.

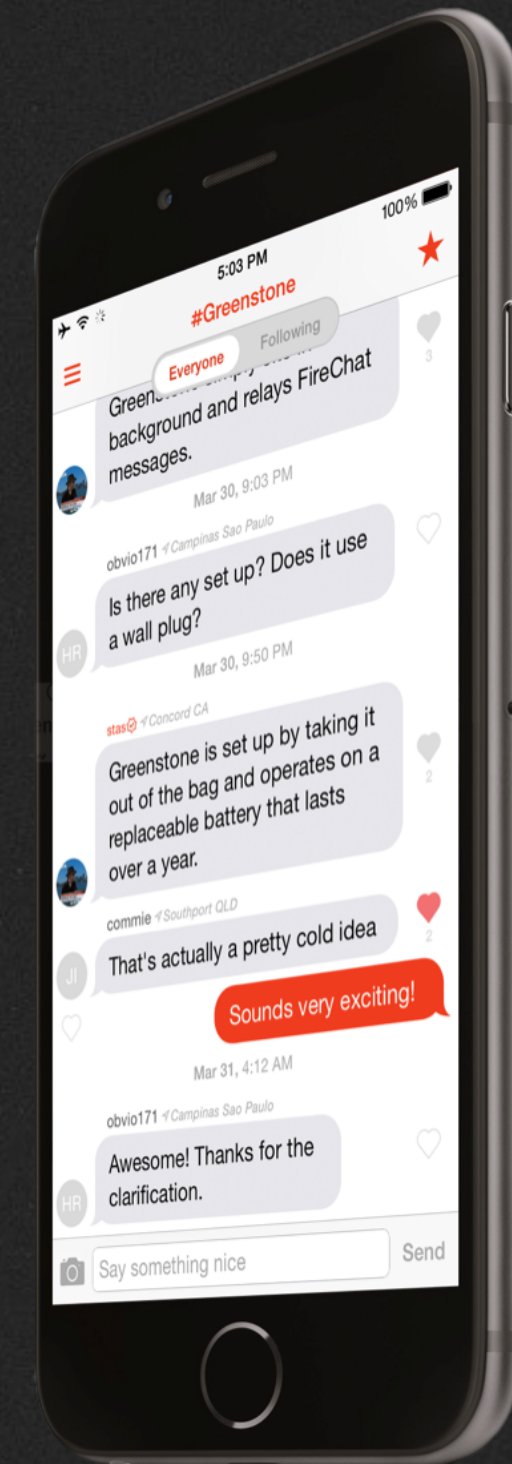


LTE Direct 500m (1,000mW)

Wi-Fi Direct, 802.11s,  
AirDrop 100m (350mW)

Bluetooth 100m (50mW)

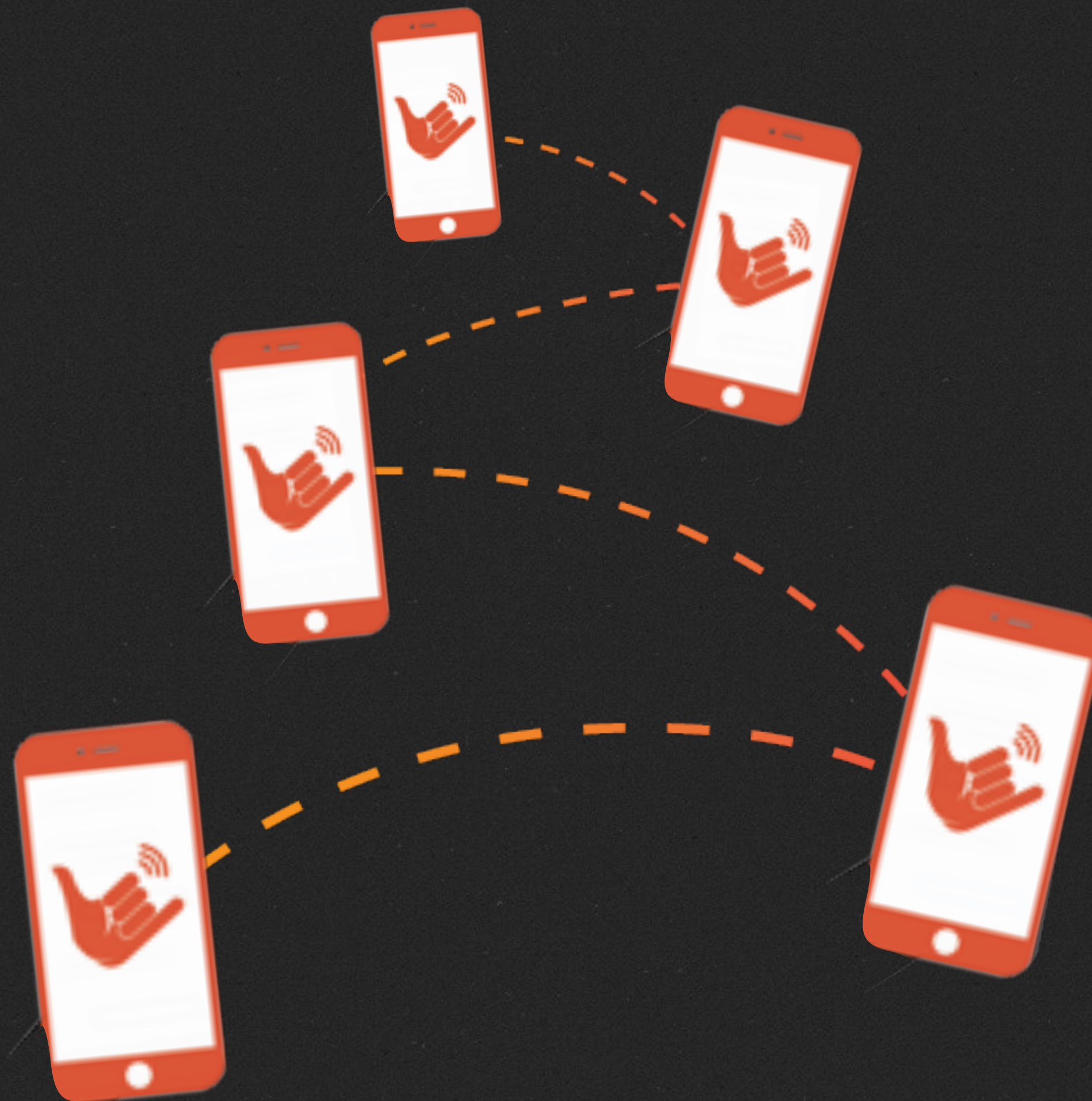
ANT 100m (50mW)



Simply turn your Bluetooth & Wi-Fi on  
even if you are not connected to an Internet connection

