

**Made to Move  
Communities™**

## “Moving Mate”

“addressing inclusive social mobility of visually impaired people for wellbeing in green spaces”

**Year 4**

**Inclusive mobility solutions to expand access to green space to advance wellbeing**

**1st High School of Iraklion in Athens with the collaboration of OTIS Greece**

**07 March, 2024**

1. Introduction
  - Our School
  - Team
2. Problem Analysis (Inclusion)
  - Current situation
  - Target group
  - Our Process/Research
3. Solution (Mobility & Wellbeing)
4. Next steps/Improvements

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## 1.1. Our School



**1st High School of Irakleio,  
Athens, Greece**



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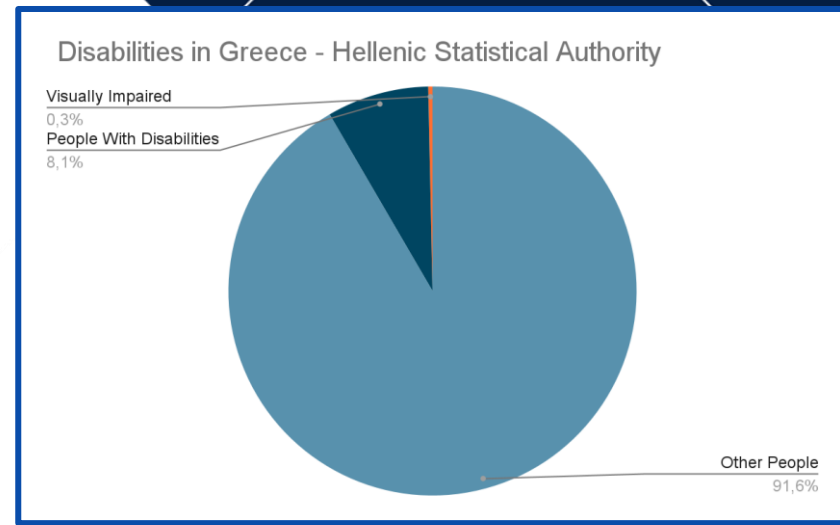
## 1.2. Our team



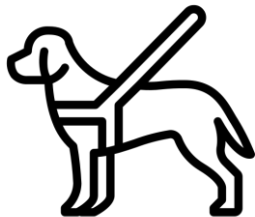
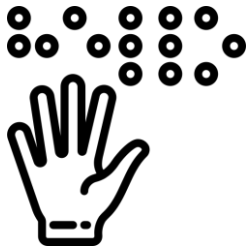
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## 2.1. Current Situation

- Disability stereotypes and the distance between disabled and non-disabled people create barriers.
- Access to green spaces in our city for people with disabilities is limited.
- Overcoming limitations and addressing exclusion are essential challenges.



# DIFFERENT TYPES OF DISABILITIES





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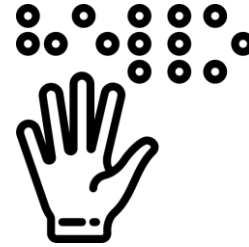
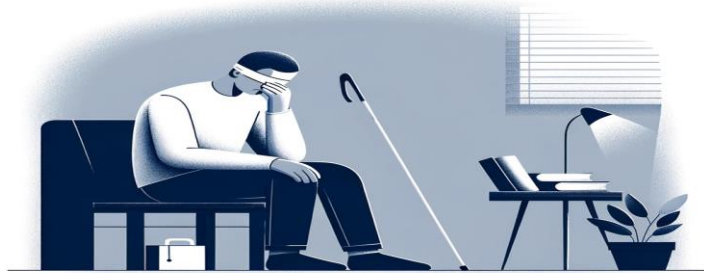
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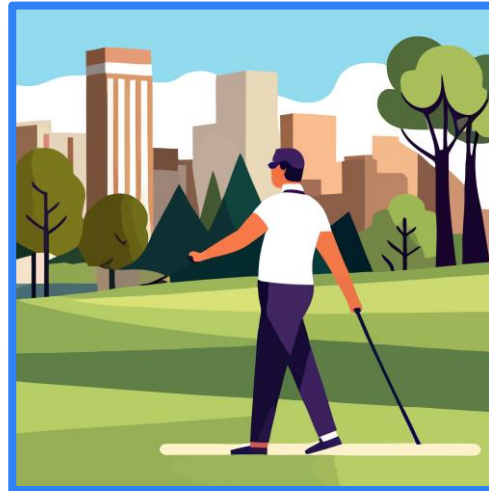
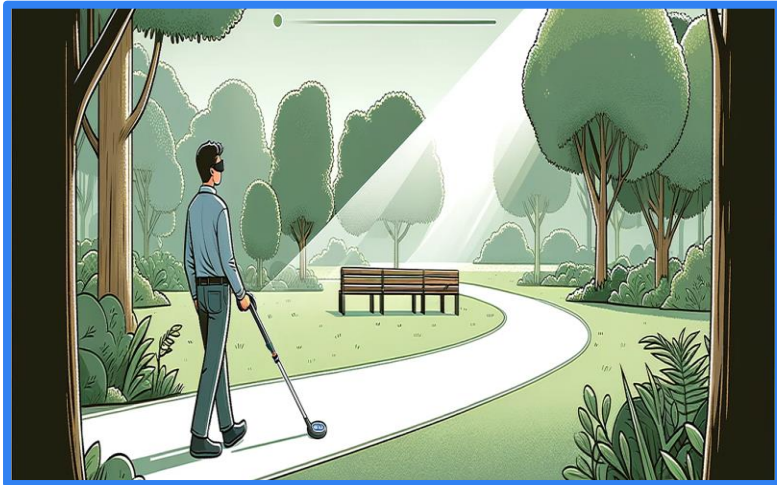
## 2.2. Target Group

