Acoustic rail

First GPS eyes-off for mountain runners



8th SNOW AND MOUNTAIN
TOURISM WORLD CONGRESS
9 · 10 April 2014 · Andorra la Vella · Andorra







"Una manera de hacer Europa" **UNIÓN EUROPEA**

Spanish Mountain Tourism Cluster

- Born in Spain in 2013
- Key points
 - Mature and fragmented sector
 - Need to reinvent the offer
 - Differentiation and competitiveness based on innovation.
- Working groups
 - Safety
 - Commercialization
 - Sustainability
 - Tourism product innovation



Innovative satellite navigation





Connecting people with Satellite Navigation Technologies

Navigation based on senses

Helping people to navigate in the outdoors by using haptic and acoustic stimulus

Collaborative navigation

Sharing people position for don't loose anyone and don't get lost

Where is the pain?



Increasing number of people practicing mountain sports, resulting into more incidents and accidents.



Users professional assistance in the mountains, like search and rescue activities, is complex and expensive



Companies and institutions organizing need new solutions for reducing mountain risks.

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Innovation

+ Adventure

+ Safety



Acoustic Trail



Safe Mountain

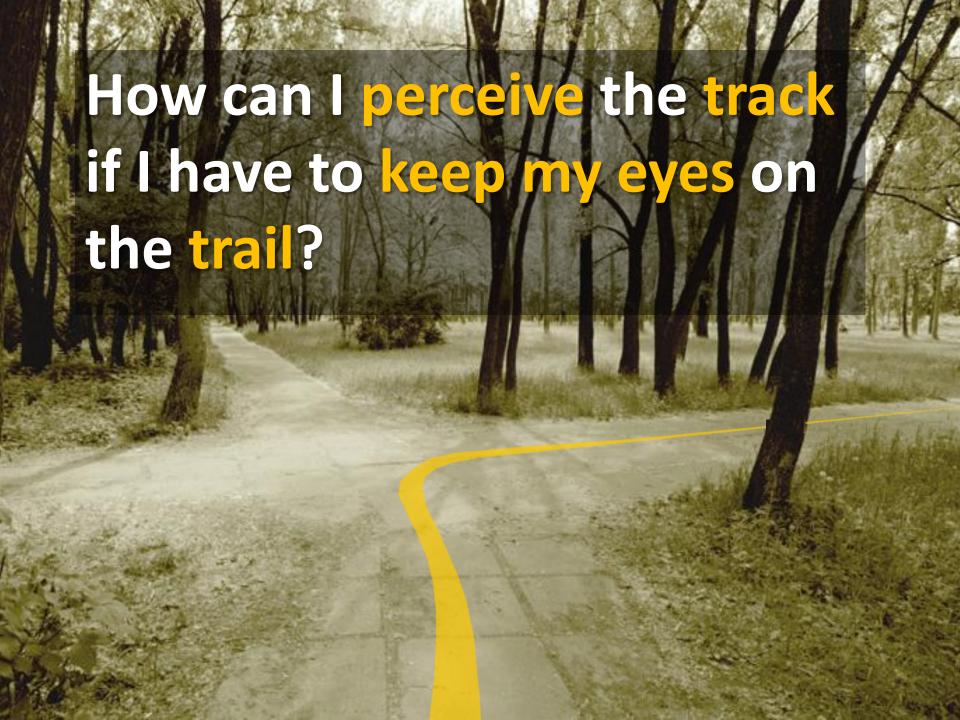




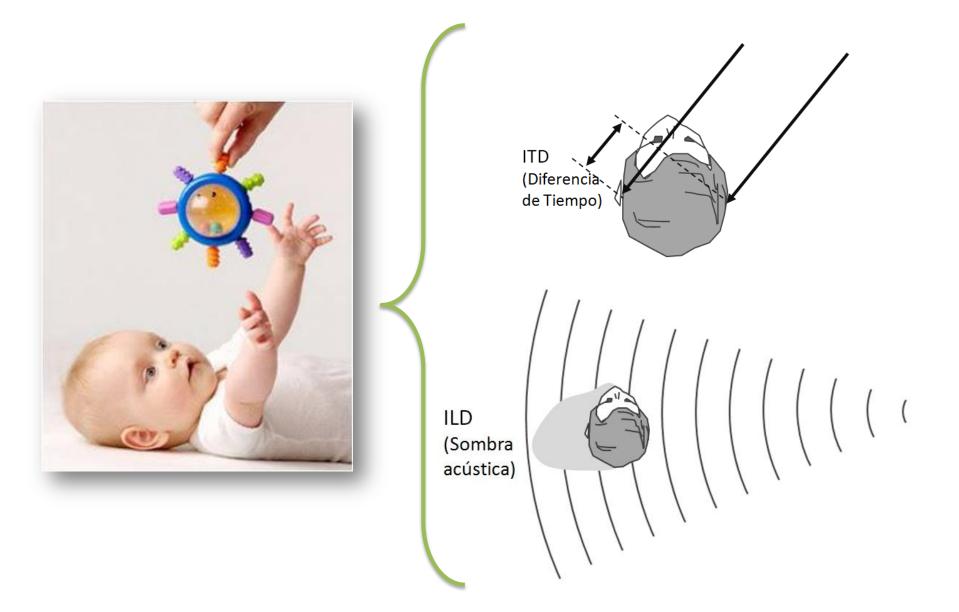


What does user need?

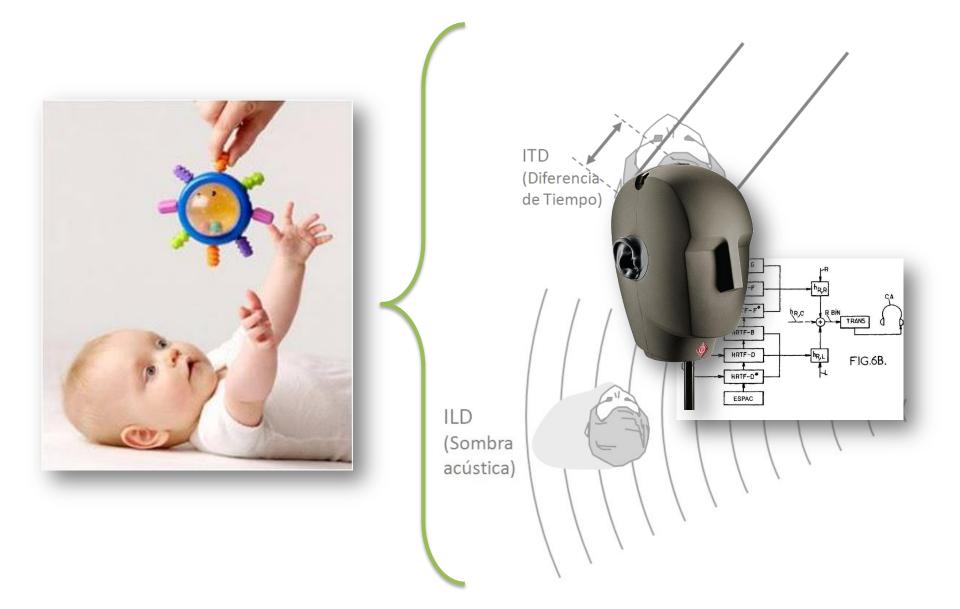
To know the track
Navigate without getting lost
Keep the eye on the trail
Don't stop for consulting maps or GPS



Where do the sounds come from?



Binaural sounds technologies





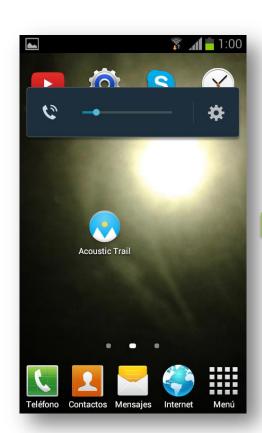
What is the Acoustic Trail App

Acoustic Trail is an Android smartphone application based on GPS and 3D sounds.

It support mountain runners by guiding them along an specific track, without taking eyes off the trail.



