Accessible for ALL

Hong Kong Symposium 2024

Equal Opportunities Commission

Enhancing the Accessibility of Hong Kong's Built Environment

15 July 2024

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Architect, Accessibility Consultant



Home > Sustainable Development Goals >

Sustainable Development Goals (SDGs)

"World leaders have an unprecedented opportunity this year to shift the world onto a path of inclusive, sustainable and resilient development" - Helen Clark, UNDP Administrator.

At the United Nations Sustainable Development Summit on 25 September 2015, world leaders adopted the 2030 Agenda for Sustainable Development, which includes a set of 17 Sustainable Development Goals (SDGs) to end poverty, fight inequality and injustice, and tackle climate change by 2030.





































What are the Sustainable Development Goals?



SGD Goal 11: Sustainable Cities and Communities

Make cities and human settlements inclusive safe resilient sustainable

Goal 11. Make cities & human settlements inclusive, safe, resilient & sustainable

- 11.1: By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums
- 11.2: By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons
- 11.7: By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities

Disability in the SGD's Indicators

United Nations Convention on Rights of Persons with Disabilities (UN-CRPD)

• The UN Convention is intended as a *human rights* instrument with an *explicit*, *social development dimension* (50 Articles)

 Adopted by General Assembly on 13 December 2006 at the UN Headquarters in New York, and entered into force in 3 May 2008

International Convention UN-CRPD

4 191 Ratifications to the Convention

(China - 30/3/2007) Hong Kong & Macau

164 Signatories of the Convention

(China - 1/8/2008) Hong Kong & Macau

- 104 Ratifications to the Optional Protocol
- 94 Signatories of the Optional Protocol

UN - CRPD Latest Development (May 2024)

UN Convention on Rights of Persons with Disabilities

Adopted by UN GA 2006, Entry into force 2008

The Convention prohibits discrimination against persons with disabilities in all areas of life

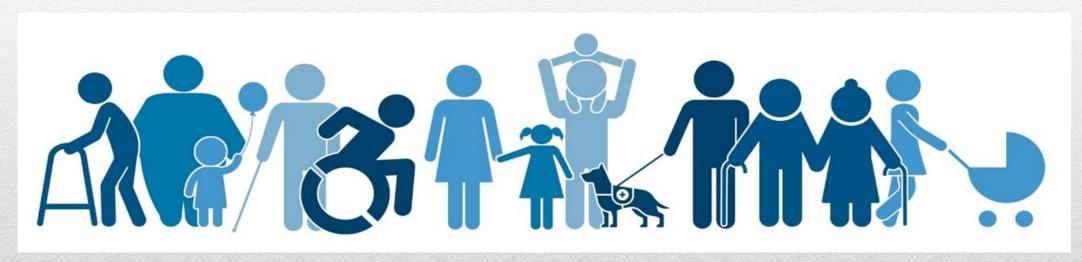
Article 2: Definition - Universal Design (Inclusive Design)

Article 9: Accessibility

International Convention UN-CRPD

Universal Design means the design of products, environments, programmes & services to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design

(Ron Mace 1988)



