



visualfy[®] places

Hearing accessibility solutions
for public buildings.



About Visualfy.



A committed company.



We are a Spanish company dedicated to create technology for hearing accessibility. We believe in another way of doing business, which generates a positive impact on its environment and measures success with social as well as economic variables.

Our products have the objective of empowering deaf people, and the society they are part of, supporting with technology a real integration.



We are part of the international Bcorp movement and have been recognized as one of the best companies in the world for our social impact.

Our team is formed by deaf and hearing people, because only together can we create the world we imagine.



Winner Of The 2Nd
Unwto Tourism
Startup January
2020

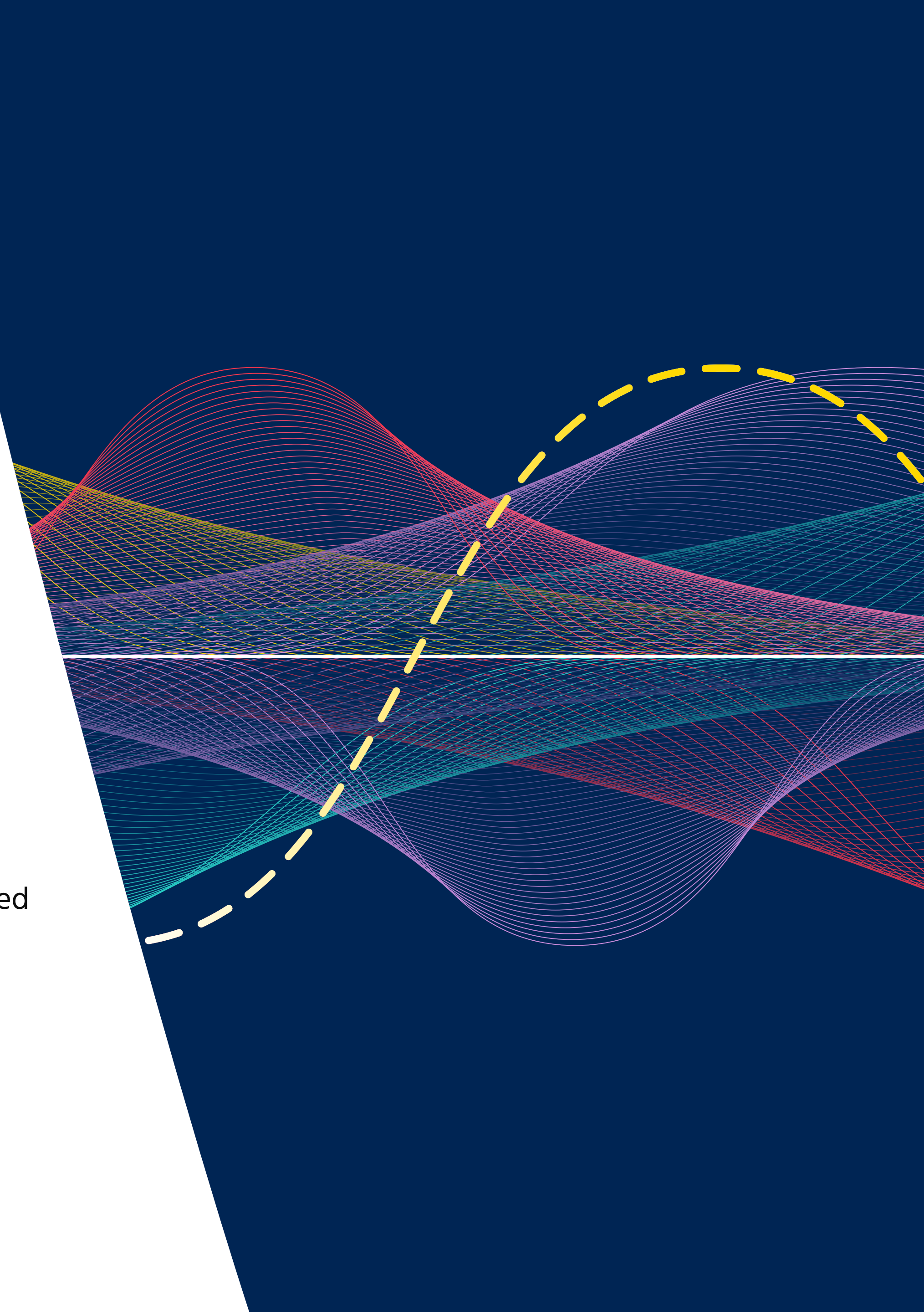
Category:
Smart Destinations.