Start here

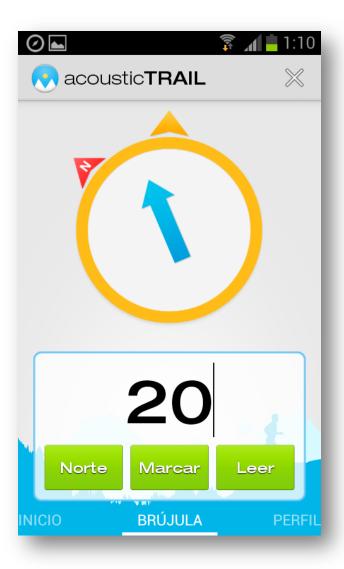




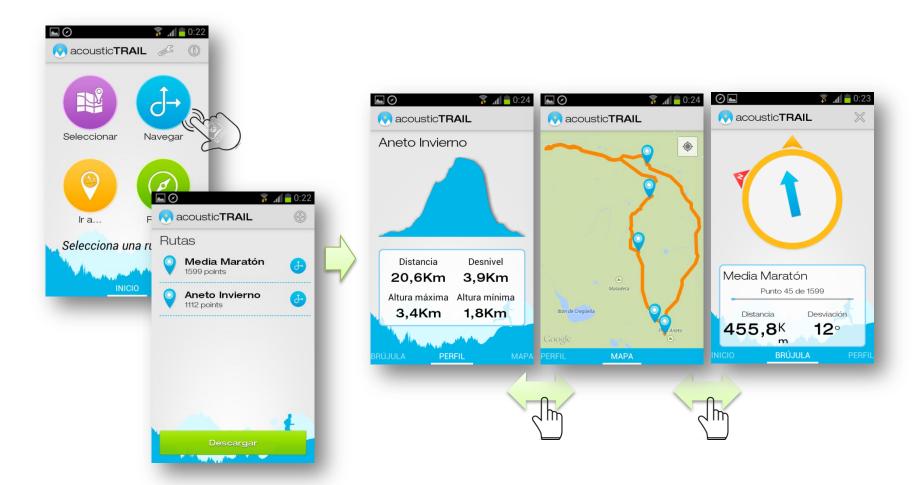


Bearing navigation

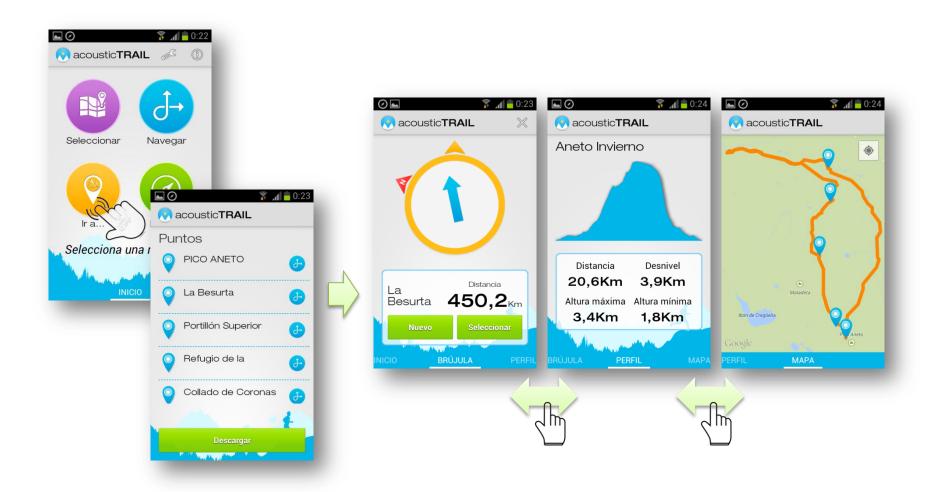




Track navigation



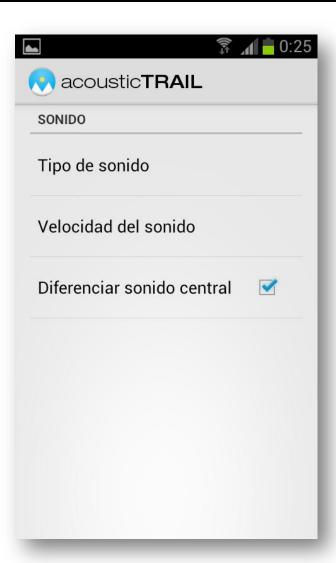
Go-To Point Navigation



Settings







Next steps

End user tests and validation
Other smartphones platforms
Extend application to other areas









