

Talking bench



Talking bench



Talking bench is an informative bench for tourists.

It tells you the name of the square where you are and explains the history of the building near you.

The bench can turn on itself and changes the information according to what you're watching.

INFORMATIONS

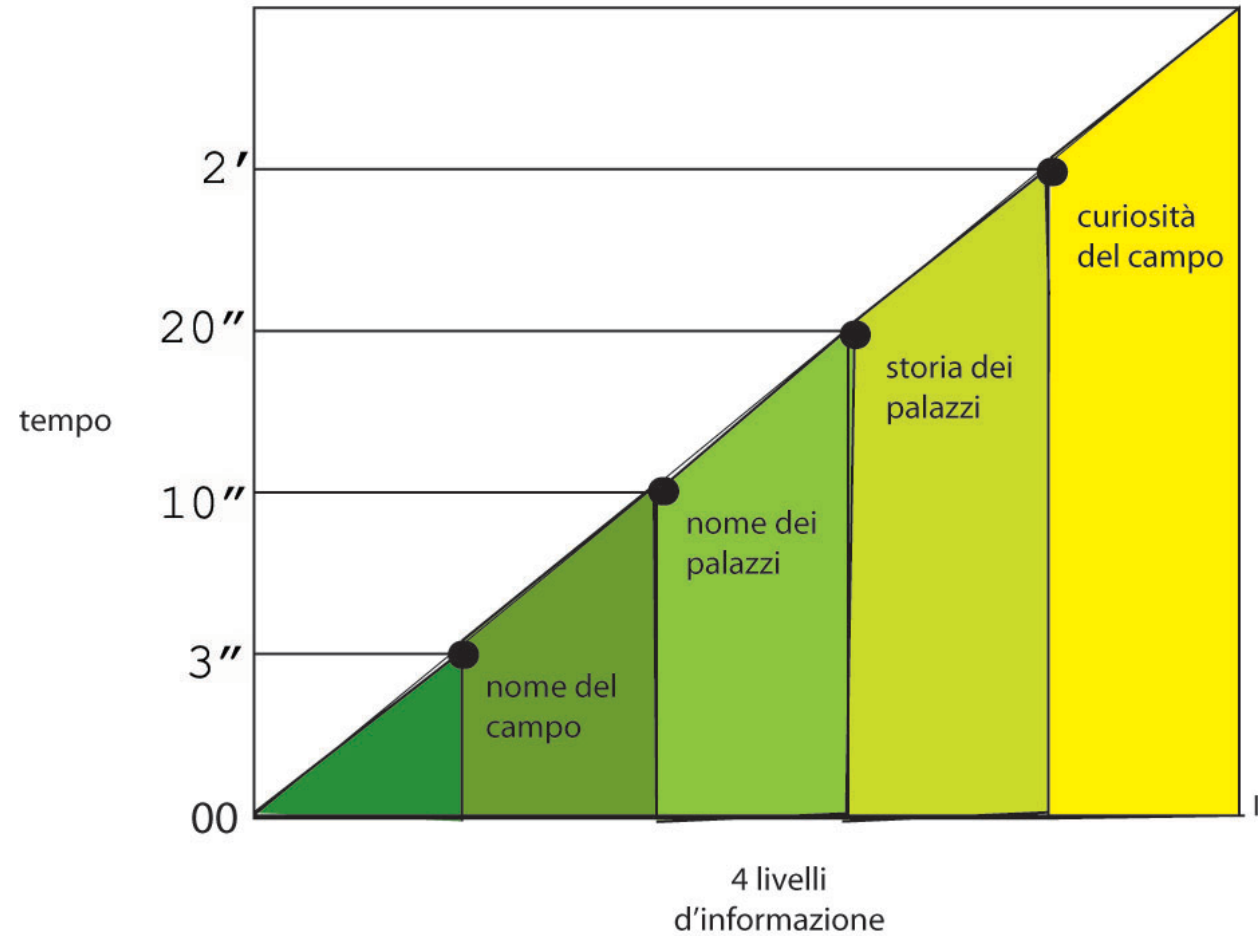
- WHERE YOU ARE
- NAME OF NEAR IMPORTANT BUILDINGS
- BUILDING'S HISTORY
- HISTORY OF THE PLACE
- DIRECTIONS

