

# CTIT Neogeography: The Treasure of User Volunteered Text

Mena B. Habib

## Abstract

Neogeography is the combination of user generated data and experiences with mapping technologies. This poster presents a research project to extract valuable structured information with a geographic component from unstructured user generated text in wikis, forums, or SMSes. The project intends to help workers communities in developing countries to share their knowledge, providing a simple and cheap way to contribute and get benefit using the available communication technology.

## Applications

In Africa, only one among every 250 persons has access to the internet while 97 % of people could access a mobile phone.



Trucking and road availability

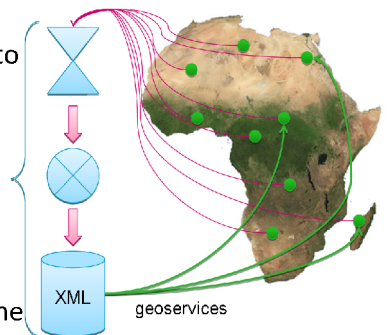


Farming, field, and climate suitability

## Objectives

Build sets of free services that:

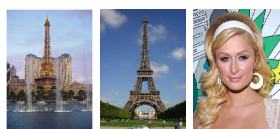
- enable end-users to express spatial knowledge in **free unstructured text**;
- extract specific spatial information;
- build a **structured database** from all the users contributions;
- make use of this collective knowledge to answer users questions with a sufficient level of quality.



## Challenges

### Uncertainty

"Hotel Paris Hilton room from 100 €"  
 "Hotel Paris Hilton room from 130 €"



Paris, Las Vegas Paris, France Paris Hilton



Trusted User

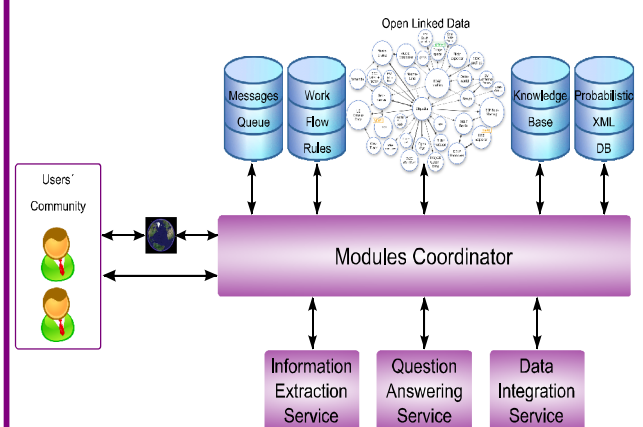


Untrusted User



Data Fusion

## System Architecture



## References

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- M. F. Goodchild. "Citizens as sensors: the world of volunteered geography". GeoJournal, Vol. 69, No. 4. Pages 211-221. 2007.
- Andrew J. Turner. "Introduction To Neogeography". O'Reilly Media, Inc. 2006.