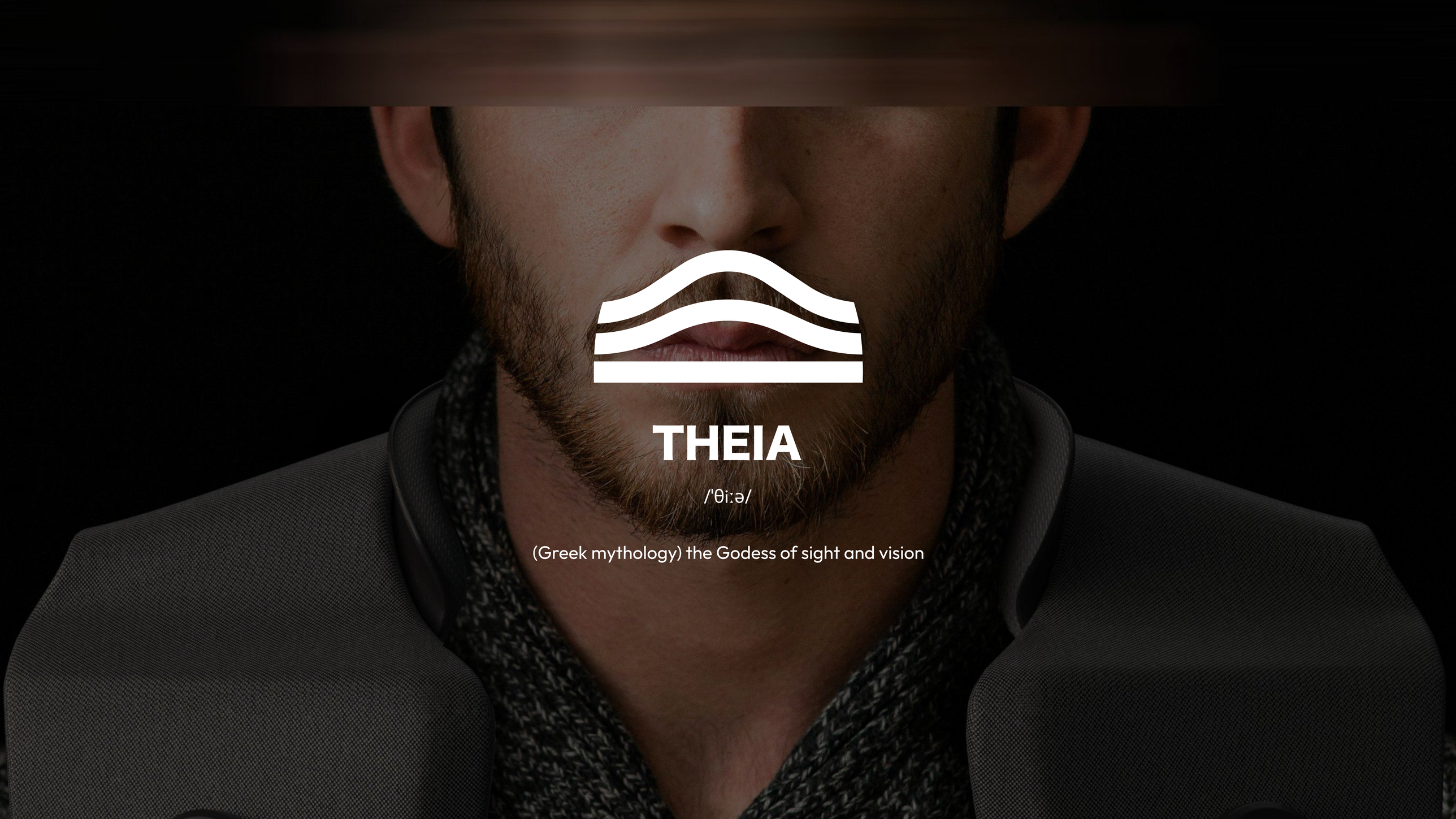


THEIA

/ˈθiːə/

(Greek mythology) the Godess of sight and vision

20M

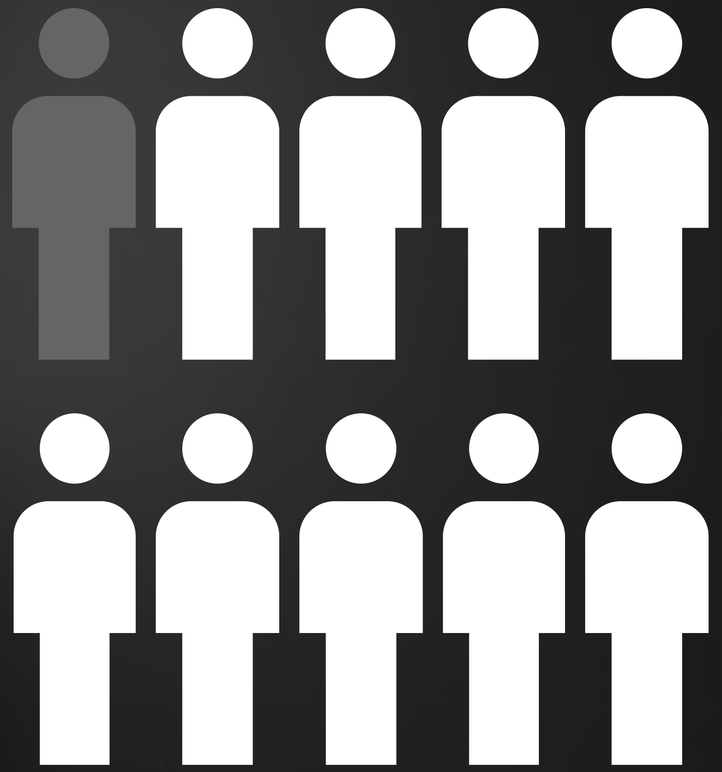