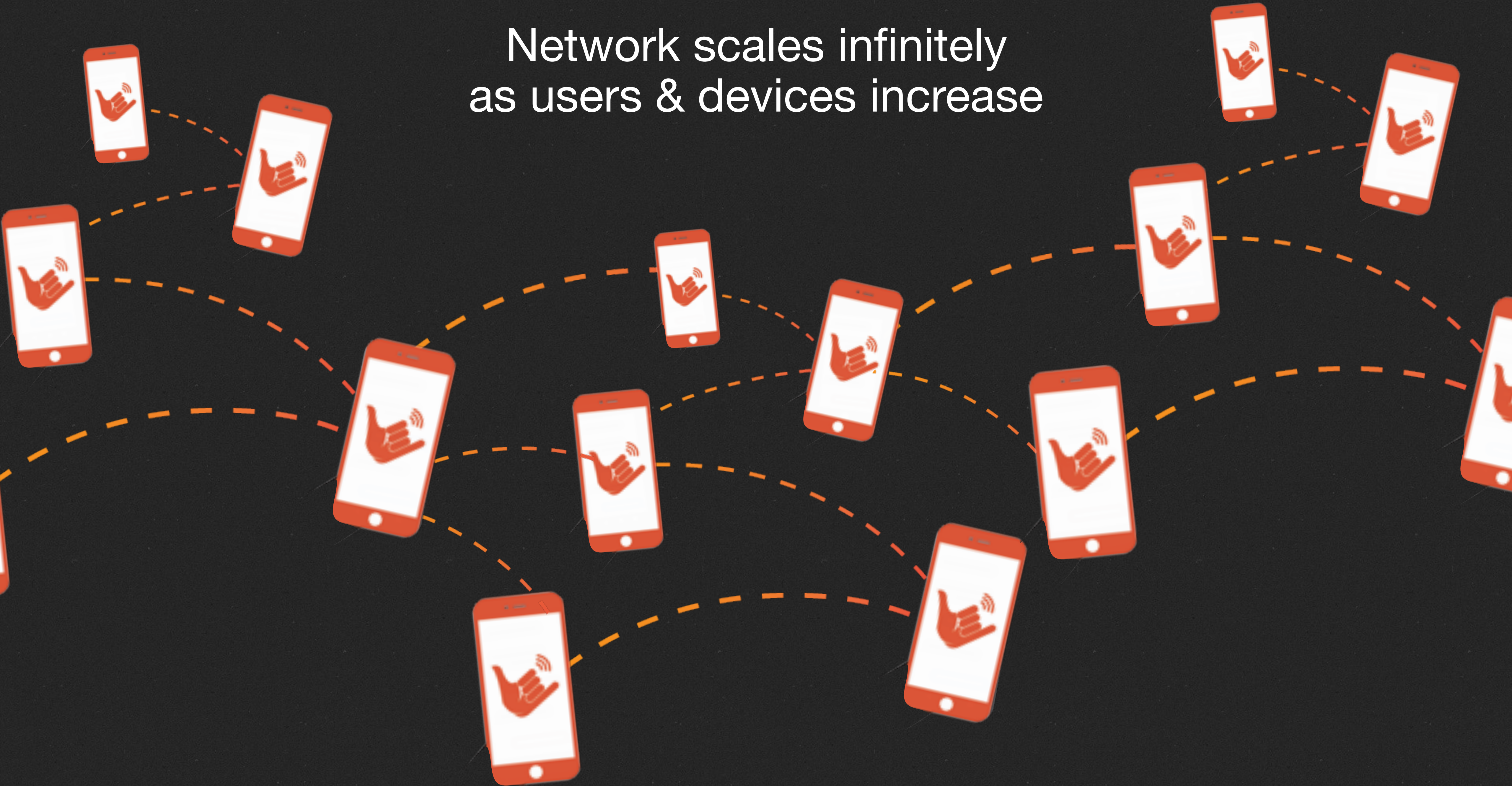


FireChat messages “hop hop hop” from one device to another until they reach their intended recipient



