



Wearables for Access

Glasses - Vision

- **Ally Solos Glasses**

- Camera, microphone, speakers
- 'Ally' AI-voice assistant
- Made specifically for blind/low vision users
 - Read, identify, scan photos/documents/batch
 - Ask questions
 - Change personality of assistant
 - Throughout the day

- **Ally Envision Glasses**

- Mostly same as above – Google Glass

- Partnerships

- Museums, art installations and others
- Immersion and descriptions
- Richer experience for all

Glasses - Vision

- **ORCAM – My Eye**
 - Can be affixed to glasses
 - Read, recognize, interpret
 - Gesture, touch or voice command
 - AI – Assistant
 - Most tools are available off-line



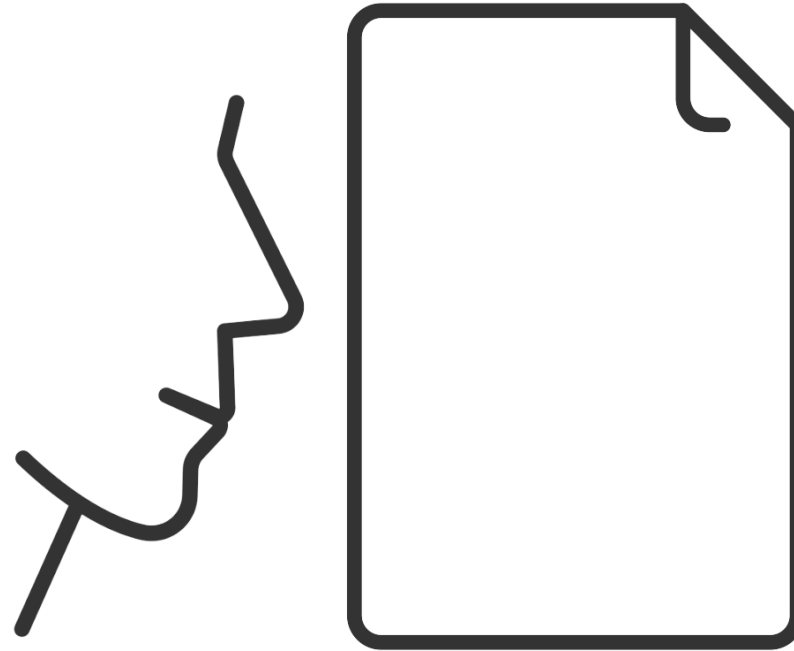
Encroma Glasses

- Specially made for color blindness
- Mostly red-green
 - Protan and Deutan
 - Can show long term improvement
- Different styles available



Glasses – Hearing

- **NuCaption**
 - AR Glasses
 - Captions delivered to field of view
 - Off-line captions
 - Connects to included phone
 - No Wi-Fi or data plan needed
- **Others available out there:**
 - Captify
 - Xander
 - New Meta Glasses??



Glasses - AR

- **Even G2**
 - Smart Glasses with display
 - Transcriptions
 - Teleprompter
 - Calls, emails, texts, calendar, reminders, stocks, more coming
 - Controlled by touch, voice, separate ring
 - Tethered to phone via app and Bluetooth
- **Lots of others out there**
 - Different prices, features, uses



Glasses - VR

- **TransfrVR**
 - Job skills training via VR
 - Can teach skills and evaluate needs
 - Used to find career path
 - Gives real world scenarios in controlled environment
 - Train on hard to duplicate situations



Glasses - VR

- **Floreo Tech**

- Virtual Reality Training Tool for Individuals with Autism
- Utilizes Google Cardboard, Meta Quest or PICO Neo
- Links with App for Therapist, Parent or Others to assist with learning
- Many different trainings available
 - Joint Attention, Imitation, Gestures, Calming/Alerting Experiences, Mindful Thinking
 - Halloween, Police Encounters, School small talk and social skills
 - Learning and Education