7 PRINCIPLES OF UNIVERSAL DESIGN:















Equitable

Flexibility

Simple & intuitive

Perception

Tolerance for error

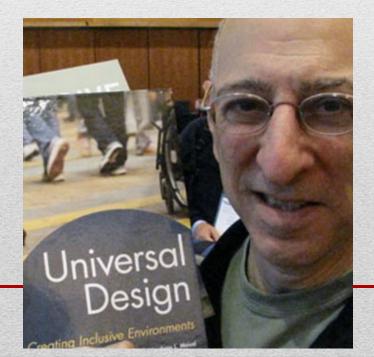
Low physica effort

Size & space

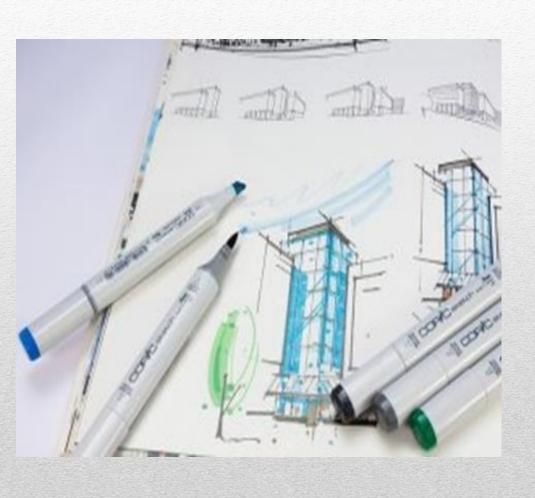
Universal Design is a <u>design process</u> that enables and empowers a diverse population by improving human performance, health and wellness, and social participation

(Steinfeld & Maisel 2012)

8 Goals of Universal Design



Myths - Universal Design cost more in Buildings



- Supporters of universal design have long argued that it costs little....to make buildings inclusive and accessible
- A feasibility study by HCMA Architecture + Design for the Rick Hansen Foundation in Canada compare the Foundation's certification features with Canada's building code
- The key finding is similar to others....
- The <u>average new construction cost increase</u> is estimated to be an <u>additional 1%</u> of the construction in some cases. In others, there is <u>no additional cost</u> through thoughtful planning and design.

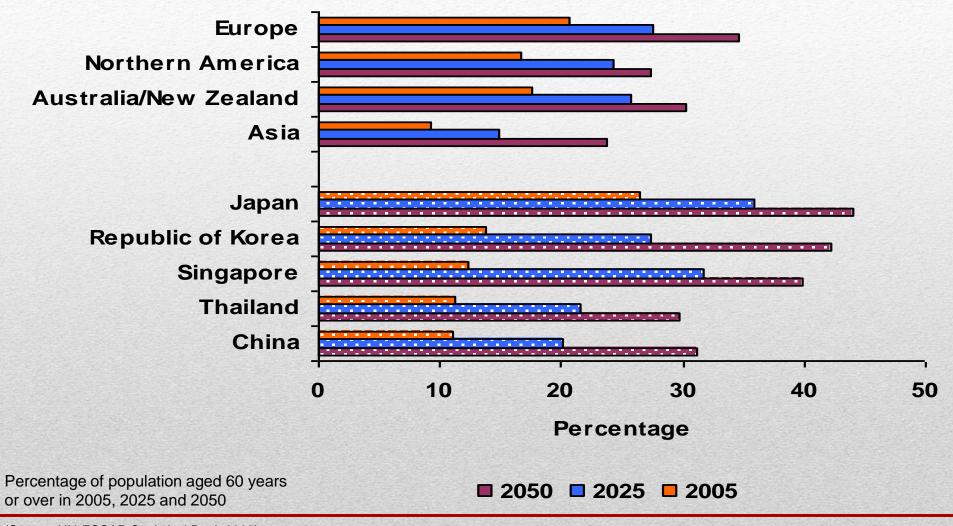
(Source: Canadian Architect 5 Feb 2020)

People with Disabilities - Global

- estimated 15% of the world's population has a disability
- more than one billion people with special needs worldwide
- an estimated 80% live in developing countries

(Source: WHO Report, 2011)

Aging Population - Global



(Source: UN-ESCAP Statistical Book 2008)