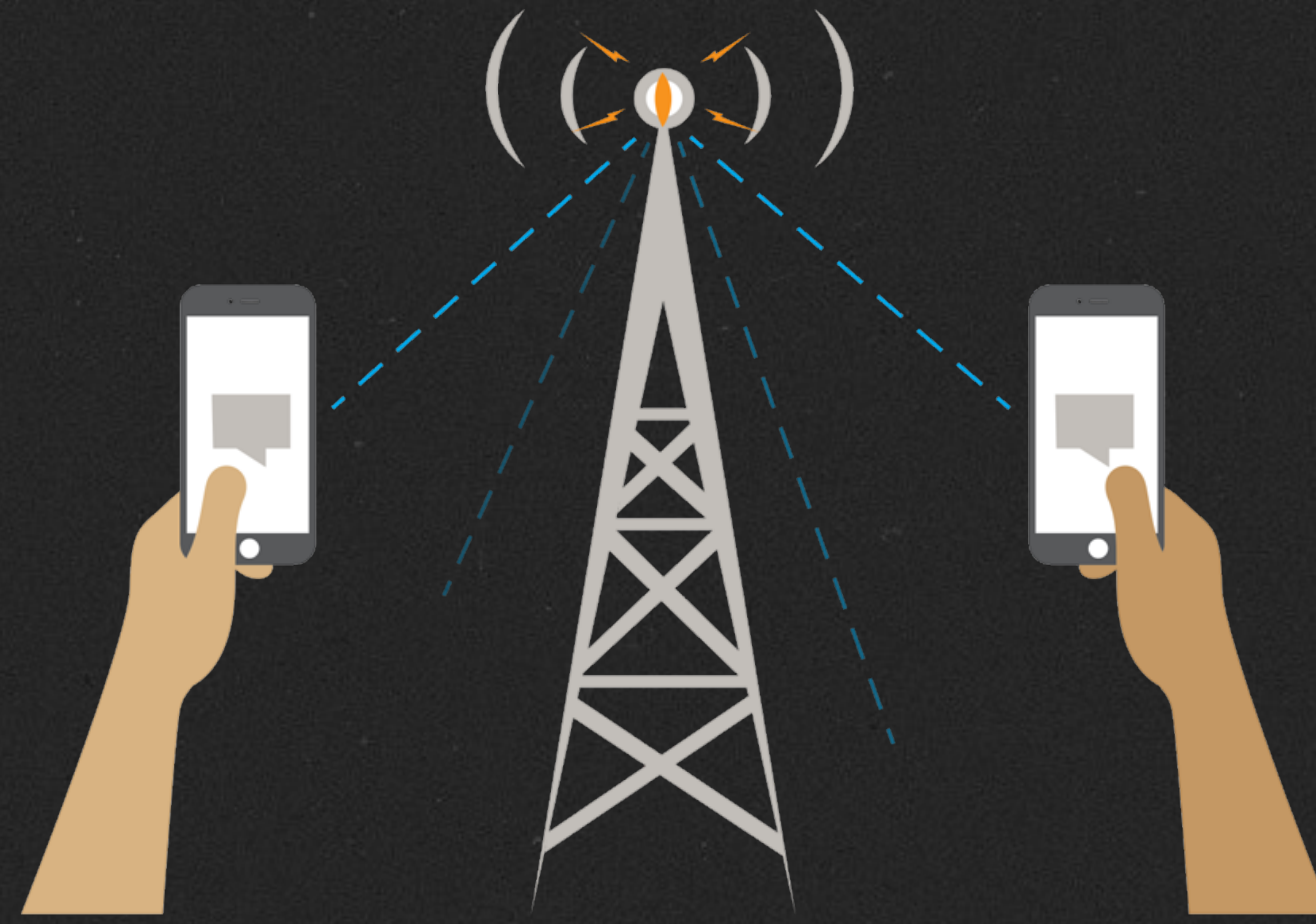


Network scales infinitely  
as users & devices increase

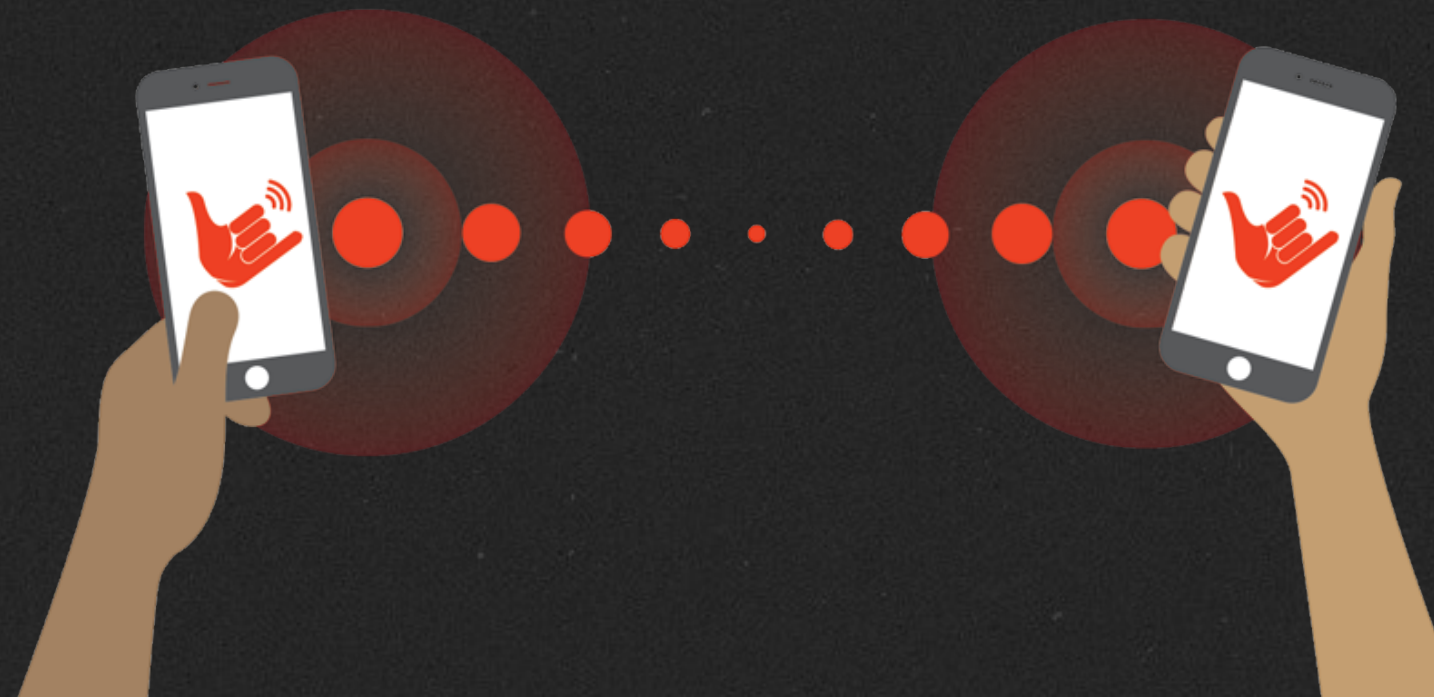




## OLD WAY

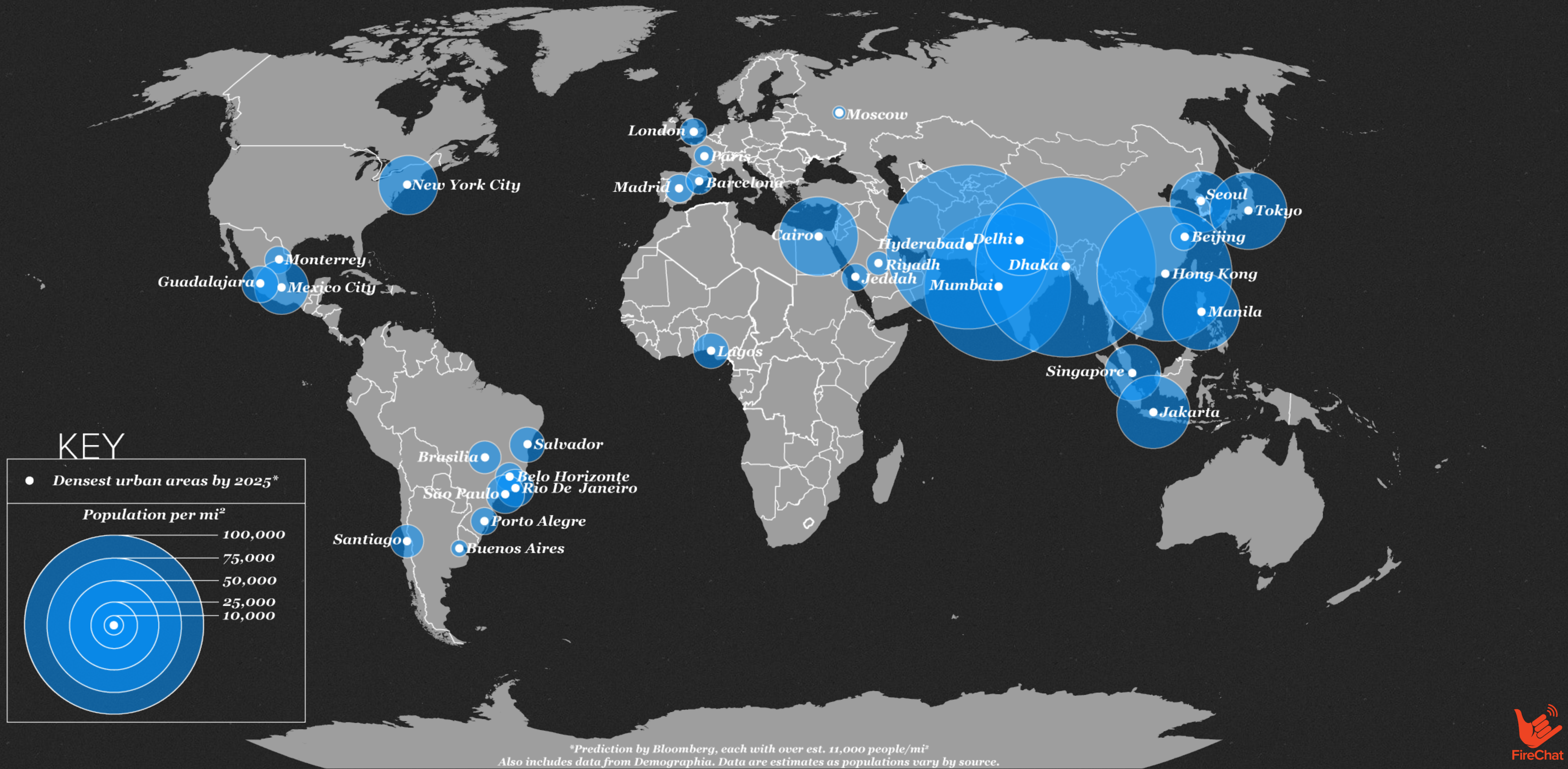


Works even when cellular networks become congested  
& tower infrastructure is damaged in disasters

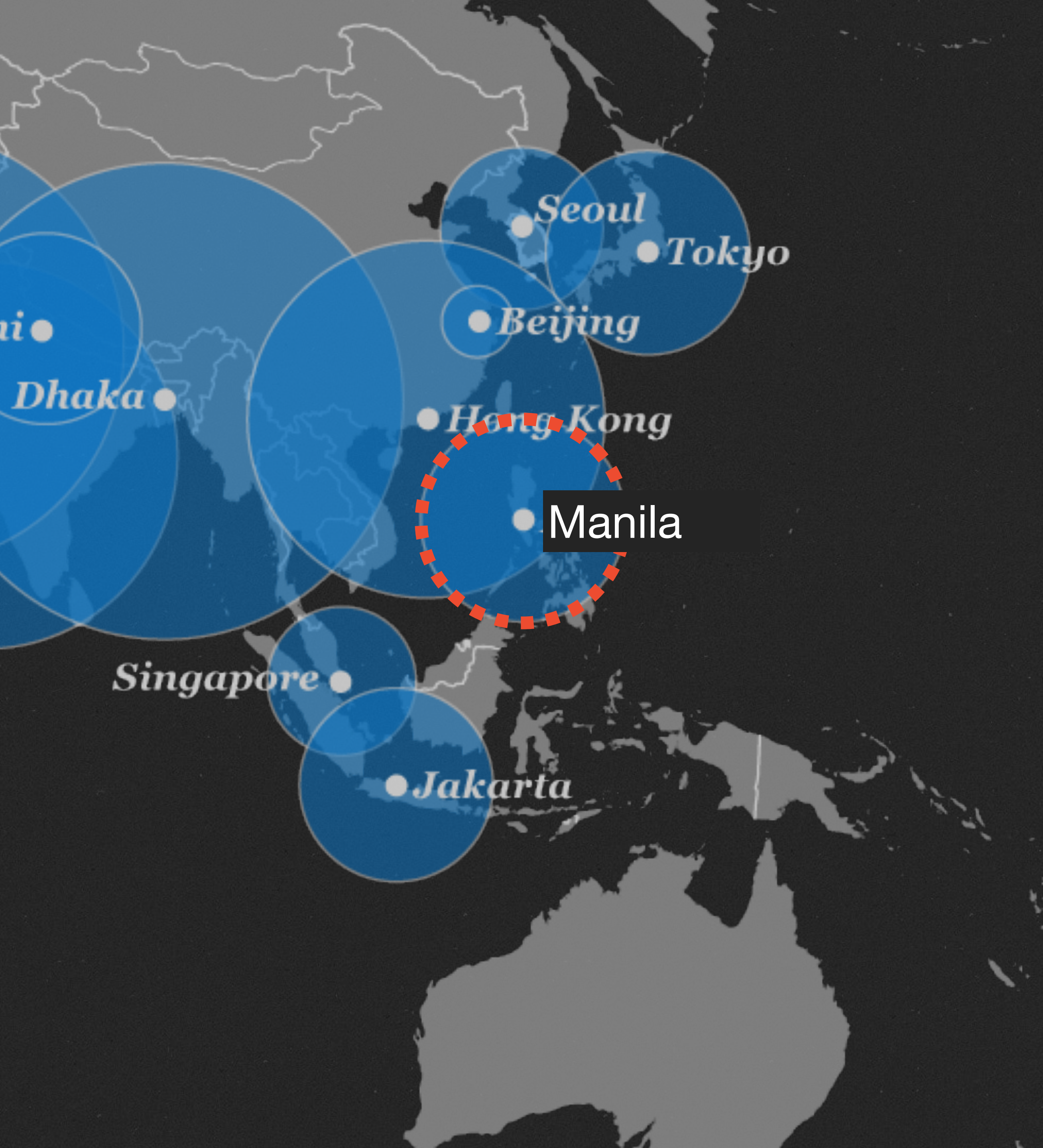




# Density







Our technology leverages the existing and growing density of smartphones in the largest cities in the world



