RightHear

A Technical Overview of the RightHear Solution

In this document we will provide an overview of how the RightHear orientation & mobility solution works.
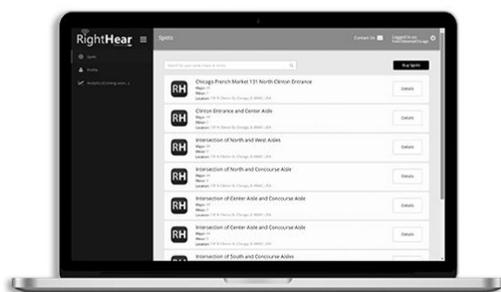
System Objective

RightHear is an advanced accessibility solution that uses a unique three component technology to help grant blind and visually impaired individuals the independence they deserve by providing them with tools to better orient themselves in public spaces.

Technical Breakdown

The RightHear solution consists of three key components that all integrate with each other:

1. An online dashboard interface that allows for the information to be easily managed and updated by the location's management.
2. Bluetooth low-energy sensors (Beacons) that enables the playback of voice information in locations where they are installed.
3. The RightHear smartphone application reads the information to the user allowing them to orient themselves. The app is available for free download on both Android and iOS.

Dashboard   Beacon   Mobile App

RightHear

How the Components Work Together

When users approach an Accessible Spot, their phone uses its Bluetooth capabilities to connect and receive all of the information programmed to the beacon via the online dashboard. The phone then reads the information out loud to the user using either the VoiceOver feature on iOS or the TalkBack feature on Android.

Dashboard Features

The customizable dashboard allows our clients to have complete control over their accessibility efforts, as the dashboard allows one to edit information, add language support and gain insights via the analytics section. If RightHear users give a venue feedback that they're providing too little or too much information in a certain spot, they can instantaneously improve their accessibility efforts in real time at the click of a button. This makes it easy for our clients to change their content anytime they change signage in their venue- whether its to announce different hours, a change in physical layout or showcase a new sale/ product. Our dashboard also incorporates the Wayfindr standard for writing audio prompts making sure our clients follow the standard and avoid common mistakes when describing their venue.

Beacon Features

The beacons' sole purpose is to share the pre-programmed orientation data via a bluetooth connection to the RightHear mobile application. Our beacons are low-powered bluetooth sensors with a battery life of four years and are connected to the internet without WiFi, GPS or similar technologies, ultimately allowing for the beacon's data and battery level to be programmed and checked from anywhere in the world. These beacons are very small and placed above one's line of sight with the use of adhesive tape making them easily disguisable and visually pleasing. For more information and specifications about our beacons, please see our Beacon specification document.

Application Features

When within the range of the sensor, the user's phone vibrates and pre-programmed voice messages are obtained. Double-clicking on the screen will sound a voice message from your

smartphone about its current location as well as additional relevant information about the area. Pressing the compass button will play all relevant information about the direction the device is facing. Clicking the bottom of the screen will launch a Call to Help service, and the application will call the number entered in advance by venue.

About RightHear

RightHear was founded in 2015 and is an advanced accessibility solution that uses a unique three component technology to help grant blind, visually impaired and orientation challenged individuals independence by providing them with tools to better orient themselves in public spaces. RightHear is currently closer than ever before to achieving its goal of making the world more accessible to all individuals with nearly 3,000 accessible spots in over 600 venues (and counting) across the globe. Our partners include major corporations, universities, municipalities, and hotels such as The Azrieli Group, McDonald's Israel, Shufersal Supermarket Company and Tel Aviv University. RightHear is available for free download on both Android and iOS.

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