

Mobile Location-Based Services

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- **Anticipate** future application areas for bulk location data.



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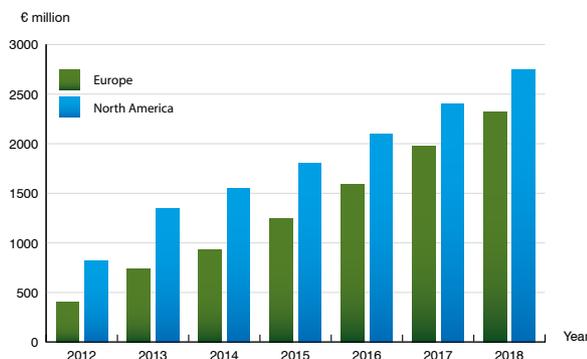
What are the latest developments on the mobile LBS market?

Mobile location-based services (LBS) are gradually achieving mainstream market acceptance along with increasing usage of smartphone apps. At the end of 2013, smartphone adoption had reached 67 percent in North America and 58 percent in the EU27+2. Berg Insight estimates that about 50 percent of all mobile subscribers in Europe were frequent users of at least one location-based service at the end of 2013. In North America where adoption of GPS-enabled handsets is still somewhat higher, an estimated 60 percent of all handset users now access location-based services regularly. The increase in usage of LBS and the number of active users has finally resulted in significant revenue growth, especially for leading companies like Google and Facebook. In 2013, total LBS service revenues in the EU 27+2 reached an estimated € 735 million and Berg Insight forecasts LBS revenues in the region to grow to € 2.3 billion by 2018. In North America, revenues are forecasted to grow from almost US\$ 1.8 billion in 2013 to nearly US\$ 3.8 billion by 2018. The main growth will come from increasing ad revenues in the social networking and local search segments. However, various enterprise and B2B services such as mobile analytics and location-based advertising are also forecasted to grow fast in both Europe and North America in the next few years.

There are many alternative ways to categorise LBS. In this report, LBS are divided into eight service categories based on primary function: mapping and navigation, local search and information, social networking and entertainment, recreation and fitness, family and people locator services, mobile resource management, mobile advertising, as well as other enterprise and B2B services. The social networking and entertainment category is now the largest LBS segment in terms of number of users and revenues. It comprises a broad set of services that can be segmented into general social networking, chat and messaging apps, friendfinders and location-enhanced games. The mobile channel has become a priority for the leading social networks that see rapid growth in access from mobile devices. Many of these services have various forms of location support ranging from sharing geo-tagged content to location sharing and check-in features. Mapping and navigation is the second largest segment in terms of revenues and the third largest in terms of number of active users. Although the number of active users of mapping and navigation services is still growing, revenues are only increasing slowly as competition from free and low cost services has intensified. More navigation service providers are now focusing on freemium apps where the ►

► core navigation service is free and users have the option to purchase additional content and features. Local search and information services is now the second largest LBS category in terms of unique users, driven by the adoption of handsets with improved capabilities and changing user habits. The recreation and fitness segment is also growing in terms of active users and revenues along with current trends of increasing attention to personal wellness. Recreation and fitness apps that turn smartphones into convenient substitutes for GPS devices and sports watches can cater to the needs of many outdoor and sports enthusiasts. Family locator services have been part of mobile operators' LBS portfolios for many years – especially in the US – but are now facing competition from app developers.

Broader availability and declining costs of smartphones is also enabling increasing adoption of workforce management services that aim to improve operational efficiency for businesses. Many businesses are now adopting more standardised workforce management apps, even large companies that have previously used customised solutions, in order to reduce cost of IT system procurement and maintenance. Mobile advertising and enabling various forms of enterprise and B2B services still remains a focus area for many mobile network operators. Besides working directly with major customers, operators are also exploring opportunities to leverage their assets, for instance by opening their location platforms to third party developers and location aggregators that play an important role as intermediaries between mobile operators and developers. Network-based location data is valuable for developers and third parties that need to locate any device, not only GPS-enabled smartphones. Mobile operators can provide network-based location data for a wide range of services such as fraud management, secure authentication and location-based advertising. Some mobile operators have now started to use anonymous bulk location data to improve the performance of their networks or to support internal marketing campaigns, for instance to up-sell mobile broadband services, as well as support external customers in the mobile advertising industry. Location analytics data is also being adopted for diverse purposes such as site selection in the retail industry, as well as for urban planning and traffic monitoring by public authorities and private companies.



Mobile LBS revenue forecast, € million (2012–2018)

This report answers the following questions:

- How can mobile operators use location data for mobile analytics services?
- How is location data used in secure authentication and fraud management services?
- How are free navigation services affecting the market dynamics?
- What are the mobile strategies of search engines and directory publishers?
- How is location technology used by mobile social networks and communities?
- How is GPS-technology altering the conditions for people locator services?
- How are smartphones changing the mobile resource management market?
- How is location being used to add value in mobile advertising?