### VISUALLY IMPAIRED PEOPLE



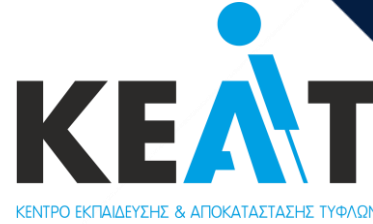


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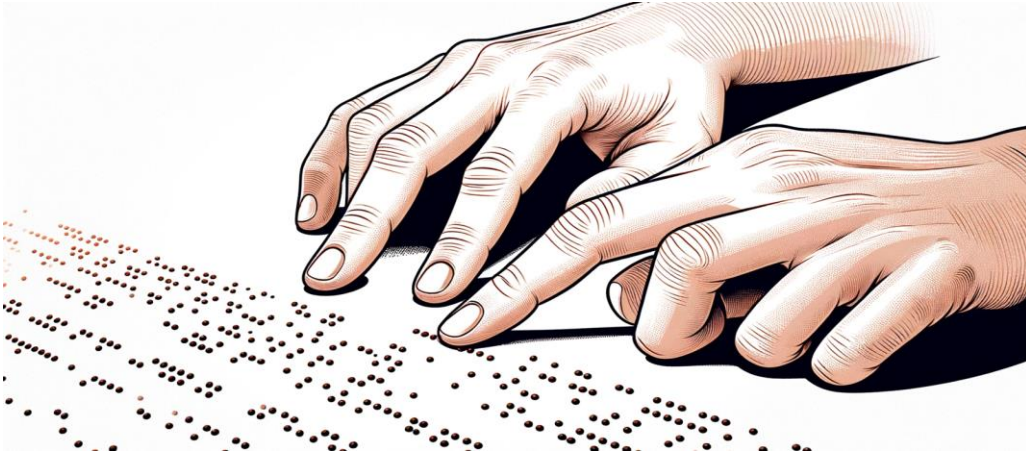
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## 2.3.Process/Research

CENTER FOR EDUCATION & REHABILITATION FOR THE BLIND



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## 2.3.Process/Research

Visit to “CENTER FOR EDUCATION & REHABILITATION FOR THE  
BLIND” What we learned:

1. How they overcome daily problems
2. How they create relationships
3. What kind of hobbies they can have
4. How they learn to read
5. How they perform daily tasks



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## 2.3.Process/Research

Teams Meeting with Mr Vaggelis Avgoulas leader of Visit to “Me Alla Matia”  
What we learned:



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# Mr AVGOULAS SPEECH



# Mr AVGOULAS SPEECH





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1. **Blind people are not incapable of achieving great things**
2. **They are not appreciated and treated as deserved by the society**
3. **It is crucial for them to develop Emotional Resilience and Coping Mechanisms to overcome the difficulties of daily life and move around.**



# GETTING IN THEIR “SHOES”



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# WHAT WE REALIZED

1. A common cane is not enough
2. The majority of the parks are not “friendly”
3. It is not considered a good experience for a blind person to just make it to the park and back
4. Other people are not sensitized or aware of the problem





DISCUSSIONS



BRAINSTORMING



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## 3. Our Solution



Inspired by [WeWalk Smart Cane](#)

# OUR SOLUTION – ARDUINO SMART STICK



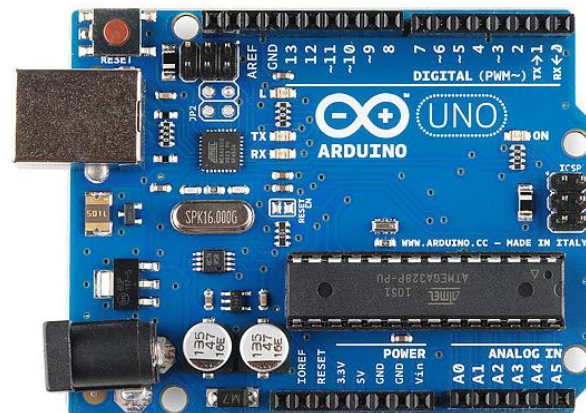
ultrasonic



buzzer



battery



Arduino board



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Our solution is equipped with:

- Arduino (board)
- Ultrasonic sensors
- Buzzer
- Battery

### 3. Our Solution

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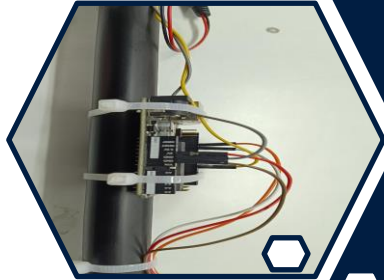
Safety



Creation



User-Friendly



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# WORKING WITH OUR MENTOR



# MOVING AROUND A PARK WITH

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## 4. Next Step

1. Vibration pattern for obstacle types.
2. Directional Feedback.
3. Voice feedback system.
4. Feedback for battery status.
5. Weather-Resistant Build.

To be more user-friendly, intuitive

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THANK YOU!

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**“Our vision is through this idea is that blind people can go out and walk in the parks without fear and can navigate completely autonomously having an enjoyable experience.”**

