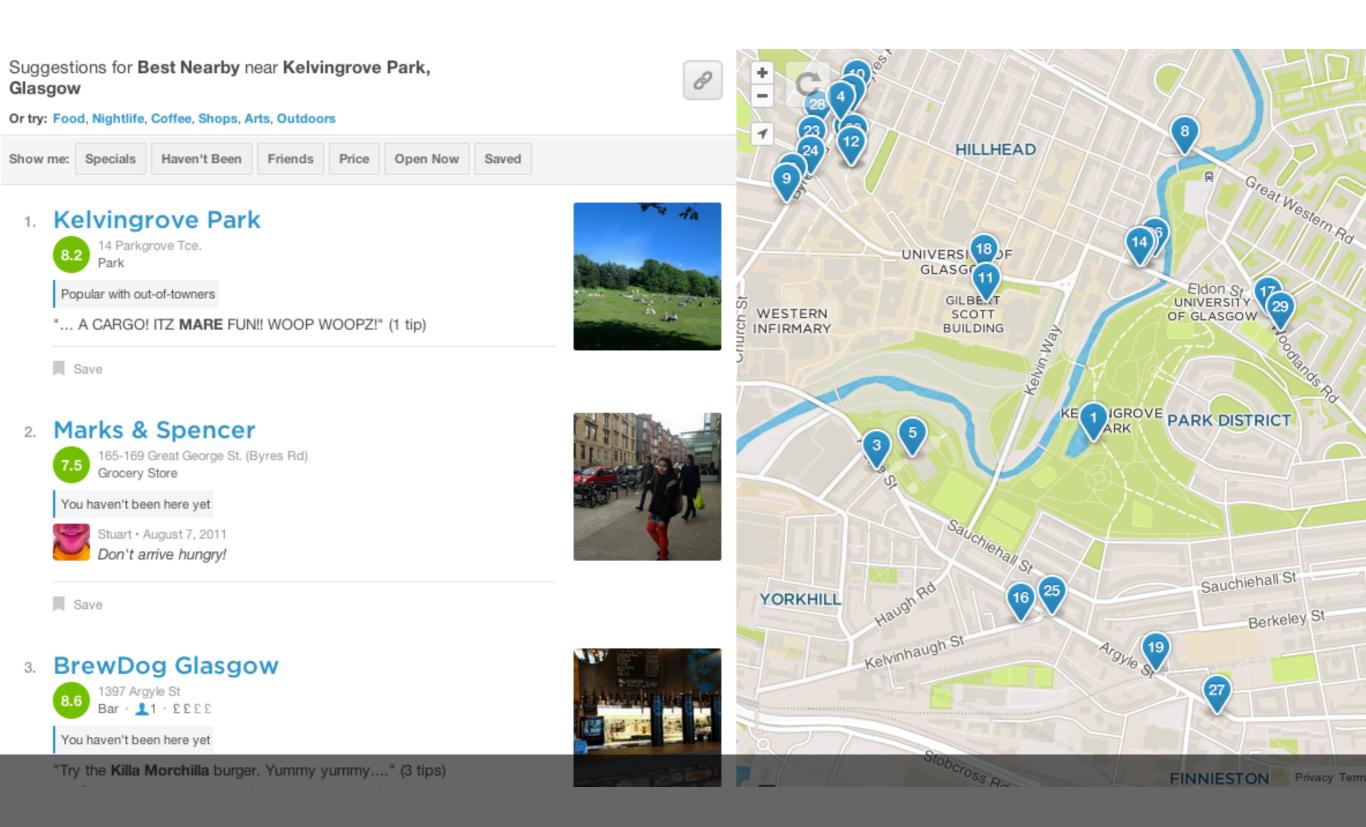


BRARD GARTES CARLES LIVE A

80 m

Human as sensors: geolocated data

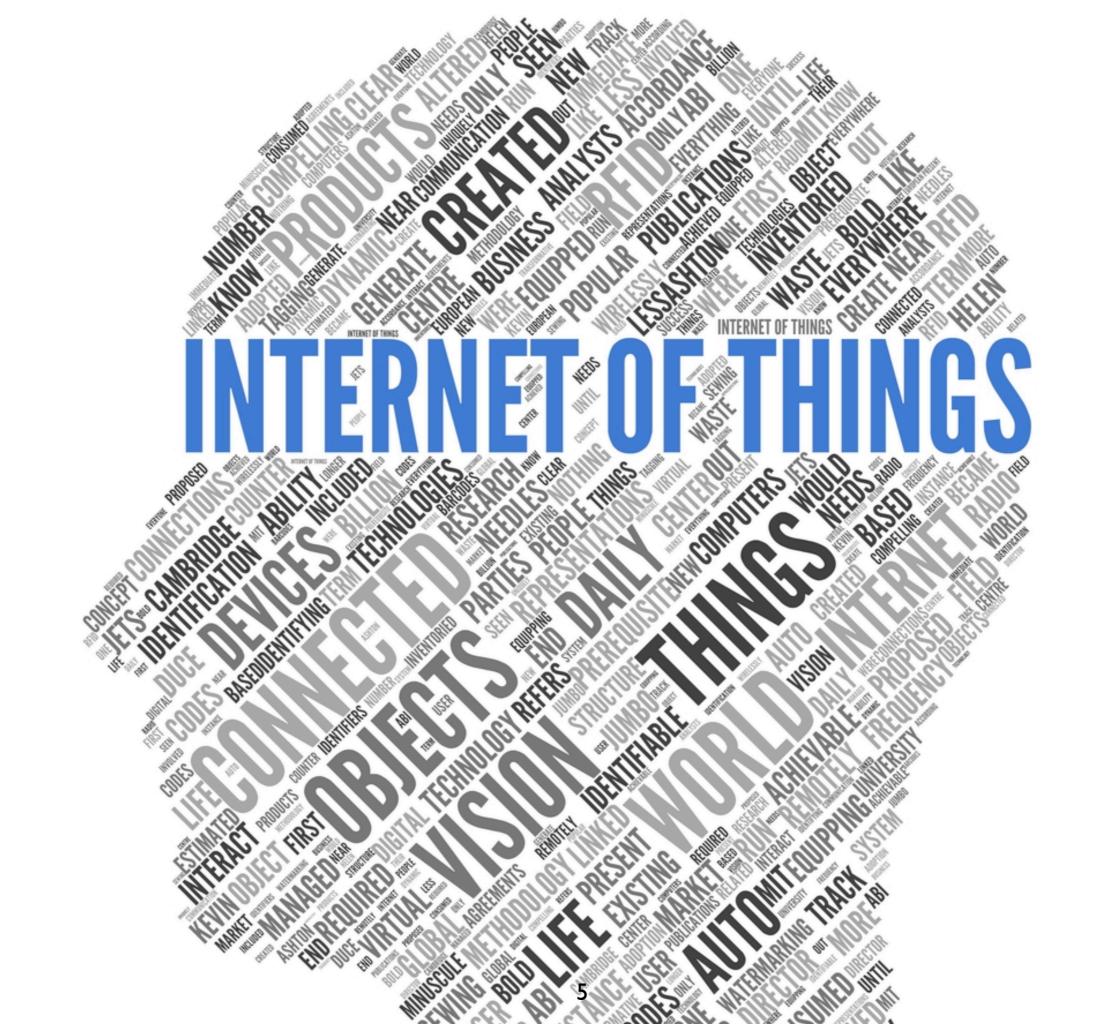


Location-based Social Networks (LBSNs)

- Industrial venue recommendation applications
- Only relying on user profiles

- Research directions: using the digital infrastructure of smart cities

- Evaluation challenges



- Currently, only social sensors are used for recommending venues (user profiles)
- Combining sources 🛂 🔰 🚼
- Physical sensors: cameras, microphones, rain/ pollution meters, ...