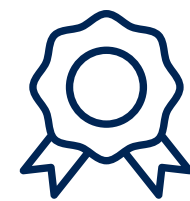
Accessibility and AI: Our artificial intelligence algorithm.

The state of the art of machine learning makes possible the development and implementation of effective and efficient recognition algorithms and classification of sound events. Visualfy's R&D team has a wide range of expertise and knowledge of the most current techniques in this field, and has been able to develop an algorithm which recognizes and classifies different sound events. The system that comes with our algorithm translates this classification into visual alerts that can be recognized by the user on any connected device.

The algorithm developed by Visualfy is able to operate autonomously, performing all the work of segmentation, recognition and classification in the device, without the need to send it to the cloud.



Why choose Visualfy.



Endorsed solutions.

Our solutions are endorsed by federations and confederations of deaf and hard of hearing people



Current legislation.

Visualfy technology allows you to comply with current legislation on accessibility.



Team of deaf and hearing people.

The Visualfy team is formed by deaf and hearing people, to ensure the creation of real value for the user.



Constant evolution.

Our customers benefit from an ever-growing portfolio of technology solutions and upgrades.



Social commitment

We donate 0,7 % of our profits for training young deaf people in new technologies. We have deaf people throughout all our value chain.

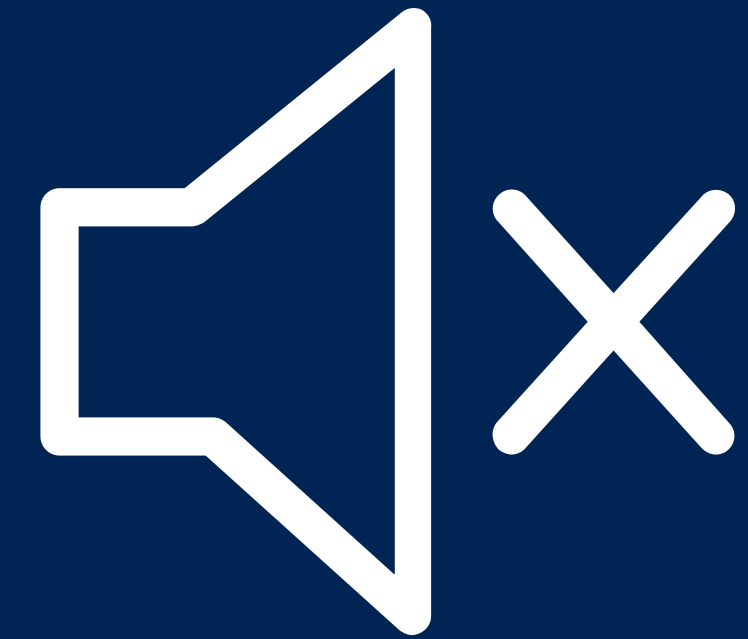
Hearing loss
in figures.



Deaf people in the world.

According to the World Health Organization (WHO), 466 million people in the world have hearing loss, more than 1 million in Spain. In addition, 1.1 billion young people are at risk of hearing loss due to the misuse of headphones, sporting events, discotheques...

With a growing senior population and an increasingly diverse world, this segment is in continuous growth.



1.1 billion people are at risk of hearing loss.

1/3 of the population over 65 years old have a disabling hearing loss.

An invisible collective

More than 1 million people in Spain have some kind of officially recognized hearing loss, according to the Instituto Nacional de Estadística of Spain (INE).

However, the real figure could surpass 3.5 million people, according to the studies of the sector. Only 10% of people needing a technical aid for better hearing uses it, for fear of stigmatization. Between 3 and 6% of single sided deaf children are still undiagnosed.

Offering citizens with hearing loss a comfortable and safe user experience represents our values as an organization and increases satisfaction in the use of our products and services.



Commitment and Law.

Different European regulations emphasize the need to adapt infrastructures, work environments, communication channels and transports so people with disabilities have access to the same information and resources as any other person.

Public admins have a responsibility to invest in accessibility as a tool for human development and social innovation, beyond the legislative compliance.