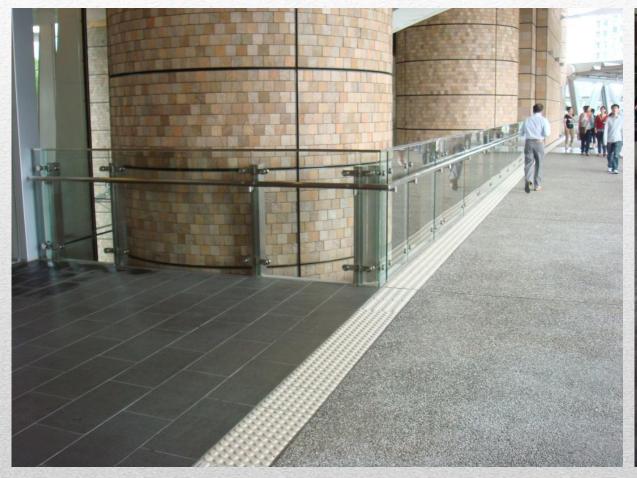


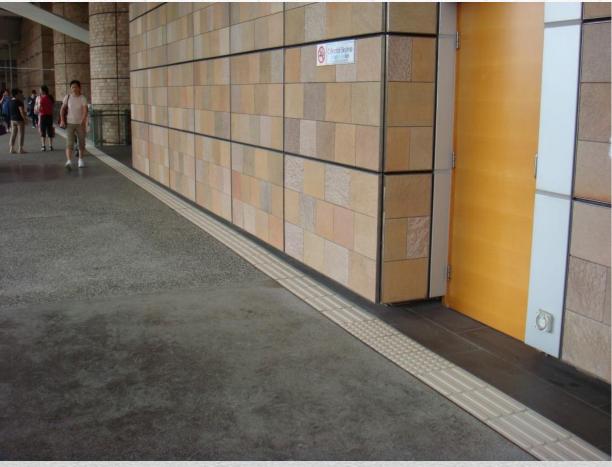




Physical Barriers - Results of Poor Design

Building Providers need to be more Socially Responsible!











"DISABLED" Toilet is not Accessible

Universal Accessible Inclusive & Safe Community





Accessible Public Domain Australia





Well Defined & Marked Pedestrian Crossing & Speed Table





Speed Table provide level pedestrian crossing













Structure

Solar Panel

Makes it quick and easy to install the smart bus stop at any existing bus stops, no need for wiring. At night it switch to battery power, charged in the day.

RFID chip

Used to identify which bus is arriving and leaving.

LED display

It will show the bus number that has been requested by passengers at that stop. Bright Amber LED maximise visibility, particularly at night or in bad weather.

Speakers

Hidden in the display, it will announce which bus is arriving.

Union Stop

Press to flag

Press to flag

Route map

Uses braille and large fonts to help the visually impaired and seniors to identify the bus and route.

Flag button

The LED display will show the bus number when the button is pressed. The button is placed at a wheelchair accessible height.





Accessible Pedestrian Crossings





Inclusive Public Toilet





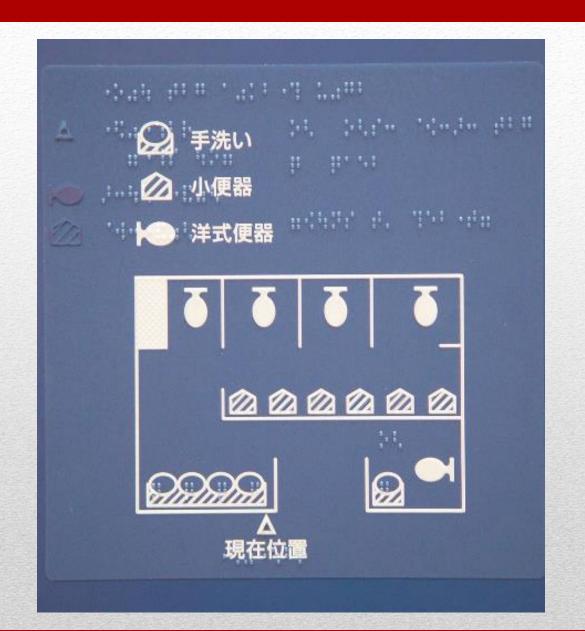
The Big i Center Japan













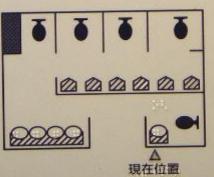






② 手洗い ② 小便器









Accessible Taxi Stand





Accessible Taxis





Universal Accessible Train



Universally Accessible & Seamless Transition







Universal Accessible Cable Car





Inclusive Marine Transportation







Inclusive Children's Playground – Tuen Mun Park Hong Kong

SAFETY

Access

Egress

Evacuate

- Emergency Evacuation
- Fire in Buildings
- Natural Disasters

• DiDRR

(Disability-inclusive Disaster Risk Reduction)













