



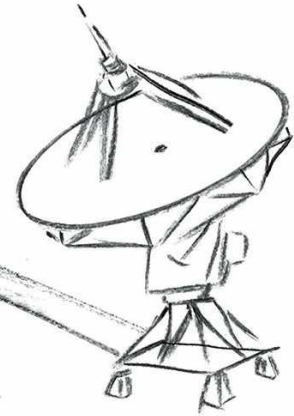
NOMAD – Workshop 2013



Presentation Overview

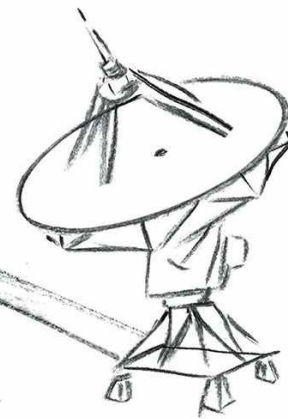
NOMAD – Workshop 2013

- ✓ WHY NOMAD PROJECT?
- ✓ WORKSHOP



CartONG– SUPPORT TO MOBILE DATA COLLECTION AND MAPPING

- ✓ INTRODUCTION: CARTONG WORK WITH SHELTER
- ✓ 2 MOBILE DATA COLLECTION PROJECTS
- ✓ CONCLUSION

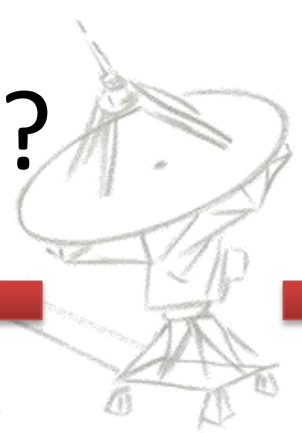


NOMAD – Workshop 2013

15-17 May 2013, Paris



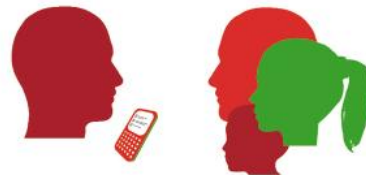
Why NOMAD Project?



Mobile technology is a major evolution in IM

In almost real time,
you can now:

2.



Collect

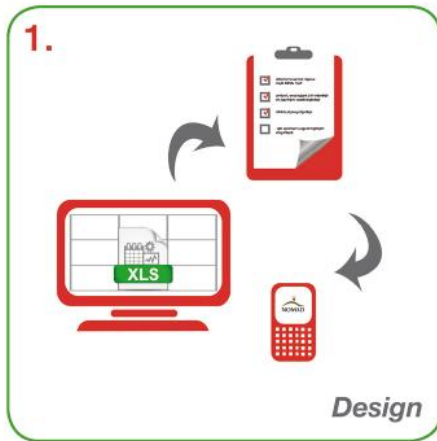
3.



Analyze

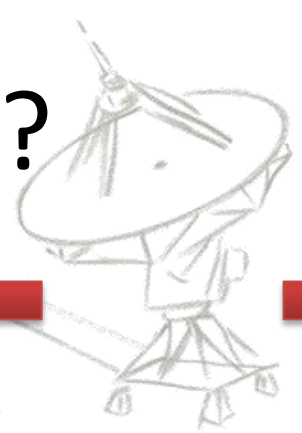
Why NOMAD Project?

Mobile technology is a major evolution in IM



- But what about the design bit?
- Many providers, what to choose?
- Where to start?
- How do I proceed?
- What about my database?
- Do I need an internet access?
- Tools Are evolving too fast!!
- **Am I supposed to be an IT or what???**

Why NOMAD Project?



“The project’s main aim is to improve information management for humanitarian organizations by linking them with the latest mobile data collection technology to improve collection, analysis and management of information.”

Consortium main players:

www.immap.org



Because Information
Matters

www.cartong.org



Mapping Services for
Humanitarian Organizations

How NOMAD helps



NOMAD assists in choosing the best tool for you!