**Law 51/2003, 2
december and
R.D. 1/2013 of 29
November**

Determines the measures to guarantee and make effective the right to equal opportunities for people with disabilities, in accordance with articles 9.2, 10, 14 and 49 of the Constitution.

Commitment and Law.

R.D 314/2006.

Spanish Technical building code and development standards. For safety reasons, in the event of fire, the alarms must have the necessary equipment and elements so that they can be detected both acoustically and optically (art.8).

**Real Decreto
366/2007, of 16
March.**

Determines the conditions for accessibility and non-discrimination in the relationship with Public Administration. The transmission of relevant information shall be available in at least two of the three sensory modalities: visual, acoustic and tactile (high relief or braille) so that it can also be fully perceived by the visually and hearing impaired.

**Ley 27/2007, of
23 October.**

Recognition of Sign Language and regulation of the means to support oral communication for deaf and people with hearing loss. As well as the elaboration, by the Government, of a regulation for the development and use of the Spanish Sign Language (LSE).

Visualfy in public
buildings.

Our System.

*Adaptation of
public buildings for
people with hearing
loss or in special
acoustic conditions.*



Our System.

Visualfy is a sound recognition system that allows the adaptation of public buildings for people with hearing loss.

Based on an artificial intelligence algorithm, recognizes sounds from the environment and converts them into light alerts, alert points distributed in the space or personal devices of the user.

Thanks to a colour and/or vibration code, users will know if the fire alarm is sounding, if the telephone is ringing or the doorbell sounding, among other functionalities, without installations and in a personalized way. Visualfy is easily adapted to any accessibility needs.

Sounds recognized by the system.



Telephone.



Fire alarm.



Anti-theft alarm.



Gas alarm.



Intercom.



High level of noise pollution.

Visualfy signage.

*The alert system
is common to all
public spaces and
therefore easily
recognizable by
the user.*



Visualfy signage.

Visualfy's accessibility projects include the installations of light alert points along the adapted space to ensure the safety of users, even if they do not use mobile phones or personal connected devices to receive warnings.

These alert points have a characteristic V-shape, which users recognize as Visualfy alerts immediately, becoming the accessible signal for deaf people in public and private spaces.

By means of a color code conveniently communicated, the user will know which color corresponds to each alert, being able to react to it. The user interacts with the adaptations of his house, mobile and public spaces with the same system, which facilitates understanding and use.

Alerts on
personal
devices.

*Alerts on a
multitude of
connected
devices.*



Alerts on personal devices.

In addition to the warnings in the Visualfy signage system, the user can receive alerts on any personal connected device (mobile, smartwatch, smartbands) that is determined to be suitable for the needs of its users. Visualfy adapts to any case of use and need.

Compatible devices.



Mobile devices.



Smart Watches.



Smart Bands.

Upcoming implementations.



Smart Bulbs.



PC Screens.



Laptops.

Possible solution final.

Option 1 – Smartphone APP based system:

Geolocation system is based on an Android App for smartphone that uses an algorithm that combines pre-existing information in buildings, such as magnetic fields, Bluetooth and Wi-Fi, with data from the sensors of mobile phones, compass, gyro and accelerometer, to provide an accuracy of less than 5 meters without the need for additional hardware. Thanks to this you should not install more devices.



Possible solution final.

Option 2- IBeacons based system:

There are ibeacons of different formats, cards, key chains, etc. These ibeacons are permanently emitting a bluetooth signal that is picked up by BLE receivers that must be distributed throughout the building.



