

# TURNING TO TECHNOLOGY: EMERGING ACCESS FOR STUDENTS WITH DISABILITIES

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# Technology and Disability



- <https://www.youtube.com/watch?v=XB4cjbYywqg>

# Technology and Disability Inclusion

## Goals:

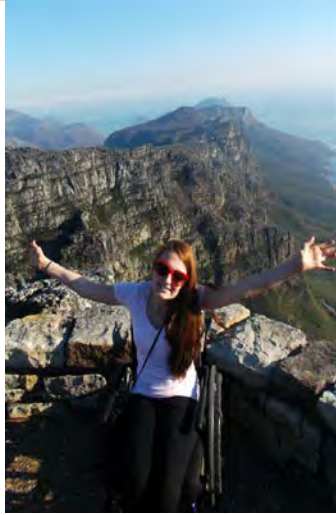
- Start with YES!
- Embrace Technology
- Bridge Not Barrier
- Recognize Access Opportunities
  - Recruitment
  - Access Abroad
  - Engagement



# Changing the Image of Study Abroad to Include...



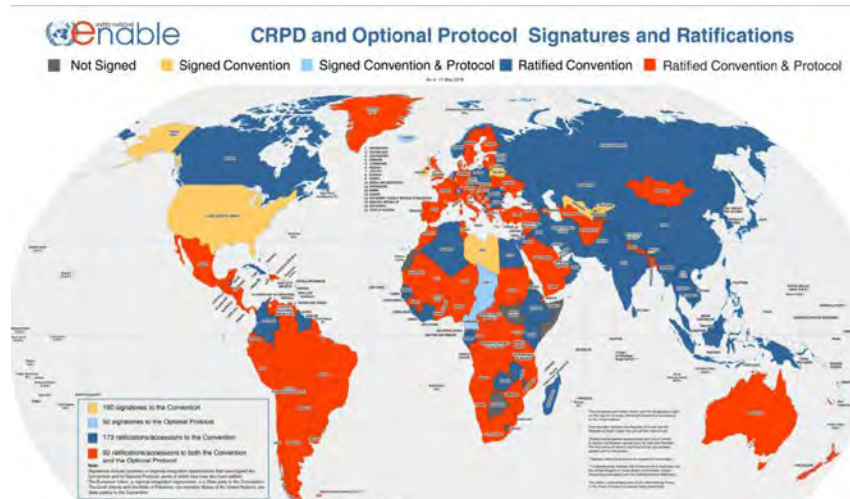
# ...THIS!!!



# ACCESS ABROAD

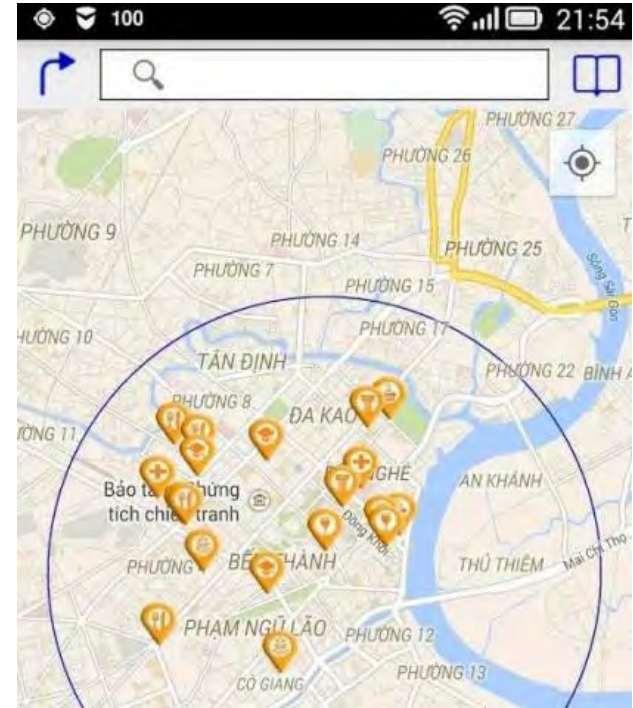
# Disability Rights Exist Around the World

