

# Inter Islamic Network on Information Technology



## Technology and People with Disabilities

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# Understanding the Needs of the Disabled



Why is it a Priority?



CRPD acknowledges that disability is an evolving concept

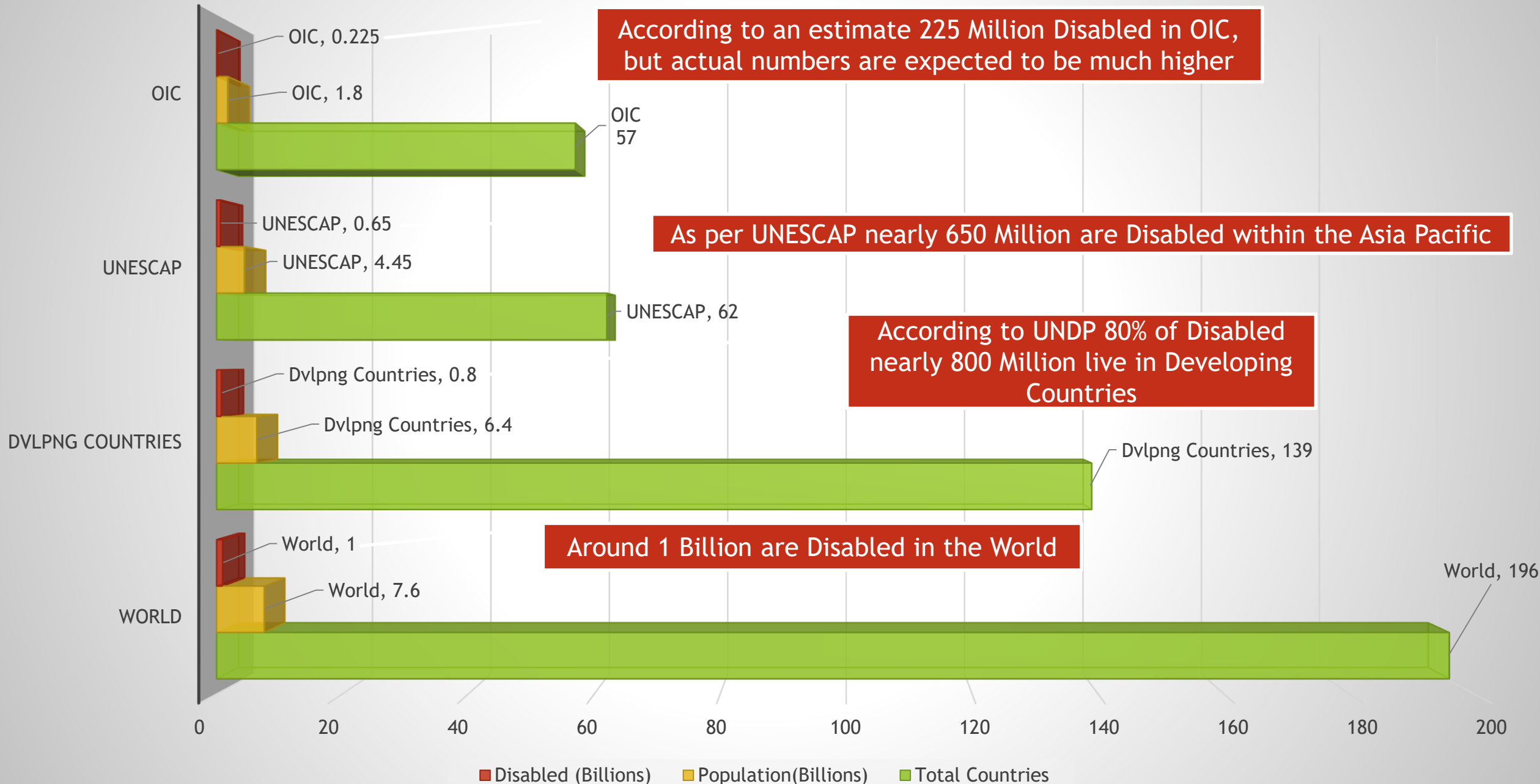


Disability results from the interaction between persons with impairments and attitudinal and environmental barriers that hinder their full and effective participation in society on an equal basis with others.



Disability is NOT an attribute of the person

# Population analysis



# Food for Thought

“Near the start of the bus route I climb on. I am one of the first passengers. People continue to embark on the bus. They look for a seat, gaze at my hearing aids, turn their glance quickly and continue walking by. Only when people with disabilities will really be part of the society; will be educated in every kindergarten and any school with personal assistance; live in the community and not in different institutions; work in all places and in any position with accessible means; and will have full accessibility to the public sphere, people may feel comfortable to sit next to us on the bus.”

Ahiya

**WORLD REPORT  
ON DISABILITY**



# How can Technology Assist?

- ◆ Assistive technology (AT) is any item, piece of equipment, software program, or product system that is used to increase, maintain, or improve the functional capabilities of a Person with Disability.
- ◆ AT can be Low-tech: Communication Boards made of cardboard, special switches, keyboards, and pointing devices.
- ◆ AT can be High-tech: Special-Purpose Computers , Screen readers and Communication programs.