BUILDINGS THAT WE CONSIDER

- DIRECTION RIALTO
- CHIESA S. STEFANO
- CAMPIELLO PISANI
- PALAZZO LOREDAN
- STATUA NICCOLO TOMMASEO
- DIRECTION S. MARCO
- DIRECTION ACCADEMIA

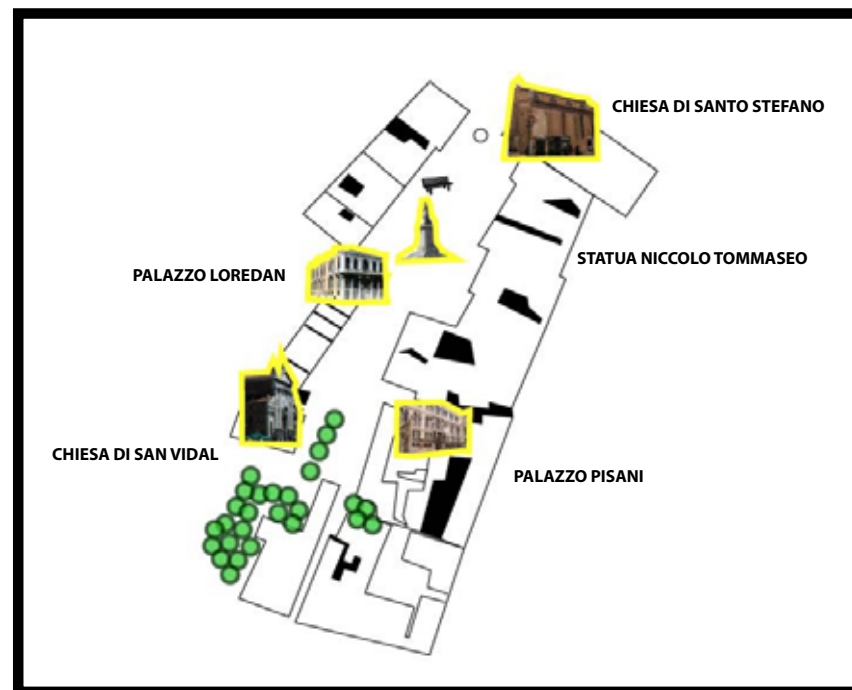
EVOLUTION OF INFORMATION IN TIME

While the person is sitting on the bench audio recordings play continuously and information about buildings goes more in detail from the name of the building to curiosities.