- United Nations Convention on Rights of Persons with Disabilities (UNCRPD)
- 160 signatories to the Convention (yellow)
- 92 signatories to the Optional Protocol (light blue)
- 173 countries ratified/accessions to the Convention (dark blue)
- 92 ratifications/accessions to both Convention and Optional Protocol (orange)



# Global Disability Rights Related Mobile Apps

- Vietnam: City Accessibility Map
- Libya: Electoral Sign Language Lexicon App
- Taiwan: Restaurant Accessibility App
- India: Polling Center Accessibility App
- Pakistan: Disability Inclusive Political Engagement App



Global Disability Rights  
Now!®

# Accessibility Examples:

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## ○ Informational

- Digital copies of handouts
- Video captions/transcripts

## ○ Attitudinal

- Challenge by Choice
- Options for assignment type

## ○ Structural

- Flexible desk set-up
- Ramps

## ○ Procedural

- Early arrival
- Changing locations

# The Biggest Accessibility Barrier

## Attitudinal Barriers

- Preconceived notions
- Assumptions of host institution/region
- Limited knowledge of current technology and access tools



# Assumed Barriers

- Recruitment
- Physical Access
- Housing
- Sign language interpreters (Deaf)
- Orientation and Mobility (Blind)
- Disability Culture
- Alt Formats



