HOW ACCESS TO THE BUILT ENVIRONMENT AFFECTS ACCESS TO EDUCATION

Prioritizing Accessibility in the Design of Learning Environments





* CONTRACTOR OF STATE OF STATE

ABOUT THE PRESENTERS

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ABOUT THE PRESENTERS

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- Founder and CEO of Scher Spaces- an accessibility consulting firm
- Occupational Therapist, school-based
- Certified Accessibility Consultant
- Service Dog Puppy Raiser
- □ Former Playground Project Manager





WHAT IS DISABILITY?



MODELS OF DISABILITY

THE MORAL AND/OR RELIGIOUS MODEL Disability as an act of God

THE MEDICAL MODEL Disability as a disease

THE SOCIAL MODEL Disability as a socially constructed phenomenon

THE IDENTITY MODEL Disability as an identity

THE HUMAN RIGHTS MODEL Disability as a human rights issue

THE CULTURAL MODEL Disability as culture

THE CHARITY MODEL Disability as victimhood

THE ECONOMIC MODEL Disability as a challenge to productivity

THE LIMITS MODEL Disability as embodied experience

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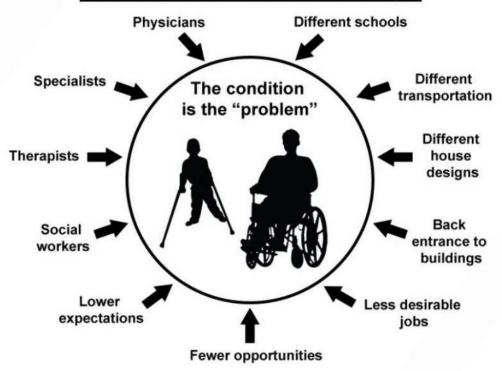
THE LIMITS MODEL Disability as embodied experience

THE MEDICAL MODEL

The medical model defines disability in terms of biological impairments. Disability is viewed as a problem that is caused by medically-diagnosed genetic disorders, disease, trauma, or other health conditions. Disability is treated as a biological problem that diminishes quality of life and needs to be treated with professional medical care.

THE MEDICAL MODEL

The Medical Model of Disability



THE SOCIAL MODEL

The social model of disability is a direct response to the medical model. Rather than place the definition of "disability" entirely on the person with a disability, the social model points out that society creates disabling conditions. To a large extent, "disability" is an avoidable condition caused by poor design.

THE SOCIAL MODEL

The Social Model of Disability



THE SOCIAL MODEL



Disabled is... NOT A BAD WORD

Which Language should I use?

Do you have Lived Experience?



Depending on the Region it may be more common for people to opt for Identity-First language, Disabled Person or Person First Language, Person with Disability. Use the language that is most suitable. If you want to ask someone do so respectfully.

Yes

Choose the language that is most comfortable for you. It's your right to identify, and it's your lived experiences.



Respect a person's right to identity, it's their lived experiences.

Credit: Jamie Shields via Instagram

ACCEPTABLE LANGUAGE

THIS LANGUAGE IS OUTDATED...

Differently-Abled/Handicapped

Special Needs

Suffers from.../Victim of.../Stricken with...

Able-Bodied

...USE THIS INSTEAD

Disabled person/Person with Disability

Functional Needs

They have.../...are living with...

Non-Disabled



Equitable experiences and opportunities begin with ACCESS TO EDUCATION

CASE STUDY: PHILIPPINES RESEARCH

Education Legislation

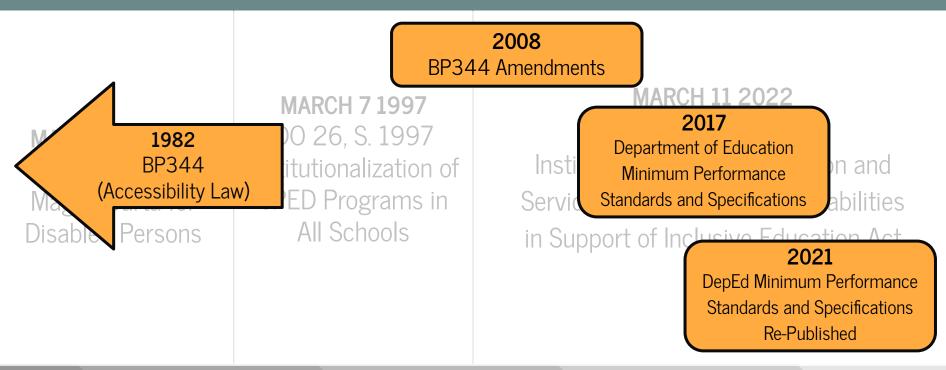
MARCH 24 1992 RA 7277 Magna Carta for Disabled Persons MARCH 7 1997 DO 26, S. 1997 Institutionalization of SPED Programs in All Schools

