Mobile App's for disaster. Samantha Ridler Ueno BEng MPhil

Content

- + Intro to App's
- + Operating systems
- + App's for disaster
- + Categories
- + Interesting innovations
- + Concerns
- + Best practices
- + Conclusion

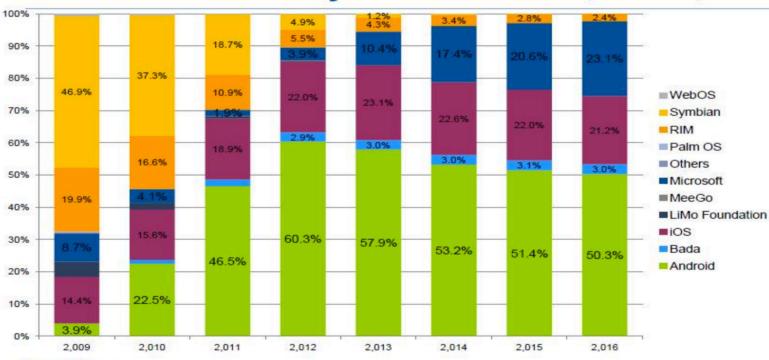
An App for everything

App's = software programs designed to run on mobile device operating systems

- + Mobile phones, tablets, PC's, Vehicles, smart watches ...
- + Rate of App growth 45% in 2012
- + 1.4 billion smartphones by end of 2013
- + Are download from internet 'App stores' or specific websites
- + Created by Individuals, and public / private sector organizations

Operating systems

Gartner Forecast Estimates Mobile OS Sales by Market Share (2009-2016)



Source: Gartner

Forecast: Mobile Devices by Open Operating System, Worldwide, 2009-2016, 2Q12 Update

Gartner.

Disaster App's = Mobile application targeted on use before, after or during a disaster



Disaster Alert
Pacific Disaster Center

FREE



Disaster ROM Contr Mirko Dimartino

FREE



Disaster Message B ソフトバンクモバイル株

r★★★★ FREE



Natural Disaster Modominoc925

FREE



Disaster Readiness phoneflips

£1.94



ubAlert - Disaster AlubAlert



Disaster Survival Gu EBeuvaliers



Drawer Disaster - Be Xaina Games



Disaster Recovery L NDSU Extension Service



Disaster ID Southwest Synergistic Sc

App Categories

News & Alert Apps

- Global disaster mapping
- National/regional disaster news
- Specific disaster type tracking (earthquakes, tornado, space weather etc)
- Deases/flu tracking/ alert
- News aggregator apps on specific event or region
- Forum Apps for preparedness issues
- P2P crowdsoursing info apps
- Volunteering app's

Guides and Education Apps

- Preparedness Guide
- First aid info
- Psychologicagy First aid
- Historical Disaster Video/picture
- Disaster trivia
- journals
- Educational Games
- •nuclear escape info
- Emergency procedure
- childrensbooks
- Hazardous material info
- Global emergency numbers
- how to make emergency kit info
- •X-ray analysis guide
- Business Impact assesment guide

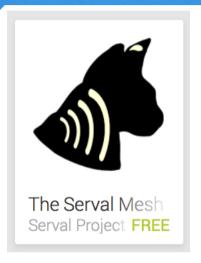
Tool Apps

- Panic buttons
- GPS Tracking
- Compass
- Torch
- •Siren/whistle
- police/emergency vehicle mimicing
- Medical record storage
- Emergency kit replacement items remindersRapid Recall group alerts
- Seismometer
- Scanner
- House Insurance content records
- Donation
- shelter locator
- •wifi comm's
- •person finder

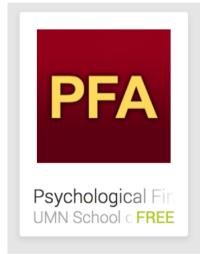
Other / Ethically concerning? Apps

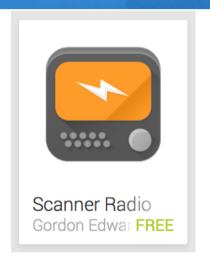
- Superstitous
 Disaster prediction apps
- Radiation detectors

Innovations



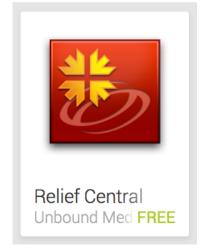














Concerns

- + App store ratings / information
- + Zombie App's
- + 7 common criticisms by users:
 - 1. Not installing onto certain phones
 - 2. Problems with OS update compatibility
 - 3. Data source format changes impact performance (USGS)
 - 4. Reduce Battery life
 - 5. App loading problems
 - 6. Data not relevant to person location
 - 7. Hidden subscription/login requirement

Consideration for creating an App.

- + Cost of app development and launch
- + Cost of life cycle maintenance
- + Security of data provided and/or stored
- + Target Users for app (General vs specialist appeal)
- + Core purpose of mobile app
- + Value added nature of app over existing app's
- + Data Interoperability

Discussion and conclusion

- + City vs Regional vs national approach
- + General vs Specialist app's
- + Demography of users
- + A need for disaster app vetted list or quality mark?
- + Impact of app's for non-mobile platforms (i.e vehicle app's, watch apps etc)

In terms of saving lives app's are useful but not to the level of reliability needed for critical to life function.

Thank you for listening! samantha.ueno@gmail.com