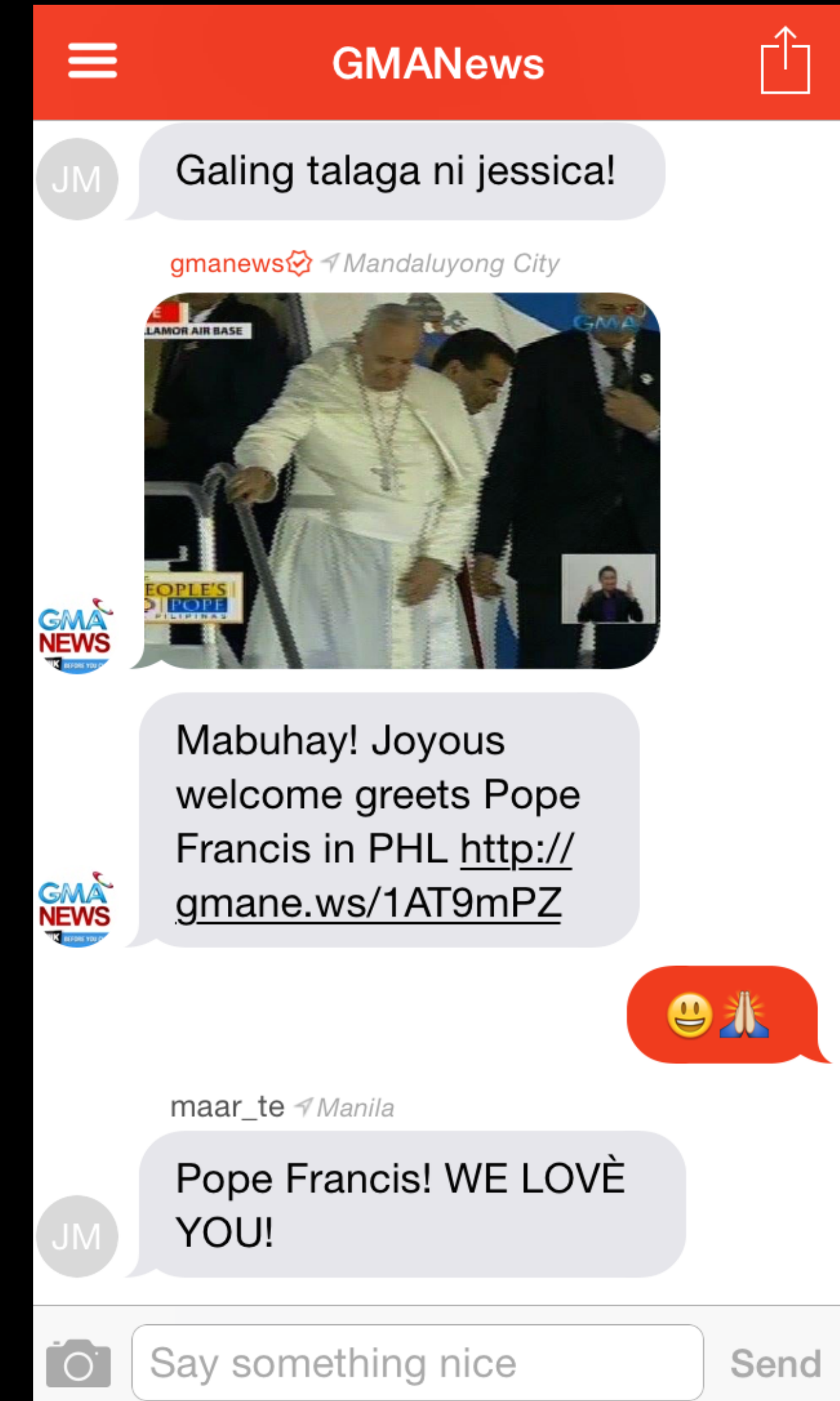
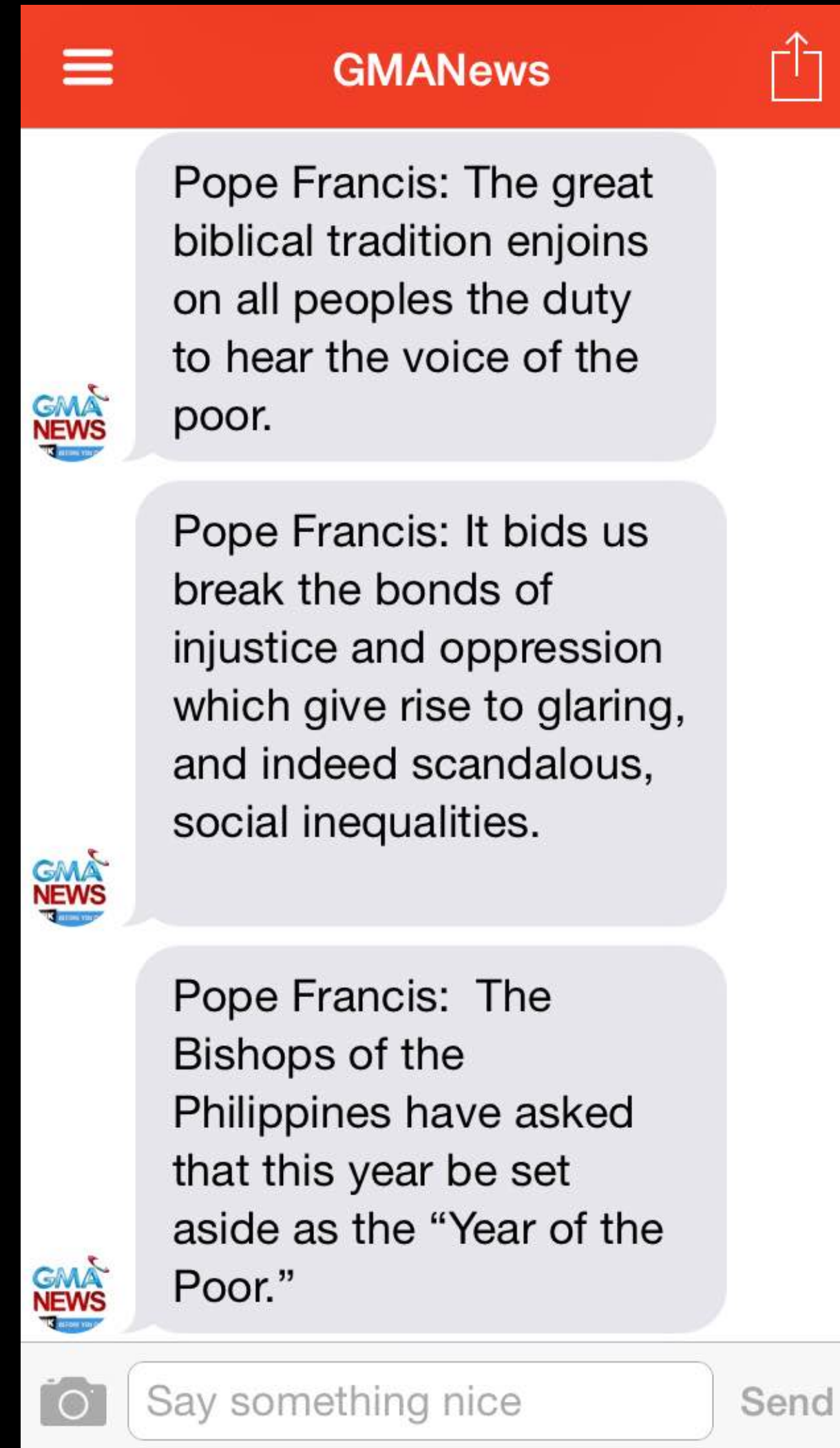
# Manila, Philippines

## January 2015





# Manila, Philippines January 2015








#GMANews

Everyone Following

gmanews Metro Manila Quezon City



Magandang gabi, mga Kapusong Firechatter! Bukas na ang **#Du30saJune30**, anong linya kaya ang tatatak mula sa magiging inauguration speech ni President-elect Duterte?

29 Jun, 8:39 PM

ederic Metro Manila Quezon City

**#GMAnewsfeed** na with Ivan Mayrina sa GMA News Facebook page: <http://>

Say something nice Send

#ABSCBNNews

Everyone Following

Para sa iba pang mga baita, bisitahin ang [news.abs-cbn.com/tvpatrol](http://news.abs-cbn.com/tvpatrol)

Attention, motorists! Expect heavy traffic **tomorrow** (Friday) **from 8 AM to 6 PM** in the following areas:

The IGLESIA NI CRISTO-Metro Manila South Sector will conduct its regular LINGAP PAMAMAHAYAG, June 24, 2016 (Friday), at the Cuneta Astrodome, Pasay City.