RA 11650 Instituting a Policy of Inclusion and

Services for Learners with Disabilities in Support of Inclusive Education Act

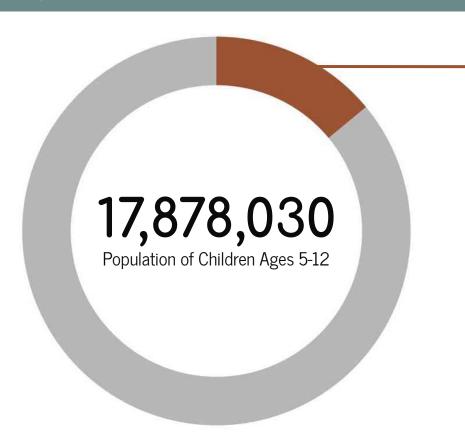
MARCH 11 2022

Accessibility Legislation



1992 2002 2012 2022

Population with Functional Difficulties



2,502,924 (14%)

Population of Children Ages 5-12 With Functional Difficulties (Per PhilHealth Estimates).

1,078,100 Functional Difficulty in Seeing

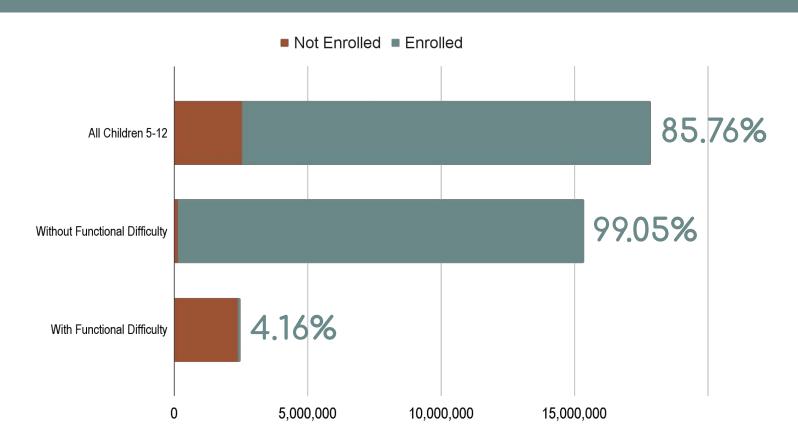
419,288 Functional Difficulty in Hearing

437,486 Functional Difficulty in Walking, Climbing or Grasping

494,733 Functional Difficulty in Remembering or Concentrating

786,949 Functional Difficulty in Communicating

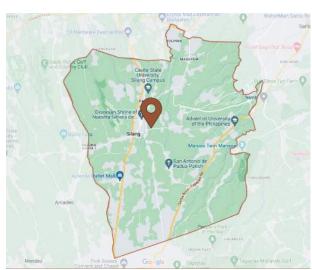
K-6 Enrollment Rates



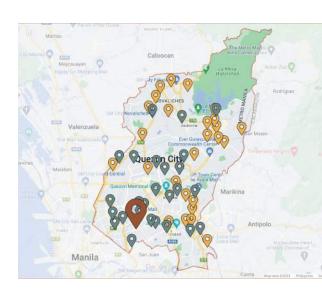
Where are the SPED schools?



