



Figure 6 - Smart City experimentation sites

The aforementioned smart city guide app which fulfills the on site visit scenario has been trialed at the Berlin experimentation site in lab trials and a large scale experiments during the IFA trade fare. Feedback gathered from the tests has been evaluated and the results were integrated in the future development process.

VI. Outlook

The use cases have shown that city applications do play an important role in future smart city ICT infrastructures. The establishment of open platforms and device-independent city applications for administrative services, municipal service providers and even the people visiting a future city support the involvement of open data for future services. Citizens will benefit in their daily life and visitors will enjoy tailored services with up-to-date information about infrastructures and services. FI-CONTENT will support this idea with ongoing large-scale experiments and a cross-European open platform for smart city services. Trials started in Berlin will be conducted in Barcelona in April 2014 by integrating up to 10.000 data records provided by the Barcelona experimentation site and their partners. In Berlin we have planned the next large scale trial around the 25th anniversary of the “Fall of the Wall”. Based on our open enablers, we will provide smart city apps around this event including recent technology as well as relevant media to provide Berlin tourists and citizens with the best experience and a comprehensive presentation of this historical cultural event.

Through its open platforms and enablers, FI-CONTENT offers opportunities for third party developers, SMEs and domain experts to get involved. Open APIs for components such as Content Enrichment and the open source Open City Database will enable the creation of further services and applications. This also applies to FI-PPP phase 3 [15] participants and beneficiaries selected through the FI-CONTENT Open Call [16].

REFERENCES

1. Call, F. I. P. P. “Future Internet PPP Call 3 in a nutshell.” *Broadband* (2013): 201317. <https://www.fi-ppp.eu/>
2. Future media Internet for large-scale CONTENT experimentation 2 (FI-CONTENT 2) <http://mediafi.org/>
3. Smart City Services Platform Brun, A.; Bille-Bize Masson, C.; Seeliger, R.; Krause, D.: Scenarios, functional and technical specifications. Public Report D3.1 on the Smart City Services Platform
4. FI-WARE <http://catalogue.fi-ware.eu/>
5. Cattell, Rick. “Scalable SQL and NoSQL data stores.” *ACM SIGMOD Record* 39.4 (2011): 12-27.
6. Crockford, Douglas. “The application/json media type for javascript object notation (json).” (2006).
7. Auer, Sören, et al. “Dbpedia: A nucleus for a web of open data.” *The semantic web*. Springer Berlin Heidelberg, 2007. 722-735.
8. Luca, Michael. Reviews, reputation, and revenue: The case of Yelp. com. No. 12-016. Harvard Business School, 2011.
9. Ellison, Nicole B., Charles Steinfield, and Cliff Lampe. “The benefits of Facebook “friends.” Social capital and college students’ use of online social network sites.” *Journal of Computer-Mediated Communication* 12.4 (2007): 1143-1168.
10. Sigurbjörnsson, Börkur, and Roelof Van Zwol. “Flickr tag recommendation based on collective knowledge.” *Proceedings of the 17th international conference on World Wide Web*. ACM, 2008.
11. Krauss, C.; George, L.; Arbanowski, S.: “TV predictor: personalized program recommendations to be displayed on SmartTVs.” *Proceedings of the 2nd International Workshop on Big Data, Streams and Heterogeneous Source Mining*. ACM, 2013
12. Holdener, Anthony T. *HTML5 Geolocation*. O'Reilly Media, Inc., 2011.
13. Open WeatherMap <http://openweathermap.org/>
14. Escalona, Eduard, et al. “Using SDN for Cloud Services Provisioning: The XIFI Use-Case.” *Future Networks and Services (SDN4FNS)*, 2013 IEEE SDN for. IEEE, 2013.
15. FI-PPP Phase 3 https://www.fi-ppp.eu/wp-content/uploads/2013/09/FI-PPP-Work-Programme_2011-2013_Update-2013.pdf
16. FI-CONTENT Open Call <http://mediafi.org/open-call/>