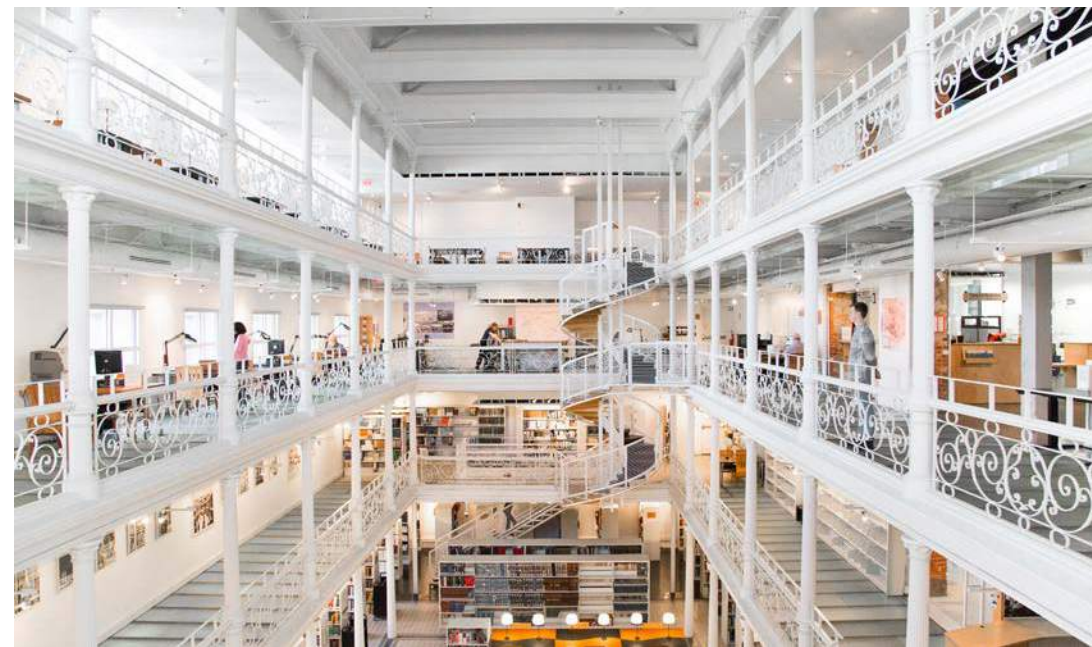
iBeacons



BLE Bluetooth repeaters

This is a much more tailored solution in which a study should be done and based on the needs as many receivers are installed as precision in the locations needed.

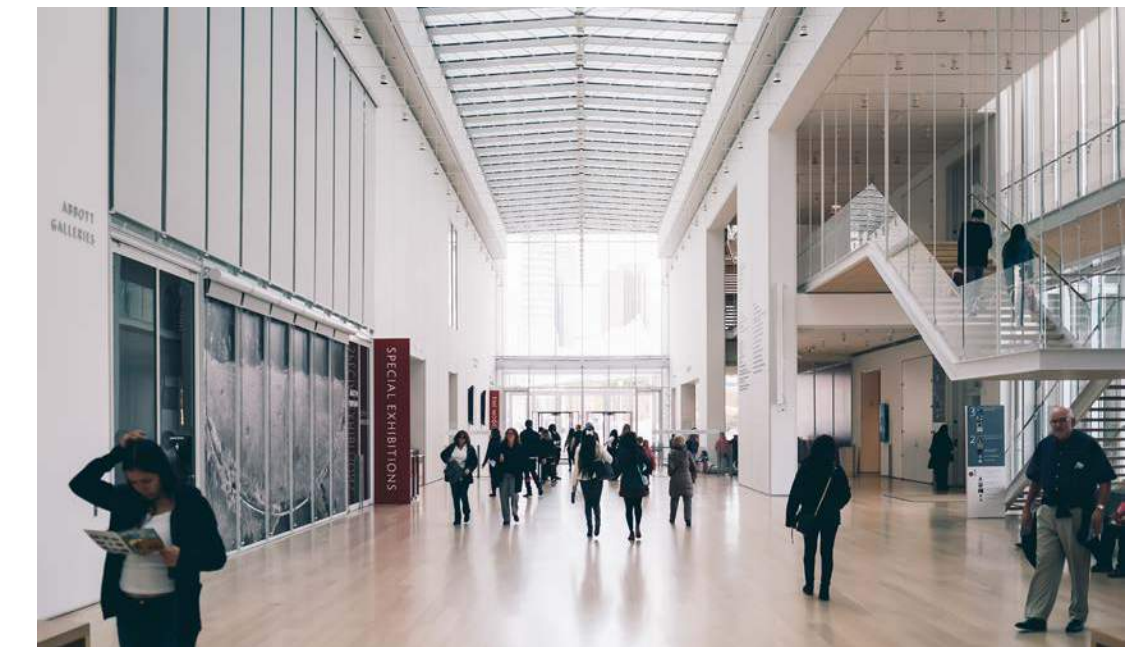
Public spaces.



Libraries.