Visual Impaired in the U.S

But we barely see them. Why?

90%

Visual Impaired in the U.S

Do not leave their homes.

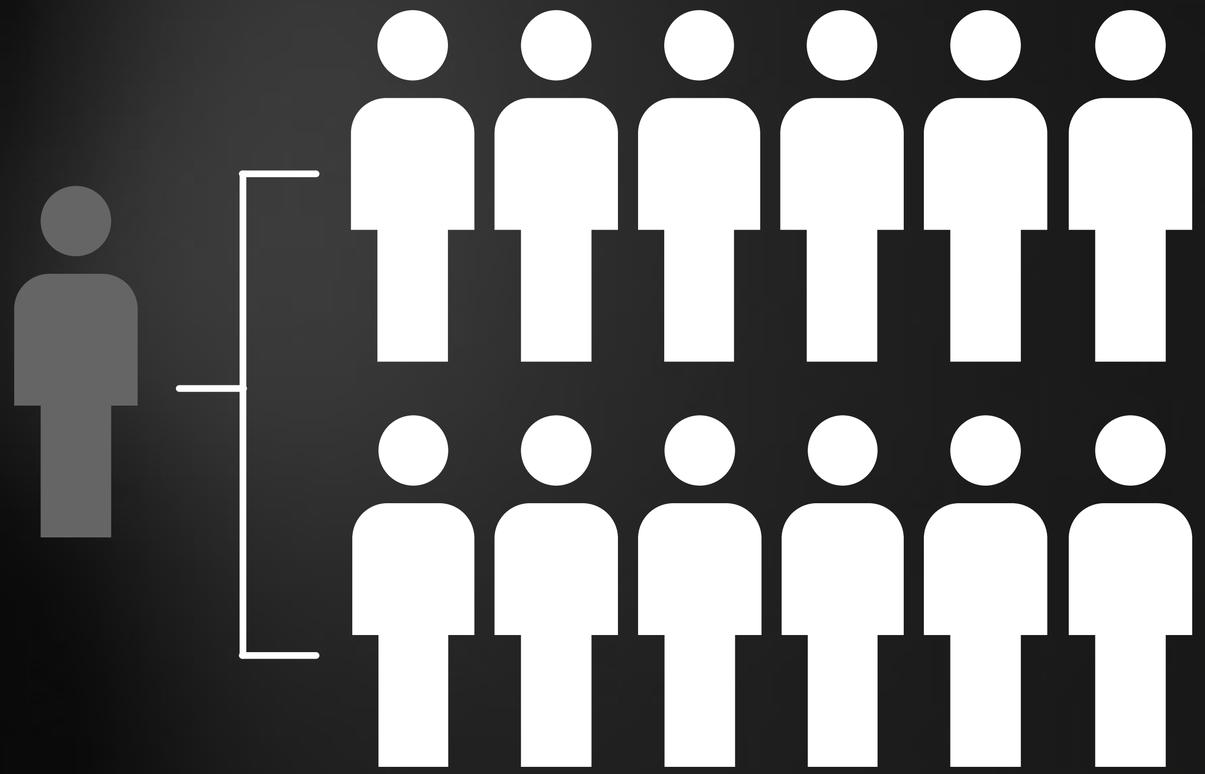


01.