- Apacheta -- <http://www.apacheta.com>
- Canvas Solutions -- <http://www.gocanvas.com>
- Dexterra -- <http://www.dexterra.com>
- Fivespark -- <http://www.fivespark.com>
- Geoage -- <http://www.geoage.com>
- Global Bay -- <http://www.globalbay.com>
- Global Relief Technologies -- <http://www.grt.com>
- inForm - www.skysoftsystems.com
- Mobile Active -- <http://mobileactive.org>
- Mobile Data Technologies -- <http://www.doforms.com>
- Mobile Forms - www.devicemagic.com
- MobileFrame -- <http://www.mobileframe.com>
- Open Data Kit -- <http://opendatakit.org>
- OASIS -- www.immap.org
- OpenROSA -- <http://openrosa.org>
- Open X Data -- <http://www.openxdata.org>
- Paper2Mobile -- <http://www.paper2mobile.com>
- ProntoForms - www.prontoforms.com
- Zerion -- <http://www.iformbuilder.com>
- Imogene <http://code.google.com/p/Imogene>



Tool for the selection of the appropriate Service

Assessment of Organization's needs



Data Management Tools

Aids Organizations

Nomad Workshop



NOMAD Workshop Linking Humanitarian Organizations with Mobile Data Collection Tool Providers, 15th -17th May, Paris!

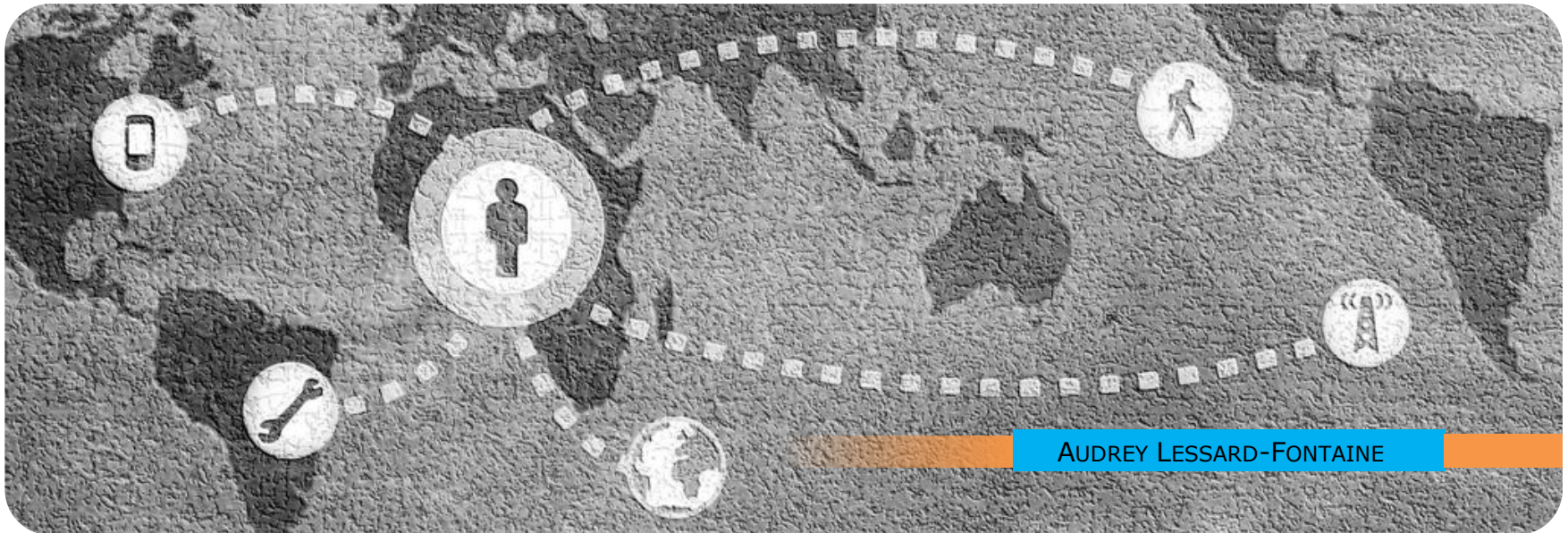
Some of the solution providers that will be there:



Nomad Workshop



- **Whom is it for?**
 - Anyone dealing with survey and assessments
- **Do I need experience in MDC?**
 - No, the idea is as much to discover MDC as to pinpoint your needs, seek for specific advices etc.
- **Will it be theoretical?**
 - Very little, the goal is for the humanitarian community to get hands on experience with various tools



AUDREY LESSARD-FONTAINE

CARTONG

SUPPORT TO MOBILE DATA
COLLECTION AND MAPPING

SHELTER MEETING 13A
25 AVRIL 2013

INTRODUCTION

HOW IS CARTONG CONTRIBUTING TO SHELTER AND SETTLEMENT ?

Starting point: *Haiti, 2010 : leading Information Management and producing all maps for Shelter Cluster*

Countries: Haiti, Uganda, Lebanon

Partners: with UNHCR, Danish Refugee Council (DRC) and Norwegian Refugee Council (NRC)

Actions:

- Information management for Outreach
- Global Shelter Advisor on Media and Communication
- Situational Assessments (Settlements)
- Damage Assessment (Shelter)

Our objective :

Improving assessments efficiency by supporting mobile data collection and mapping

Maximize direct management by local staff



MOBILE DATA COLLECTION

COLLECTING DATA USING OSM TRACKER IN UGANDA (2011-2012)



REFUGEE SETTLEMENT MAPPING, UNHCR
ADJUMANI DISTRICT

Creating a spatial database on refugees settlements

Tools:

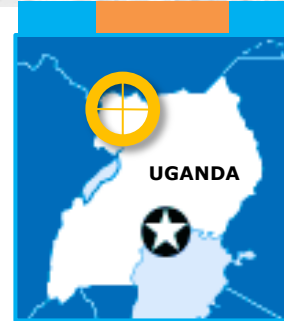
- OSM Tracker (for Android phone)
- Google Earth
- Google Fusion tables



Settlement_points UNHCR
File View Edit Visualize Merge

Showing all rows [options](#)

Site_Name	country_code	district
ELEMA	UGA	Adjumani
BARATUKU	UGA	Adjumani
LOTOLURI	UGA	Adjumani
MUNGULA	UGA	Adjumani
MIREYI	UGA	Adjumani
AJERI	UGA	Adjumani
OBLOKONGO	UGA	Adjumani
MAAJI	UGA	Adjumani
OLLJI	UGA	Adjumani
ALIMARA	UGA	Adjumani



MOBILE DATA COLLECTION

COLLECTING DATA USING OSM TRACKER IN UGANDA (2011-2012)



Advantages:

- ✓ Able to collect points, lines and polygon
- ✓ Technically easy to handle (entirely supported by local staff)
- ✓ Still ongoing in 2013

Challenges:

- Collection on attribute data directly in OSM tracker is limited
(it has been necessary to use manual collection for detailed attribute data)



MOBILE DATA COLLECTION

COLLECTING DATA USING OPENDATAKIT IN LEBANON (2012)

SHELTER ASSESSMENT, UNHCR

Conducting assessments on living conditions and potential shelters.

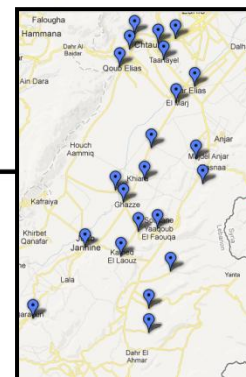
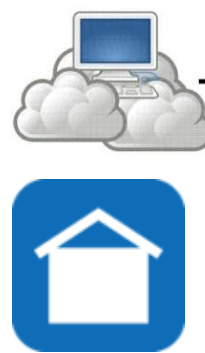
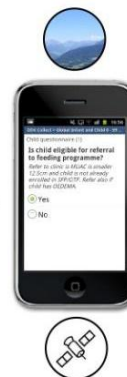
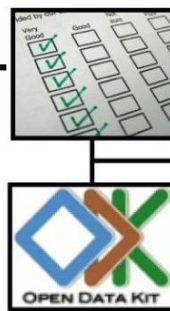
Tools: - OpenDataKit (for Android phone)
- Google Fusion tables



