Advances in Civic Co-management within the Geospatial Ecosystem Applied to Disaster Risk Management

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MORE THAN HALF OF THE WORLD’S POPULATION LIVES WITHIN THIS CIRCLE

Source: Reddit User valeriepieris
20 megacities

1. KARACHI
2. DELHI
3. MUMBAI
4. BANGALORE
5. CHENNAI
6. KOLKATA
7. DHAKA
8. BANGKOK
9. CHONGQING
10. SHENZHEN
11. GUANGZHOU
12. WUHAN
13. BEIJING
14. TIANJIN
15. SHANGHAI
16. SEOUL
17. OSAKA-KOBE
18. TOKYO
19. MANILA
20. JAKARTA
20 megacities

14 are sitting on river deltas

Source: USGS HydroSHEDS
20 megacities

14 are sitting on river deltas

18 have experienced flooding in the past decade

Source: Dartmouth Flood Observatory
20 megacities

14 are sitting on river deltas

18 have experienced flooding in the past decade

277,129,000 people live in these cities

Source: UN World Urbanization Prospects 2011
Embedded media at: https://www.youtube.com/watch?v=fDlaGHjFtAY
LAUNCH
- Tues, Dec 02, 2014
- Twitter Impressions: 49,210

FLOOD 1
- Sat, Dec 27, 2014
- Twitter Impressions: 100,494

FLOOD 2
- Fri, Jan 23, 2015
- Twitter Impressions: 83,748

FLOOD 3
- Mon, Feb 09, 2015
- Twitter Impressions: 541,754

FLOOD 4
- Tues, Feb 10, 2015
- Twitter Impressions: 331,151

FLOOD 5
- Wed, Feb 11, 2015
- Twitter Impressions: 132,683
User Interface:
Geolocation + Nearby Reports

Institutional Interface:
Overview + Report Scaling
CogniCity harnesses the power of social media by gathering, sorting and displaying real-time situational reports from urgent urban infrastructure issues such as flooding or traffic congestion. Our powerful toolset makes this information available in real-time to citizens in need of daily information, and meanwhile conducts predictive analysis to better inform prepare for future planning.
Joint Pilot Study 2014/2015
60 days:

1,000 confirmed reports
69,000 users
100,000 #flood tweets
2.2m Twitter impressions