Limited supports

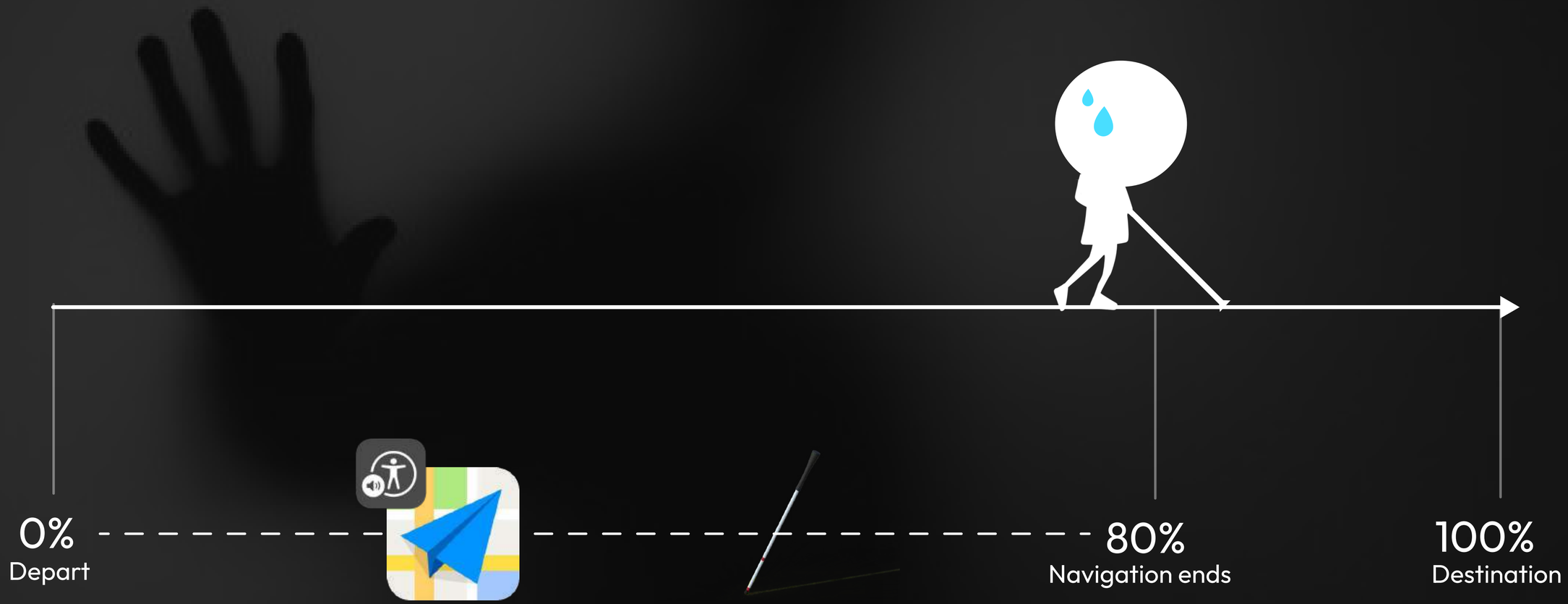
1:12

Volunteer to visually impaired ratio.