# CIEE STRATEGIES TO INCLUSION









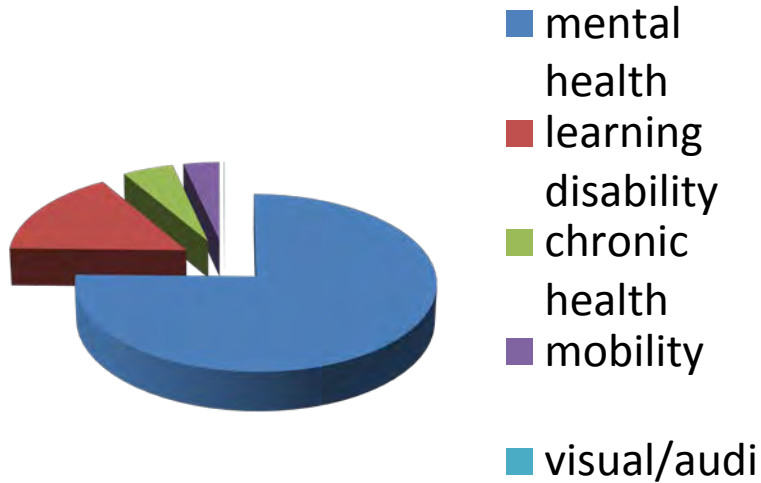




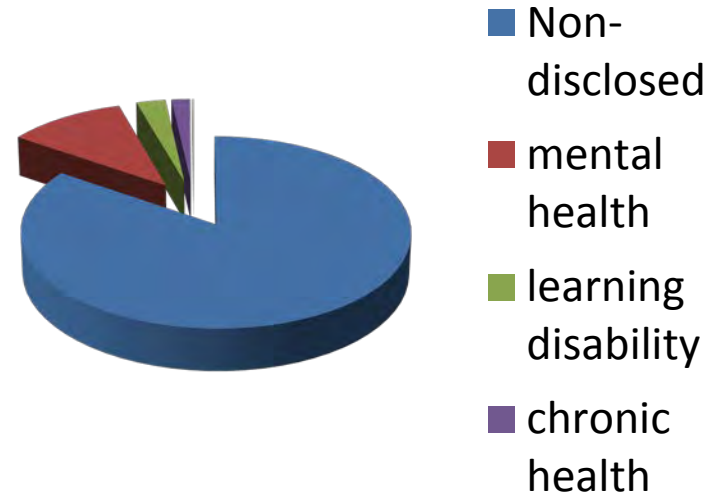
# Snapshot CIEE Seville



## Breakdown



## Seville SC



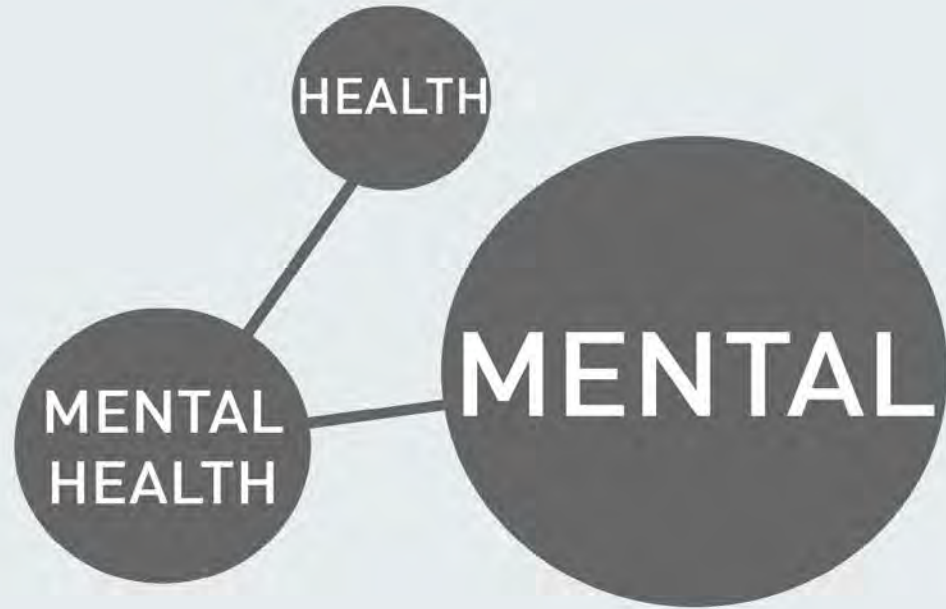
835 STUDENTS IN 2015





MENTAL  
HEALTH

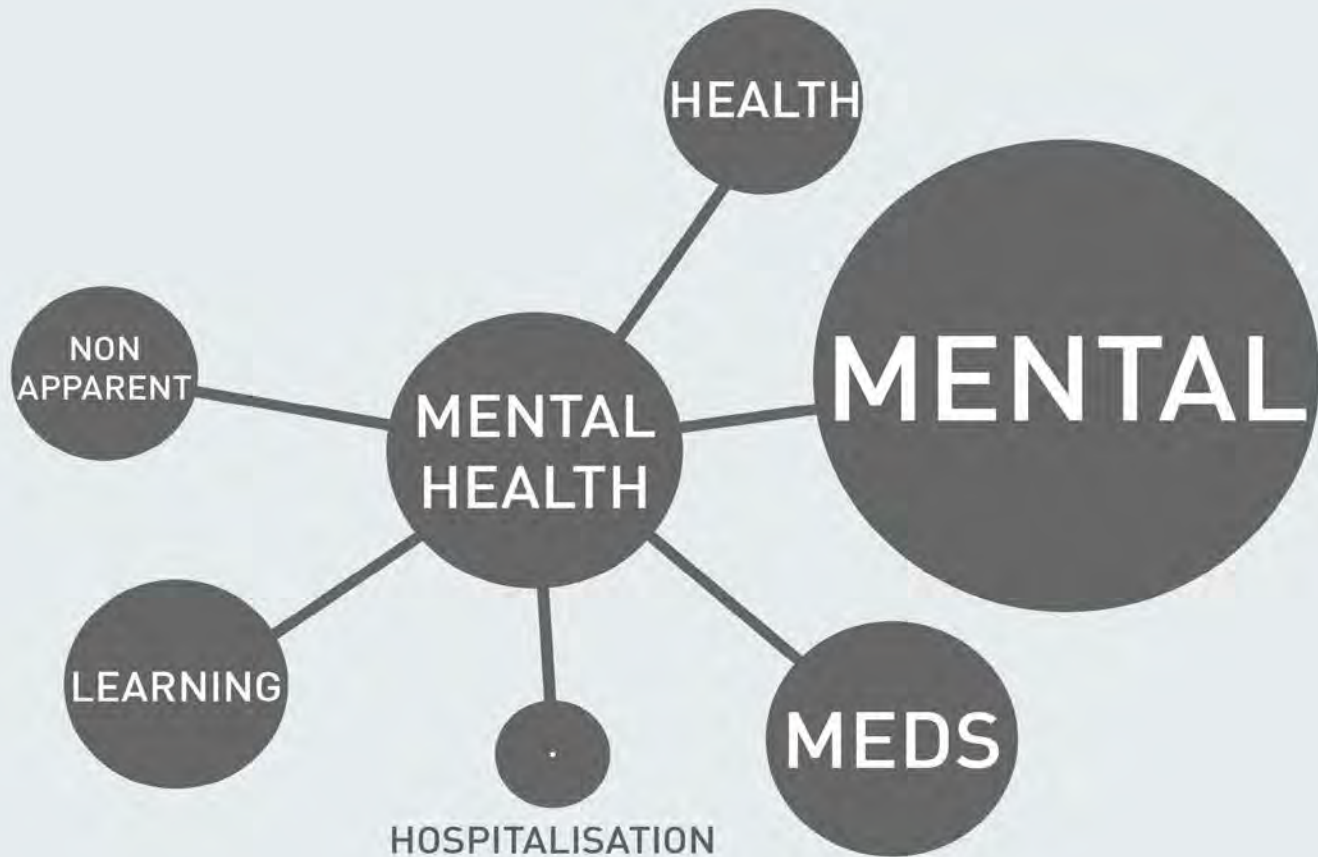


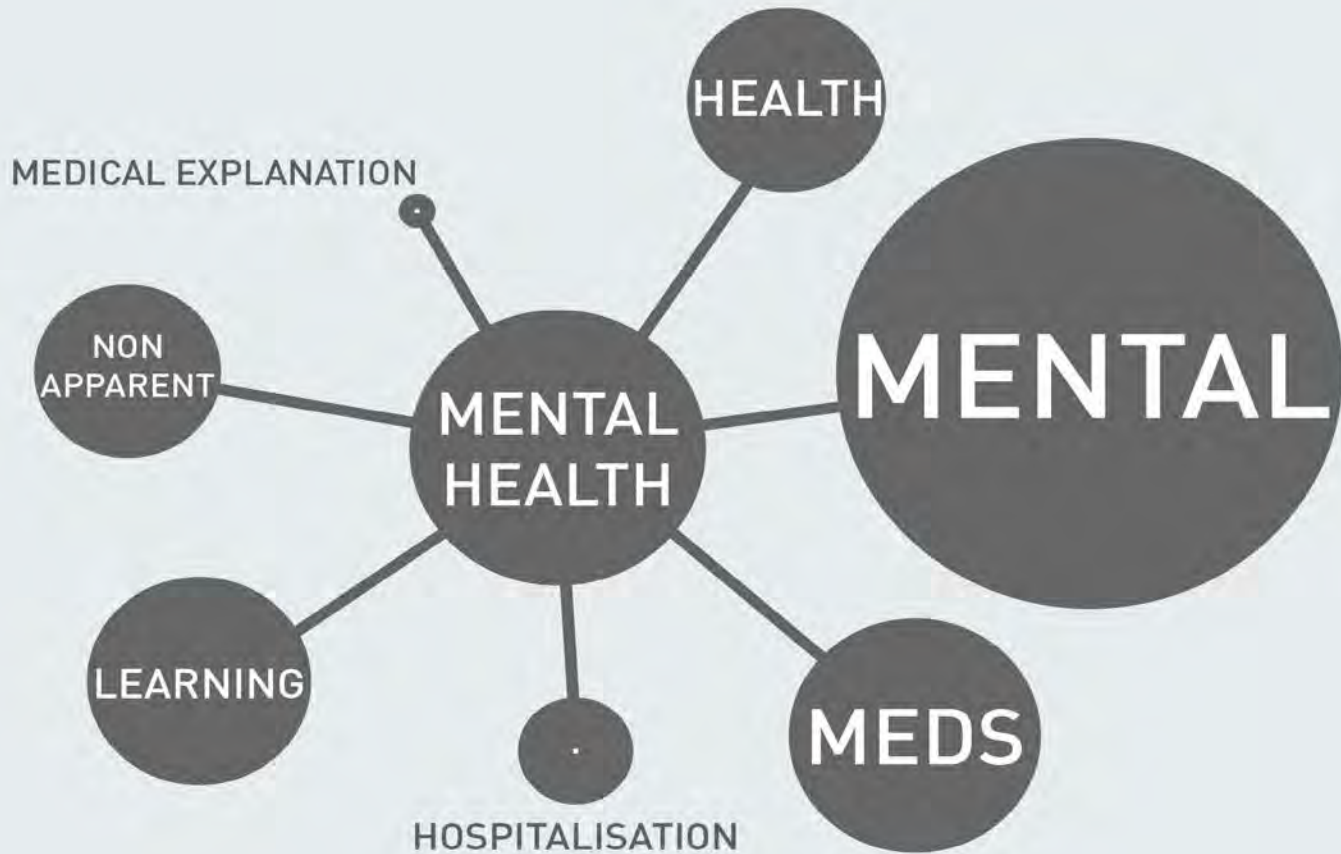






