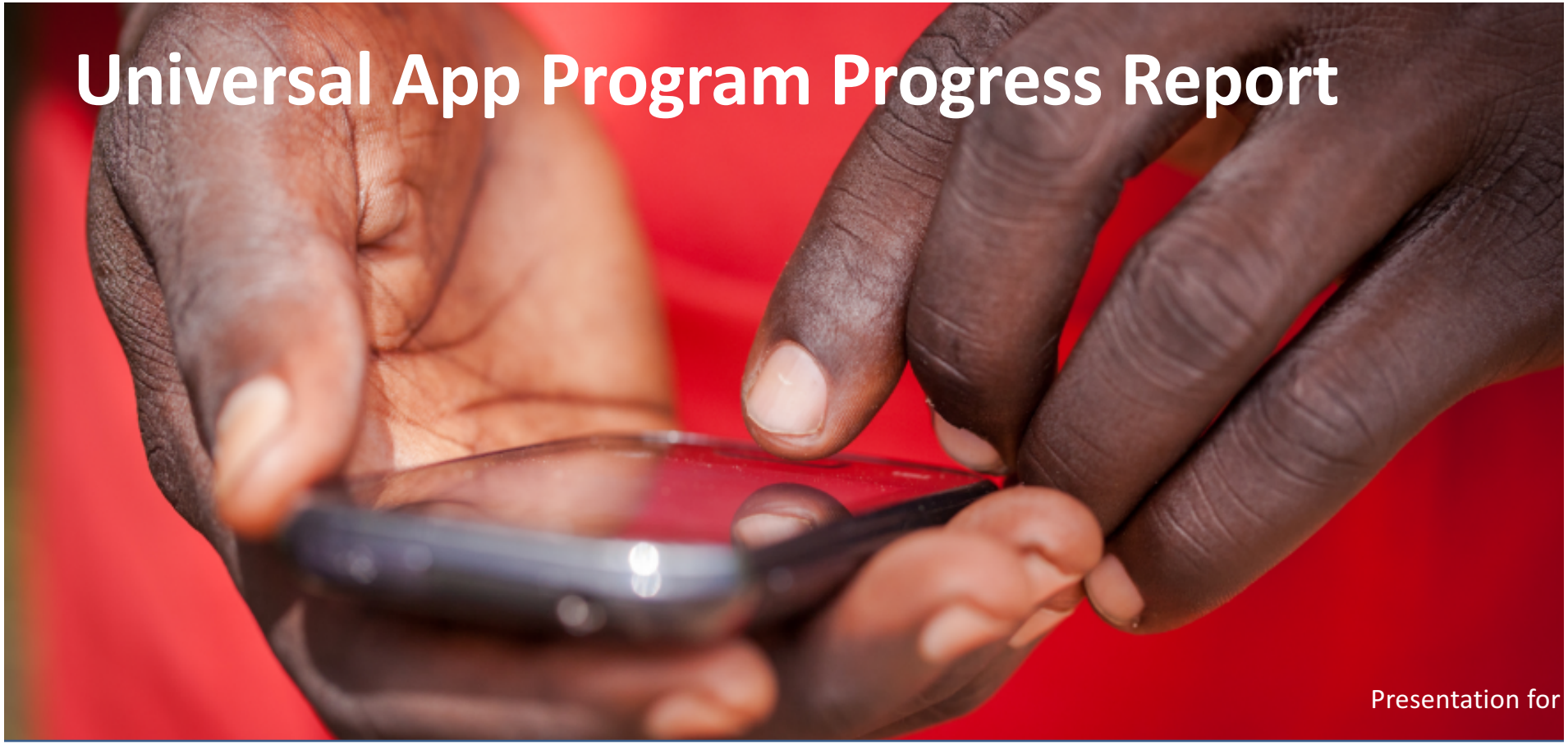
Universal App Program Progress Report

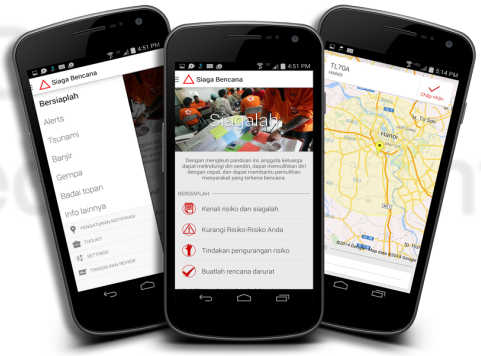


Presentation for

Global Disaster
Preparedness Center

Universal App Program

- Shared ownership model
- Model for RC/RC national societies to license, adapt and release mobile apps
- First Aid and Multi-Hazard apps available for **iOS** and **Android** devices
- Localized to the language/culture and images of that country
- Predictable monthly release schedule
- Easy to use – minimal learning
- **No cost for national societies**