Expect heavy traffic 8 a.m. to 6 p.m. in the following areas:

- F.B. Harrison
- EDSA
- Gil Puyat Avenue
- Taft Avenue
- Roxas Boulevard

24 Jun, 12:10 AM

abscbnnews Makati City

Hello, **#everyone**, here's a virtual tour of **#Duterte's** photo exhibit in Davao City <http://bit.ly/28PI7xD>


Say something nice Send

#inquirerdotnet

Everyone Following

mikoinq San Mateo Calabarzon

JUST IN: Bagyong **#ButchoyPH** bumagal pa, habang papalapit ng Taiwan, Signal **#2** itinaas ng Pagasa sa Batanes Group of islands via @dzIQ990 **#WeatherPH** **#Everyone**



HAPPENING NOW: PCOO's Martin Andanar and Palace spokesman Ernie Abella here at Inquirer HQ.

07 Jul, 12:27 PM

Say something nice Send

#Rappler

Everyone Following

11 Sep 2015 9:08 AM

rappler Metro Manila Makati City

**#Sports** Manny Pacquiao: "Mayweather camp used to accused me of using PED. Now, look at what happened. I hope Floyd Mayweather would learn a good lesson out of it." firechat: <http://s.rplr.co/g48yR8T> **#rappler**

26 Sep 2015 9:44 AM

rappler Metro Manila Pasay City

Philippine Social Good Summit happening today at Resorts World Manila

Say something nice Send



# Philippine Elections May 2016

<#Phvote☆

EveryoneFollowing

rappler📍 Metro Manila Pasig City

TOP STORY. Rodrigo Duterte, Bongbong Marcos claim leads in initial election results <http://s.rplr.co/itAoJsU>

♥

We have LIVE election results here: [rappler.com/phvoterresults](http://rappler.com/phvoterresults) :)

♥

10 May, 1:32 AM

rappler📍 Metro Manila Pasig City

Rodrigo Duterte enjoys wide lead; Bongbong Marcos, Leni Robredo neck and neck <http://s.rplr.co/itAoJsU>

♥

10 May, 3:59 AM

rappler📍 Metro Manila Pasig City

Rodrigo Duterte enjoys wide lead; Leni Robredo edges ahead of Bongbong Marcos

♥

📷 Say something nice

Send

<#Dapattama★

EveryoneFollowing

#Eleksyon2016 will be available on GMA News Online on Monday shortly after the close of poll precincts. <http://gmane.ws/1NnXShA>

♥

GMA NEWS

firechatph📍 Makati City

#GMANews Thank you #GMANews #DapatTama. Awaiting your news. 🇵🇭🇵🇭🇵🇭

♥ 2

09 May, 5:30 PM

gmanews📍 Metro Manila Quezon City

Bookmark this page for partial, unofficial results of #Eleksyon2016 <http://gmane.ws/1VQ8zMI>

♥

GMA NEWS

paomello📍 Makati City

Thanks for the info GMA news. Its gonna be a long night

♥

PF

📷 Say something nice

Send

< Back#PiliPinas2016☆

EveryoneFollowing

inquirerdotnet📍 Imus Calabarzon

#inquirerdotnet ELECTION DAY! Today's Inquirer front page. Full issue shortly 📰📱 <http://inq.ph/inqplus>

♥

#VotePH #VotePH2016 #PiliPinas2016

Inquirer

**Duterte man to beat**  
Noy tells voters: I can't fight his alone  
'Forget rights; I'll butcher criminals'

♥

09 May, 6:17 AM

inquirerdotnet📍 Makati City

#inquirerdotnet BREAKING: Power outage hits part of Olongapo City minutes before

♥

📷 Say something nice

Send



*“Information in times of disaster  
is becoming as important as  
food and shelter”*



# Kashmir, India

## April 2015





# Kashmir, India

## April 2015

#KashmirFloods

Everyone

Following

Plz update current situation

One house collapsed in Downtown area.

taufiqusf *Pulwama Kashmir*

When?

sjunii *Gāndarbal Kashmir*

#KashmirDispatch:  
#Kashmir:Forecast  
Meteogram for 'Srinagar'  
<http://t.co/QJEJMloHst>  
#Kashmirfloods

02 Apr, 10:54 am

sjunii *Gāndarbal Kashmir*

#KashmirDispatch:  
#Kashmir: Health  
advisory for prevention of

Say something nice

Send

#KashmirFloods

Everyone

Following

Ram Munshibagh 14.70 feet - 0.10  
Asham 11.16 feet - 0.09

so thats good news despite continous rainfall since morning

umers1 *Hayil Hā'il*

What is the update of srinagar city

unlockh *Srinagar Kashmir*

#KashmirDispatch: Flood threat haunts #Kashmir, Met says next 24 hrs 'crucial' <http://t.co/VWLzeJfyID>  
#Kashmirfloods  
#KashmirDispatch

Say something nice

Send

#KashmirFloods

Everyone

Following

koshuer *Srinagar Kashmir*

Zone b flood evacuation plan

Also sharing Zone A

waseemr *Srinagar Kashmir*

It will rain through out night.MET

01 Apr, 10:00 pm

PRE FLOOD EVACUATION PLAN					
Lal Chowk And Adjoining Areas					
ZONE	AREAS	EVACUATION POINT	OFFICER IN-CHARGE	CONTACT	RELIEF CAMP LOCATION
ZONE A	1. Maisuma 2. Gow Kadal	Red Cross Road	SI Abbas Ahmad SI Gh Ali	9797191959 9906477976	Community H Maisuma
	1. Koker Bazar 2. Court Road 3. Shiekh Bagh	Paladium Chowk	ASI Siraj U Din HC M Akbar HC M Akram	9796924468 9469401823 9797732221	Community Facilitation Centre Bagwan
	1. Abi Guzar 2. Samander Bagh	Press Colony	HC Ab Gani HC Gurmeet Singh	9906517376 9419741684	Community Facilitation Centre Bagwan
	1. Peerzu 2. Chinar Bagh	SK Park GPO	HC Firdous Ahmad SI Majid	9419474577 9796346106	Community H Basant Bagh

Transportation facilities will be available at the respective evacuation points as well as lodging facility will be provided at relief camps.