Executive summary

1 Introduction to location-based services

1.1 Definition of mobile location-based services

1.2 Mobile communication services

- 1.2.1 Mobile voice and SMS
- 1.2.2 Mobile data and applications
- 1.2.3 Smartphone adoption and platform market shares
- 1.2.4 A brief history of location platforms and services

1.3 Mobile LBS categories

- 1.3.1 Mapping and navigation
- 1.3.2 Local search and information
- 1.3.3 Social networking and entertainment
- 1.3.4 Recreation and fitness
- 1.3.5 Family and people locator services
- 1.3.6 Mobile resource management
- 1.3.7 Mobile advertising
- 1.3.8 Other enterprise services

1.4 Mobile app monetisation strategies and business models

- 1.4.1 Free apps
- 1.4.2 Paid apps
- 1.4.3 Freemium apps and in-app payments
- 1.4.4 Ad-funding
- 1.4.5 New channel to market
- 1.4.6 Bundled products and services
- 1.4.7 Mobile app business model trends

1.5 Mobile location technologies and platforms

- 1.5.1 Mobile network-based location technologies
- 1.5.2 GNSS: GPS, GLONASS, Galileo and Compass/BeiDou 2
- 1.5.3 Bluetooth and Wi-Fi positioning
- 1.5.4 Hybrid and mixed mode location technologies
- 1.5.5 Probe-based and handset client-based location platforms

2 Smartphone ecosystems

2.1 Smartphone OS platforms

- 2.1.1 Smartphone platform market shares
- 2.1.2 Smartphone vendor market shares

2.2 App stores

- 2.2.1 Apple App Store
- 2.2.2 BlackBerry App World
- 2.2.3 Google Play
- 2.2.4 Nokia Store
- 2.2.5 Windows Phone Store

2.3 Ad networks and in-app ad solutions

- 2.3.1 Apple – iAd
- 2.3.2 BlackBerry – BlackBerry Advertising Service
- 2.3.3 Google – AdMob
- 2.3.4 Microsoft – Microsoft Advertising

2.4 Smartphone industry analysis

- 2.4.1 Smartphone platforms are becoming new vertical silos
- 2.4.2 Towards complete LBS offerings
- 2.4.3 Handset vendors and operators start to back emerging smartphone platforms
- 2.4.4 The mobile web, HTML5 web apps and native apps

3 Operator LBS offerings and strategies

3.1 The European operator LBS market

- 3.1.1 3 Group
- 3.1.2 Deutsche Telekom Group
- 3.1.3 Orange Group
- 3.1.4 SFR
- 3.1.5 Telefónica Group
- 3.1.6 Telenor Group
- 3.1.7 TeliaSonera Group
- 3.1.8 Vodafone Group

3.2 The North American operator LBS market

- 3.2.1 AT&T Mobility
- 3.2.2 Bell Mobility
- 3.2.3 Rogers Wireless
- 3.2.4 Sprint
- 3.2.5 TELUS
- 3.2.6 T-Mobile USA
- 3.2.7 US Cellular
- 3.2.8 Verizon Wireless

3.3 Industry analysis

- 3.3.1 Organisational capabilities and goals limit operator's ability to provide LBS
- 3.3.2 Smartphone platforms challenge operators' role as distribution channel
- 3.3.3 Operators are no longer the central source of location data
- 3.3.4 Emerging opportunities for operators to sell bulk location data

4 Consumer LBS categories

4.1 Mapping and navigation

- 4.1.1 Mapping and routing services
- 4.1.2 Speed camera warning apps and services
- 4.1.3 Traffic information services
- 4.1.4 Turn-by-turn navigation services
- 4.1.5 Navigation app distribution channels and business models
- 4.1.6 Mobile operator navigation service offerings
- 4.1.7 Key mapping and navigation app developers

4.2 Local search and information

- 4.2.1 Directory services
- 4.2.2 Local discovery and review services
- 4.2.3 Travel planning, guides and information services
- 4.2.4 Shopping and coupon services

4.3 Social networking and entertainment

- 4.3.1 Social networking and community services
- 4.3.2 Check-in services
- 4.3.3 Friendfinder services
- 4.3.4 Chat, instant messaging and VoIP services
- 4.3.5 Location-based games

4.4 Recreation and fitness

- 4.4.1 Geocaching apps
- 4.4.2 Outdoor navigation
- 4.4.3 Sports tracking apps

4.5 Family and people locator services

- 4.5.1 Family locator services marketed by mobile operators
- 4.5.2 Third party family and people locator apps and services

5 Enterprise LBS categories and LBA

5.1 Mobile resource management

- 5.1.1 Fleet management services
- 5.1.2 Mobile workforce management services
- 5.1.3 Lone worker protection services

5.2 Mobile advertising

- 5.2.1 The advertising and marketing industry
- 5.2.2 Advertising on the mobile handset
- 5.2.3 Definitions and variants of location-based advertising (LBA)

5.2.4 LBA formats

5.2.5 LBA industry analysis

5.3 Mobile marketing and analytics

5.3.1 Case studies

5.4 Other B2B and enterprise services

- 5.4.1 Location-enhanced call centre services
- 5.4.2 Fraud management
- 5.4.3 Secure authentication

5.5 Location aggregators and Location-as-a-Service providers

5.5.1 Deveryware

5.5.2 Locaid

5.5.3 LocationSmart

5.5.4 Lociloci

5.5.5 Mobile Commerce

5.5.6 Skyhook Wireless

6 Market analysis and forecasts

6.1 Summary of the LBS market

- 6.1.1 The European LBS market
- 6.1.2 The North American LBS market

6.2 Mobile advertising and LBA

- 6.2.1 Challenges and opportunities
- 6.2.2 Location can improve ROI for advertisers

6.2.3 LBA market value forecast

6.3 Vertical market trends

- 6.3.1 Navigation apps continue to transition from premium to freemium
- 6.3.2 Mobile search and information service usage approach PC access levels
- 6.3.3 Social networking and entertainment increasingly monetise mobile apps
- 6.3.4 Smartphones are increasingly used as recreation and fitness devices
- 6.3.5 Family and people locator service adoption is driven by free apps
- 6.3.6 Corporate efficiency investments drive WFM service adoption
- 6.3.7 Enterprise services, mobile analytics and LBA

Glossary



About the Author

André Malm is a senior analyst with a Masters degree from Chalmers University of Technology. He joined Berg Insight in 2006 and his areas of expertise include location-based services, personal navigation services and wireless M2M markets.

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