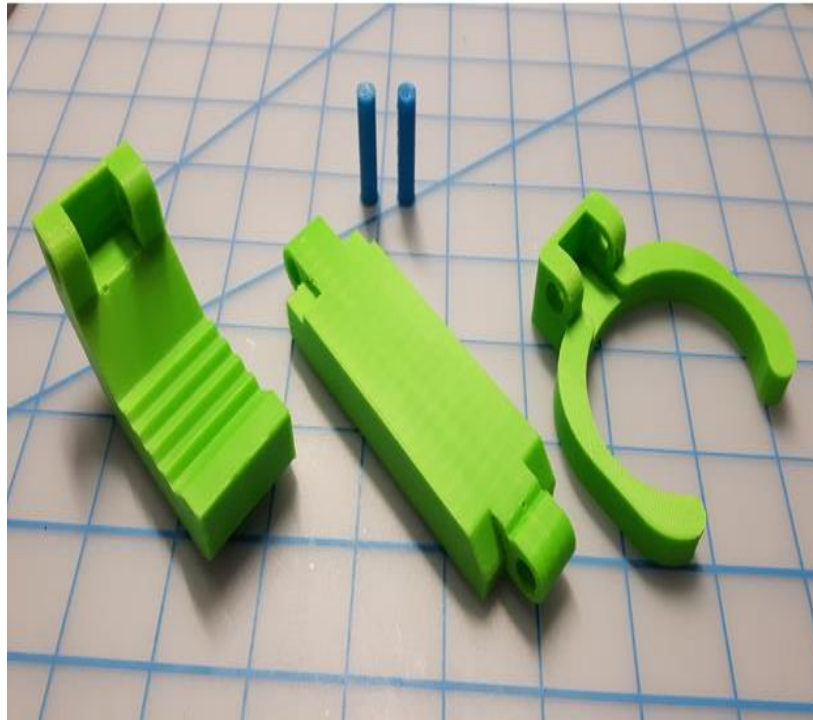


A Training in Pakistan for the Blind on Non Visual Desktop Access Software

Technology can open new frontiers

# Cheap Solutions to Big Problems

◆ A basic example of how a less than \$2000 3D Printer can be used to make day to day activities easier.

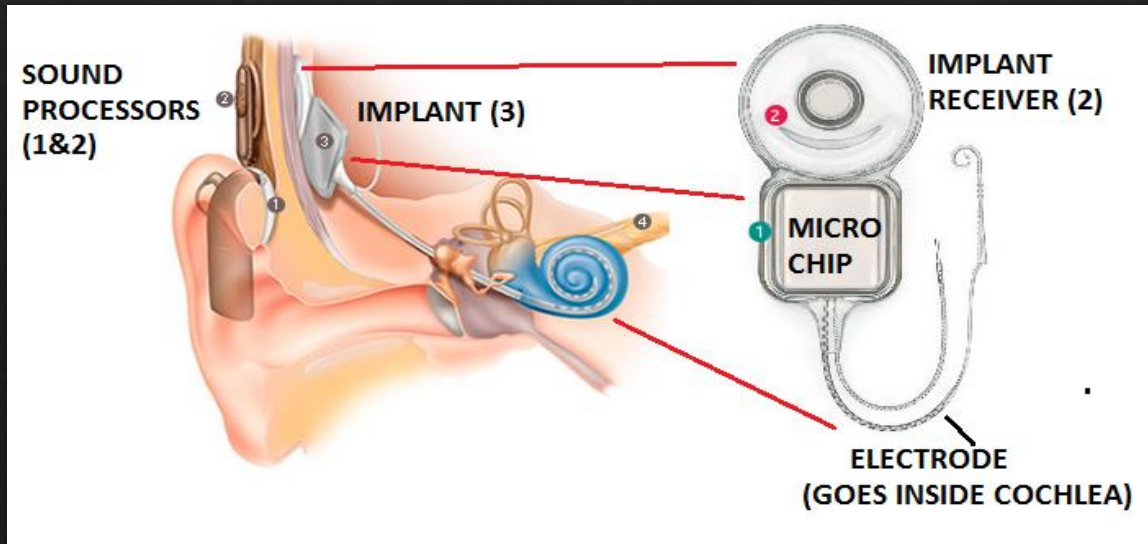




# Technology and Connection to Society



Proloquo2Go 4.0, a major new release of its award-winning symbol-supported Augmentative and Alternative Communication (AAC) app that provides a voice to over 125,000 children, teens and adults who cannot speak. Proloquo2Go 4.0 is designed to enhance language development and communication for AAC users. It also aims to better support parents, teachers and therapists to implement AAC best practices.



A cochlear implant is a surgically implanted electronic device that provides a sense of sound to a person with severe to profound sensorineural hearing loss in both ears. Cochlear implants bypass the normal hearing process. They have a sound processor that resides on the outside of the skin which contains microphones, electronics, battery, and a coil which transmits a signal to the implant.



# Ensuring Technologies Bridge the Gap



Are inequalities reduced or rather increased?

- ◆ How to harness the potential of technology
- ◆ Policies and Regulation ensuring equality e.g. MADA Center , Doha , Qatar