District Administration Srin

And C & D

PRE FLOOD EVACUATION PLAN					
Karan Nagar   Sarla Bala   Tengpora					

Say something nice

Send



# Chennai, India

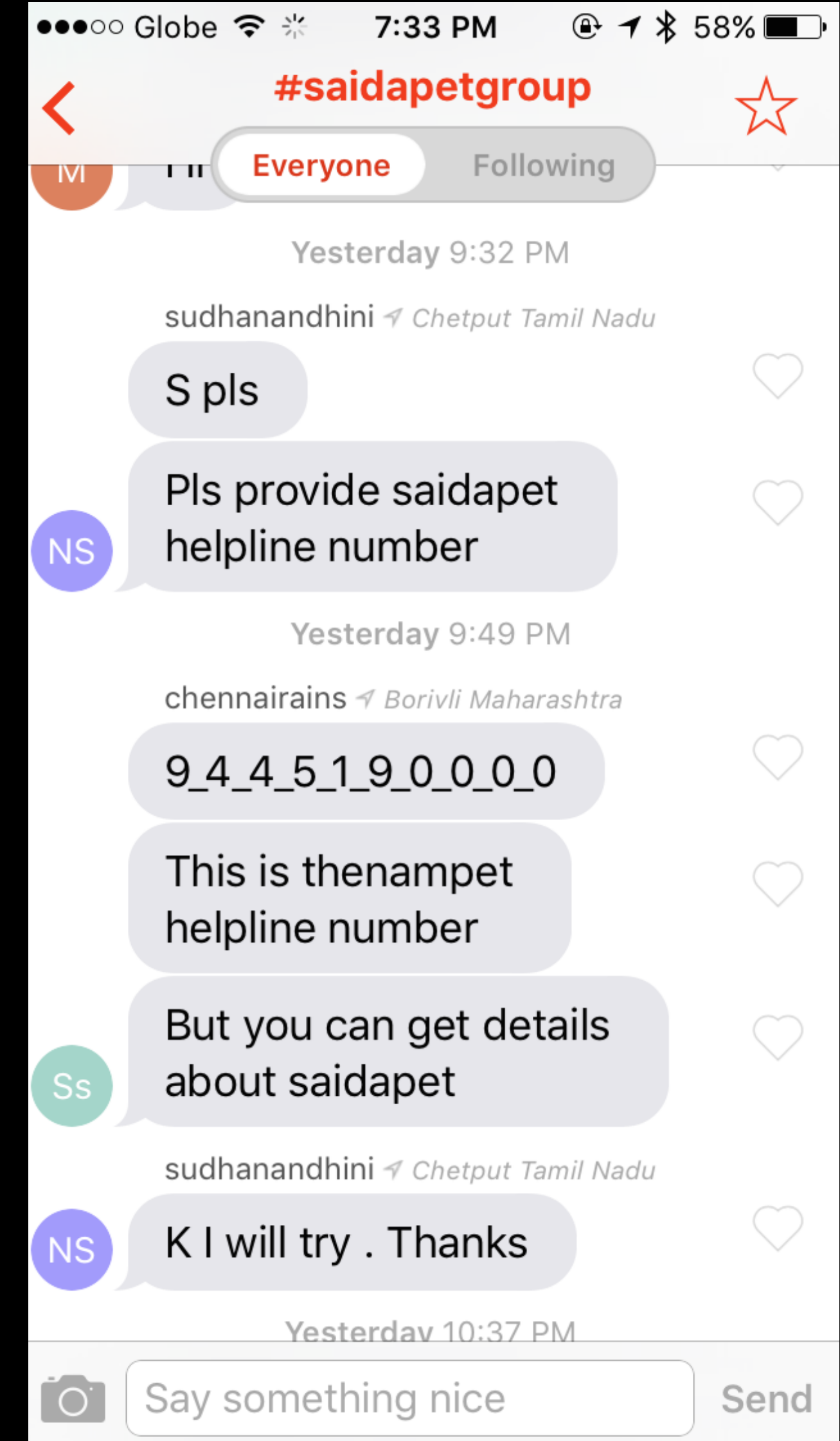
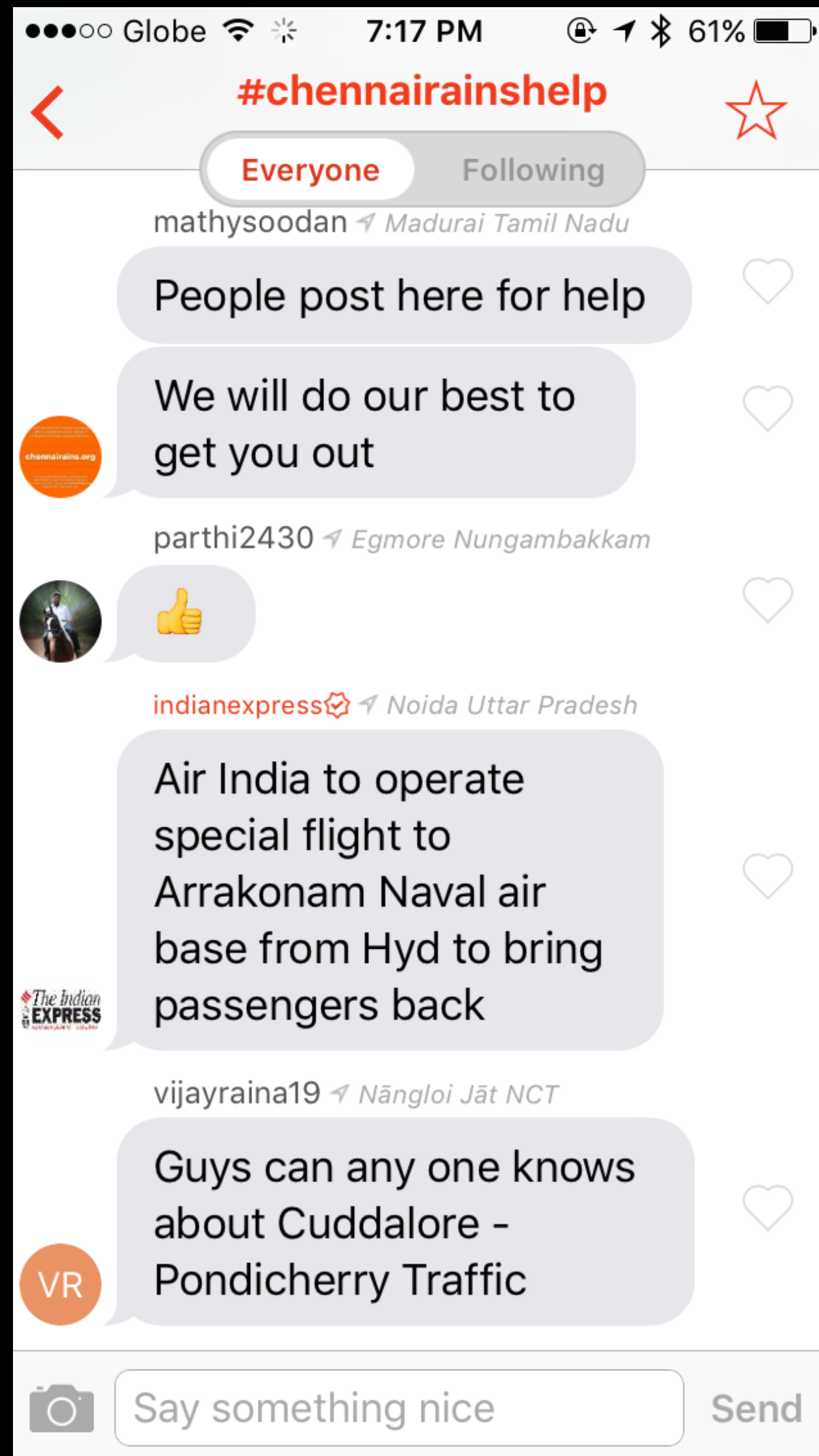
## December 2015





# Chennai, India

## December 2015





# Typhoon Watch, Philippines 2015-2016

#ChedengPH

EveryoneFollowing

http://rplr.co/1lykmol

#ChedengPH

Rappler

05 Apr, 5:10 am

stacydejesus Makati City

#ChedengPH storm signal no. 1, as of 5am, April 5: Luzon- Isabela, Aurora, Quirino, and Polillo Island. Rappler

05 Apr, 5:21 am

stacydejesus Makati City

Public Storm Warning Signals as of April 5, 2015, 5am

Signal No. 1

30-60 kmph winds

Signal No. 2

61-100 kmph winds

Signal No. 3

101-185 kmph winds

Signal No. 4

186+ kmph winds

05 Apr 7:38 am

Say something nice

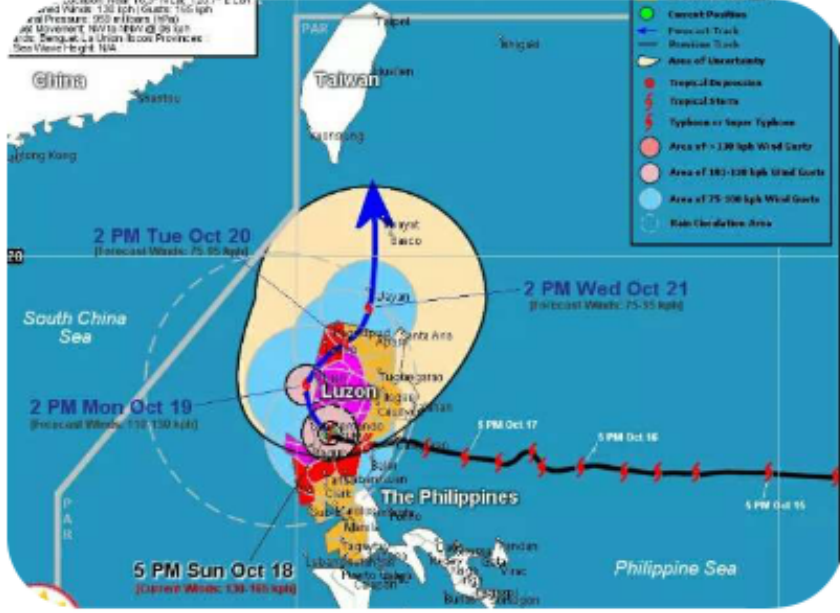
Send

#LandoPH

EveryoneFollowing

updates

ichimoku Boroon Northern Mindanao



#LandoPH

#Inquirerdotnet

10:45 pm

ichimoku Boroon Northern Mindanao

Raining strong now 10:45pm in Taguig area. #LandoPH #Inquirerdotnet

Say something nice

Send

#Marikina

EveryoneFollowing

inside\_marikina Philippines

2:31 pm

As per EPD-PIO, not passable na daw po yung ilalim ng marikina bridge (sa likod ng LTO)

jolina17 Antipolo

Walang pasok

marikinapio Metro Manila Marikina City

OFFICIAL WATER LEVEL MONITORING

1ST ALARM	ALERT
INUTE CONTINUOUS AIRING	15 METERS WATER LEVEL
2ND ALARM	PREPARE TO EVACUATE
MINUTES INTERMITTENT AIRING	16 METERS WATER LEVEL
3RD ALARM	EVACUATE TO DESIGNATED CENTERS
NUTES CONTINUOUS AIRING	17 METERS WATER LEVEL
4TH ALARM	FORCED EVACUATION
NUTES CONTINUOUS AIRING	18 METERS WATER LEVEL & ABOVE

NOTE: IN SEVERE WEATHER CONDITION, ALARM ACTIVATION MAY VARY FOR PRE-EMPTIVE ACTION.

