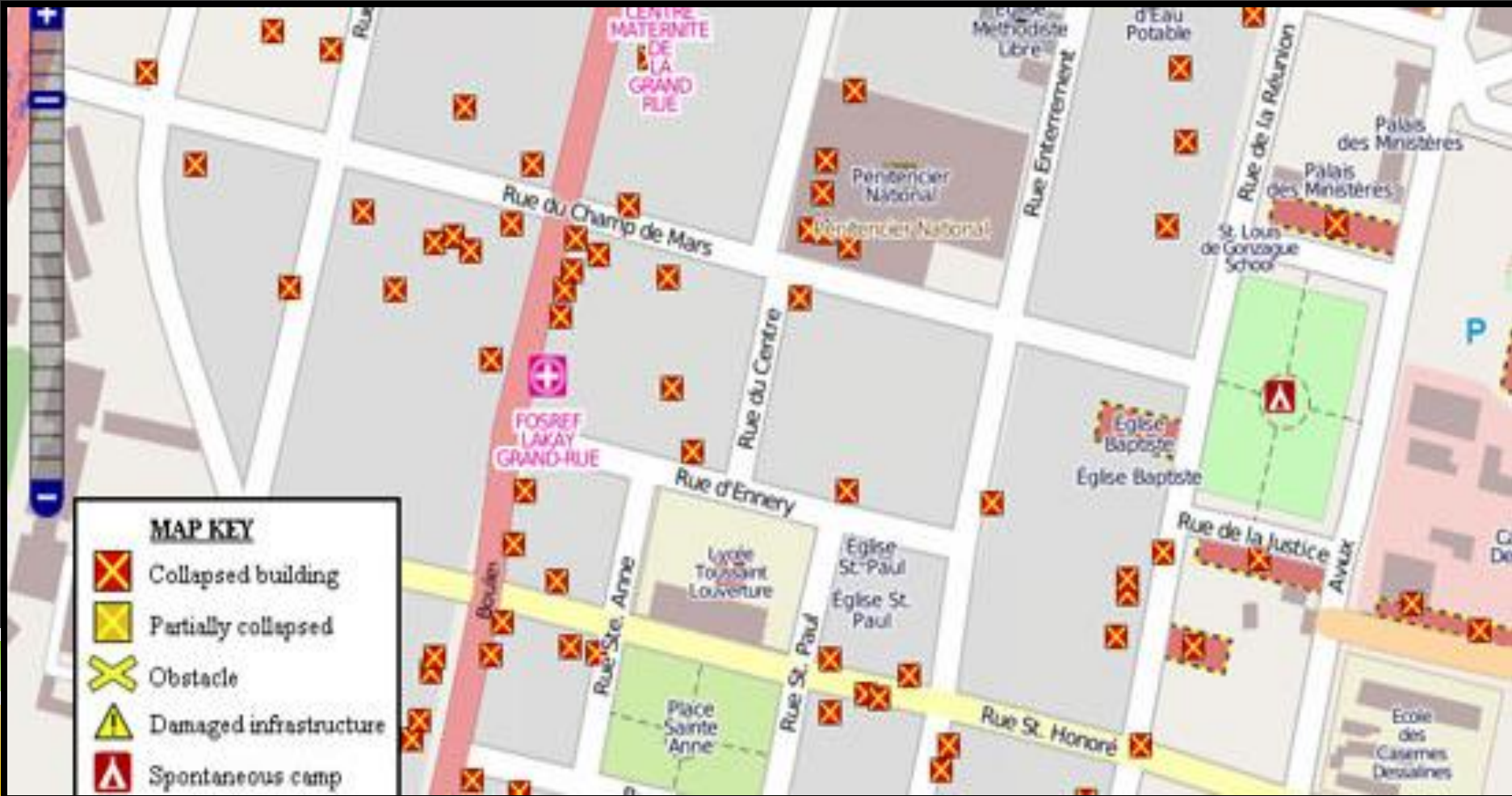


EMPTY SPACE MAPPING

Mussie Nigussie, Jessica Chayavichitsilp



PROBLEM SPACE

- ▶ Problem space
 - ▶ Permits users to quickly map out a new area not on existing maps.
- ▶ How do people deal with this problem today?
 - ▶ Remote volunteers/organization collecting data and creating map.
- ▶ Who will care about a solution?
 - ▶ Volunteers/ Community affected by disaster
- ▶ Who will a solution effect?
 - ▶ Helping volunteers to map affected disaster area.