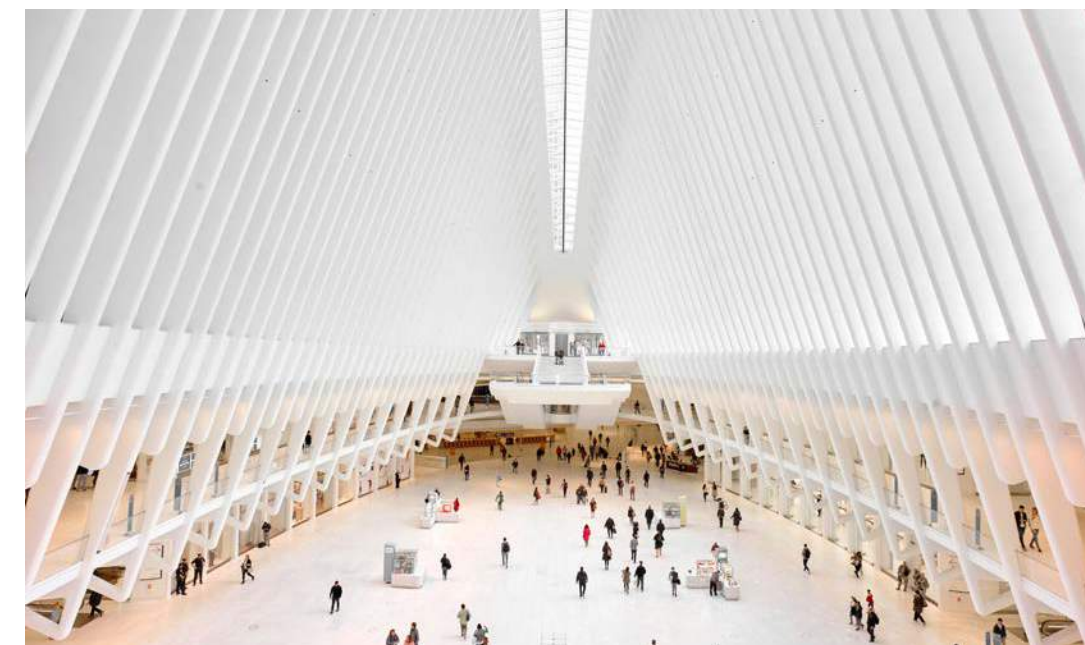
City councils.



Citizen service office.



Museums.



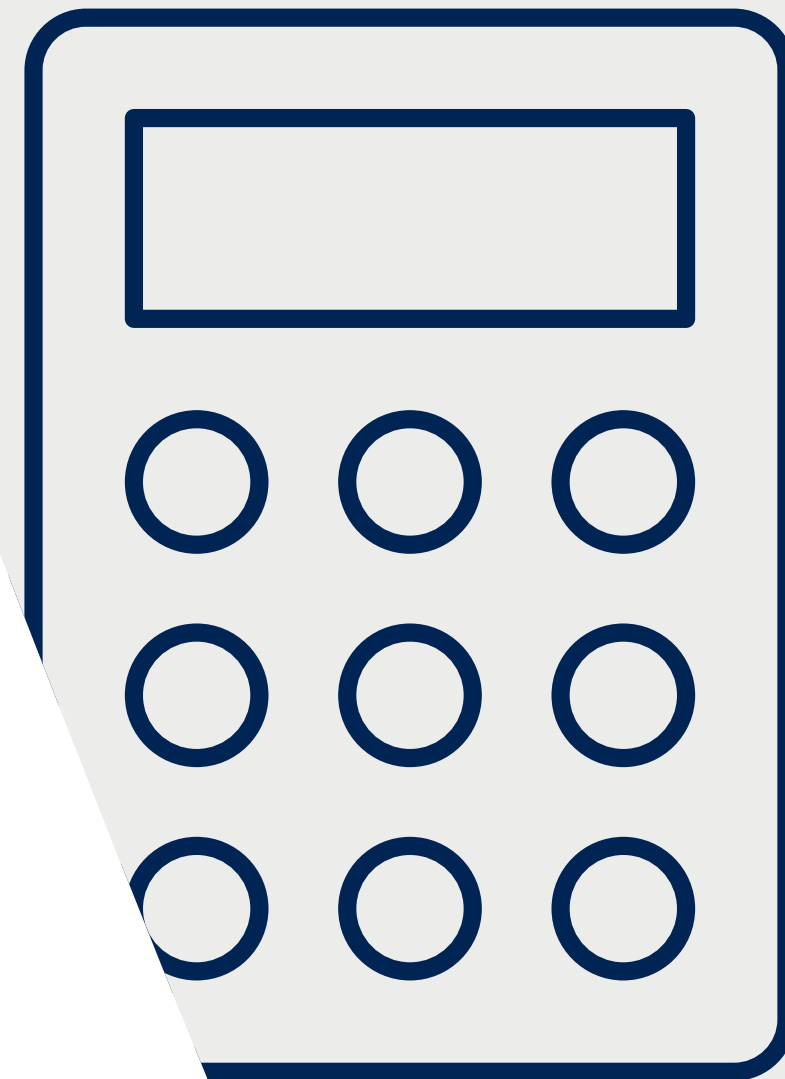
Other public spaces.