OPEN DATA KIT

SEKIRTE	
1. Ekip Teren / list 2. Manirib Komite 3. Ajans kap jere kan a 4. Moun ki abite sou sit la 5. Lile	
Kiyès kap bay sekrite sou sit la?	1. Organize poukont yo/ komite moun ki abite sou sit la 2. Polise-MINUS
Koman prezans sekrite a ye sou sit la?	1. Tout tan (24h) 2. Lajounen sèlman 3. Lannwit sèlman 4. Patwou
Nan Ka ensakrite repete ak kiyès fann ki depase yo repete sa?	1. Ajans kap jere kan an 2. Komite ki abite sou kan an 3. li
ABRI	
1. Ekip Teren / list 2. Manirib Komite 3. Ajans kap jere kan a 4. Moun ki abite sou sit la 5. Lile	
Nak ki tipabri moun sou sit yo ap viv?	1. Abri forin (li poukont yo) 2. Ti
Pi bon estimasyon % oswa # de tipabri yo?	% oswa #
Kantite totalabri (tout tip)	Eskeabri yo vid? 1. Wi 2. No

PAPER SURVEY



MOBILE DATA COLLECTION

COLLECTING DATA USING OPENDATAKIT IN LEBANON (2012)

The image displays four Sony Xperia smartphones, each showing a different screen of the ODK Collect application used for data collection in Lebanon (2012). The app is titled 'ODK Collect > DRC-NRC-UNHCR Shelter Assessment'.

- Screen 1:** 'Shelter Assessment DRC/NRC/UNHCR' with the prompt 'Number of Building' and 'Start counting from 1.' A text input field contains the number '1'.
- Screen 2:** 'Shelter Assessment DRC/NRC/UNHCR' with the prompt 'Type of Shelter'. It lists radio button options: Abandoned House, School, Social Center, Farm, Mosque, and Other.
- Screen 3:** 'Shelter Assessment DRC/NRC/UNHCR' with the prompt 'Please take a GPS point of the building'. A button labeled 'Enregistrement du lieu' is visible.
- Screen 4:** 'Shelter Assessment DRC/NRC/UNHCR > General pictures of the Shelter (1)' with the prompt 'Take a well focused picture of the Shelter.' It features buttons for 'Prendre une photo' and 'Choisissez l'Image', and a photo of a building.



UNHCR
United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

NRC NORWEGIAN
REFUGEE COUNCIL

DRC DANISH
REFUGEE COUNCIL

Automatized XML forms (customized), media and GPS points collection



MOBILE DATA COLLECTION

COLLECTING DATA USING ODK



Advantages:

- ✓ Fully customizable forms for attribute data collection
- ✓ Can include many types of data : GPS, attributes, media (pictures)
- ✓ Secure data storage on virtual server (no third-party storage support required)

Challenges:

- Technically harder to handle and needing more equipment to be used : international staff intervention required
- Ability to collect GPS points only (polygons and lines are not possible)



CONCLUSION

MOBILE DATA COLLECTION FOR SHELTER : PERSPECTIVES

- ✓ *in 2013 : ODK Mobile Data Collection project with UNHCR*

POSSIBILITIES

- ✓ Shelter Assessment for Evacuation and Community Shelters
- ✓ Damage Assessment after Impact (Natural or man-made disaster)
- ✓ Tracking of Deliveries of Shelter items, particularly NFI (tarpaulin, cooking sets, mats, etc.)
- ✓ Programme monitoring by tracking the progress of building/setting up new permanent or temporary shelters
- ✓ Shelter/household surveys to assess the living conditions of beneficiaries/ the general population
- ✓ Programme Monitoring and Evaluation

... AND SO MUCH MORE !



The End... Questions?

- Some links:
 - Online assistant: <http://humanitarian-nomad.org/online-selection-tool/>
 - Registration NOMAD Workshop: <http://humanitarian-nomad.org/workshop-2013/>
 - CartONG Website: www.cartong.org
 - Immap Website www.immap.org