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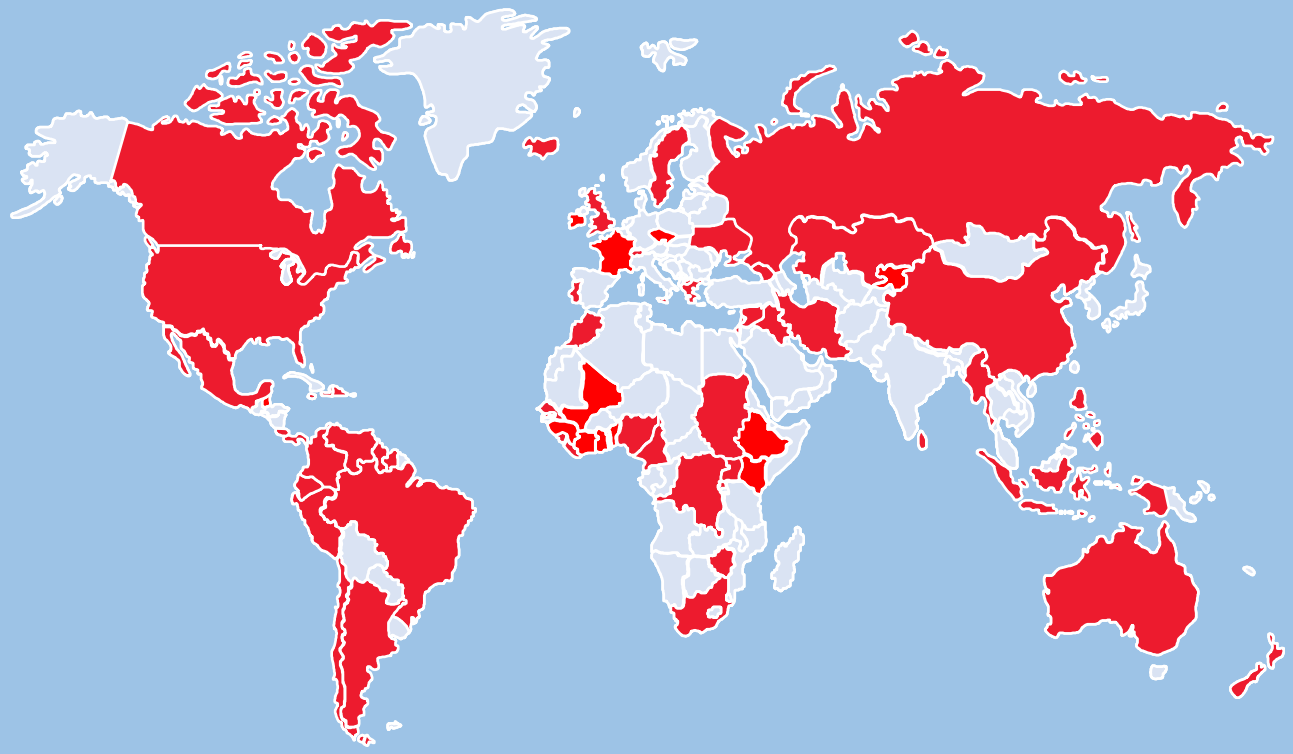
Universal Apps: Participation Benefits

- *Core Business-* Supports/complements First Aid and Disaster Management programs
- *Scalable-* Appeals to audiences not necessarily touched by Red Cross
  - Younger audiences, urban environments,
- *Connectedness -* Push notifications, links to NS programs, social media

Relevant today and tomorrow

Global Disaster Preparedness Center

80 First Aid apps (36 languages), 20 Hazard apps (7 languages)



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HAZARD APP

13:37
22%
We'll send you alerts for the following types of hazards...
Typhoons
Earthquakes
Floods
Continue

Universal Apps: Hazard

- Public Education and Public Awareness (PAPE) key messages
- Weather and disaster alerts and RC/RC messaging to the general public
- Users can monitor and track locations and link to loved ones
- Ability to share alert messages with loved ones using SMS, social media
- Designed to deliver official alerting agency message
- Strong preference for CAP
- ‘What Now’ to give immediate actions

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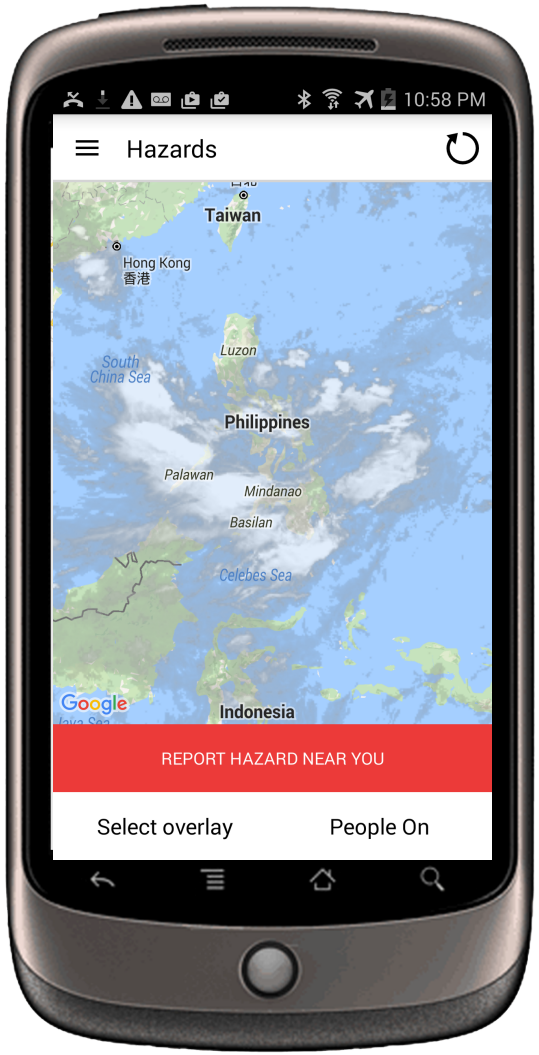
THE NEW STUFF



Global Map with Overlays

- Weather Channel API
  - Satellite
  - Radar
  - Clouds
  - Rain
  - Wind Speed
  - Snow
- NOAA Hurricane Tracker

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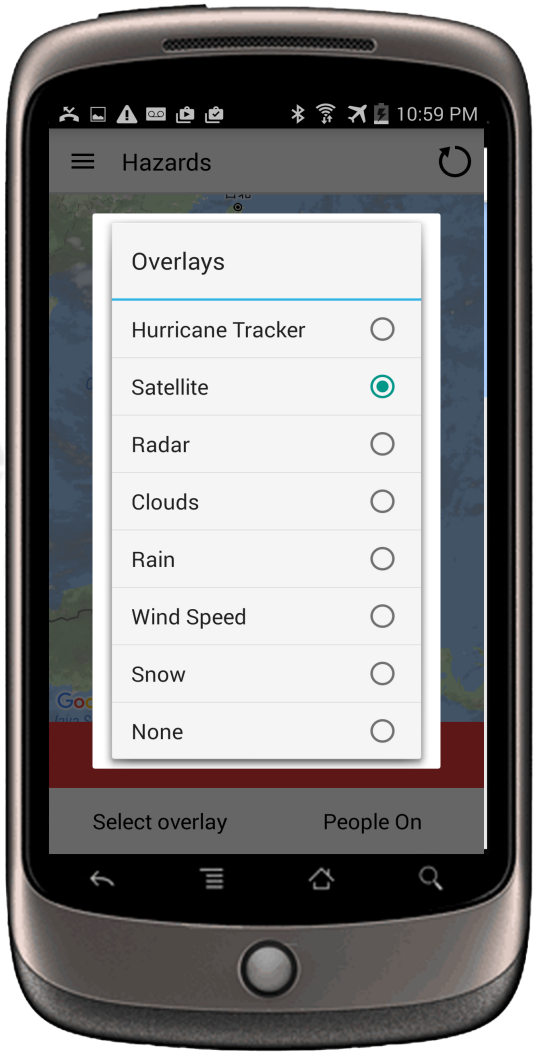

