

# Mountain bike trail signposting with EGNOS

EGNOS workshop 2019

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#### What is IMBA?

- From a legal perspective IMBA is a non-profit association.
- It is the largest mountain bikers' association in the world.
- It was founded in 1988 in California (US).
- At present, IMBA's worldwide network includes Chapters in 5 continents.
- At European level, IMBA Europe is an umbrella association comprising 22 countries, including IMBA Spain.















### Goals of the association

- Advocacy for the rights of mountain bikers.
- Restoration and maintenance of mountain pathways and trails that have disappeared for lack of use.
- Georeferencing of such paths and trails.
- Trails signposting.
- Implementation of the programme `More trails close to home'.















#### Who do we work with?

















#### Our activities







Organization of environmental education and awareness-raising seminars for mountain bikers.







Delivery of training courses for MTB trail signposting experts.















# Trail sign-posting

At a developer's request, we design MTB routes.











- We check that the trails involved are publiclyowned.
- We request permissions from Environmental Authorities for right-of-way access.
- We create the tracks of the routes by using a GPS device enhanced with EGNOS.















#### Field work

- Routes are georeferenced with GPS tracking.
- Every location that entails further work is georeferenced.
- The situation of every signpost and mark is georeferenced.



















#### Office work

- Data obtained from a GPS/EGNOS device are loaded into mapping software.
- Accurate georeferencing of every feature is essential to obtain the desired result.

 Time saved by using EGNOS entails greater professional efficiency.

















# Work and projects undertaken

- To date, IMBA has implemented 90 trail sign projects: almost 36,000 km of georeferenced signposted routes.
- IMBA designs signposted routes and also routes to be followed by using GPS tracks.
- GPS tracks are more advisable for areas with high environmental protection, to avoid impact on landscape.







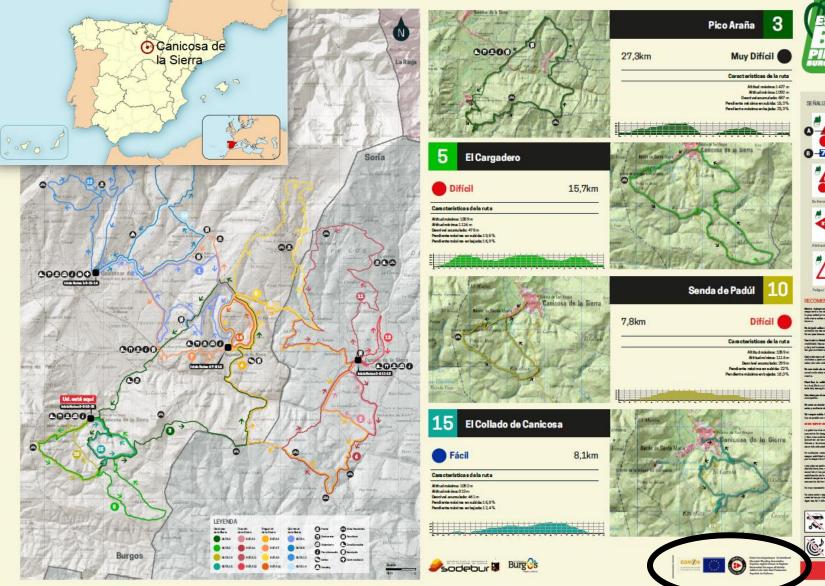








# Canicosa de la Sierra





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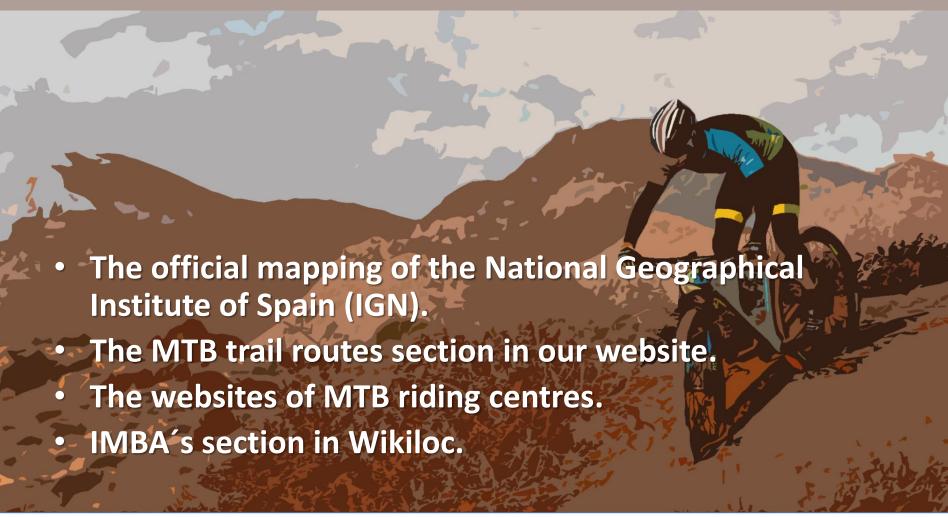








# Where do our tracks go?

















# How does IMBA benefit from the use of EGNOS system?

















# As a result of the above:

- The use of EGNOS system is now compulsory for IMBA trail signposting experts.
- Our Technical Manual has been amended to include EGNOS (2019 edition).
- The use of EGNOS system has been included in our training courses for trail signposting experts.

















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# Thank you for your attention