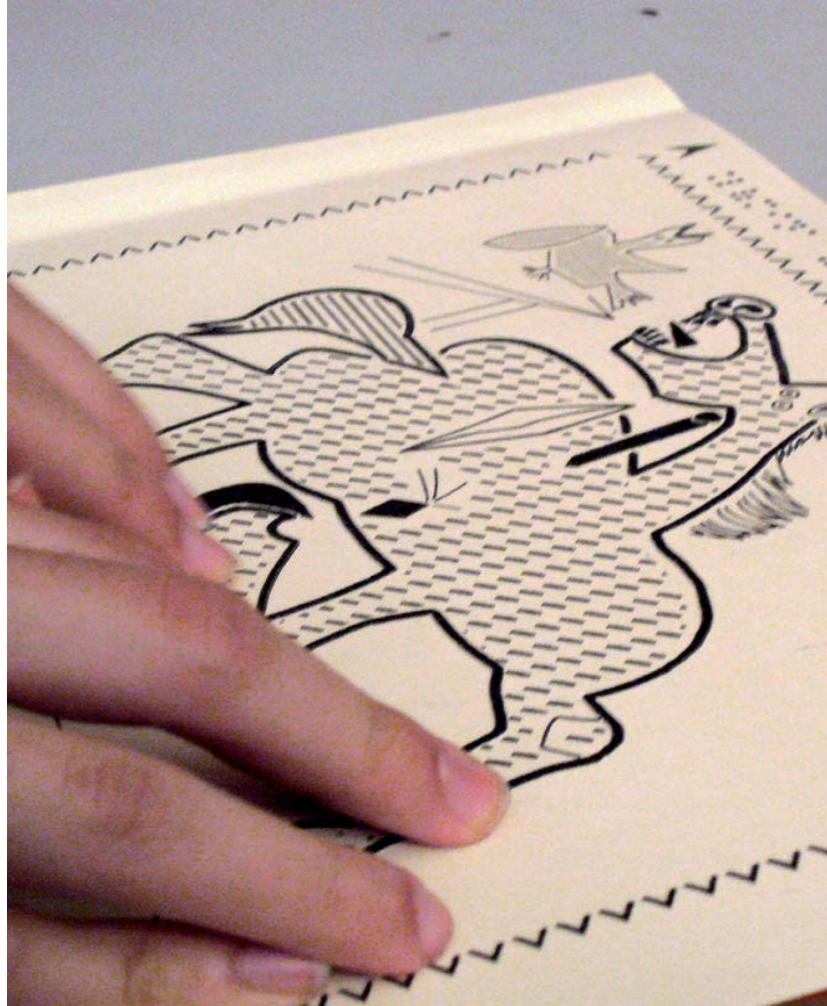






















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# NEW OPPORTUNITIES THROUGH TECHNOLOGY

# Pack Up Your Bike...Let's Go for a Ride!!!

- Recruitment and Outreach
- On the Ground
- Disability-Specific Mobile Apps



# Recruitment and Outreach

- Barriers:
  - Online application inaccessibility
  - Study Abroad materials (alt formats)
  - One form of communication: Audio, visual only
- Targeted outreach to students with disabilities
  - Social media – tag disability-specific organizations, terms
  - Crowdfunding campaign: Draw attention to access for students with disabilities (purchase equipment, scholarships)
  - WhatsApp Broadcast platform
  - Skype advising sessions (chat or video)
  - Videos; #YouAreWelcomeHere (caption)