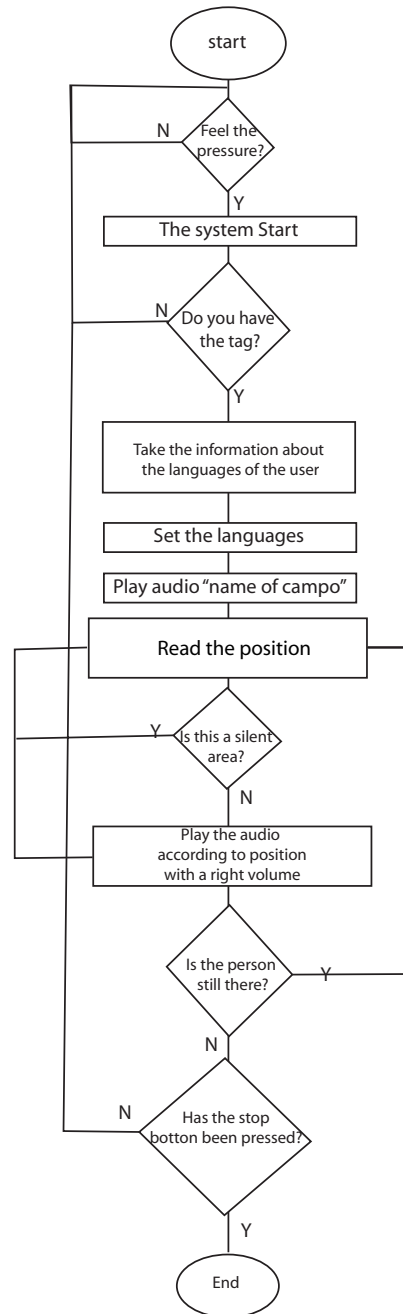


Audio recordings are made of sounds mainly, trying to represent reality without the use of images.









THE BECH TURNS



Audio messages are given according to the viewer gaze. In fact the bench can turn on itself playing the right audio that explains buildings and places in that very moment you are watching them.



Tourist can use the system in a relax moment of their travelling day to have a suggestive experience of the Venetian square where they are and take information about it.

Bench's sounds creates a particular atmosphere that involves people into the history of the place where they are giving a nice and unexpected experience. At least sitting people can face each other and this could be a starting point for socialization.

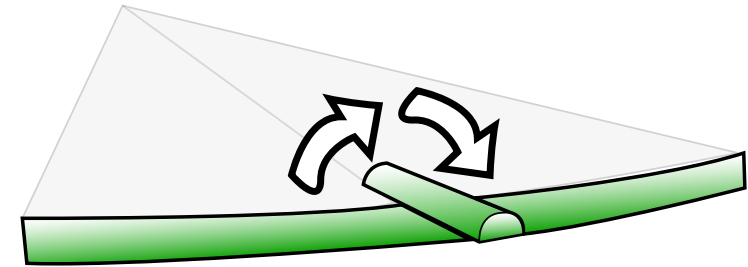
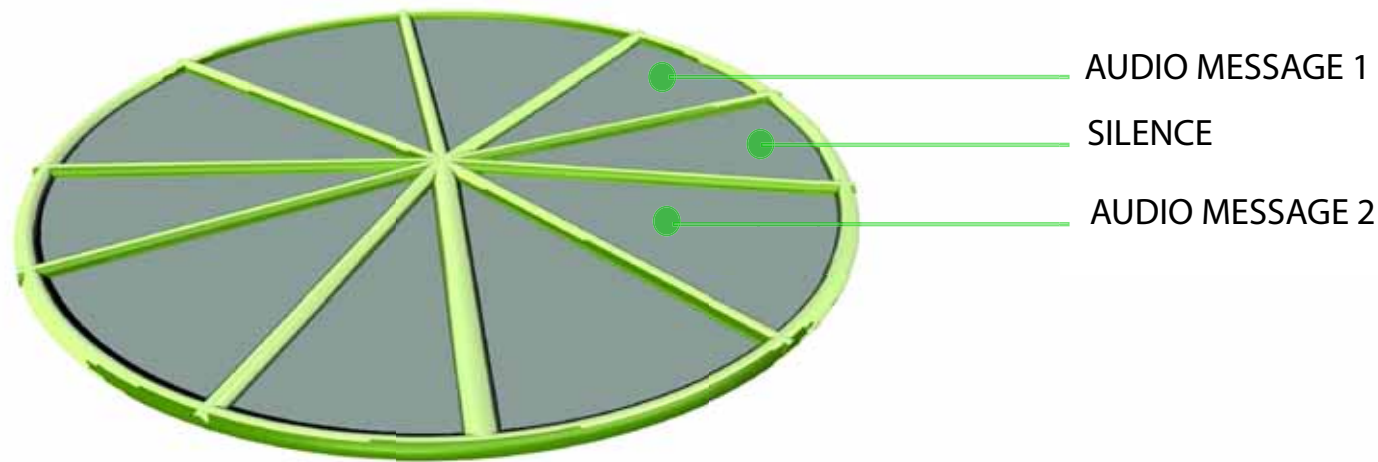