Fire Safety - Assembly Points for ALL



ICT & Assistive Technology



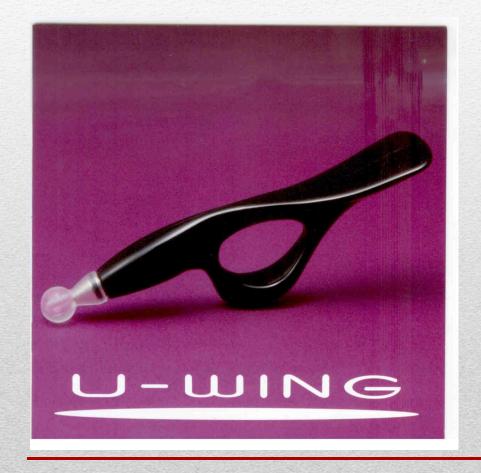


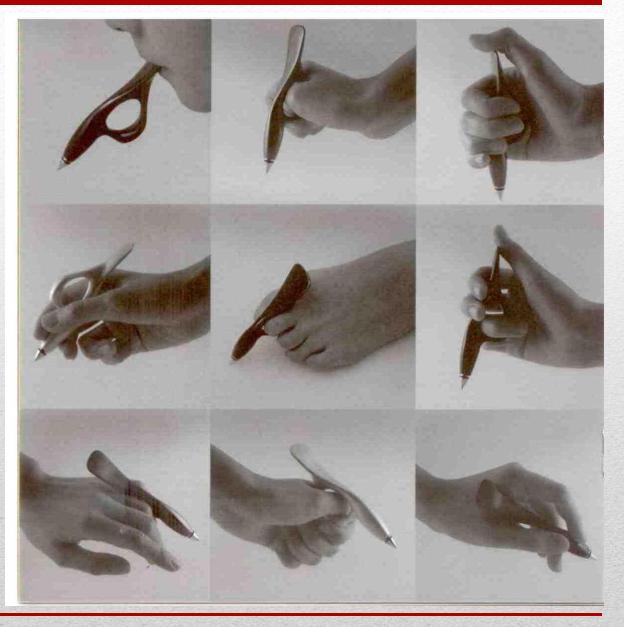






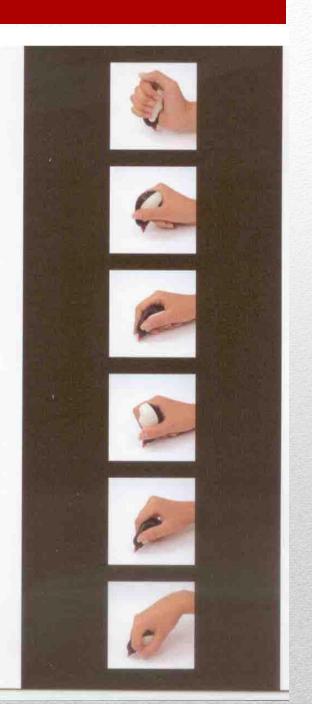
UD Products











Essential Principles



for Built Environment Professionals





Teaching and Learning Briefing Guide

Bringing inclusive design into built environment education

July 2017









Teaching Universal Design

Global Examples of Projects and Models for Teaching in Universal Design at Schools of Design and Architecture.

By B. Kennig and C. Ryhl For AAoutils project

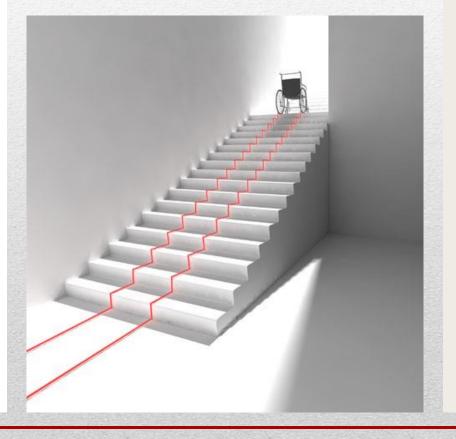
European Commission



Leonardo da Vinci Programme

Design for All from

School to Practice







National Federation of the Disabled - Nepal (NFDN)

in association with

Society of Nepalese Architects (SONA)

presents

Capacity Building Workshop for Architecture Students on UNIVERSAL DESIGN

"A Comfortable Place for all"



ACME COLLEGE, 2:00 P.M.