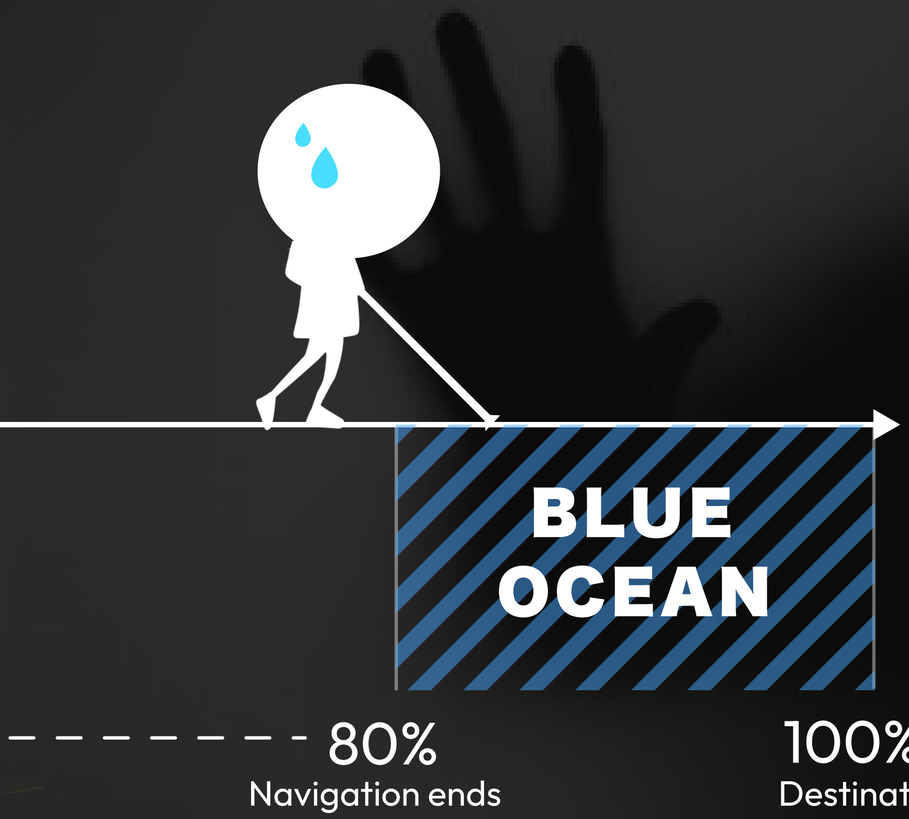
02.

Limited tools



02.