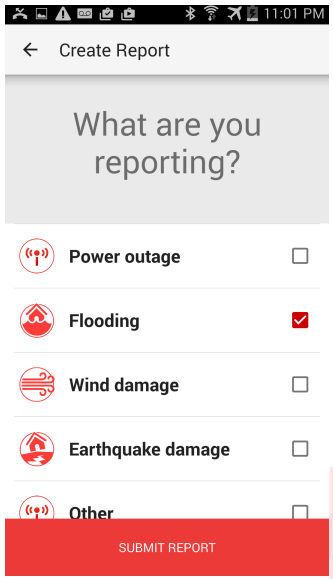

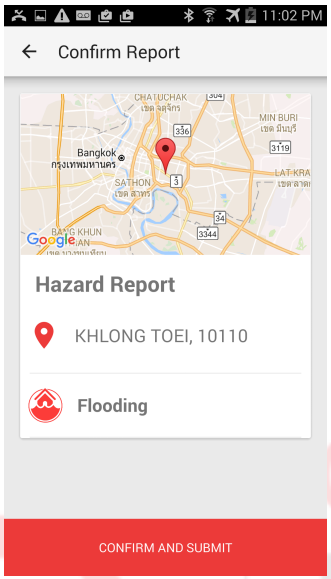

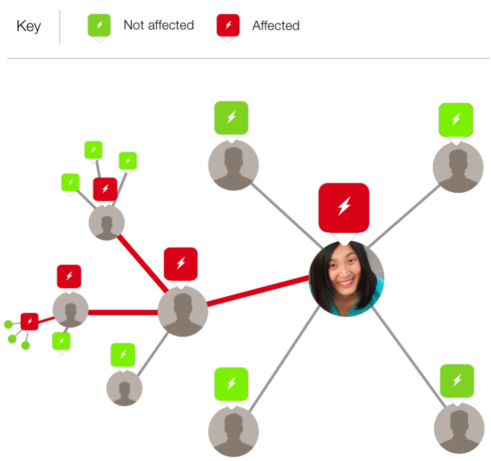

Chained Crowdsourcing

- GFDRR/DFID Challenge Grant
  - Pilot underway in Indonesia, Myanmar, Philippines and Indonesia (data collection until end of September 2016)
- User reporting to trigger requests to nearby users for input and reporting.
- Heat map of crowdsourced data for decision makers/operational use.

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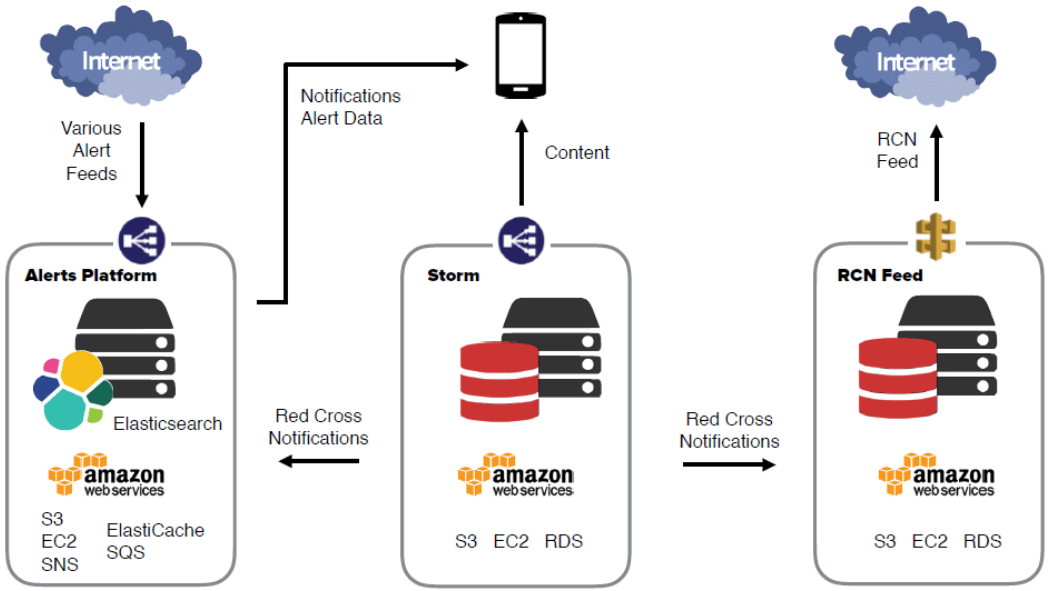
“Red Cross Notifications”

- CAP 1.2 (validated)
- Attributed messages from authorized partners using Storm CMS
- OIDs for all Red Cross and Red Crescent National Societies
- Notifications are sent to app users monitoring the target location and also available in country level feeds (RSS/XML).



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Red Cross Notification RSS feeds

Each Red Cross Society has been provided with an RSS feed, listing any active alerts published using the RCN system. RSS is an established web standard for distributing structured information. E.g. news or alerts

CAP alerts published by a society are listed in each society's individual alert feed. This may be accessed via the following URL:

https://api.preparecenter.org/v1/org/{country-code}/alerts/rss

In this example, the {country-code} segment should be replaced with the country code of a given society. e.g.

https://api.preparecenter.org/v1/org/nzl/alerts/rss

A global combined feed is also provided, listing all active alerts from each society:

https://api.preparecenter.org/v1/alerts/rss

CAP Alert Document

Provides a static XML representation of an alert in CAP 1.2 format. The URI includes an alerting message object identifier unique to each Red Cross organisation.