Glasses - VR

- **Other uses of Virtual Reality**
 - Empathy training
 - Training officers to work with individuals with:
 - Autism
 - Mental illness
 - Other needs
 - Simulates states of being
 - De-escalation training
 - Identifying triggers



Glasses - VR

- **Other uses of Virtual Reality**
 - Train individuals with disabilities to handle situations
 - In the community
 - Riding the bus, attending a social event)
 - Socialization
 - Recognizing facial expressions and body language
 - Practice goals and targeted learning



Cognixion Axon-R



- Combination of AI, AR and brain control interface
 - Non-intrusive
- Available for researchers
 - Assist with brain rehab
 - Use for AAC
 - Control other devices
 - Whatever you can imagine

Glasses – Control

- **Apple Vision Pro**
 - Wheelchair control
 - Control wheelchair with eye movement
 - Partnership with Project DRIVE
 - Northwestern University
 - Tracks gaze and eye position
 - 8 directions, stop, go and pause
 - Wired or BlueTooth
 - Coming soon – next few months update?



Watches

- Apple Watch*
- Alerts and Reminders
 - No need to pull out phone
- Captions
- Focus Modes
 - Other accessibility features (access to device)
 - All the health stuff from before too
 - ***Works best when paired with iPhone**
 - ***Different models – different features**



Watches

- **Dot Watch**
 - Refreshable Braille display watch
 - Pairs with phone via Bluetooth
 - Haptics and Braille
 - Time – Does not need to be connected to phone
 - Alerts
 - Texts
 - Weather, notifications and others
- **Discontinued because life ain't fair and the world is mean**



Watches

- **Synapptic Smartwatch**
 - High-contrast, large numbers and text
 - Voice Output of time and information
 - Simple swipe control
 - Alerts, alarms and timers
 - Fitness tracking and goals*
 - Weather updates*
 - Calls and texts*
 - *only in the upgraded version (V2 Plus)



Watches

- **Low Vision Watches**
- **Sound**
 - Announce time and alerts.
 - Automatic or with touch
- **Touch**
 - Braille and tactile numbers/hands
- **Sight**
 - Large numbers, hands
 - High Contrast
- **Combination of the above**



Watches

- Time Timer Watch

- Visual time tracker
- Visual representation of time
- Easy to set and use
- Useful for staying on track
 - Autism, ADHD, Anxiety
 - Visual and predictable
 - Non-threatening

3 Powerful Modes



Clock

Time Timer

Alarm

Watches

- **WatchMinder 3**
 - Personalized reminders
 - Repeating intervals
 - Quiet, vibrations
 - Countdown timer
 - Build executive functioning skills
 - Stay on task
 - Move between tasks
 - Easy to use, set and program



Rings

- **Lotus Ring**
 - Light switches and controls
 - Television
 - Easy to install covers
 - Simple set up
 - No data or internet connection needed



Computer/Device Control

- **MouthPad**

- Augmental
- Mouth controlled interface
- Fit to user
 - Top of mouth
 - Controlled by tongue

- **Vox – Coming Soon**

- Companion device to MouthPad
- Voice Input ring worn around neck on skin
 - 'Invisible keyboard
- Gets sound from air and body



Computer/Device Control

- **Kinemo One and Connect**
 - Wearable Body Switch
 - Activated by body movement
 - Shoulder shrug, etc.
 - 3-18 actions
 - Control anything via connect or BlueTooth
 - Wheelchair, AAC, phone, computer...



Computer/Device Control

- **Quha Zono**
 - **Wearable Mouse**
 - Lightweight wearable mouse
 - Glasses, headband
 - Tracks movements and transfers to device
 - Computer, AAC, other devices
 - **Pufo+ and Sento**
 - Puff switch that attaches to wireless mouse
 - Control clicks with breath



Computer/Device Control

- **TapStrap 2**
 - All-in-one wearable keyboard, mouse and air gesture controller
 - Customizable controls
 - Online training available
 - PC, tablet, VR/AR/XR, phone, TV...