Limited tools



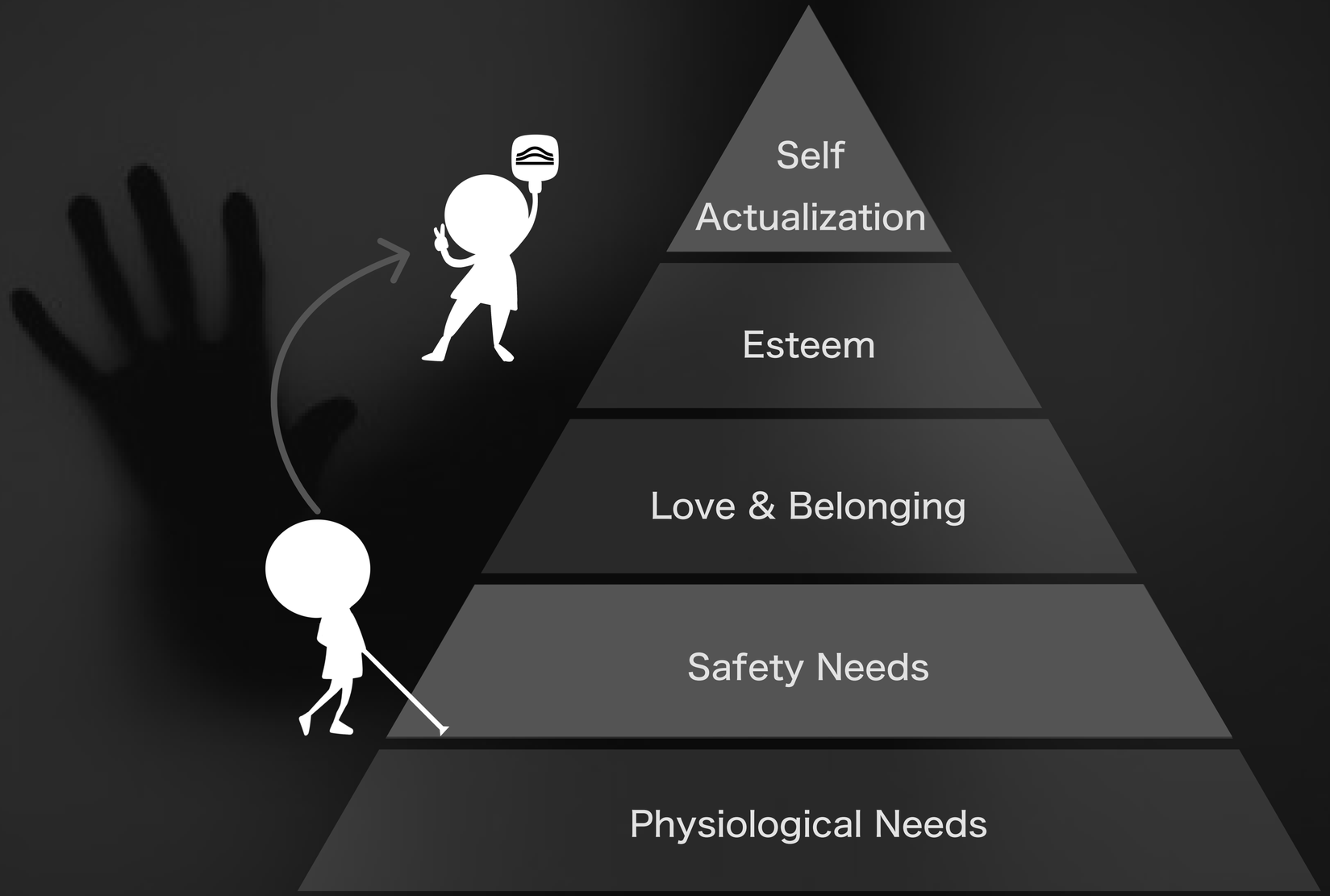
Navigation App

Can't reach the last 10 feet

White Cane

Absolute Safe range is too small

INDEPENDENCE FOR THE VISUAL IMPAIRED



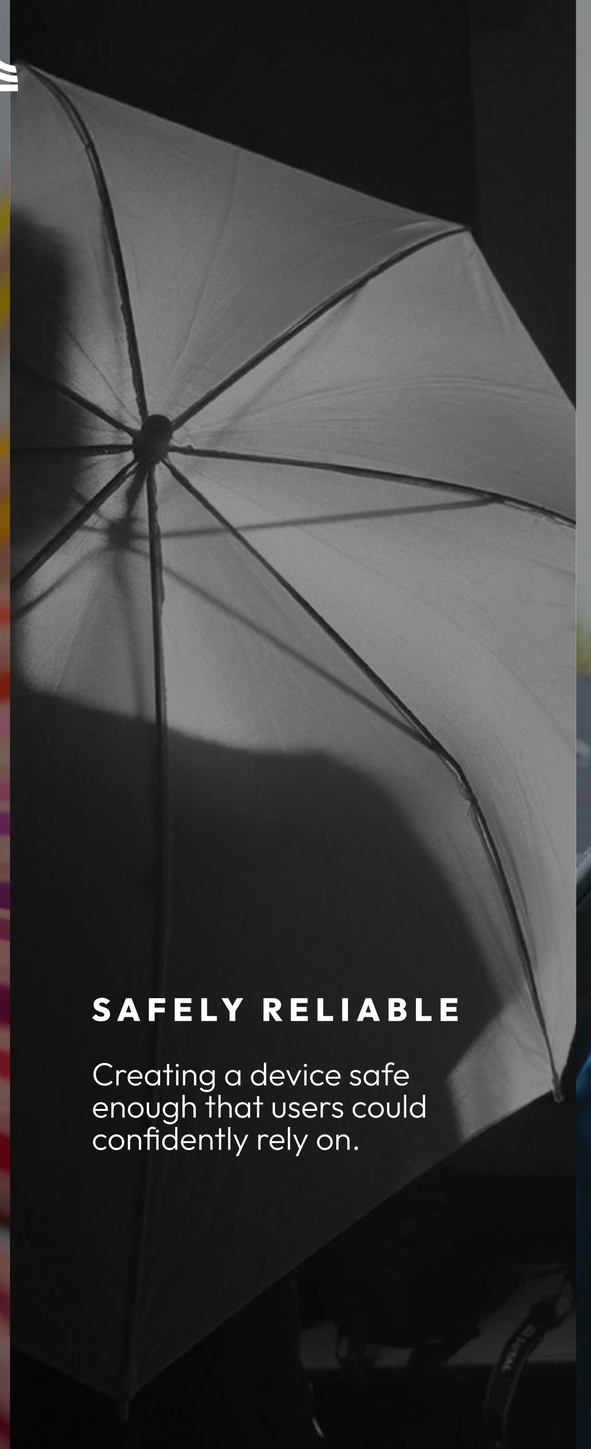
ATTRIBUTES | USER EXPERIENCE

EMPOWER CONFIDENCE

Using technology to give power to user by helping them acheive better vision.

SOCIALLY INCLUSIVE

Helping user to get back into the society with minimium stigma caused by vision impairment.