GET /[API version]/alerts/cap12/[date]/[NS oid]/[filename].xml

Response code: 200

Response type: application/xml

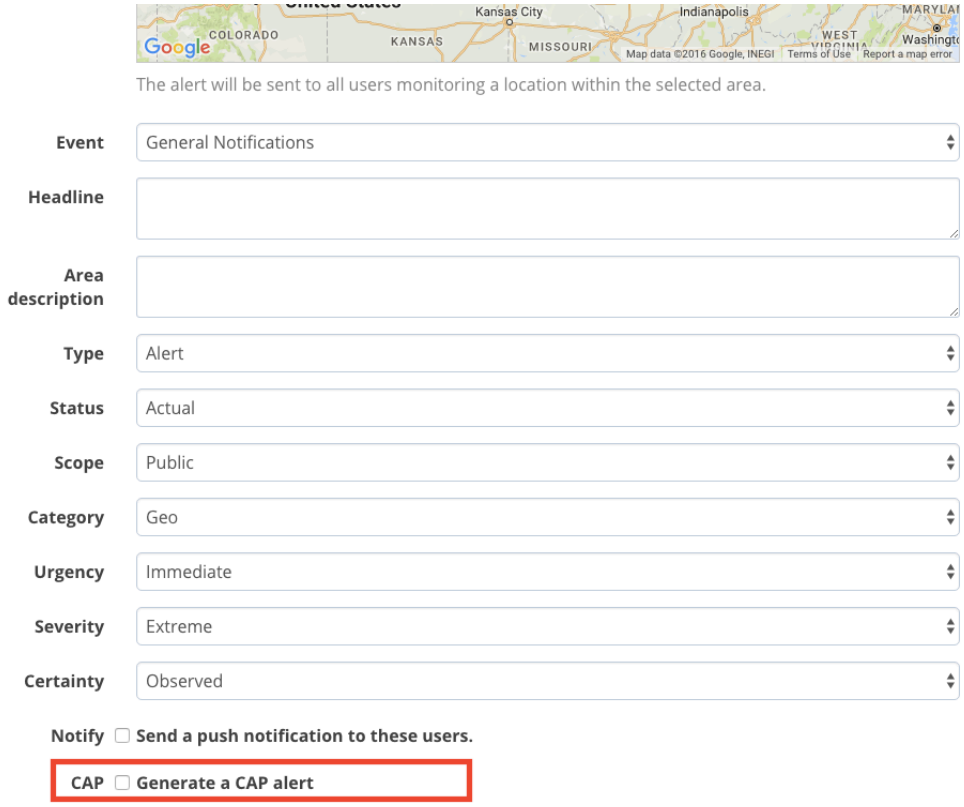
Example: https://api.preparecenter.org/alerts/cap12/2016-06-16/urn:oid:2.49.1.8/urn:oid:2.49.1.8.2016.4.xml

Please note that in order to generate a cap alert, a ‘Generate CAP alert box’ has to be ticked on the bottom of the page.

Revision to Notification Form

The following are new fields in the General Notifications form which allow creation of CAP alerts (CAP 1.2):

- Event
- Headline
- Area description
- Type
- Status
- Scope
- Category
- Urgency
- Severity
- Certainty



User must select to send notification as to users of the app, as part of CAP feed or both.

QUESTIONS?

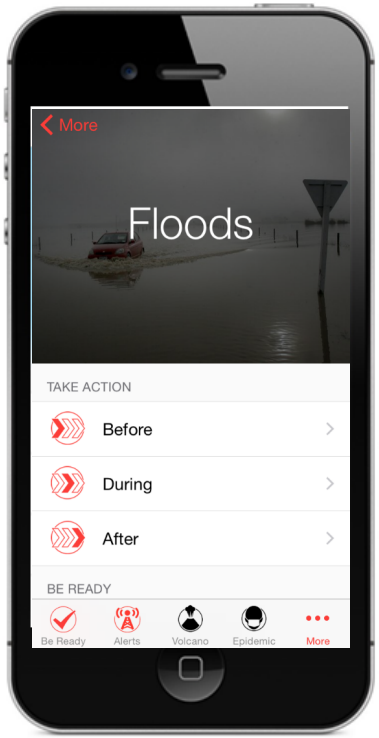
The New Zealand Red Cross Case Study:

Incorporating Hazard app into core business while deepening partnerships with Government and Private sector partners

Global Disaster Preparedness Center

NEW ZEALAND RED CROSS
RĪPEKA WHERO AOTEAROA

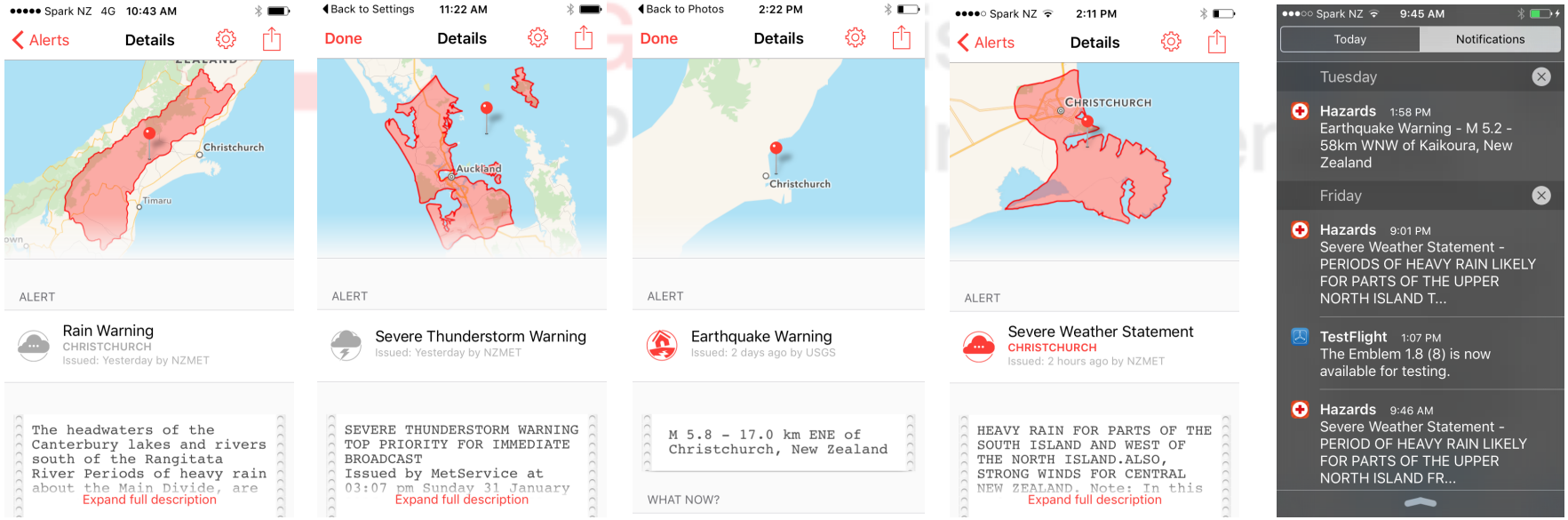
Hazard App: New Zealand specific content