Supported By: SONA Committee on Social Responsibility (SCSR) SONA Committee on Architecture Education (SCAE)



STATEMENT OF POLICY ON ACCESSIBILITY, INCLUSION AND UNIVERSAL DESIGN





The Royal Institute of the Architects of Ireland

Policy Statement on Accessibility Inclusion & Universal Design



MALAYSIAN STANDARD

MS 1184:2014

Universal design and accessibility in the built environment - Code of practice (Second revision)

ICS: 25.060.10

Descriptors: universal design, deabled person, embulant deabled, access, landscape, sign and symbol facility. Iff. requirement.

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DEPARTMENT OF STANDARDS MALAYSIA

Malaysian Standards

MS 1184: 2014

Universal Design and Accessibility in Built Environment Code of Practice

(Second Revision) 4 Nov 2014

ACCESSIBILITY

IN THE BUILT ENVIRONMENT 2019



Singapore Code
Building and Construction
Authority

Code on Accessibility in the Built Environment 2019 © 150 2006 - All rights reserved

ISO/TC 59/SC 16 N N 63

Date: 2008-12-12

DRAFT PROPOSAL 3" 150/CD 21542

150/TC 59/5C 16/WG 1 N 101

Secretariat: AENOR

Building construction — Accessibility and usability of the built environment

Construction - Accessibilité et facilité d'utilisation de l'environnement bătiment

This document is not an ISO International Standard. It is distributed for review and comment. It is subject to change without notice and may not be referred to as an International Standard.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Document type: International standard Document subtype: if applicable Document stage: Committee Stage Document language: E ISO Standard: 21542

Building Construction Accessibility and
Usability of the Built
Environment
2011/2021

New Section:

 Fire Safety for All to High Rise Buildings

International Standards - Five Year Review



UD Awards & Recognitions



Universal Accessibility needs

Commitment
and
Political Will



Action Plan

Norway universally designed by 2025

Action Plan

Norway universally designed by 2025

The Norwegian government's action plan for universal design and increased accessibility 2009-2013



Law of the People's Republic of China on the Construction of Barrier-free Environment

Supreme People's Court 2023-06-28 23:31 Posted on 北京

Law of the People's Republic of China on the Construction of Barrier-free Environment

(June 2023, 6

The 14th National People's Congress

Adopted at the third meeting of the Standing Committee)

Contents

Chapter I General Provisions

Chapter II: Construction of barrier-free facilities

Chapter III: Barrier-free Information Exchange

Chapter IV: Barrier-free Social Services

Chapter V: Safeguard Measures

Chapter VI: Supervision and Management

Chapter VII: Legal Liability

Chapter VIII Supplementary Provisions

- China Disabled Persons'
 Federation, said at the news conference that in the past three years, the Federation has trained 900 provincial-level disabled persons to give suggestions on barrier-free facilities
- Last year, 227 websites and applications have been improved to become more accessible for the disabled and the elderly

- Laws, Regulations, Standards & Guidelines
- New Constructions & Existing Buildings
- Exterior, Streets & Footpaths, (Seamless Connectivity)
- Building Interior, (Facilities and Features)
- Public Transportation (Air, Sea & Land)
- Fire Safety (Egress & Emergency Evacuation)
- Playground & Public Open Spaces (Indoor & Outdoor)
- Education, Training & Public Awareness
- Awards & Recognitions
- Policy & Implementation

