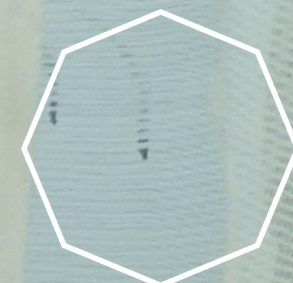


team heisenberg



Challenge
Based
Innovation



Idea^s

A!

Aalto University



UNIMORE

Anniina Mansikka-aho

Irene Lanza

Saurabh Ingale

Karri Hiekkanen

Alessia Baracchi

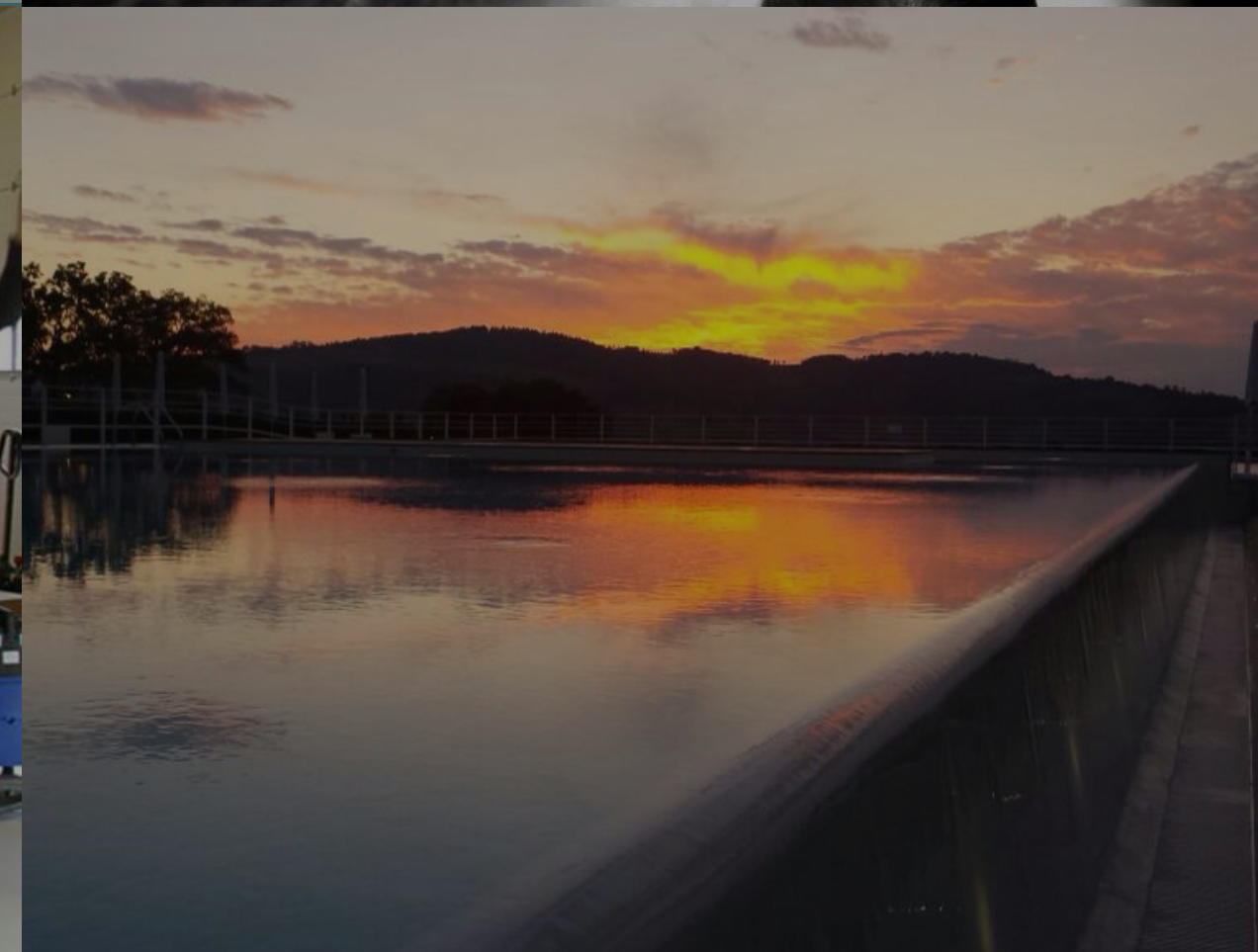
Luca Pedrelli


Anna Pekuri

Tik Ho Lee


A blurred night cityscape with bokeh lights. The background is dark with numerous out-of-focus light sources in various colors including white, yellow, orange, and blue. The lights create a bokeh effect, appearing as soft, glowing circles and streaks. The overall scene suggests a busy urban environment at night.