- Detailed New Zealand specific in app content aligned to key messages of lead agencies
    - MCDEM consistent messages, Sphere resources and incorporates content from MPI, MoH, & MetService.
- Advice for before, during and after disasters
- Checklists to help prepare for and respond to emergencies
- Access to Red Cross Notifications platform for CAP enabled feeds for organizations not yet CAP ready

National Data feeds

- GNS Science CAP (EQ and Volcano)
  - White listing of USGS (avoid conflict/duplication with Geo-Net)
- New Zealand MetService FTP push (CAP coming soon)
- NZTA JSON (CAP coming soon)

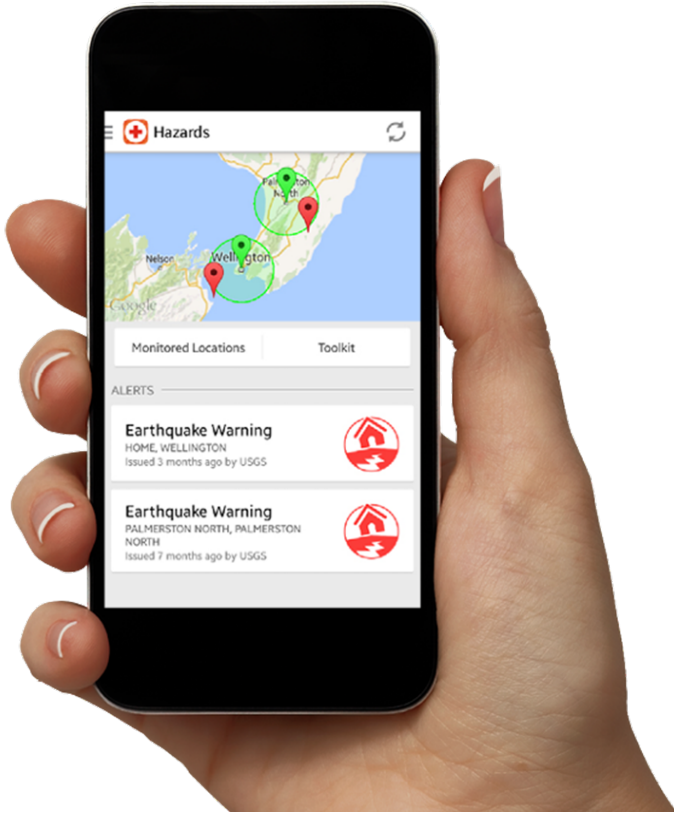


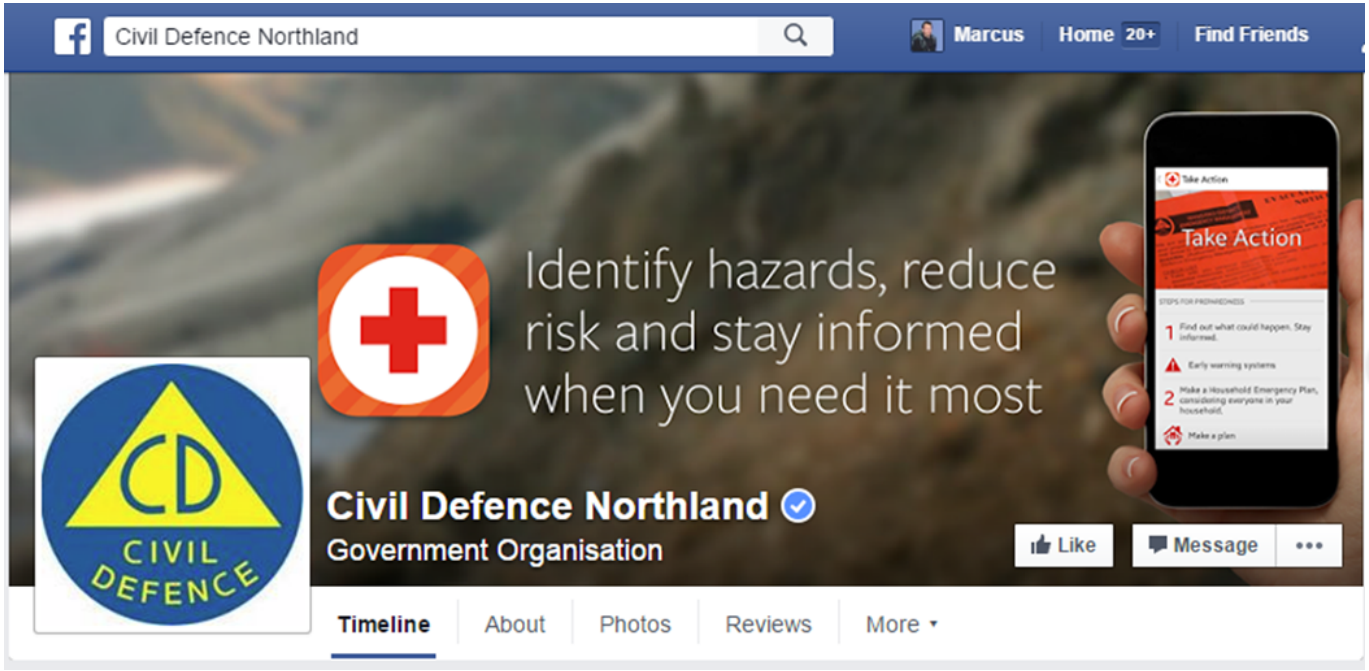
Collaborative ownership:

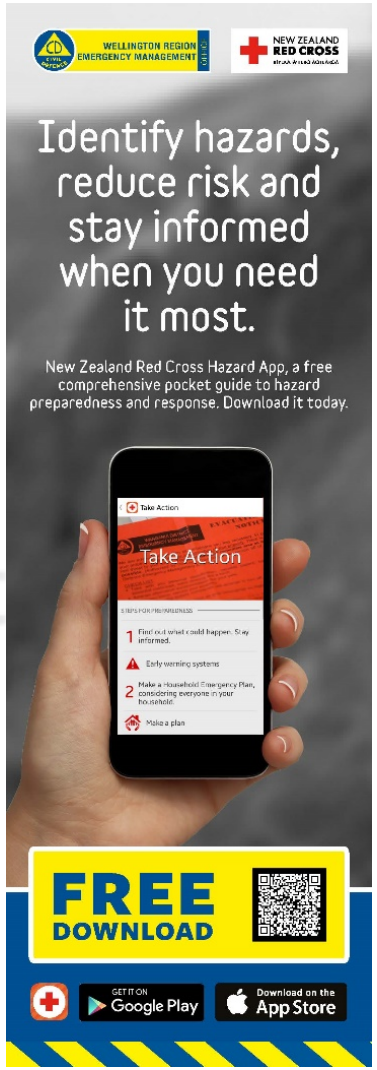
The App is to be governed by the App Stakeholder Group made up of stakeholders, industry experts and academics.

This group includes;

- Representatives for the 16 CDEM Groups
- New Zealand MetService
- GNS Science
- Ministry of Civil Defence and Emergency Management
- Ministry of Primary Industries
- Ministry of Health
- Massey University Joint Centre for Disaster Research
- New Zealand Red Cross




Civil Defence Northland
Marcus
Home 20+
Find Friends
Identify hazards, reduce risk and stay informed when you need it most
Take Action
Civil Defence Northland
Government Organisation
Like
Message
Timeline
About
Photos
Reviews
More
CIVIL DEFENCE


WELLINGTON REGION EMERGENCY MANAGEMENT
NEW ZEALAND RED CROSS
Identify hazards, reduce risk and stay informed when you need it most.
New Zealand Red Cross Hazard App, a free comprehensive pocket guide to hazard preparedness and response. Download it today.
Take Action
FREE DOWNLOAD
GET IT ON Google Play
Download on the App Store

CAP Working Group

Following their CAP Jumpstart in December 2015, a CAP Working group has been formed in NZ. Currently co-chaired by GNS Science and NZ Met Service with broad stakeholder engagement.

Quarterly meetings

National guideline for implementation of CAP (DRAFT)

- The role of CAP Hubs.
- An explanation of the links to the WMO Register of Alerting Authorities, and the OASIS CAP Standard.
- Standardisation guidelines.

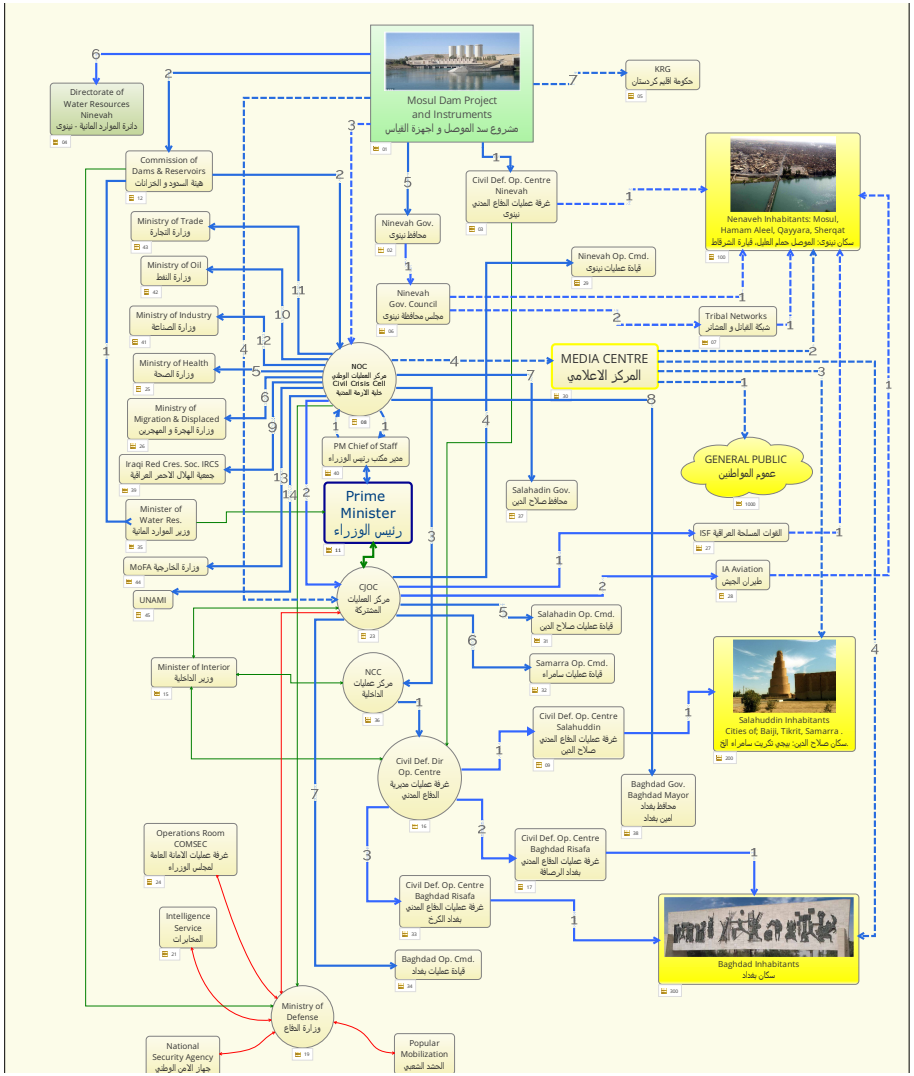
MOSUL DAM PREPAREDNESS CAMPAIGN

Mosul Dam: Context

Deemed the world's most dangerous dam by the U.S. Army Corps of Engineers

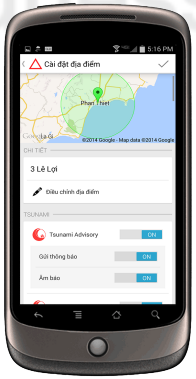
If the Mosul dam catastrophically fails:

- **Estimated 10 million people in the Tigris Valley at risk – many, particularly women and children, may not realize they are in harms way or what to do during flash floods – hundreds of thousands of people could be killed**
- **Mosul city is at most risk and could be hit with a tsunami like wave 13+ meters high, which would be further exacerbated if night time occurrence**
- **Access to many at-risk locations constrained by ISIS controlled areas**
- **Severe flooding in Baghdad could persist for up to one month due to the flat terrain**
- **Sheer scale of a catastrophic dam outburst would greatly overwhelm in-country capacities to respond**


Mosul Dam Project and Instruments
مشروع سد الموصل و اجهزة القياس
KRG
حكومة اقليم كردستان
Directorate of Water Resources Ninevah
دائرة الموارد المائية - نينوى
Commission of Dams & Reservoirs
هيئة السدود و الخزانات
Civil Def. Op. Centre Ninevah
غرفة عمليات الدفاع المدني نينوى
Ninevah Gov.
محافظ نينوى
Ninevah Op. Cmd.
قيادة عمليات نينوى
Nenaveh Inhabitants: Mosul, Hamam Aleel, Qayyara, Sherqat
سكان نينوى: الموصل حمام العليل، قيارة الشرقاط
Ninevah Gov. Council
مجلس محافظة نينوى
Tribal Networks
شبكة العشائر و العشائر
Ministry of Trade
وزارة التجارة
Ministry of Oil
وزارة النفط
Ministry of Industry
وزارة الصناعة
Ministry of Health
وزارة الصحة
NOC
مركز العمليات الوطني
Civil Crisis Cell
خلية الازمة المدنية
MEDIA CENTRE
المركز الاعلامي
Ministry of Migration & Displaced
وزارة الهجرة و المهجرين
PM Chief of Staff
مدير مكتب رئيس الوزراء
GENERAL PUBLIC
عموم المواطنين
Iraqi Red Cres. Soc. IRCS
جمعية الهلال الاحمر العراقية
Prime Minister
رئيس الوزراء
Salahadin Gov.
محافظ صلاح الدين
Minister of Water Res.
وزير الموارد المائية
ISF
القوات المسلحة العراقية
MoFA
وزارة الخارجية
CJOC
مركز العمليات المشتركة
IA Aviation
طيران الجيش
UNAMI
Salahadin Op. Cmd.
قيادة عمليات صلاح الدين
Minister of Interior
وزير الداخلية
Samarra Op. Cmd.
قيادة عمليات سامراء
NCC
مركز عمليات الداخلية
Salahuddin Inhabitants
Cities of: Baiji, Tikrit, Samarra .
سكان صلاح الدين: بيجي تكريت سامراء الخ
Civil Def. Op. Centre Salahuddin
غرفة عمليات الدفاع المدني صلاح الدين
Civil Def. Dir Op. Centre
غرفة عمليات مديرية الدفاع المدني
Baghdad Gov. Baghdad Mayor
محافظ بغداد امين بغداد
Operations Room COMSEC
غرفة عمليات الامانة العامة لمجلس الوزراء
Civil Def. Op. Centre Baghdad Risafa
غرفة عمليات الدفاع المدني بغداد الرصافة
Intelligence Service
المخابرات
Civil Def. Op. Centre Baghdad Risafa
غرفة عمليات الدفاع المدني بغداد الكرخ
Baghdad Inhabitants
سكان بغداد
Baghdad Op. Cmd.
قيادة عمليات بغداد
Ministry of Defense
وزارة الدفاع
National Security Agency
جهاز الامن الوطني
Popular Mobilization
الحشد الشعبي

Project Scope

- GDPC partnering with Iraqi Red Crescent Society and UNDP
- Develop and Launch A Mosul Dam Flash Flood Awareness Campaign
- Targeting At-Risk Locations Along the Tigris River Valley from Mosul to Baghdad
- Mobilizing Red Crescent Volunteers to Deliver Flash Flood Messaging
- Using Mass Media (TV, Radio), Social Media (Facebook, WhatsAp), Technology (Multi-hazard App).



Public Awareness and Public Education Key Messages (PAPE)

Public awareness and public education for disaster risk reduction: key messages

www.ifrc.org
Saving lives, changing minds.

International Federation of Red Cross and Red Crescent Societies

Guidance developed from PAPE on what to do **before, during and after** a flash flood caused by a Mosul Dam failure:

بعد الفيضان

1. اشرب المياة المعبأة حتى تأكد من ان المياة اصبحت خالية من الملوثات وصالحة للشرب، لن يتم التخاص من الملوثات بغلي الماء
2. لا تأكل او تشرب اي طعام ملوث بماء الفيضان، حافظ على نظافتك بغسل اليدين ومنع الاطفال من اللعب بجانب مياة الفيضان
3. ابقى على تواصل مع قنوات البث للحصول على اخر المعلومات و الارشادات
4. تجنب الاقتراب من خطوط الكهرباء، وفي حالة الرجوع الى منزلك لا تقم بتشغيل الكهرباء لتجنب الحصعات الكهربائية ، الحرائق والانفجارات
5. في حالة العودة الى المنزل حاذر من ان تعرض فالمنزل قد يكون ملوث بفعل مياة الفيضان

للمزيد من المعلومات

الموقع الرسمي لجمعية الهلال الاحمر العراقي	ircs.org.iq
البريد الرسمي	info@ircs.org.iq
الفيسبوك	iraqircs
التويتر	@iraqircs

في حالة انهيار السد والفيضان

1. حافظ على الهدوء، واد داعي للذعر
2. نبه الاخرين باي وسيلة ممكنة
3. استمع لصفارات الانذار واتبع الارشادات
4. لاتضيع وقتك بانقاذ الممتلكات حاول الوصول الى اماكن الاخلاء المحددة من قبل الجهات المختصة او الى مكان امن
5. لا تحاول الانخفاض بالاجلة الفيضان سرعة الفيضان يمكن ان تجرفك بعيداً
6. تجنب القيادة في حالة وجود مياه جارية بارتفاع 10 سم او اكثر