Malasiqui, Pangasinan Malasiqui Central Elementary School 1st Class Municipality 131.37 km2 (50.72 sq mi)



Silong, Covite
Cavite Institute
1st Class Municipality
209.43 km2 (80.86 sq mi)



Quezon City, Metro Manila St. Joseph's College of Quezon City Highly-Urbanized City 161.11 km2 (62.20 sq mi)

"Forest School" versus City School





Silong, Covite
Cavite Institute
1st Class Municipality
209.43 km2 (80.86 sq mi)

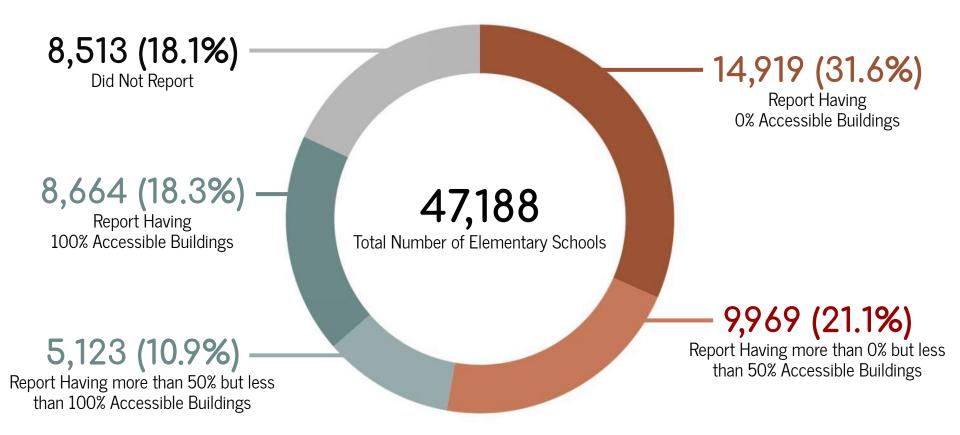
Quezon City, Metro Manila St. Joseph's College of Quezon City