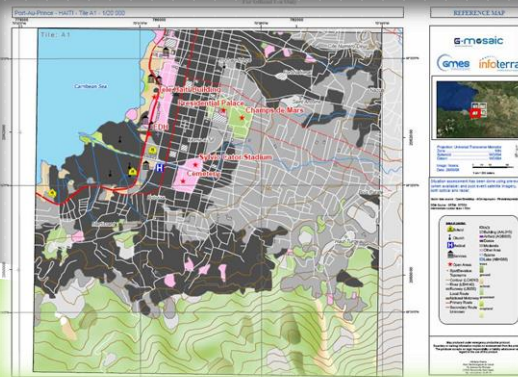


PROJECT DESCRIPTION

- ▶ Description
 - ▶ Integrate OSM to LocalGround to allow digitization of scanned image.
 - ▶ Our system: Update map quickly. Permanent software.
- ▶ Main elements
 - ▶ Digitization map. Data collection through mobile app.
- ▶ Who are the users/stakeholders
 - ▶ Volunteers. People affected during disaster.

RELATED WORK

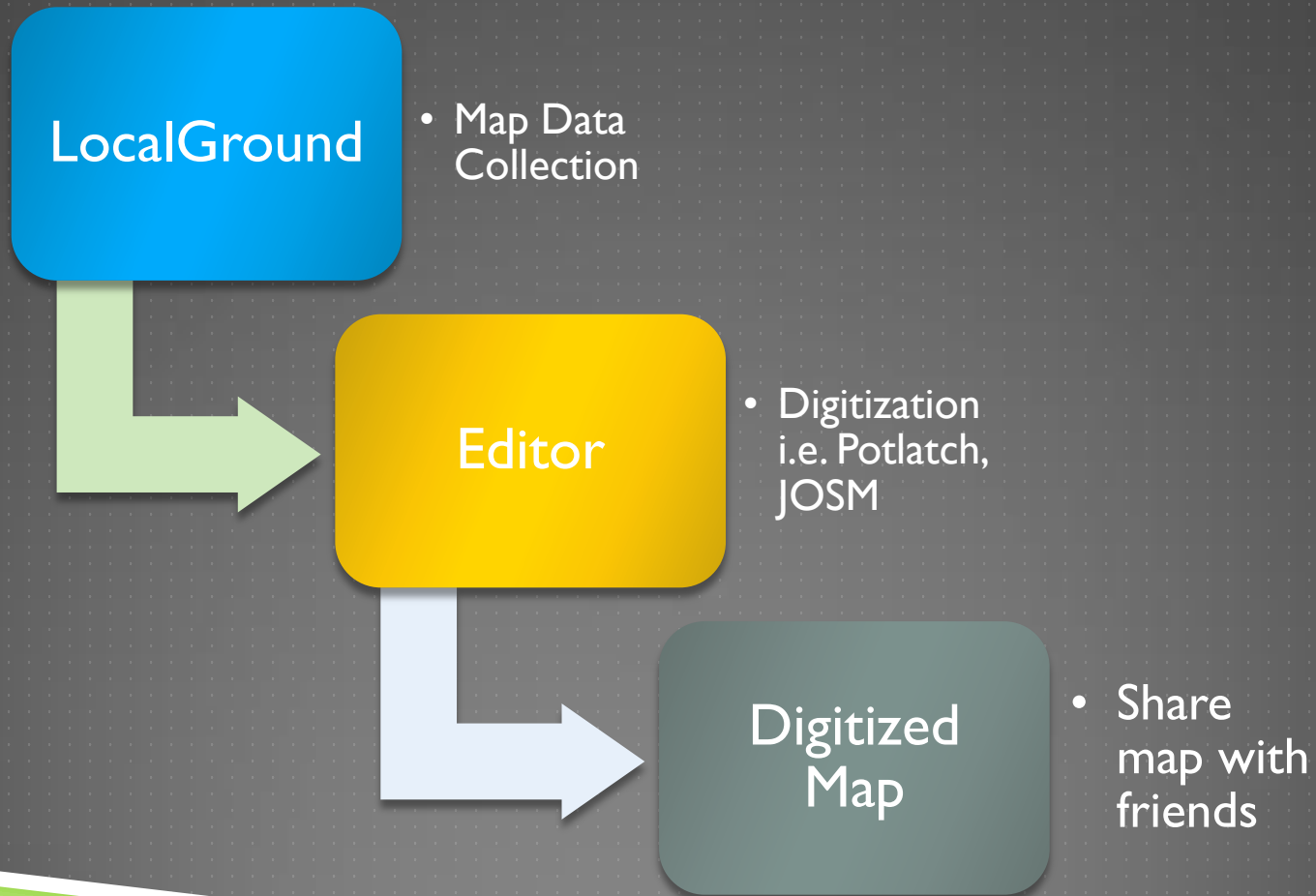
- ▶ Other related projects relate to this one?
 - ▶ Walking Paper, LocalGround, OSM, GoogleMap
- ▶ What ideas does it draw on and who has worked on them?
 - ▶ LocalGround: Paper collection of data.
 - ▶ OSM: Digitizing online editor.
- ▶ What makes this project novel/interesting?
 - ▶ Knowing that people will be able to use this project in real life situation.