Computer/Device Control

- **Wearable Mice**
 - Ring like
 - Control clicks, scroll, more
 - Different versions for different needs
 - PC, phone, tablet
 - Can be an inexpensive accommodation



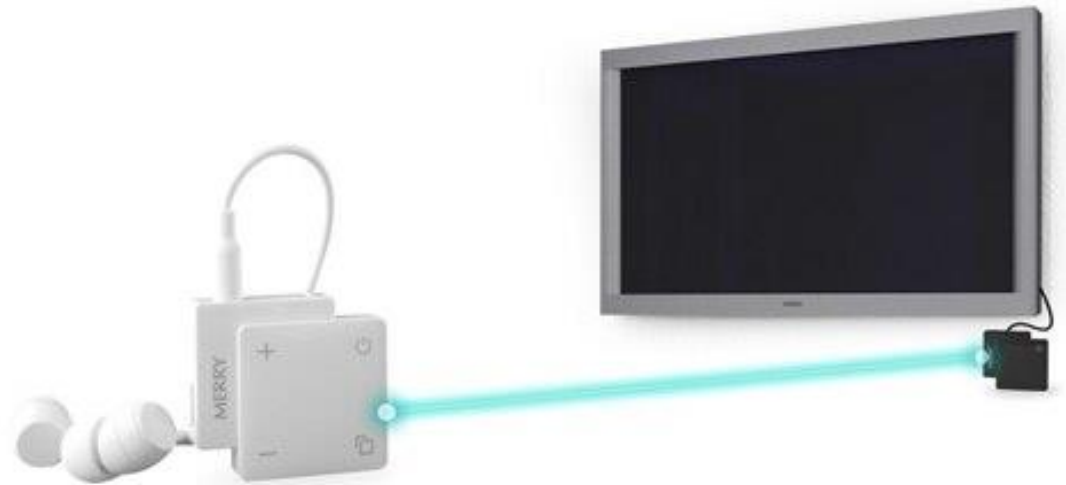
Assistive Listening Systems/Devices

- Personal Sound Amplifiers (One Piece)
 - Small hearing aid like devices
 - Can be worn in just one ear or as a pair if necessary
 - Most are Bluetooth compatible
 - Have directional microphones, but amplify all sound
 - Can usually be adjusted by an app
 - Quick adjustments on device itself



Assistive Listening Systems/Devices

- Personal Sound Amplifiers (2 piece)
 - Uses two separate units
 - Transmitter
 - Receiver
 - Transmitter can be connected to a larger mic, television, computer
 - Receiver then amplifies sound from transmitter



Headphones

- Wired or Bluetooth
- Over-ear, earbuds, bone conducting
 - Useful in different situations
 - User preference
- Noise-cancelling, transparency, adaptive
 - Situational needs
- Can be used as listening device
 - Using external mic or device (phone/tablet)



Low Tech

- Low Tech
 - Magifiers
 - Magnifying glasses
 - Jeweler's loupe
 - Computer and light blocking glasses
 - Quarterback armband
 - Dry erase slap bracelets
 - And so on, and so on....