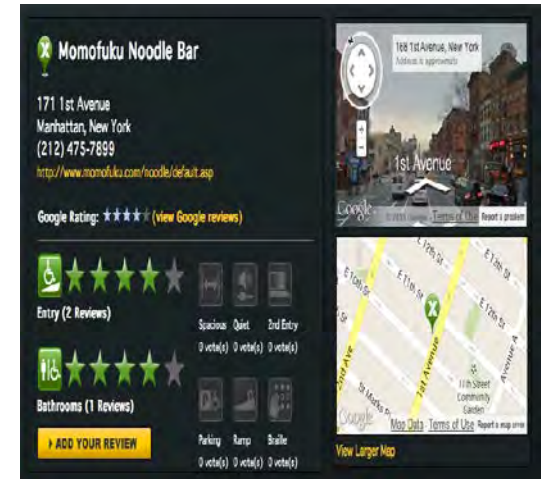
# On the Ground

- Google Maps: Navigation
- OsmAnd (offline maps)
- Google Translate
- Provide more disability-specific/region-specific resources
- Apps for Accessibility Map (“Complete 10 Access Tips and Get \_\_\_\_\_”!)
  - Brettapproved.com
  - AXS map: <https://www.axsmap.com/>



*(includes video and document on how to rate)*

- Here are the photos you'll generally need for hotels: parking, entry/doorway, check-in, hallways, elevators/lifts, sleeping room (look for the placement of bed and furnishings to determine room to maneuver, electric outlets, access to windows), bathrooms (try to capture shower, seating, toilet, grab bars, sink), hotel features such as pool/hot tub, and public spaces.
- For a restaurant, you'll generally want these photos: parking, entry, aisle widths, seating options, restroom hallway/access, toilet stall with grab bars.
- For almost any location or venue, you'll want parking, entry, pathways, restroom. Pay special attention to slope and ground surface as many of our readers use manual chairs.



# On the Ground: Equipment



Ramp Created by a 3-D Printer



Free-Wheel Taking on Cobblestone Roads



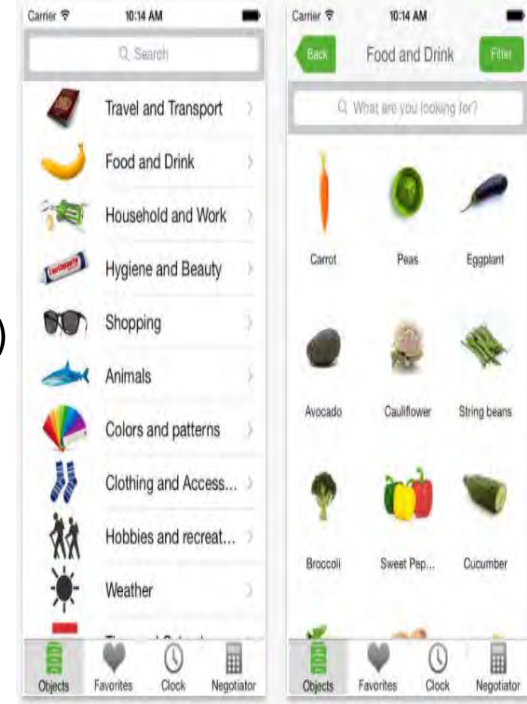
Go-Grit through Nature

# 5 Essential Apps and Tools for Deaf/HoH Travelers

- Picture Dictionary-Babel Deck
- Tap Tap
- WhatsApp
- Google Maps
- UNI: Two-way communication [https://youtu.be/sqAbOZMzp\\_E](https://youtu.be/sqAbOZMzp_E)
- Spread the Sign: Multilingual Sign (200k signs in almost 20 sign languages)