FINDINGS SO FAR

- ▶ What did you do?
 - ▶ Research on what and how to digitize LG map data collection.
 - ▶ Plan on customizing online mapping tool into simpler version i.e. for disaster situation.
- ▶ Who did you talk to?
 - ▶ Tapan Parikh, Sarah Van (Advisor on LocalGround)

BASIC SCENARIO



THE ARCHITECTURE

ON-SITE VOLUNTEERS

1

PRINT A PAPER MAP OR
USE MOBILE APP



3

Take a pic of hand-annotated map and upload it to LG

2

EDIT MAP BY HAND



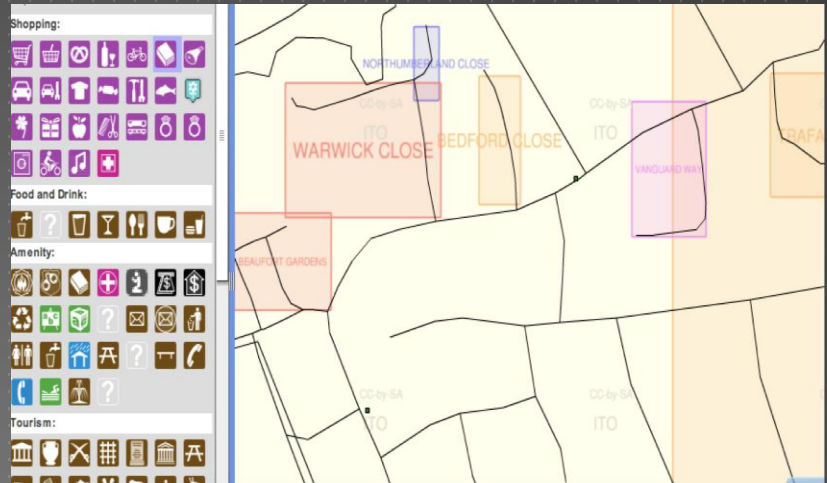
OFF-SITE VOLUNTEERS

4 SELECT THE UPLOADED MAP



5

EDIT THE MAP USING ONLINE EDITOR



6

PUBLICIZE YOUR MAP OR SHARE WITH FRIENDS



DESIGN AND EVALUATION

- ▶ How will you iterate on your prototype and its UI?
 - ▶ Who will you ask to provide feedback?
 - ▶ Our main client: LG
 - ▶ How will you evaluate your prototype and its UI?
 - ▶ Ask people to use our app, and fill in survey about their experience.

PLAN FOR NEXT QUARTER

WEEK 1

- Understanding LG source code.

WEEK 2

- Learning Potlatch and OSM API.

WEEK 3

- Find a way to customize Potlatch Editor to make it simpler for general purpose mapping or disaster.
- Research more on simpler online editor.

WEEK 4

- Implement the customization of online editor.

WEEK 5, 6

- Integrate the customized online editor to LG website.

WEEK 7

- Test the reliability of the integration. User review.

WEEK 8,9

- Explore the possibility of data collection through mobile phone.

WEEK 10

- GO LIVE!

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- ▶ <http://www.continuityinsights.com/articles/2012/08/structured-networks-self-coordinated-disaster-response>
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