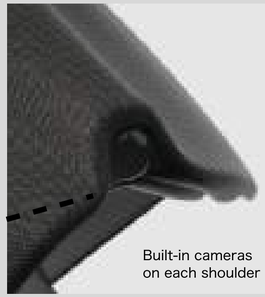
SAFELY RELIABLE

Creating a device safe enough that users could confidently rely on.

SEAMLESS INTEGRATION

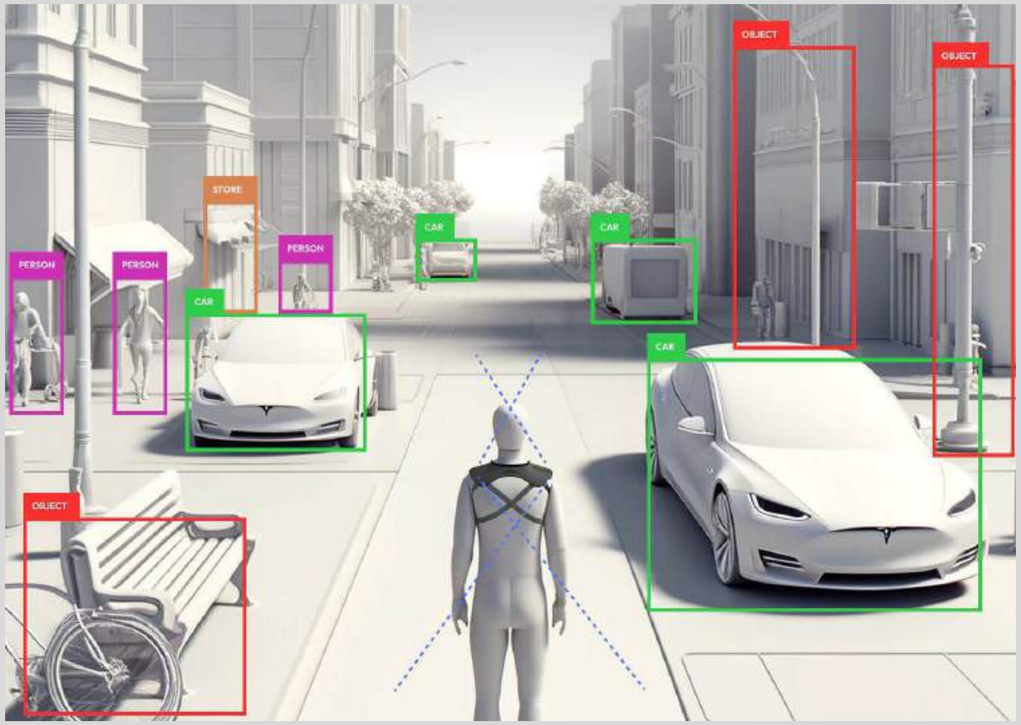
Designing a device that could be seamlessly and easily intergrated with user's existing lifestyle.

Data Input



Built-in cameras
on each shoulder

THEIA leverages AI to detect and identify objects while learning user habits and frequently visited locations to enhance daily mobility. It goes beyond traditional navigation apps by recognizing real-time, detail-specific elements—such as whether a door is sliding or swinging, its direction of movement, or the placement of a handle. THEIA also handles complex visual recognition tasks that a white cane cannot, like reading road signs or interpreting dynamic obstacles.



Wide-angle cameras on both shoulders

Data Output

THEIA plays sound via internal speaker to guide users by describing the environment in vivid detail, steering them clear of obstacles, and delivering sharp, instinctive directions with precision.

THEIA's built-in haptic engine and mini airbags mimics the sensation of a guiding pair of hands *on the user's shoulders, gently steering them in the right direction like how a human would. This intuitive approach offers a significantly lower learning curve than traditional navigation tools for the visually impaired, while delivering a uniquely intimate and human-like experience.*

THIEA MOBILITY

Countered shape for maximum comfort

THIEA MOBILITY

Charging

Wireless non-plugin

Mobile device

Adjustability

Internals & Ecosystem

Object Detection

Machine Learning

Camera

Speaker

Collarbone Touchpad

Haptic Engine
+Mini Airbags

Shoulder Strap

Visual Impaired

Care Takers

Volunteers

THEIA's app connects users to a support network of caregivers and volunteers, offering human reassurance alongside AI. It also enables real-time monitoring of the user's well-being, adding an extra layer of safety and peace of mind.

Thank You

“The world from your shoulders”