Smartglasses for the Blind
The Technology Behind Eyesynth
It is not Virtual Reality. It is not Augmented Reality. Our technology enhances the hearing experience with spatial information. Our Smartglasses take the environment in 3D and transform it into audio. The system produces a stable sound, giving the ability to distinguish shapes, spaces and obstacles with unprecedented accuracy. People with sight problems, from low vision to total blindness, have use of the guide dog and white cane, no technological tool, a new standard for mobility.

So here is our concept, the Augmented Sense Experience, and our technology, Eyesynth. We offer the next step ahead.

1. **3D Environment**
The surrounding space is recorded and processed in real-time. Ground and aerial obstacles are detected within milliseconds. Accuracy and time of reaction are fundamental for safe everyday activity.

2. **Easy to Use**
The 3D images are processed by a small CPU, and converted into sound. The system is extremely easy to learn and use. Users can easily customize the functionality to their needs.

3. **Lightweight and Stylish**
Form and function. The electronic components are miniaturized to fit in a stylish and cool (both temperature and look) glasses frame. Opaque, mirrored or prescription lenses can be used.

4. **Bone Conduction**
The sounds produced by Eyesynth are transmitted through the skull bone directly to the cochlear nerve. It’s hygienic, leaves ears unblocked, and eliminates hearing stress. Ears are free to listen to every sound without interferences.

"It’s amazing when you grab an object at first attempt"  

"With this bare thing alone, I dare to hit the streets!"  
Miguel Benages, Director of "La ONCE" - National Blind Organization in Castellón (Spain).