



The ESA Business Incubation Centre Barcelona (ESA BIC Barcelona) opened in 2014. It is managed by Barcelona Activa and supported locally by renowned public administrations and institutions, namely Area Metropolitana de Barcelona, Diputació de Barcelona, Consell Comarcal del Baix Llobregat, Universitat Politècnica de Catalunya – Parc UPC and Caixa Capital Risc. Located in Barcelona, Spain, this incubator offers start up support and technical expertise for the creation of innovative companies.

ROKUBUN

Innovative Navigation Solutions



Website

Founded in 2015 by

- **Xavier Banqué-Casanovas**
- **Miquel Garcia-Fernàndez**

Incubation period

14-04-2015 to 13-04-2017



space solutions

About ROKUBUN

Rokubun (from the Japanese word for Sextant, 六分儀 or 'Rokubungi') is a R&D company established in 2015 after being awarded by the European Space Agency (ESA) incubator programme. We are focused on research and development of accurate and innovative navigation solutions targeted to the mobile market and R&D ideas blending Navigation and Earth Observation. Need to outsource R&D in GNSS or EO fields?!

Contact info

- - Esteve Terrades, 1
 - 08860
 - Barcelona
 - Spain
- rokubun@rokubun.cat
- 934137638

The challenge

Rokubun's challenge is to democratize accurate geolocation by means of providing low cost precise positioning for mobile devices.

As it is known, smartphones and other mobile devices such as tablets, include positioning

capabilities (usually provided by an embedded GPS chipset) with limited accuracy (meter level). Due to their high versatility and connectivity and despite this relatively poor accuracy, these devices are already playing a key role in automated vehicle fleet services, smart agriculture and wide area outdoor logistics. On top of these, these devices are also likely to become one of the cornerstones of the emerging vehicular technologies called V2I (vehicle-to-infrastructure) and V2V (vehicle-to-vehicle), usually grouped under the generic acronym of V2X. However, in order to leverage these devices in the technologies requiring accurate geolocation, it is essential to increase their position accuracy to sub-meter accuracy, at least.

The solution

PARADIGM technology will enable low profile GNSS chipsets to reach decimetric accuracy geolocation estimations paving the way for a myriad of new applications requiring accurate positioning.