**HELPING THE VISUALLY
IMPAIRED PEOPLE TO
SENSE THE WORLD**



A person with long, dark hair is seen from behind, looking towards a bright, blurry light source at night. The light source is out of focus, creating a bokeh effect with warm, golden-yellow tones. The person's hair is dark and appears to be slightly damp or styled. The overall mood is contemplative and serene.

**COMPENSATING THE
LOSS OF SIGHT WITH
OTHER SENSES**

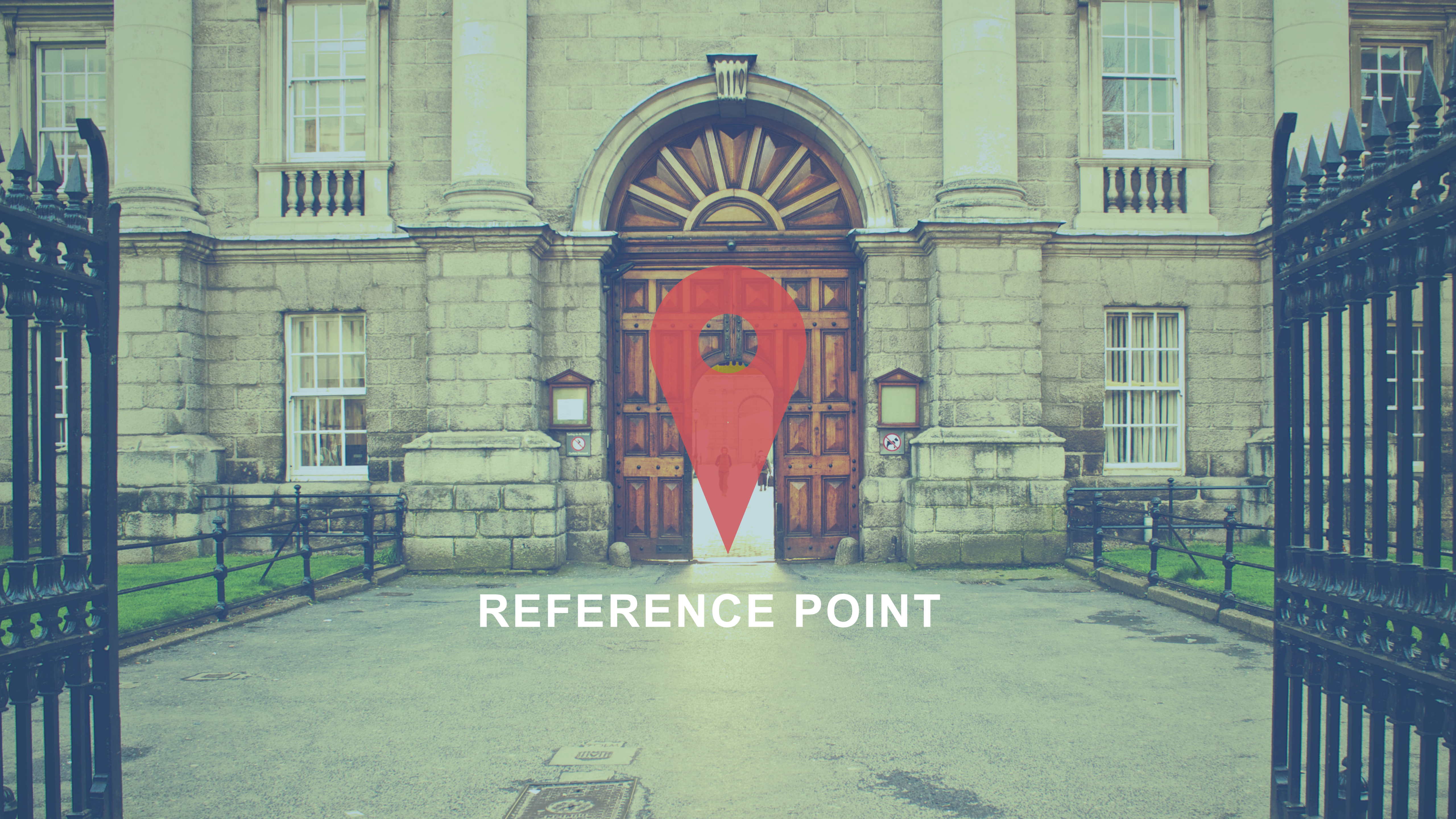
A man in a black jacket and blue pants is walking on a city street, using a white cane. He is looking towards the camera. In the background, there are other pedestrians, a crosswalk, and a building. The scene is outdoors during the day.

