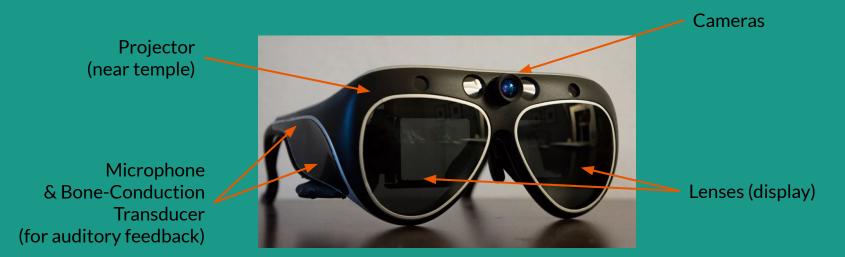
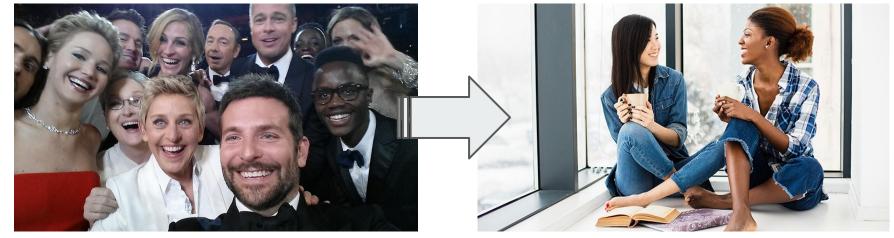
## Augmented glasses that help people with Autism Spectrum Conditions identify and learn (to simulate) emotion





- 1. 1-on-1 conversations
- 2. Social learning

## **Usage Scenarios**



#### **How It Works**

#### Input

- Facial expressions
- Speech cues

#### Output

- Name of associated emotion
- Pictorial representation of emotion



Team SpecTre



### **Functions & Specifications**

#### Input

- Cameras
  - Facial (expression) recognition
  - Locks onto the person of interest when combined with audio input
  - Placed between the eyes
- Microphones
  - Listens for tone, volume shifts, keywords, etc.
  - Directionally tuned to focus directly ahead of the user

#### Output

- Projector & Lens
  - Projector on the sides of glasses that displays info on the lens
  - Projects info next to person of interest
- Optional auditory feedback
  - Fed through bone conduction
  - o Reads aloud textual output

# First-Time Use & Controls

- 1. Boot device (pulling motion on neck strap)
- 2. Connect to smartphone app, which handles data analysis using phone's processor,
- 3. Automatically engage sensors to focus on conversation partner when facing them
- 4. App stores data for personal review, if desired (and permitted by others)
- 5. Device tracks when the glasses are worn to go into standby mode or resume usage

