Leveraging Facebook data for social good

Providing Value and Protecting Personal Information December 2018

Laura McGorman, Facebook Data Leadership





1876

1981

2007

"This 'telephone' has too ma ny shortcomings to be seriousl y considered as a means of co mmunication."

— William Orton, President of Western Union

"Cellular phones will absolutely not replace local wire systems."

- Marty Cooper, inventor

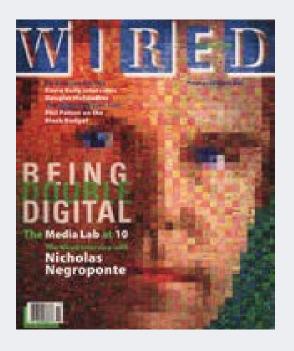
"There's no chance that the iPhone is going to get any si gnificant market share."

- Steve Ballmer, Microsoft CEO.





Nicholas Negroponte, director of the MIT Media Lab, predict s that we'll soon buy books and newspapers straight over th e Internet. Uh, sure.



"Most things that succeed don't require retraining 250 mi llion people."





Early questions

- Can Facebook help fill critical data gaps during the first hours of a crisis?
- How do we transmit this information to the right people at the right time while preserving privacy?

Filling data gaps

- Location: Where are people located during the crisis compared to where we expect them to be?
- Connectivity: Where do people have access to network coverage?
- Power availability: Where are people able to charge their phones and access power?
- Safety Check: Where are people checking in safe? Where are they not?
- Long Term Displacement: How long after a crisis are people still not able to return home?

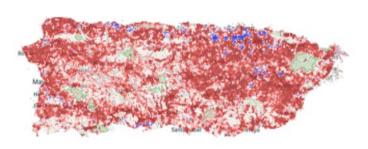
Privacy preserving approach

- We share data in a privacy preserving way
 - Focus on aggregation and smoothing
 - Ex. Disaster maps relies on aggregated and smoothed data across very large (360K m^2) tiles, roughly equivalent to the size of neighborhoods
- Co-development with partners we trust
 - We make data-driven products that provide insights, don't passively hand over data





May 1975



2 DAYS BEFORE MARIA September 4, 2017

3 WEEKS AFTER MARIA September 28, 2017

8 WEEKS AFTER MARIA October 24, 2017

Baseline

Significantly low Facebook usage in most areas

Facebook usage recovering to normal in pockets

FB & the American Red Cross



FB & NetHope



- Puerto Rico Facebook page to provide affected communities in Puerto Rico Within two weeks after launch, 30,000 citizens had accessed the page.
- According to ActionSpro ut this was the fastest growing Facebook page in history, reaching over 1.3 million users.



FB location maps helped verify evacuations

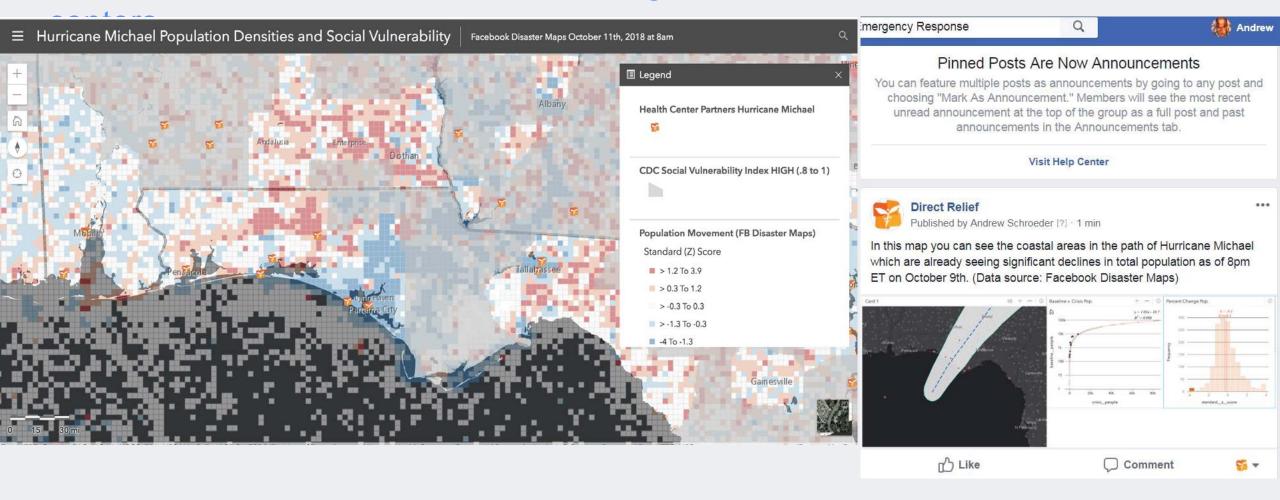
Humanity Road and Direct Relief used FB data to verify where people had evacuated and to send supplies where they were needed most





FB location maps helped target supply

American Red Cross used our data for its distribution plan, Direct Relief used our data to communicate about surges with its network of health



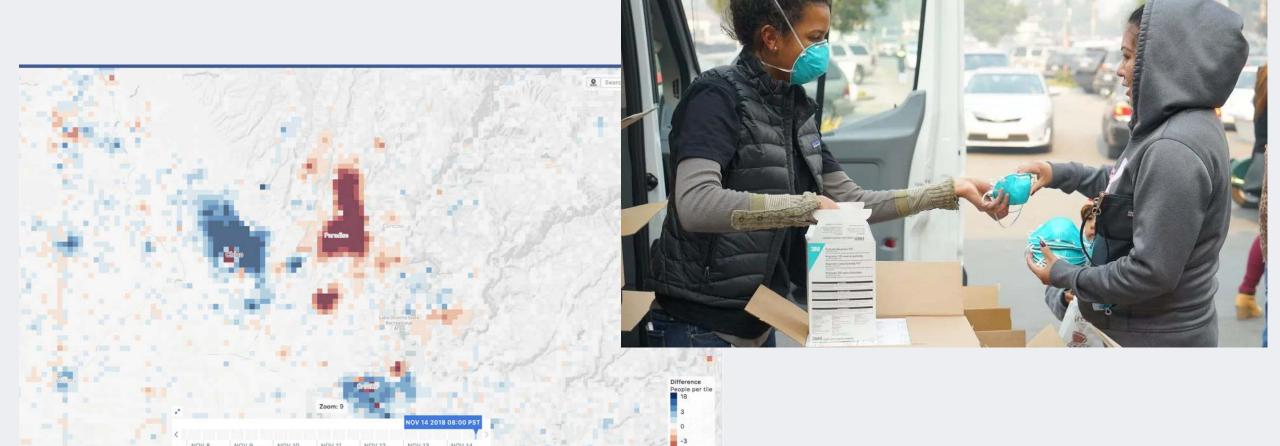


Fires November 2018

FB location maps helped target mask

American Red Cross used our data for its distribution plan, Direct Relief used our data to distribute over 10K respiratory masks, and CalOES used

our maps to monitor evacuations



Results in the past year

- Partners: Scaled from working with 6 humanitarian agencies to 30
- Number of disasters activated for: 100+, including Hurricanes Maria and Irma, the Thomas fires, the Mendocino Fires, Hurricane Florence, Hurricane Michael, the Camp Fire and many others.

















Thank you!