

# EYE GUARD

**Smart Assistive Navigation  
Device  
for Blind and Visually Impaired**



# THE TEAM



**Team Lead**  
Vadlamannati Kusuma  
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**Team member-1**  
Arja Harshitha



**Team member-2**  
Lekkala Harsha vardhan  
Naidu



**Team member-3**  
Galinki Bharat



# PROBLEM

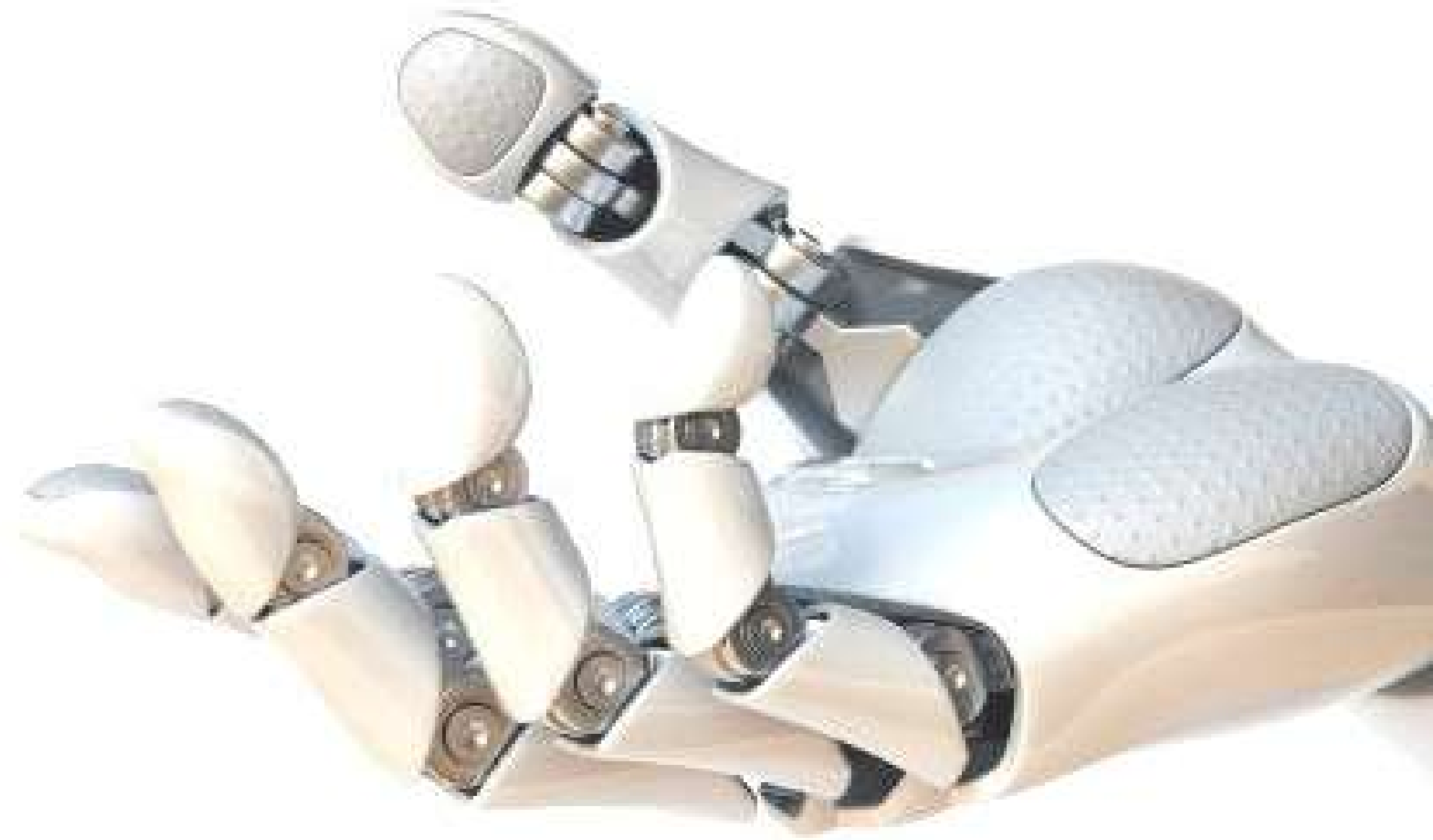
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- Individuals with visual impairments face challenges in reading printed material, including books, magazines, and other documents. This can lead to frustration, isolation, and a reduced quality of life.
- Identifying objects can also be challenging, particularly when individuals are in unfamiliar environments. This can cause anxiety and a feeling of vulnerability.
- Navigating surroundings can be a significant challenge for individuals with visual impairments, especially in unfamiliar locations. This can limit their independence and create barriers to accessing important services and resources.

# SOLUTION

The solution we've developed for the aforementioned challenges is an AI-enabled smart wearable device. This innovative technology translates the visual world into audio, providing real-time navigation assistance in unknown outdoor environments. Additionally, it offers detailed information about obstacles on the path, ensuring safe and efficient navigation. Moreover, the device is adaptable to the user's preferred language, enhancing accessibility and usability.