The bench could also be a place where socialize

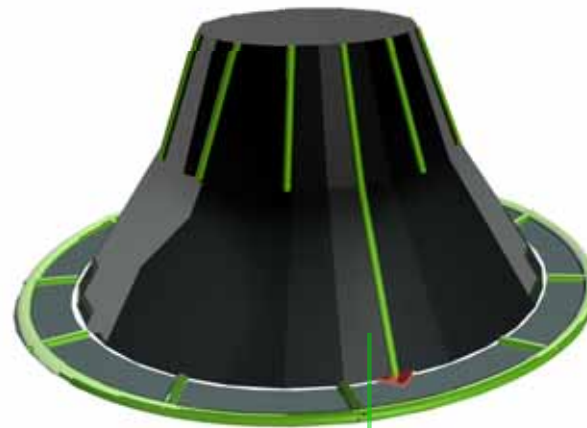


Base

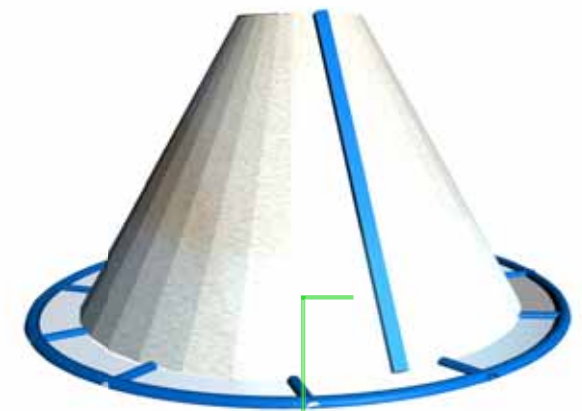
THE AUDIO CHANGE IS GIVEN IN A FISICAL WAY THROUGH THE MARKERS ON THE GROUND



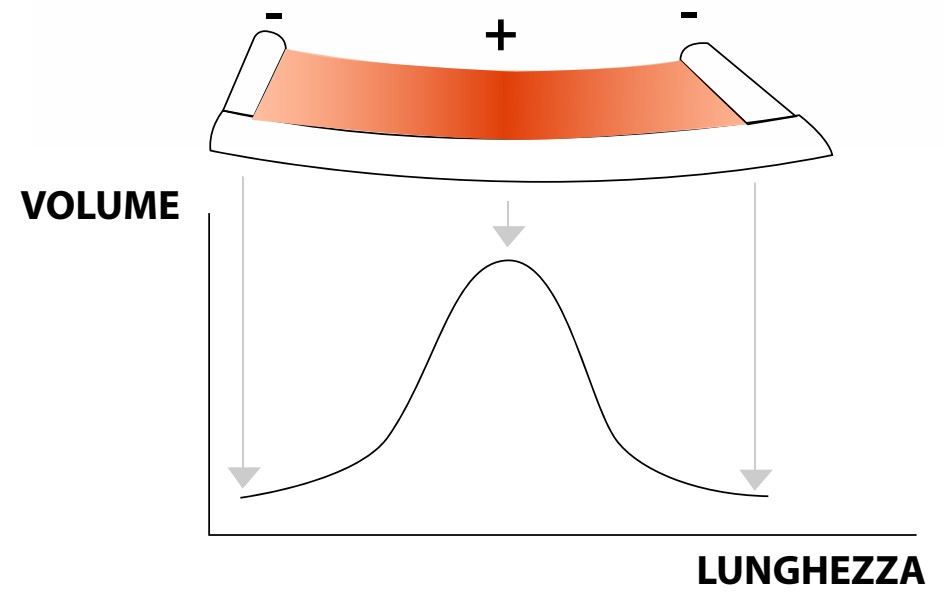
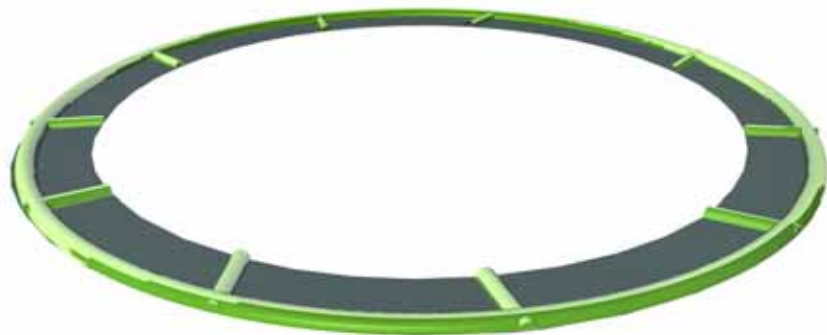
IN THIS CASE THERE IS A TURNING POINTER THAT TELLS IN WHITCH AUDIO AREA YOU ARE



