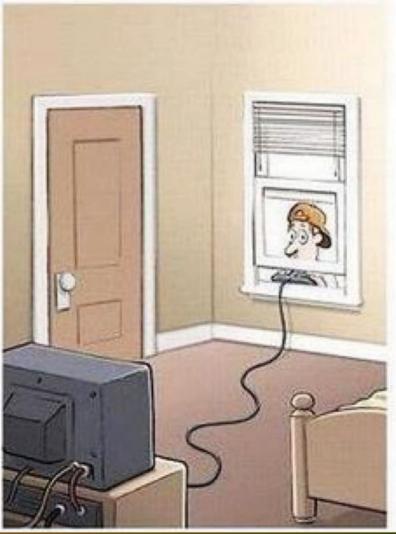


# Nowadays children are sometimes too exposed to displays and technology...



# **PURPOSE**





#### GOALS

#### SMART DEVICE:

To motivate children to interact with the nature while enjoying

#### • GAME:

To be attractive and instructive and make children explore the nature

### **SMART DEVICE**

A band with a microcontroller plus 4 bright buttons, 2 speakers

for 5-8 years-old children (also inclusive)

## INTERACTION

- Lights
- Sound
- Touch



### GAME

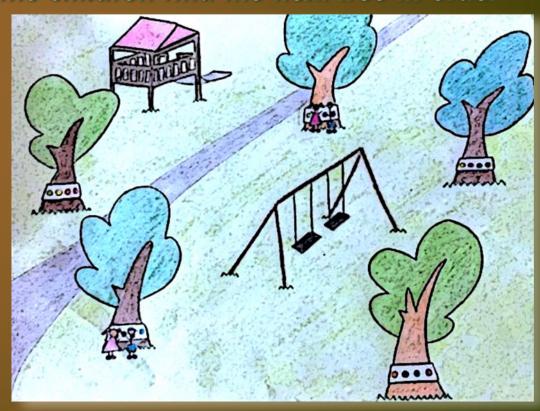
Through the interaction with the band, the children are driven in a "treasure hunt":

Each tree tells a chapter of a story.

Based on some clues the children find the next tree in order

to know the next part of the story.

 When the children reach the end, they learn the educative moral of the story



The effect resulting from a touch or from the completion of a previous action can be configured using JSON files, so that it's possible to define whichever interaction flow/game you want.

# USER STUDY (PHASE 1)

MEETING WITH THE TEACHERS

Goals

Verify if the teachers approve the device

Review the subject of the stories

Identify new ideas to improve the learning experience

# USER STUDY (PHASE 2)

OBSERVING THE CHILDREN

Verify if the children approve the device

Goals

Verify if the game is instructive

Check if the age range is the right one

Identify new ideas to make the game and/or the device more attractive

#### FUTURE IMPLEMENTATIONS

- RFID Cards representing characters, settings or other elements of the story, in order to adapt it to the user
- Possibility to implement many other new games
- Interacting with other smart objects in the park (ex. ABBOT)
- Capacitive fabric instead of buttons