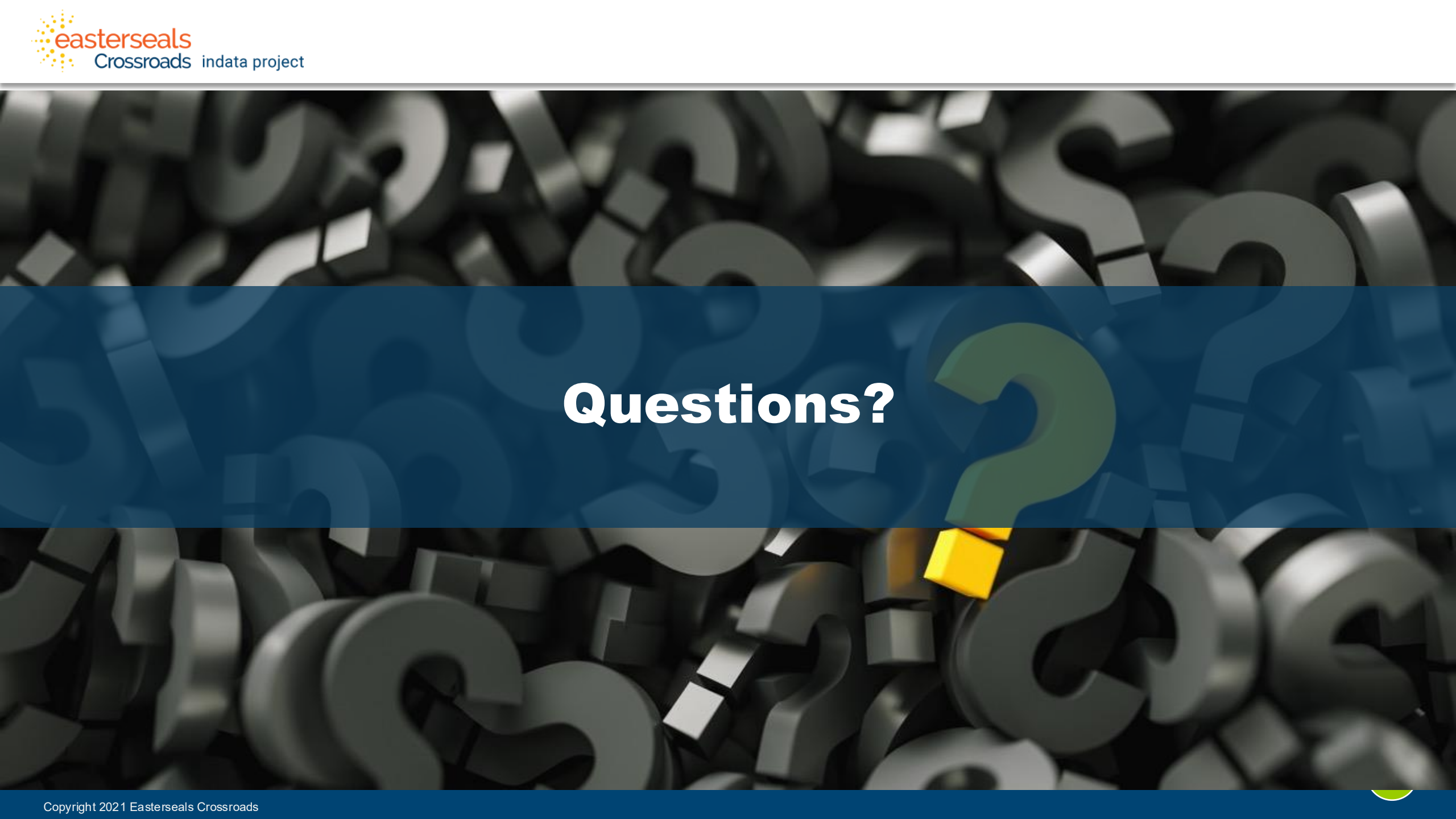
Robotic Suits for Mobility

- Using Brain interface for control
 - Controls implanted in the brain
- Still experimental
- Could allow for full mobility
- Others out there, more on the way
 - Different controls
 - Some less invasive
- Smaller and specialized ones available as well
 - Work on a specific part of the body
 - Rehabilitation and therapy

Wearables for Access

- **Lots of others out there**
 - Allows individuals to stay more independent
 - Gain access to the environment, technology, education, employment and more
 - Some high-tech and expensive, some low-tech and cost effective
 - When it is the right thing, it is great!!
 - Borrow and try out accommodations - INDATA
 - ****Increased independence****





Questions?