# OUR PRODUCT/SERVICE



**Burst Mode**

**Image cap**



**Object  
Identification**

**Detecting known and  
unknown Objects**



**Currency  
Identification**

**Identify various  
denomination of  
Indian Currency**



**Identify  
People**

**Face recognition of  
known people  
from the database**



2

Name: K .Subrahmanayam  
Age:18 years  
class:10  
Education :Local Government  
High School  
Disability : Blind  
Transportation : depends on  
their parents  
locality : Bhimavaram

3

- Reading printed Materials
- Identifying objects particularly in new environment
- Identifying obstacles
- crossing roads
- currency identification

1



We have met another seven  
members who are visually impaired

4

our product is capable of solving  
problems like:

- Image capturing
- Object identification
- Currency identification
- Face recognition

5

Uniqueness of our product :  
Easy to use  
Enhanced Visibility

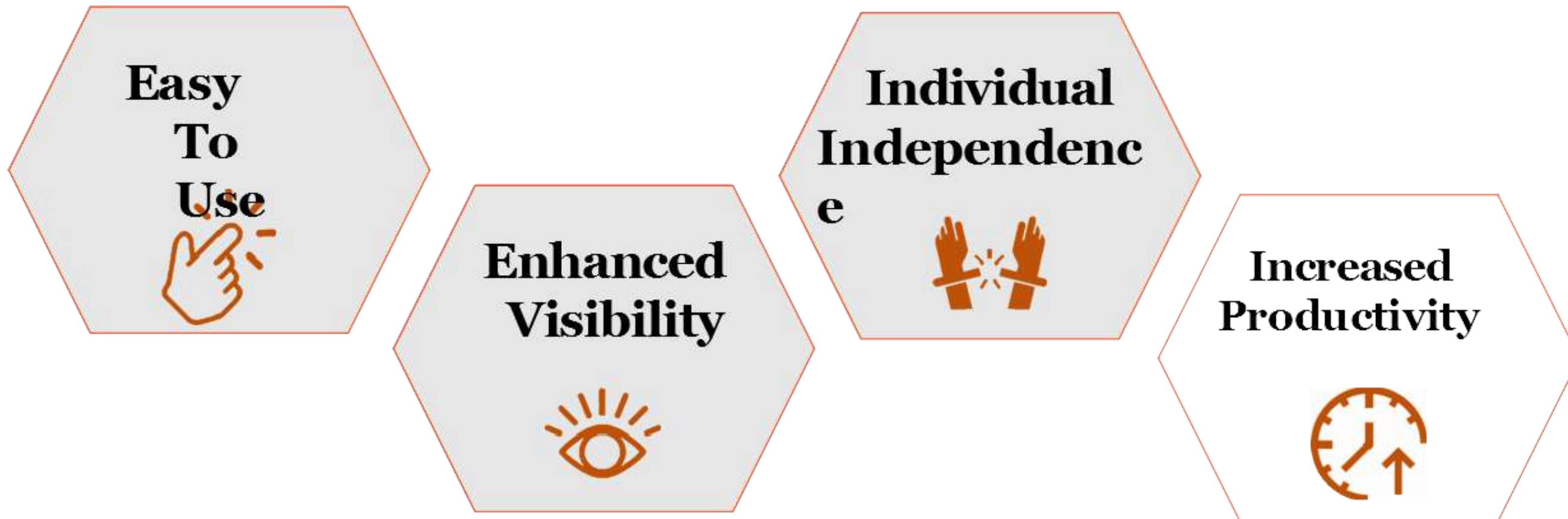
- Individual Independence

affordable cost

# UNIQUE SELLING PROPOSITION

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Eye Guards optimize use of resource and allows for real-time information ensuring:



# TARGET MARKET

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**Our primary focus is on B2B and B2C activities**



**Institutional Tie-up**



**Corporate Donation**

print(res)







**Individual Donation**



**Retail Fundraising**



# COMPETITION & BARRIER TO ENTRY

Brand	Torchit	Smart Vision	Torchit	Eye guard
Image				
Product Status	Available	Available	Development	Development
Price	Rs. 3,000	Rs. 22,000	Rs. 10,000	Rs. 10,000
Technology	Ultrasonic	Image	Image	Image
Processing	Device	Cloud	Mobile Phone	Mobile Phone
Object Detection	Yes	Yes	Yes	Yes
Object Classification	-	Yes	Yes	Yes
Facial Recognition	-	Yes	Yes	Yes
Voice Recognition	-	Yes	-	-
Text Recognition	-	Yes	Yes	Yes
Walking Assist	-	Yes	Yes	Yes
Auto Photo taking Mode	-	-	-	Yes

# REVENUE MODEL



## **SUBSCRIPTION**

Yearly: Rs. 1000 (\$13)

Pricing Dependent on the Feature  
Selection

## **DEVICE SELL**



Price: Rs. 10,000 (\$132)

Sell of Glasses with 1 Year of  
Subscription

# MILESTONES

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- Engaged in active collaboration with the visually impaired community to understand their daily challenges comprehensively.
- Currently in the developmental phase, focusing on creating a functional model aimed at addressing specific difficulties identified during engagement.
- Future plans involve the meticulous design and engineering of a device with tailored features catering to the unique needs of the visually impaired demographic.
- Next step entails rigorous testing with target users to gather invaluable feedback for refinement.
- Subsequent incorporation of user insights will play a pivotal role in enhancing the device's functionalities.
- Ultimate goal: promotion and marketing of the finalized product to provide a valuable solution to the visually impaired community.



A man with a white beard and sunglasses is sitting on a wooden park bench. He is wearing a light-colored button-down shirt over a white t-shirt and dark trousers. He is holding a white cane in his left hand and a smartphone in his right hand. The background is a lush green park with trees and a grassy area.

# The Dream of blind Eye Guard