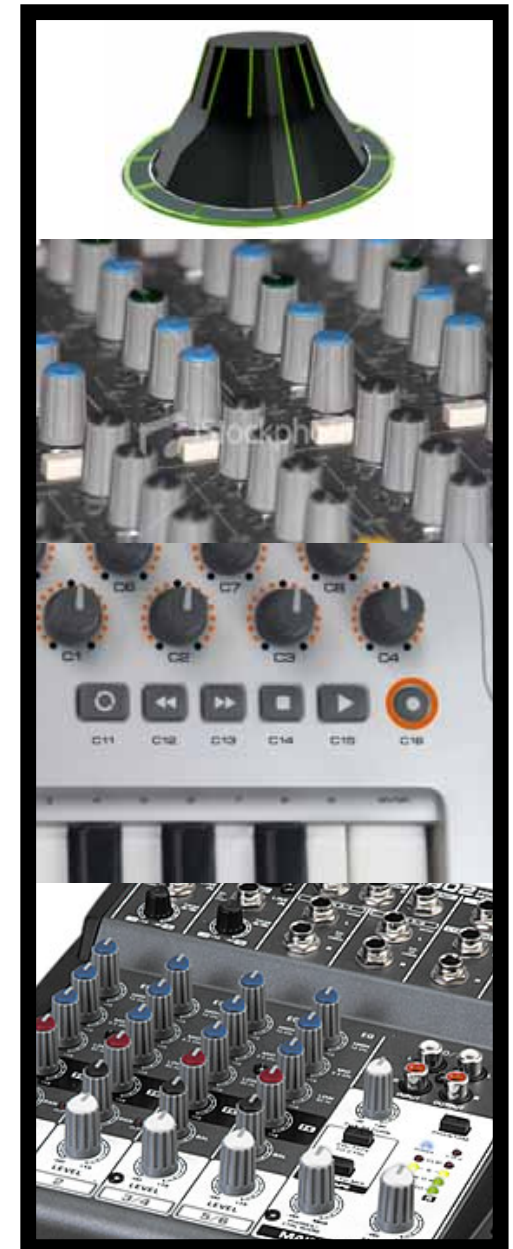
POINTER (ARROW) THAT ROTATES



STICK THAT ROTATES



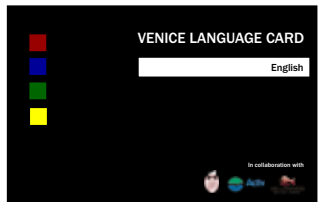
Remind The Mixer Control Shape



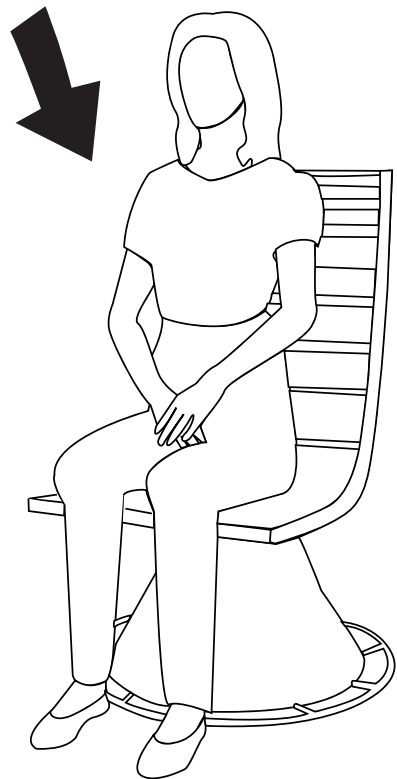


The final bench turning

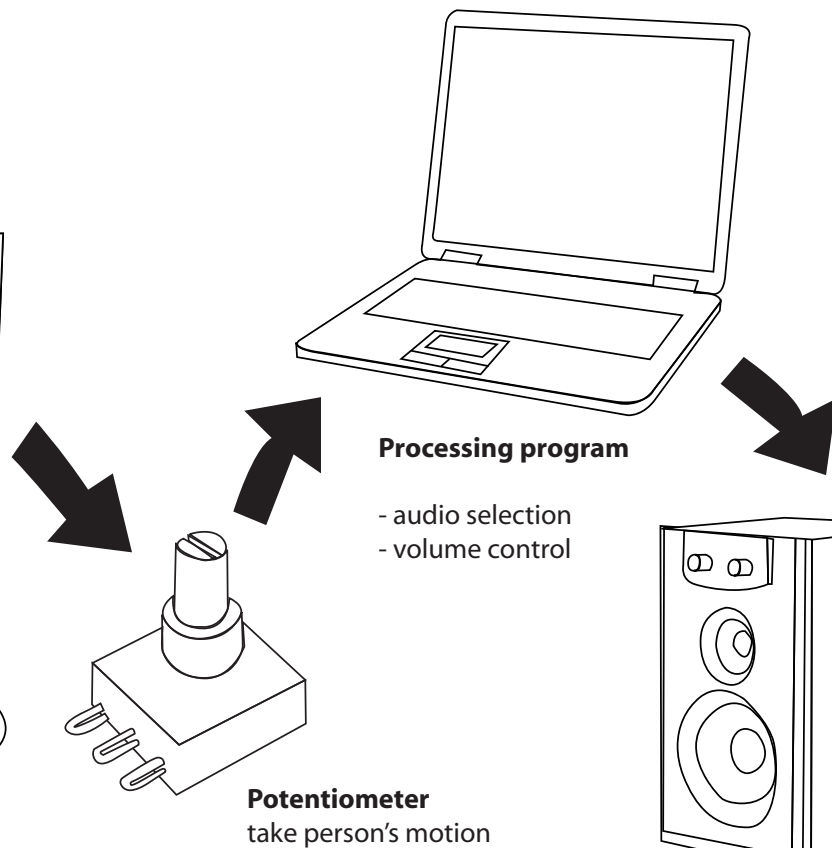




Transponder
Nationality information



Movements of the person on the bench



Processing program

- audio selection
- volume control

Potentiometer
take person's motion

INPUT

TRANSPONDER INFORMATION (NATIONALITY)
BODY MOVEMENTS ON THE SEATING

OUTPUT

AUDIO MESSAGES

pre recorded except the directions sounds

FISICAL FEEDBACKS

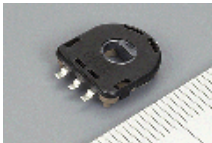
(vibration, bump)

LIGHT

(optional)