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Public Transportation



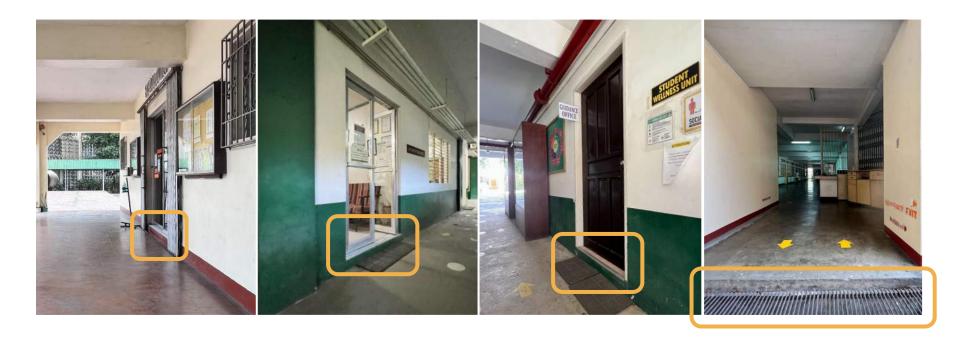
Elementary School Accessibility



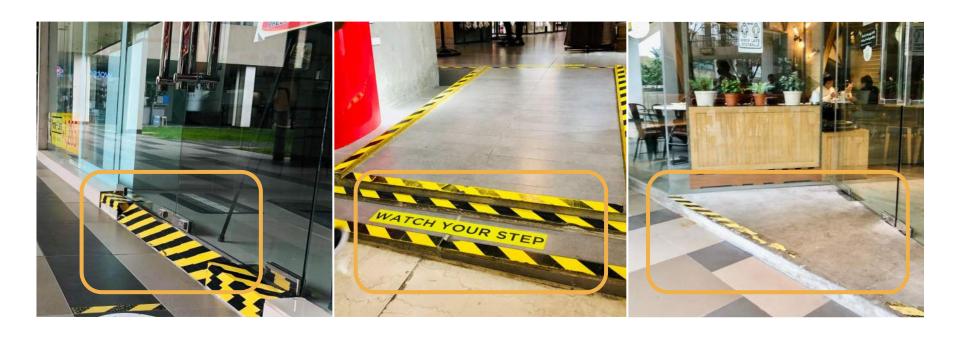
Elevation Changes



Elevation Changes



Elevation Changes in Community



Ramp Usability and Safety



Ramp Usability and Safety



Mobility Into and Within Restrooms

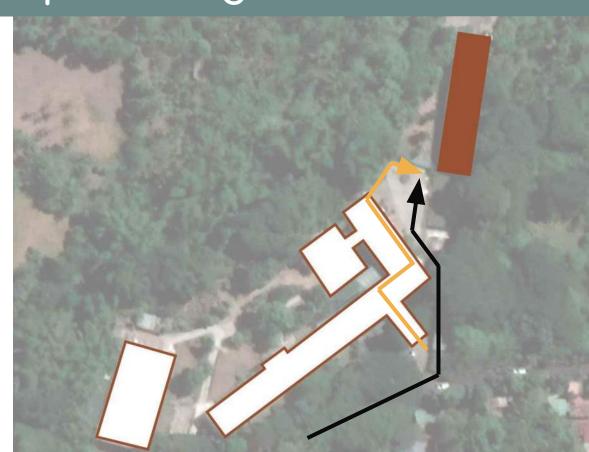


Mobility Within Restrooms



Inclusivity of Campus Design

- SPED-exclusive and mainstream elementary classes are within the same building
- Vehicle drop-off directly in front of building
- Long, pedestrian route from the main campus entrance



Inclusivity of Campus Design

- SPED-exclusive classes are separated from mainstream classes
- Vehicle drop-off is the same
- Separate pedestrian entrances



Sensory Walk and Garden



Room Arrangements and Furniture





Room Arrangements and Furniture



Transition Seating Outside of Classroom



Distracting Windows



OFFICIAL STATEMENT

ON THE ISSUE OF ZERO-BUDGET FOR SPED

September 19, 2022 — The Department of Education has proposed a budget of P532 Million for SPED for FY 2023.

Unfortunately, despite our earnest efforts to advocate for our learners with special needs, it was not considered in the National Expenditure Program (NEP). This is true for two other programs that were excluded from the NEP.

This is a recurring circumstance every year, and DepEd is not at a loss because we always work with members of

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Inadequate Funding

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Facts About SPED Funding

- Private school SPED teachers are not eligible to get fee waivers to participate in Continuing Education Training. They must rely on the commitment of school administration to fund for that training.
- High cost of private school tuition and additional costs of special accommodations



SUPPORTING SCHOOLS THROUGH OCCUPATIONAL THERAPY

Role of Occupational Therapists in Schools

School-based occupational therapy practitioners use meaningful activities (occupations) to help children participate in what they need and/or want to do in order to promote physical and mental health and well-being. Occupational therapy addresses the physical, cognitive, psychosocial and sensory components of performance. In schools, occupational therapy practitioners focus on academics, play and leisure, social participation, self-care skills (ADLs or Activities of Daily Living), and transition/work skills. Occupational therapists expertise includes activity and environmental analysis and modification with a goal of reducing the barriers to participation.

Role of Occupational Therapists in Schools

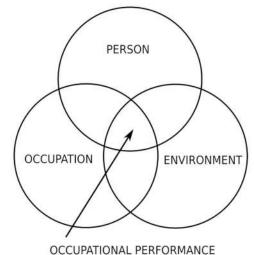
Occupational Therapists have a birds-eye view of learners accessibility challenges in all areas of school campuses; classrooms, bathrooms, playgrounds and play spaces, multi-use rooms/ cafeterias, auditoriums, therapy work areas, courtyards, libraries, locker rooms, parking lots and campus paths of travel.



Person-Environment-Occupation Model

The Person-Environment-Occupation (PEO) Model is an occupational therapy model of practice.

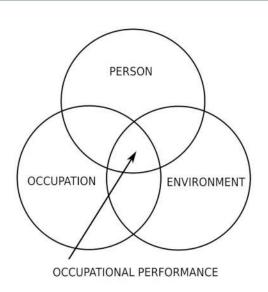
The PEO Model emphasizes that there are transactional relationships between the person, environment and occupation throughout lifetime that can affect occupational performance.



Essentially, every purposeful or meaningful activity or task that a person performs is (or part of) an occupation, therefore how well a person can perform an occupation in the environment is known as occupational performance.

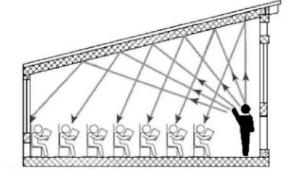
Person-Environment-Occupation Model

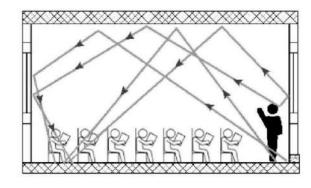
When the school environment is fully accessible, learners occupational performance is improved. Occupational Therapists modify the environment as much as possible (seating, materials, sensory input). In most schools, the lack of accessibility is a major barrier to consistent academic achievement. Occupational Therapists can only do so much to improve an inaccessible environment. Lack of accessibility also impacts teachers and staff ability to support learners with disabilities.