Building *Universally Accessible Inclusive Safe* Community

Leave NO ONE Behind



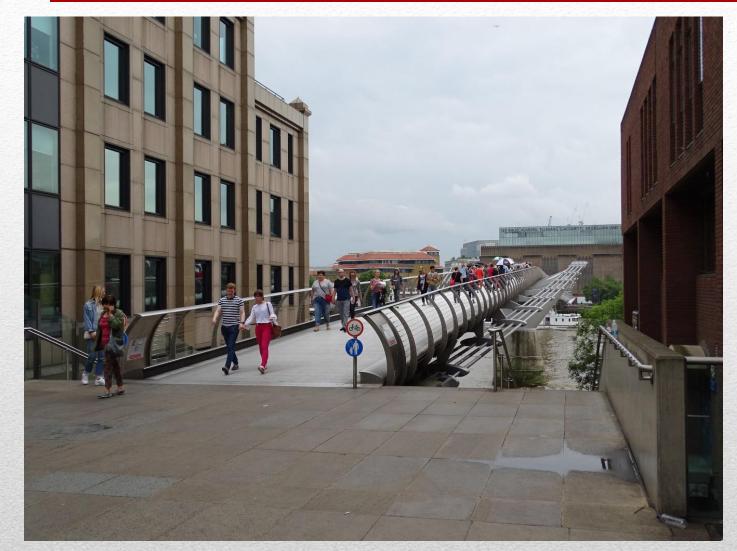


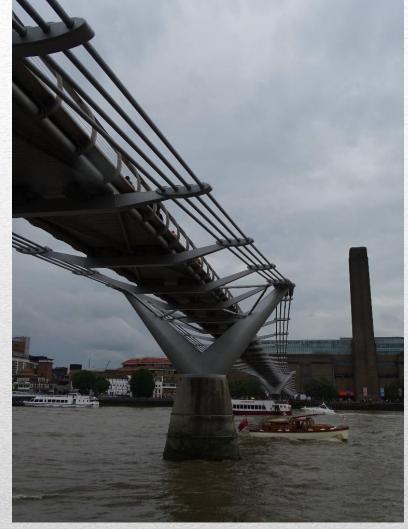




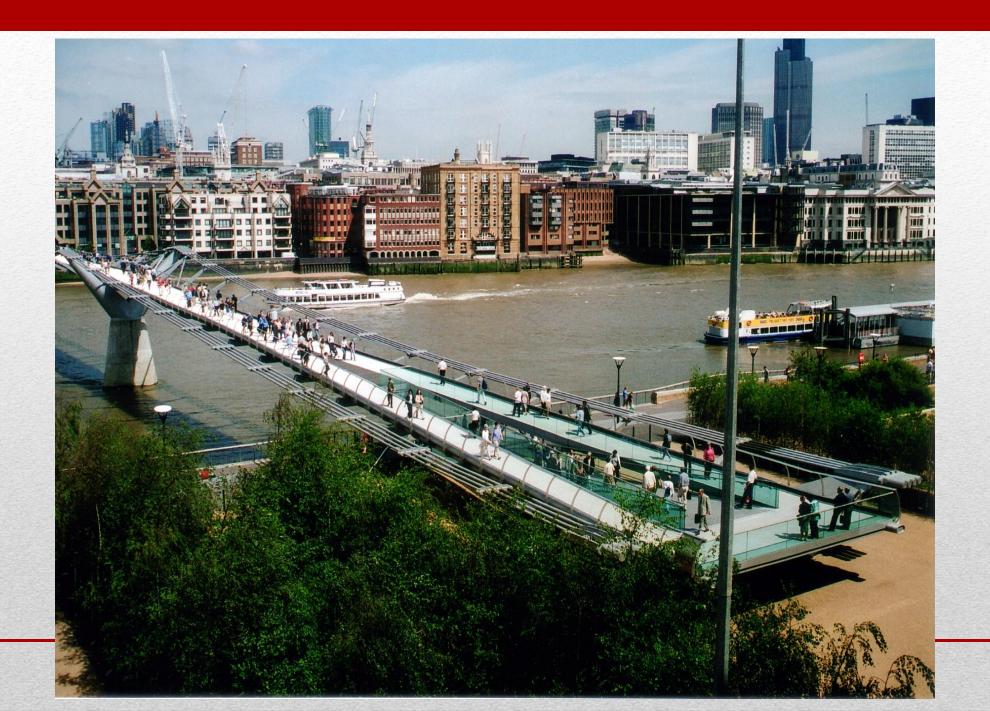








Millennium Bridge London











Universal Design facilitates Diversity Equity Inclusion

Thank You

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