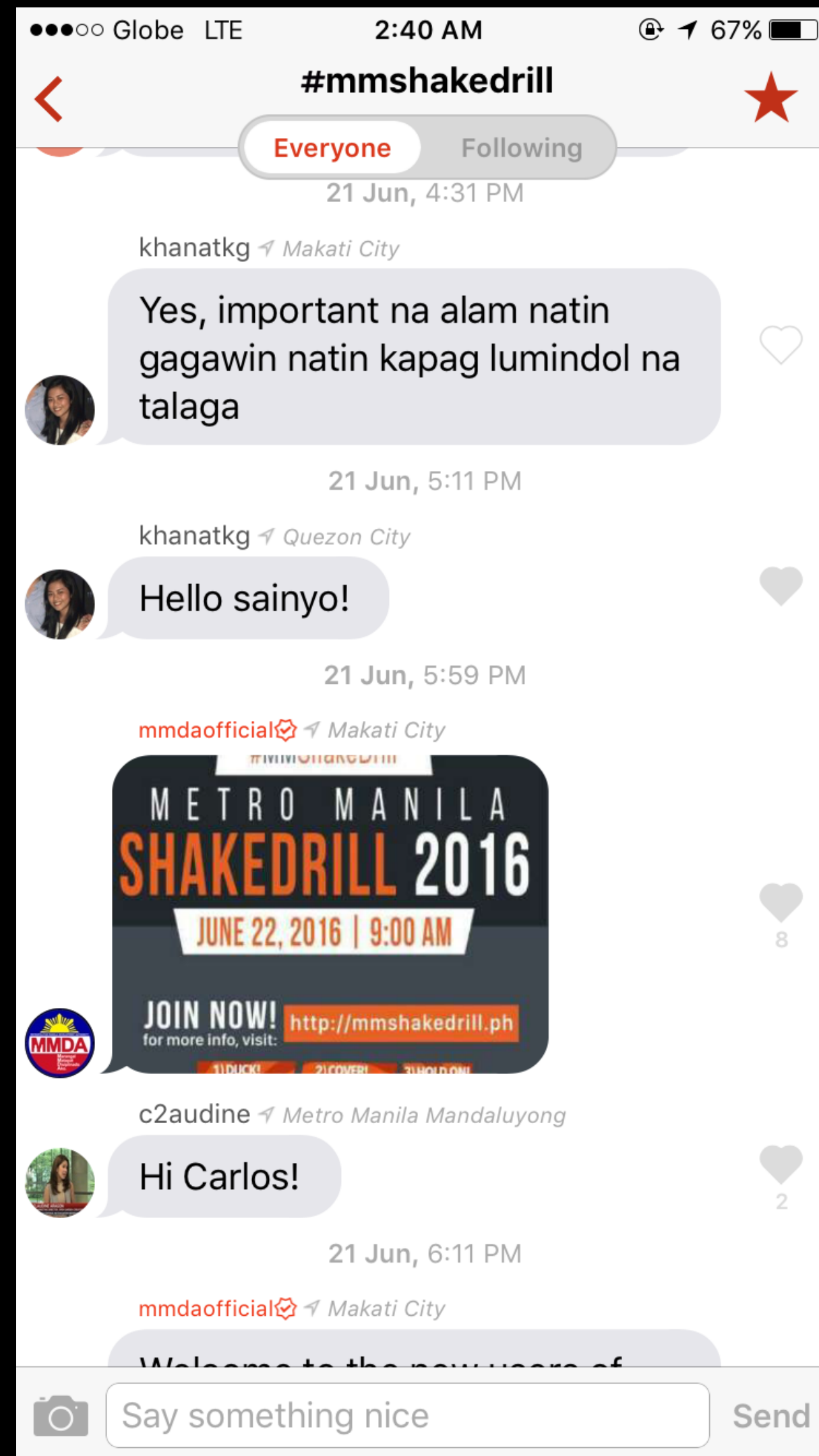
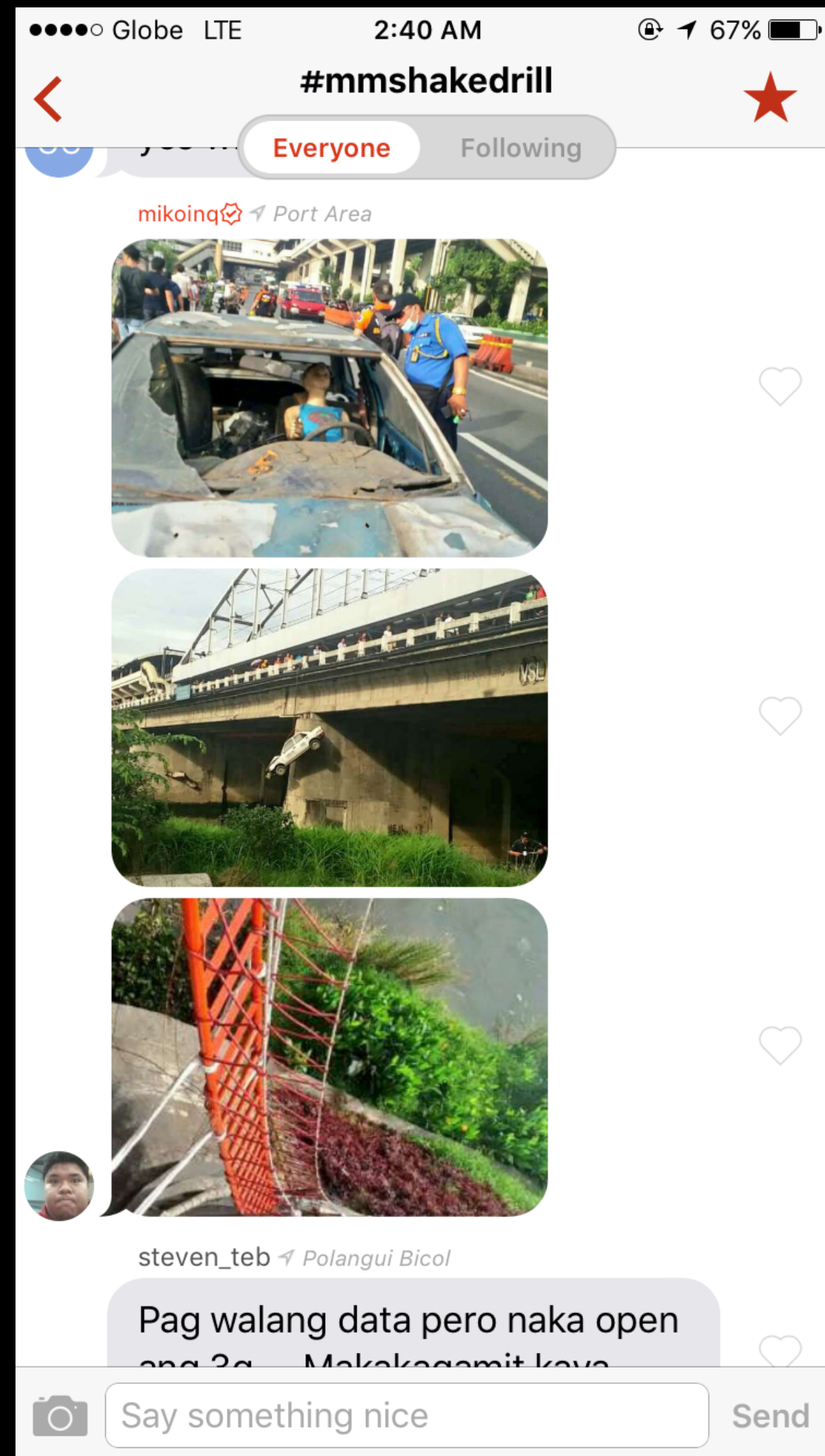
Say something nice