- With a better representation of the context come better recommendations
- GPS sensors in public transport can help to identify traffic jams in real-time
- Provide recommendations for areas that can be reached more easily

- Challenges in real-time storage and retrieval of sensor observations
- Making sense of observations, generate information
- Using past observations to forecast "events"
- Adaptive knowledge bases, standard data formats to improve reusability

- Challenges in evaluating [1] venue recommendations in a complex environment
- An infinity of contextual attributes
- Privacy issues: personalisation as another parameter?

[1] A. Dean-Hall, C. L. Clarke, J. Kamps, P. Thomas, N. Simone, and E. M. Voorhees. Overview of the TREC 2013 Contextual Suggestion track. In Proc. of TREC, 2013. 9

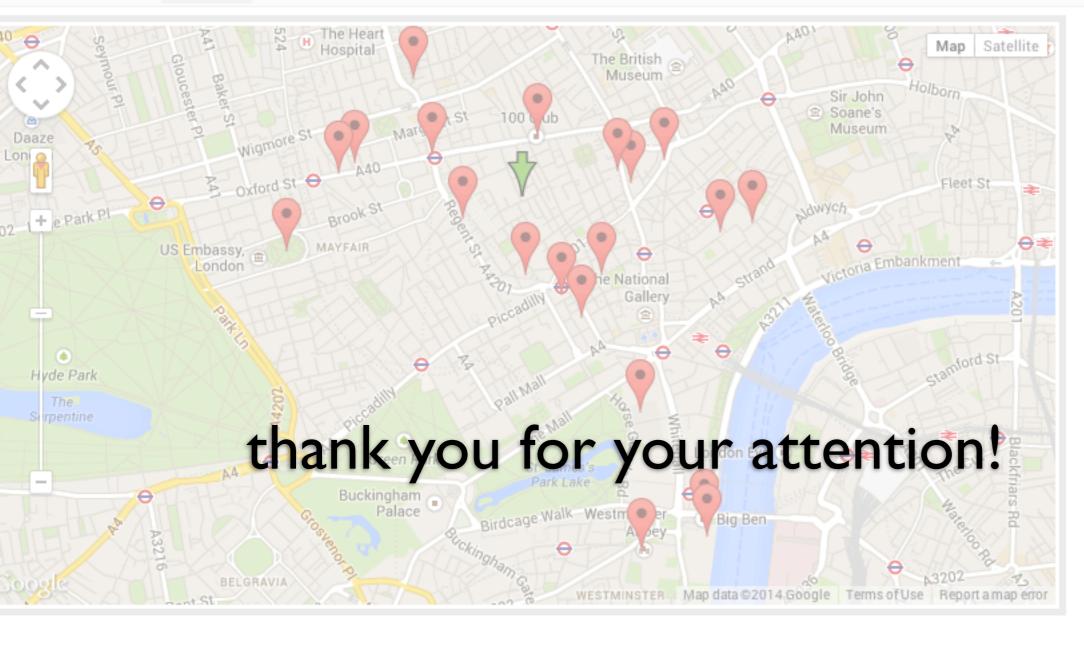
- Reusable test collections need to make assumptions, but simplifications may not reflect real use cases
- Explicit or implicit feedback from real users (mobile/web applications)
- GPS tracking after recommendations, A/B testing, interleaving, ...

f Log Out

Home

Privacy Assessments (research study)

Login as 👻 😥 smari



Suggested places



Suggested places

- 1. Hamleys
- 2. Debenhams
- Oxford Circus
- 4. Forbidden Planet
- 5. Apple Store
- 6. M&M's World
- 7. Westminster Abbey
- 8. BBC Broadcasting House
- 9. Big Ben
- 10. Grosvenor Square
- 11. 100 Club
- 12. Whole Foods Market
- 13. Phoenix Theatre
- 14. Horse Guards Parade
- 15. Disney Store
- 16. Houses of Parliament
- 17. Foyles
- 18. Cineworld
- 19. Balthazar
- 20. Cool Britannia