Ceiling Angles

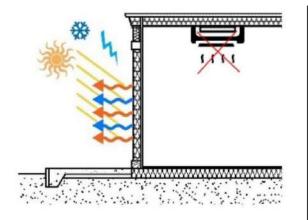
Sloped ceilings decrease or prevent echos which can be distracting or overstimulating for some learners. Noise also impacts hearing impaired and Deaf learners.

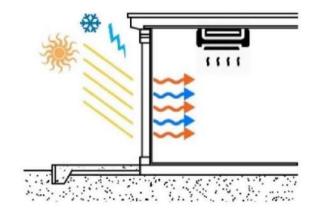




Placement of HVAC Units

Insulated walls create a comfortable environment without the need for an HVAC unit in the classroom. Interior HVAC units increase noise and can be overstimulating for some learners.





Interior Wall Colors

Cool colors provide a calm environment.
Bright or bold colors can be overly alerting for some learners.





Window Placement and Opacity

Windows with traditional placement and full transparency create high levels of visual distraction.





Breakout and Sensory Rooms

Breakout rooms provide opportunities for focused work time in a small setting. Sensory rooms provide a space for learners to take breaks and regulate their sensory systems or de-escalate from an upsetting behavioral episode.





Flexible Furniture Options





Flexible seating provides options for all learners, moveable layouts, and more accessible paths of travel. Modular storage meets the needs for storing supplies and materials while giving staff agency to determine their placement.

Sensory Friendly Classroom



Building sensory elements into classrooms improves occupational performance for all learners, regardless of ability level and learning style.



Why Accessibility Matters

1 in 4 Americans has an identified disability (this doesn't include folks who haven't received a diagnosis or choose not to disclose their disabilit(ies).

These numbers do not necessarily reflect temporary disabilities. **5.6** percent of working Americans experience a short-term disability (six months or less) every year.

Accessibility and Universal Design

Accessibility requires paying attention to our natural physical diversity and implementing good universal design choices. This includes designing for the physical world as well as for technology (websites, computers, mobile devices, television, movies, social media, etc.)

According to the <u>Center for Universal Design</u>, "Universal Design is the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design".

Principles of Universal Design

Low Physical Flexibility Simple and Perceptible Tolerance Equitable **Effort** in Use Information **Intuitive Use** for Error Use Clearly communicates Minimizes hazards & Effectively & easily regardless of sensory used with minimum abilities or ambient accident or misuse. effort. · Example: **Example: Train** . Example: Ramp to · Example: Car auto Automatic doors Station Platform building unlocks when driver exits but the key remains inside

Included Design

7 Principles of Universal Design

Size & Space for Approach and Use

- · Appropriate size & space is provided for approach, reach, manipulate, and use for all body sizes, postures, or mobility.
- · Example: Multilevel service desk, or automatic sinks



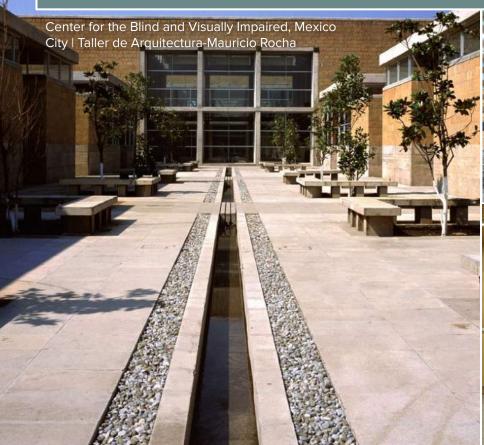


Enhancing Mobility





Wayfinding for All



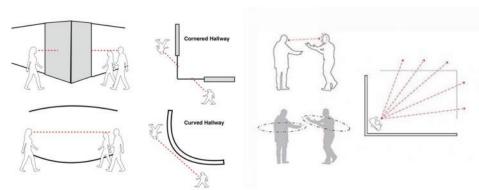




Choice to Participate











It is up to us — the districts, the educators, the architects — to prioritize equity in the built environment for disabled students

It's an investment to the radical diversity and inclusivity of future generations

WE HAVE THE POWER AND THE INFLUENCE TO MAKE A CHANGE

THANK YOU!!!

QUESTIONS? COMMENTS?

For more information, contact us via the following:

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