Send



# #MMShakeDrill

## June 2016





# FireChat Alerts Resilient “one to very-many” broadcasting



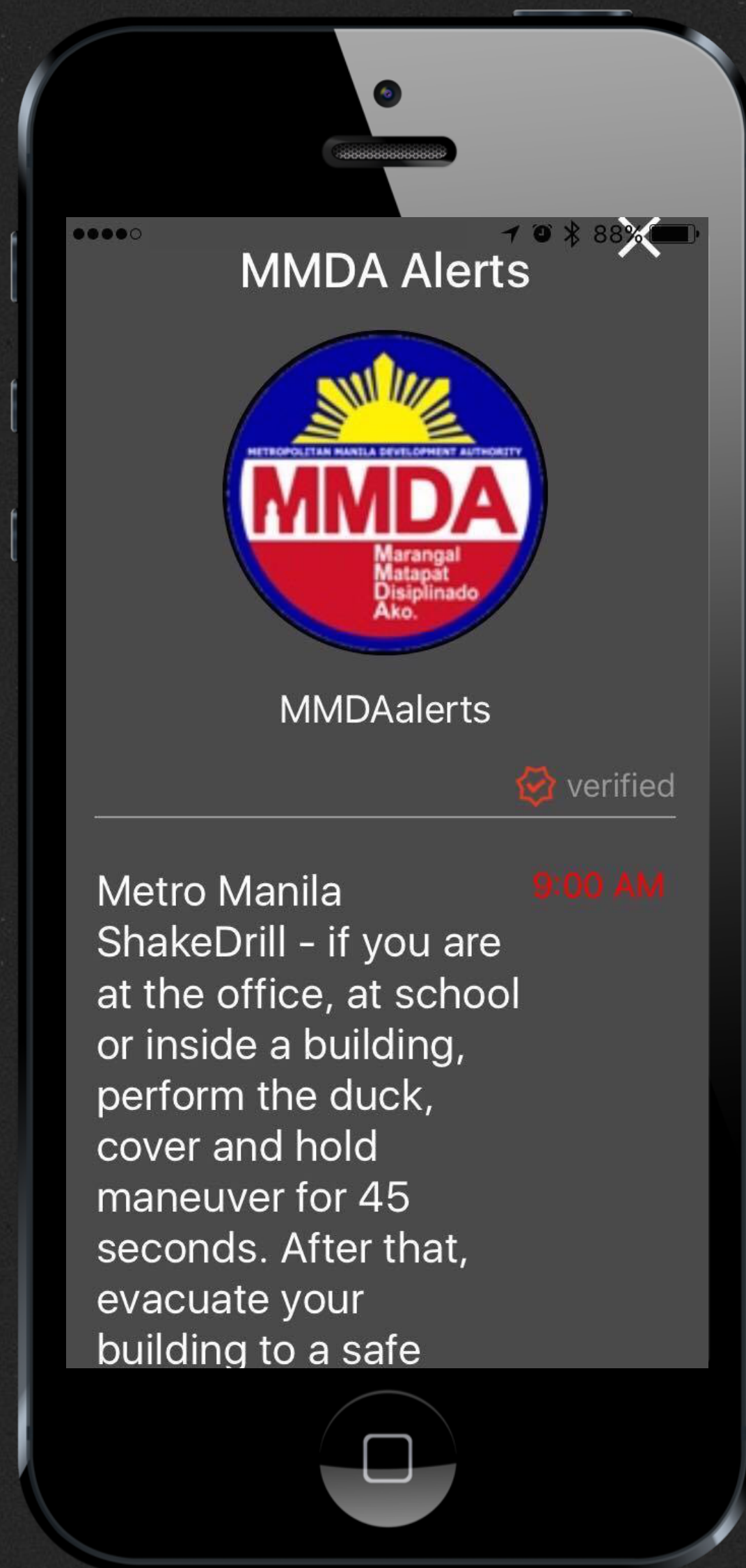
- ✓ *Works offline*
- ✓ *Broader reach*
- ✓ *Cheaper than SMS*
- ✓ *100% software*
- ✓ *Easy to deploy*
- ✓ *Scales infinitely*





[watch video >](#)






The Metropolitan Manila Development Authority is the first organisation in the world to use mobile peer-to-peer technology for disaster preparedness



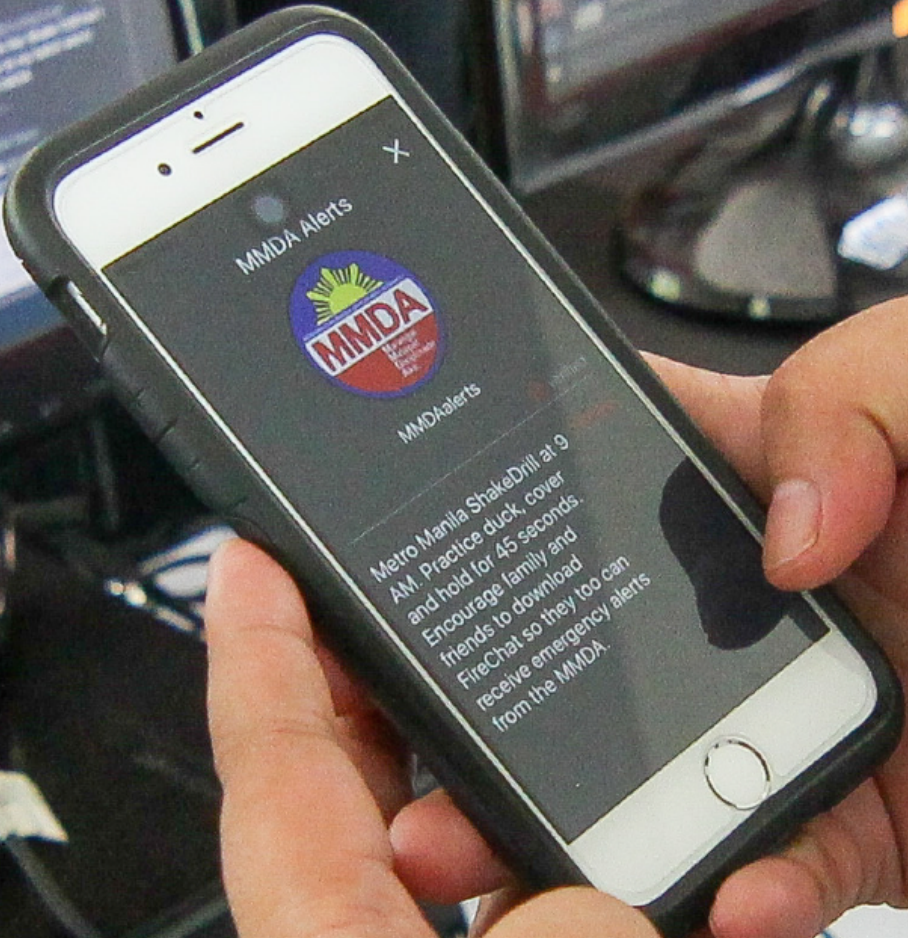
+ Create a new alert

Philippines > Metro Manila Sent at 10:34 AM

The Metro Manila ShakeDrill has ended. Follow @MMDAofficial on FireChat to stay updated and share your experience at #MMShakeDrill. Visit <http://mmshakedrill.ph> for more information on how to prepare your family.

Still active 











# Top App & trending search

## 150,000 people joined the citizen network during the week of the #MMShakeDrill

Categories Top Charts

Paid Free Top Grossing

-  **FireChat**  
Social Networking  
★★★★☆ (9) **+ OPEN**
-  **Messenger**  
Social Networking  
★★★★☆ (120) **+ UPDATE**
-  **Snapchat**  
Photo & Video  
★★★★☆ (37) **GET**
-  **Facebook**  
Social Networking  
★★★★☆ (139) **+ OPEN**

Search

### Trending Searches

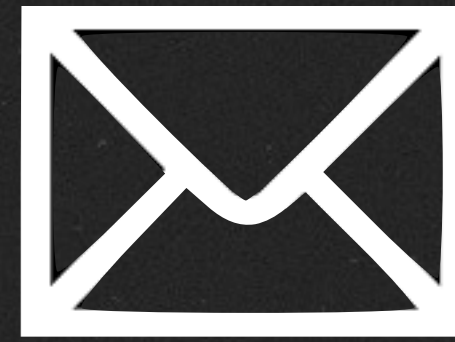
- firechat
- fire chat
- espn
- picsart
- edmodo
- blink
- blued
- iwantv





[watch video >](#)





claudine@opengarden.com