Accessibility
solutions.



Security alerts and accessible warnings.

Accessibility in risk situations increases everyone's security.



Security alerts and accessible warnings.



Fire alarm.

Visualfy translates fire alarms into visual and sensory alerts, in common spaces and personal devices.



**Acoustic
pollution.**

We warn you if noise levels exceed the decibels recommended for a healthy environment.



**Other notices
accessible.**

Adapts the telephone, the buzzer and other accessible notices necessary for the accessibility of public services.

User experience.

*Training,
awareness and
communication
materials for the
hearing accessibility
of public services.*

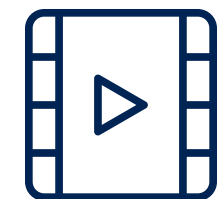


User experience.



Training and awareness.

Training and communication guidelines for customer service of deaf and hard of hearing people.



On-boarding routes.

Adaptation of on-boarding materials for deaf and hard of hearing employees.



Communication materials.

Creation of corporate materials accessible to people with hearing loss, with audio, subtitles and adaptation in sign language.

Real-time communication.

Video interpretation service and magnetic loops to improve communication in real time.



Real-time communication.



Accessible Call Center.



SVisual is the first video-interpretation service in Spanish sign language that exists in our country. It is managed by the CNSE (Fundación para la supresión de Barreras de la Comunicación and Confederación Nacional de Personas Sordas). Visualfy incorporates this service into its accessibility solution to ensure that hearing impaired people have the same access to information as other workers and customers.



Magnetic induction loop.



Fiapas Accessibility Support Service, an entity that brings together more than 45 entities of deaf people and their families, recommends the installation of magnetic loops and other tools for adapting public and private spaces. By means of the magnetic loop system, the user receives the sound in his technical help with the same quality as the emission source.

Services and Specifications.

Table of Services.

		Pack 1 Emergency and security alerts.	Pack 2 Alerts + User Experience.	Pack 3 Alerts + User Experience + Communication.
Emergency and Safety alerts.	Fires.	✓	✓	✓
	Evacuation.	✓	✓	✓
	Bell.	✓	✓	✓
	Telephone.	✓	✓	✓
	Acoustic pollution.	✓	✓	✓
	Other warnings.	✓	✓	✓
User experience.	Training and awareness.		✓	✓
	Communication materials.		✓	✓
	Accessible on-boarding routes.		✓	✓
Real-time communication.	Accessible Call Center (SVisual).			✓
	Magnetic induction loop.			✓

Installation requirements.

Installation specifications.

- Access to the place where the devices will be installed.
- Permission for connection of light points.
- It is necessary to have an RJ45 network socket or a stable 2.4 or 5 GHz wifi access point for each plant to be installed that provides an IP with Internet access and a minimum bandwidth of 2 MB.
- Permission is required to make the alarm go off at least three times during installation and on the last day, for testing the system.
- An e-mail address and data of the person assigned as system administrator, whose presence will be required for the testing and starting up.
- Permission for the location of an eBeacon at the entrance that has an estimated battery life of two years.

No Visualfy internet connection.

- It will only work by turning on the light bulbs.
- Notifications can not be sent to smartphones or any other wearable.
- No security updates will be received.
- No remote maintenance or monitoring of the system.

With Visualfy internet connection.

- If the internet connection is provided by Visualfy, it is necessary to have 4G coverage in the building.