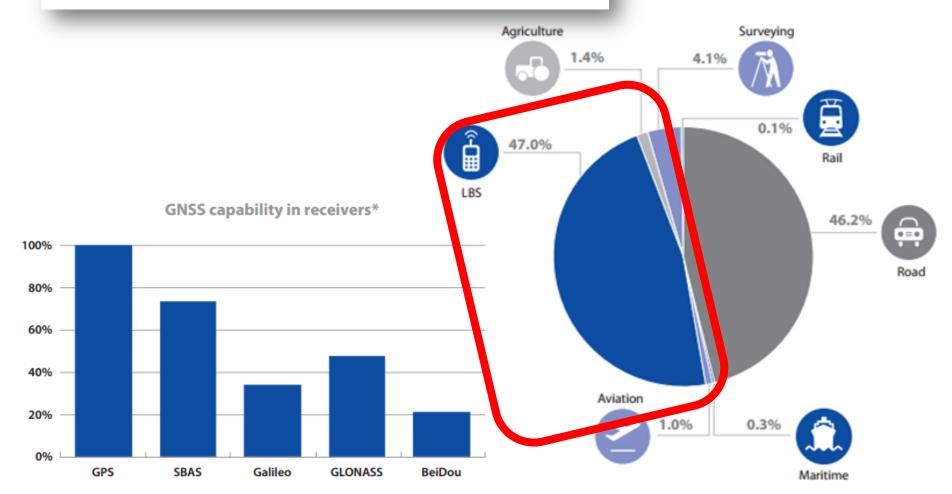


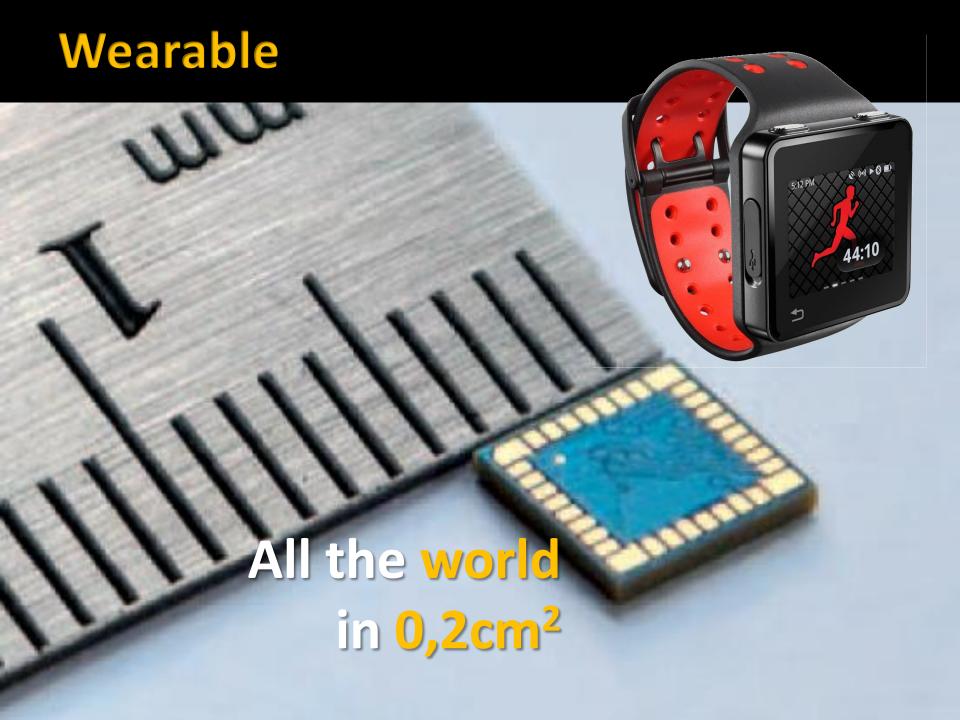




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Acoustic Tail

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