

The Project objectives

The Development and Validation of Technologies for Indoors User Location, Network Planning and Management for mobile users in a networked environment and for new generation mobile devices (Smartphone, LTE and Femtocells).

- Mobile user indoor location
- Technologies for independent management of heterogeneous networks, which will optimize the performance of networks and resources
- Prototype applications using these platforms



MONOLOC Project is funded by the Ministry of Economy and Competitiveness within the National Plan for Scientific Research, Technological Development and Innovation 2008-2011 and the European Development Fund (ERDF). Record (IPT-430000-2011-1272)



Advanced Management Platform for Mobile and Heterogeneous Next-Generation Networks with Indoors User Location

Localization Subsystem (LOS)

Self-Organizing Networks (SON)

Application Subsystem (AS)





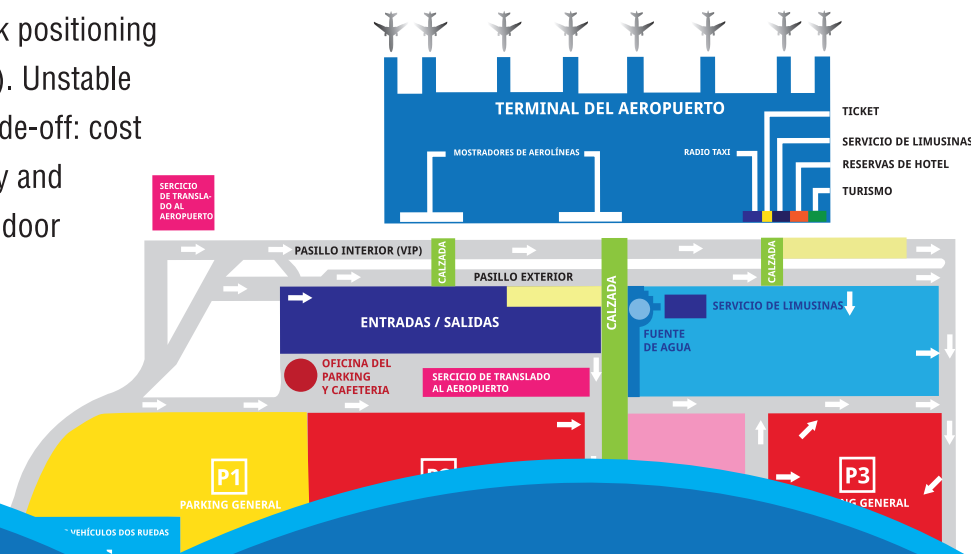
Challenges

- Network Deployment and Management:
New paradigm of mobile network deployment.
 - From large macro networks to client-side networks. New network schemes.
 - Self-Organizing Networks Self-healing
 - Interaction between customer side and core network.
 - Commissioning and decommissioning of mobile network infrastructure elements
- Positioning
 - Application of mobile network positioning in indoor (beyond the cell ID). Unstable positioning environment. Trade-off: cost and applicability, functionality and performance. No universal indoor solution like outdoor GPS

Approach

Based on Small-Cells Networks and on Smart phones. No additional hardware. Battery saving. Network-aware. Small-cells outage detection and compensation and power transmission changes aware via SON info.

Reduces unpredictable results using a recalibration system capable of detecting the environment changes and minimizing their adverse effects.



The MONOLOC Platforms offers

A high Tech Location and Network Management Solution developed by best of class Research Centers.

A Partnership of High Tech Industry Partners with Flexible Application Engineering and designers adapted to the Market .

For the Telcom Operator

deploying added value SON, Reconfigurable Mobile Networks with minimum impact and cost.

For the Shop Manager

wishing to Offer Premium Customers an enriched Shopping experience linked to preferences and, adding location based focused promotion of products or services

Further info:

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