“Why am I not defined by my abilities but only by my deficiencies?”

- Joni, 30



LOST IN
SHOPPING MALL



REFERENCE POINT

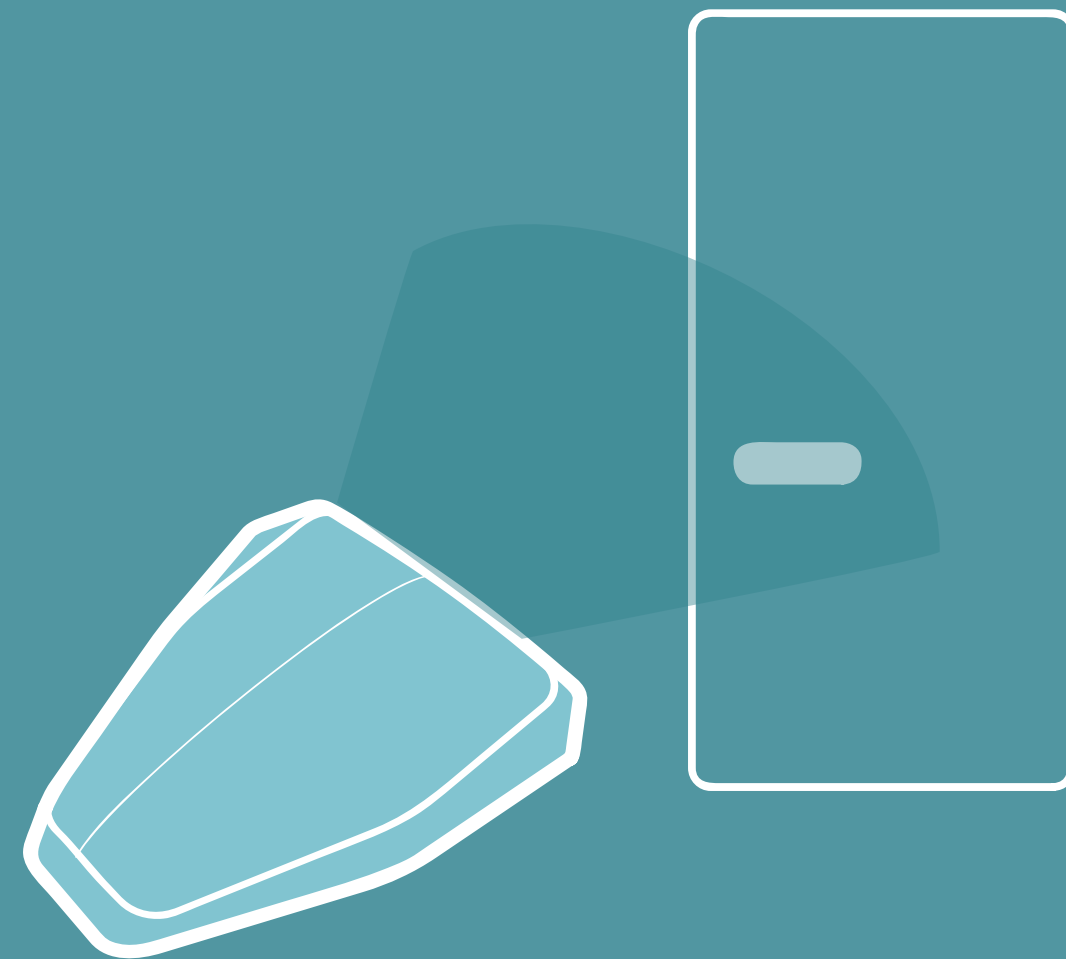
BLINX

COMMUNICATING SURROUNDINGS

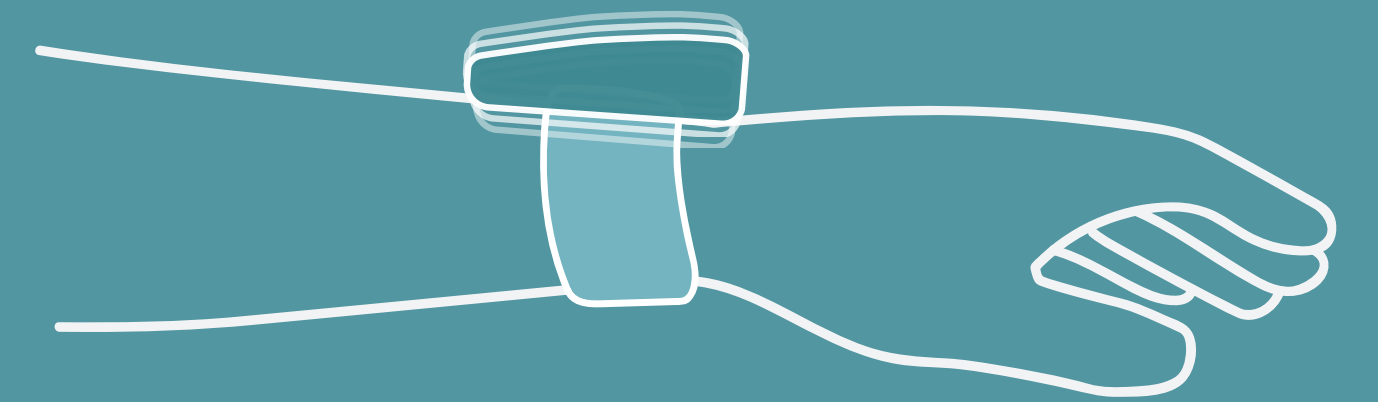


“Find the door”