الاجراءات الواجب اتخاذها عن اخلاء الدار في حالات الطوارئ

1. حفظ الاشياء الثمينة والوثائق العامة في محفظة مقاومة للماء
2. حفظ بعض الاشياء القابلة للوضع في حقيبة مثل (الماء ،الطعام،الادوية،وثائق مال ،ملابس
3. التخطيط لطريق اخلاء مع عائلتك ابحث عن كيفية الوصول الى مكان قريب ،مرتفع وامن
4. ابقى على تواصل دائم بكل وسائل الاعلام (راديو،تلفزيون وشبكات التواصل الاجتماعي) للحصول على اخر الاخبار والمستجدات
5. قطع التيار الكهربائي والغاز و غلق مصدر الماء الرئيسي للمنزل قبل الاخلاء لتلافي الاخطار عن العودة للمنزل

ارقام طوارئ

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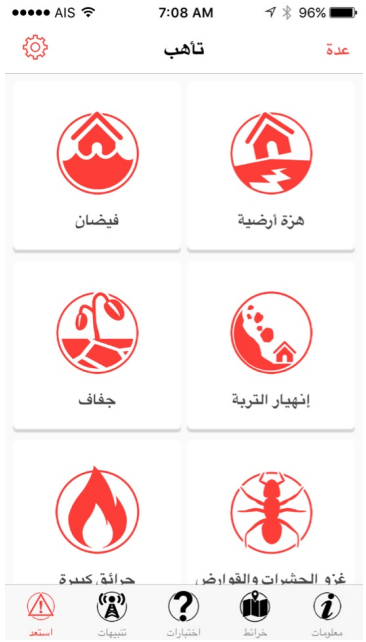
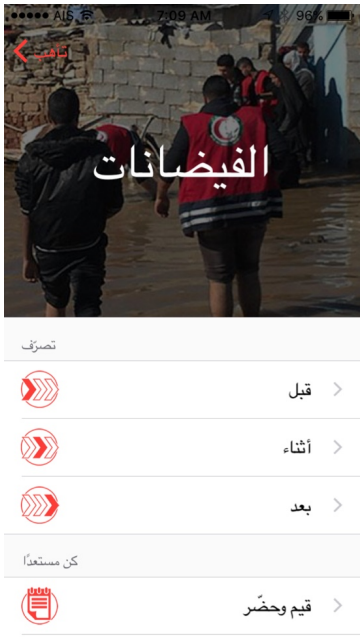
الاطفاء	115
الاسعاف	122
الدفاع المدني	115

جمعية الهلال الاحمر العراقي
009647706740075

Launched an Iraq-Specific Multi-Hazard Application

- Advice for before, during and after disasters
- Alerts and push notifications - complement/amplify existing Early Warning Systems
- Geo-targeted push notifications allow for emergency info to be focused on specific areas
- App can save user location ensuring they have most pressing information
- Quiz function to test knowledge





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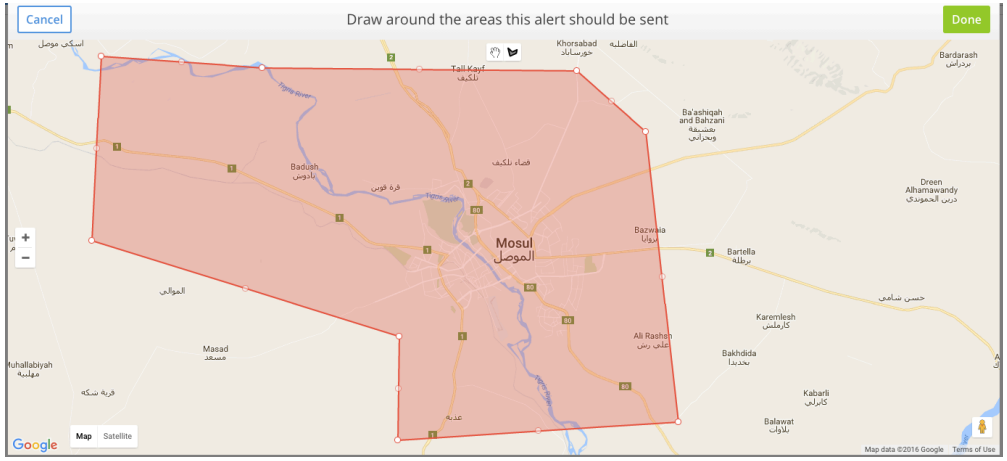

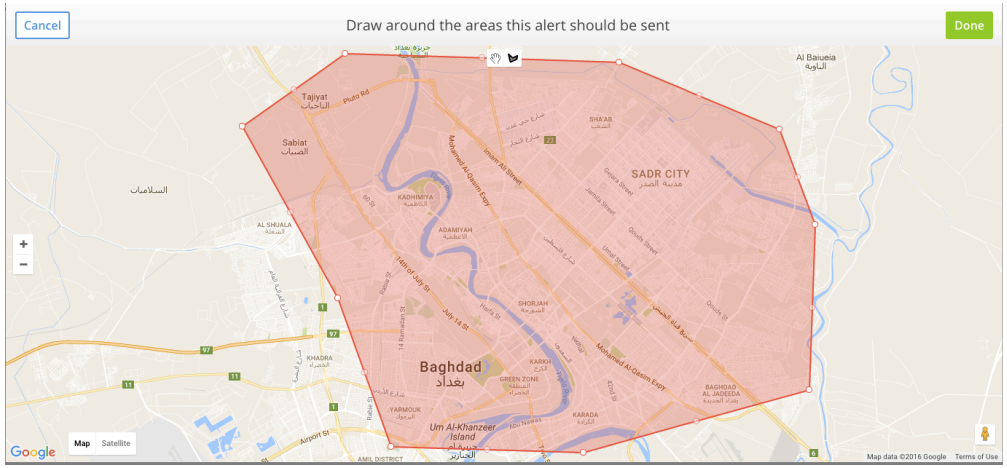

Global Disaster Preparedness Center

Thank you!

Visit GDPC website: preparecenter.org
Email: GDPC@redcross.org

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Prepare. Innovate. Learn. Together.