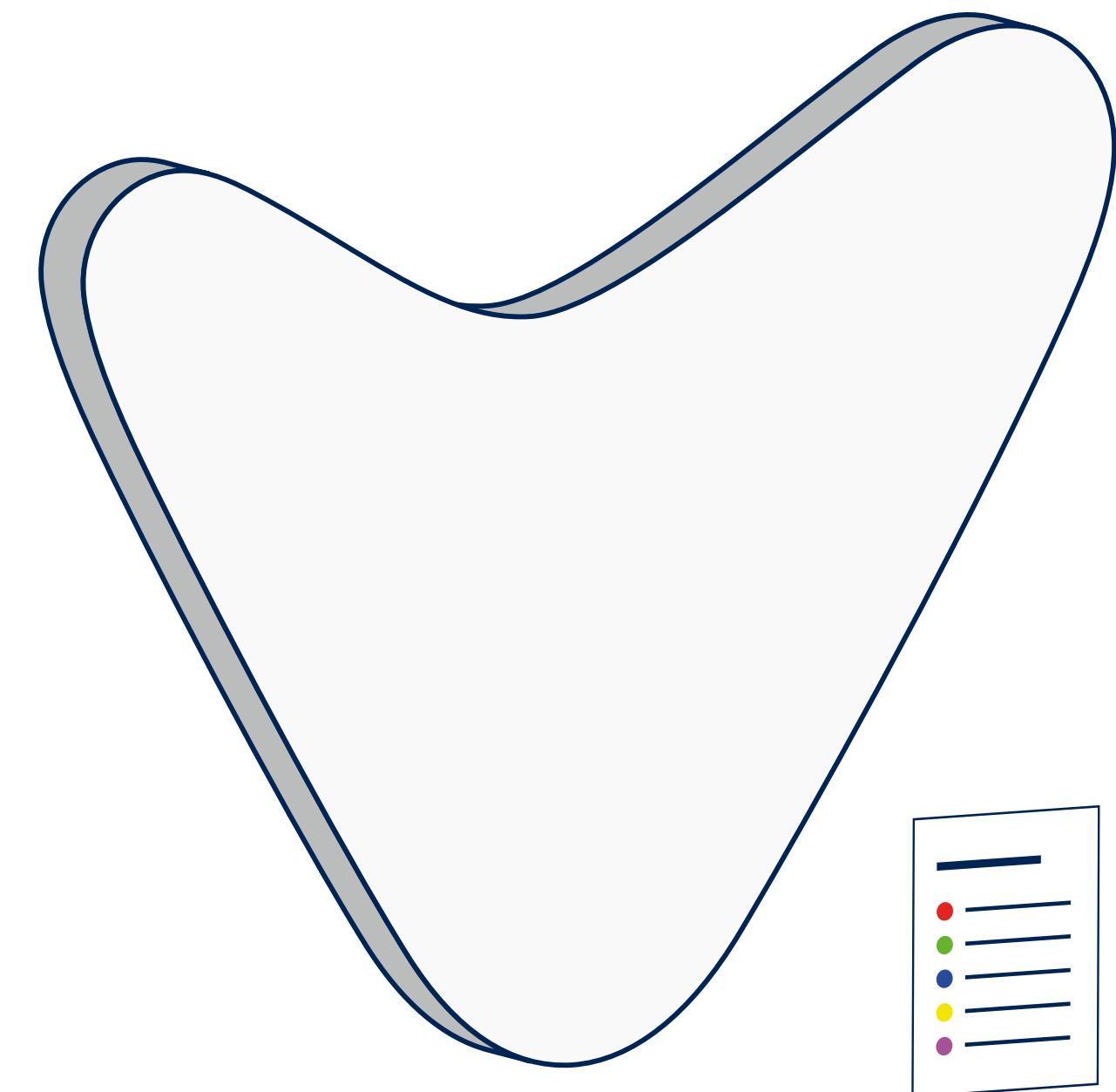
Technical specifications.

Visualfy Signage system.

- Visualfy lamps work as signage system because they are easily identifiable by the user and always use the same color code.
- Next to them we will always find an informative poster with the color code corresponding to each alarm.
- The lamp is connected to the mains and has a battery that is activated in the event of a loss of power supply.
- They have Zigbee technology that allows interconnection with each other thus facilitating the operation in WI-FI dark areas.

Technical specifications of the lamp.

- Dimensions 500 x 435 mm.
- Luminous flux of 1600 lm.
- 16 millions of colours.
- Consumption 20,5 W.
- Life of up to 20,000 hours.
- IP20 protection: Dust.
- Protection Class: II double insulation.



Let's talk!

visualfy.com