Audio output

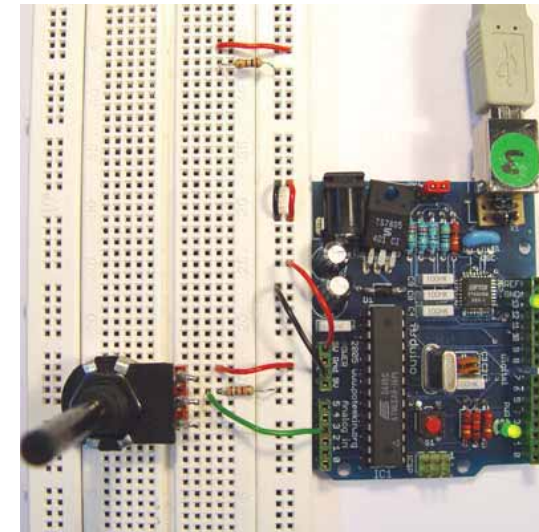
Rotary Potentiometer



UniMeasure LX Series transducers are a low-cost compact device for use in light to moderate duty applications in dry environments. The plastic bodied device is ideal for high-volume OEM situations where cost is a major consideration and in applications where small size or low weight are of paramount importance. Models are available in 11 measurement ranges from 0"-2" (50mm) to 0"-50" (1250mm). Electrical outputs include both analog and digital.



In modern usage, a potentiometer is a potential divider, a three terminal resistor where the position of the sliding connection is user adjustable via a knob or slider. Potentiometers are sometimes provided with one or more switches mounted on the same shaft. For instance, when attached to a volume control, the knob can also function as an on/off switch at the lowest volume.



AUDIO RECORDINGS CHANGE ACCORDING WITH NATIONALITY.
TALKING BENCH RECOGNIZE NATIONALITY THROUGH A TRANSPONDER CARD.



Distance transponder trasmission

An identification little system (2X10mm) for objects and people at distance. It is used for safety systems, electronic locks, and other applications. It's a good system for identification because doesn't requires the fisical contact with the lecture system instead of magnetic card and chipcard.

Lacture transpodner distance: 5/10 cm

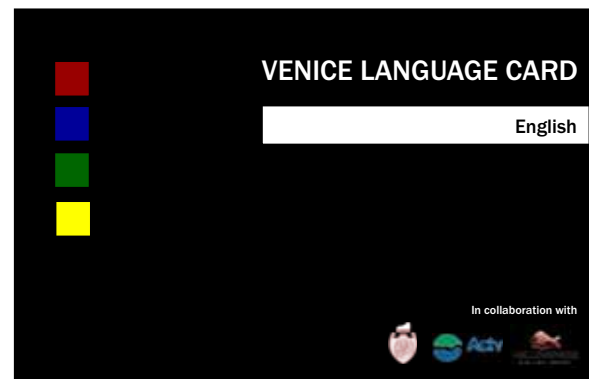
Max distance between lacture system and gestion unit: 30 cm



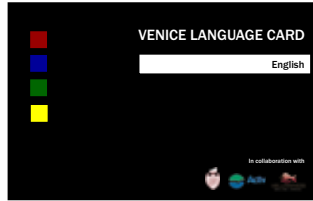
Lecture trasponder system



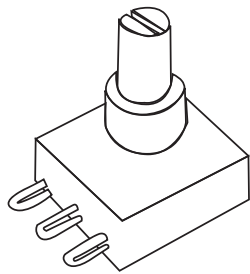
Transponder example



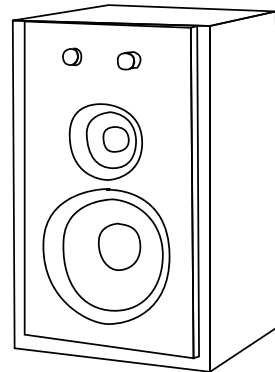
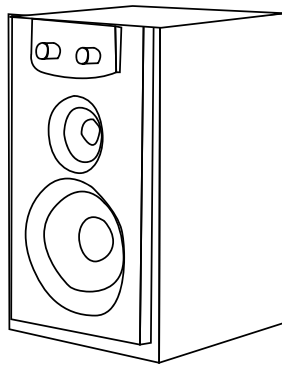
A card like that can contain the nationality information



Transponder
Nationality information



Potentiometer
take person's motion



Audio output

Implementation in the real life

Prototype implementation

The system includes transponder card, a potentiometer to pick up the position angle and the speakers. The final prototype will be real chair in 1:1 with the carpet and the seating's base, made by us.