1 VOICE
COMMAND



2 SCAN THE
ENVIRONMENT

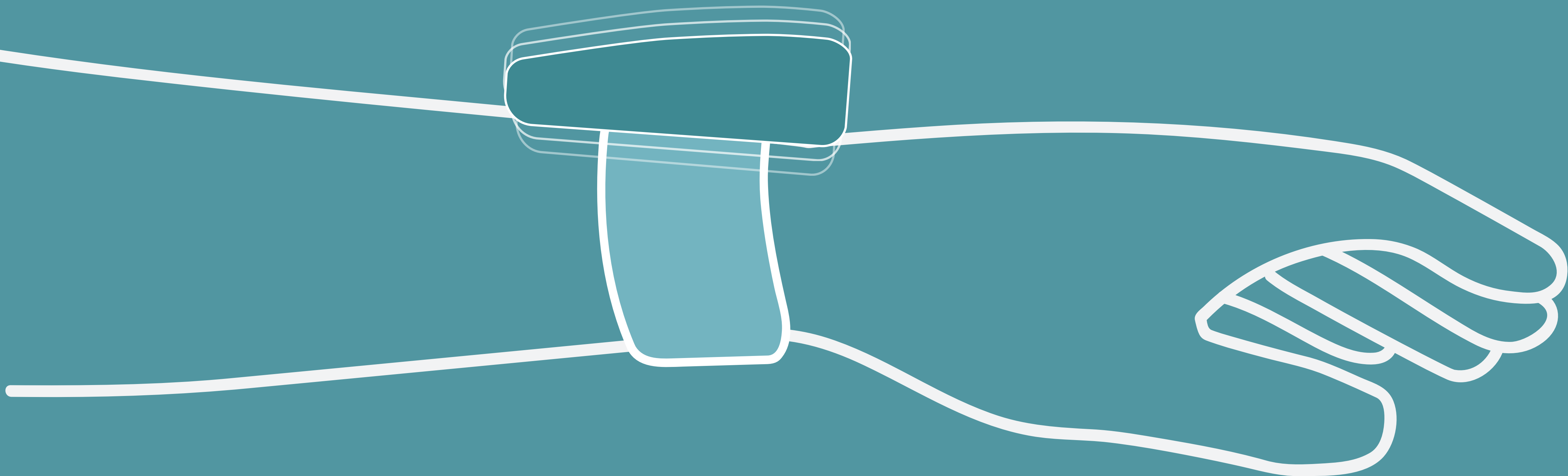


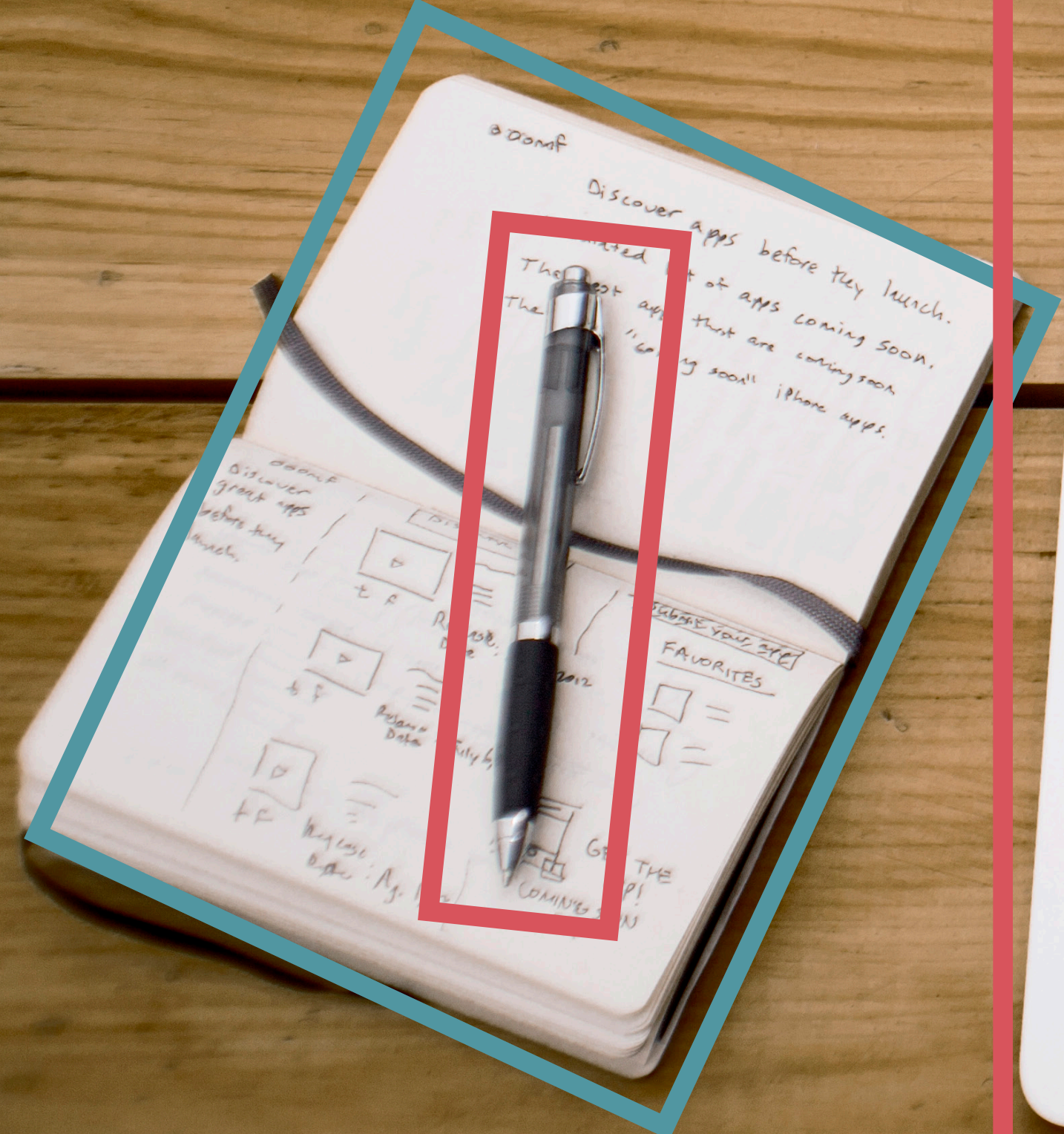
3 VIBRATION
FEEDBACK



**INTERFACE:
VOICE INPUT**

INTERFACE: VIBRATION FEEDBACK







“one can know only one physical property of complementary variables accurately.”

- Werner Heisenberg