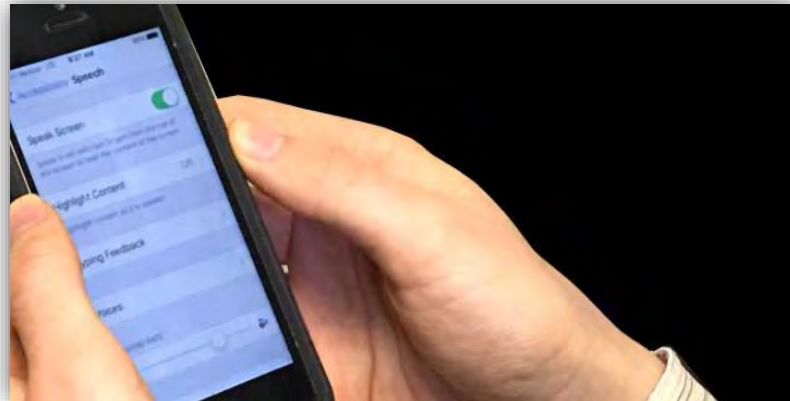


screenshots



# 5 Essential iPhone Apps and Tools for Blind/Low Vision Travelers

- Google Maps
- Blind Square (accessible GPS)
- LookTel Money Reader (21 currencies)
- DOT Braille Watch
- Seeing AI: [https://youtu.be/4krZgdX\\_WT8](https://youtu.be/4krZgdX_WT8)



# Other Assistive Technology:

- Smartpen records what's written and synchronized with audio at the same time.
- White Noise apps for people with sensory or concentration difficulties
- Voice Memo
- MyHealth – keep track of all your medical info
- Medicine List, Pocket Pharmacist, many others – Keeps track of medications, allergies, pharmacies, lets you know of potential drug interactions, side effects
- HearYouNow – personal sound amplifier <https://itunes.apple.com/au/app/hearyounow-your-personal-sound/id569522474?mt=8>
- Be My Eyes – live video connection between blind and sighted people <https://itunes.apple.com/us/app/be-my-eyes-helping-blind-see/id905177575?mt=8>
- Talkitt: people with speech difficulties/trouble understanding heavy accents, translates voices into “easier to understand” speech <https://www.indiegogo.com/projects/talkitt-this-is-my-voice#/>
- RogerVoice – Deaf/HH phone calls <https://itunes.apple.com/au/app/rogervoice/id1033113354?mt=8>
- GlucoseBuddy for Diabetes tracking - <https://itunes.apple.com/au/app/glucose-buddy-diabetes-logbook-manager-w-syncing-blood/id294754639?mt=8>

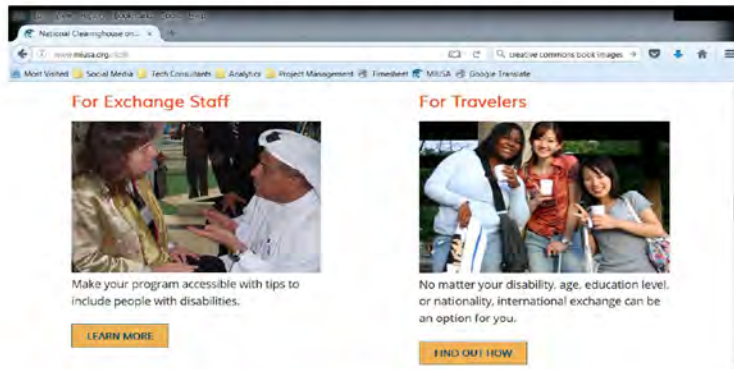
# CIEE ALUMNI EXPERIENCE: EMMA VERRILL

# Questions

Contact NCDE for any disability-related questions and access hundreds of online resources

- Email: [clearinghouse@miusa.org](mailto:clearinghouse@miusa.org)
- [www.miusa.org](http://www.miusa.org)
- Center on Technology and Disability (CTD)
- Your Disability Services Office

**Free Online Resource [www.miusa.org/ncde](http://www.miusa.org/ncde)**



**National Clearinghouse on Disability and Exchange**, administered by Mobility International USA & sponsored by the U.S. Department of State



A photograph of a city skyline featuring several prominent skyscrapers. In the foreground, a multi-arched bridge spans across the frame. The buildings are illuminated by warm, golden light, suggesting late afternoon or early morning. The sky is a clear, bright blue. The text 'THANK YOU' is overlaid in the upper center of the image in a large, white, sans-serif font.

THANK  
YOU