

Chicago ARCHITECTURE Foundation

Universal Design



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Thank you!



Our Focus Today

- **Accessibility...**
- **ADA**
- **Universal Design?**



Reality Check

Population of the World: 6.7 billion

The Global Village – 100 People

(Based on proportion of entire population of the World)

57 Asians

21 Europeans

14 Americans

(North, Central and South)

8 Africans



6 people would possess 59% of the wealth (all from USA)

80 would live in poverty

70 would be illiterate

50 would suffer from hunger and malnutrition

1 would be dying

1 being born

1 would own a computer

1 (yes, only one) would have a university degree

Diversity:

**Age
Gender
Abilities**



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Closer to Home

USA Pop.: 304 m

Special Needs Pop: 54m

1 out of every 5.5 Americans

b boomers: 78m or 25%

disposal income:

boomers: \$12k/yr.

40/60 something: \$2b./yr.

Pop. Of Illinois: 12.5m.

Pop. Of Chicago: 2.9m

ADA-1970

ADA:

Equitable Accessibility for all to our social Programs and Environment.

Illegal to discriminate against the disabled in following areas:

- **Public Services**
- **Public Accommodation**
- **Transportation**
- **Communication**
- **Employment**



Signing of the Americans with Disabilities Act. President George H.W. Bush (center) is flanked by [Evan Kemp](#), Chairman, Equal Employment Opportunity Commission (left) and [Justin Dart](#), Chairman, President's Committee on Employment of People with Disabilities (right). Standing are the Rev. Harold Wilke (left) and Sandra Swift Parrino, Chairperson, National Council on Disability (right).

Our Built Environment?



Traditional Design

Design & Build with the assumption of abilities & needs of an able bodied individual

Universal Design

Design and Build without a specific user in mind (Design for All).



Built Environment is more than Architecture

Through the power of observation, sensitivity and perseverance, we, as a society, are capable to design and build the environment that meets our needs and still maintain sustainable global development provided we follow.

- **Design For All**
- **Intelligent Buildings**
- **Sustainable Materials**

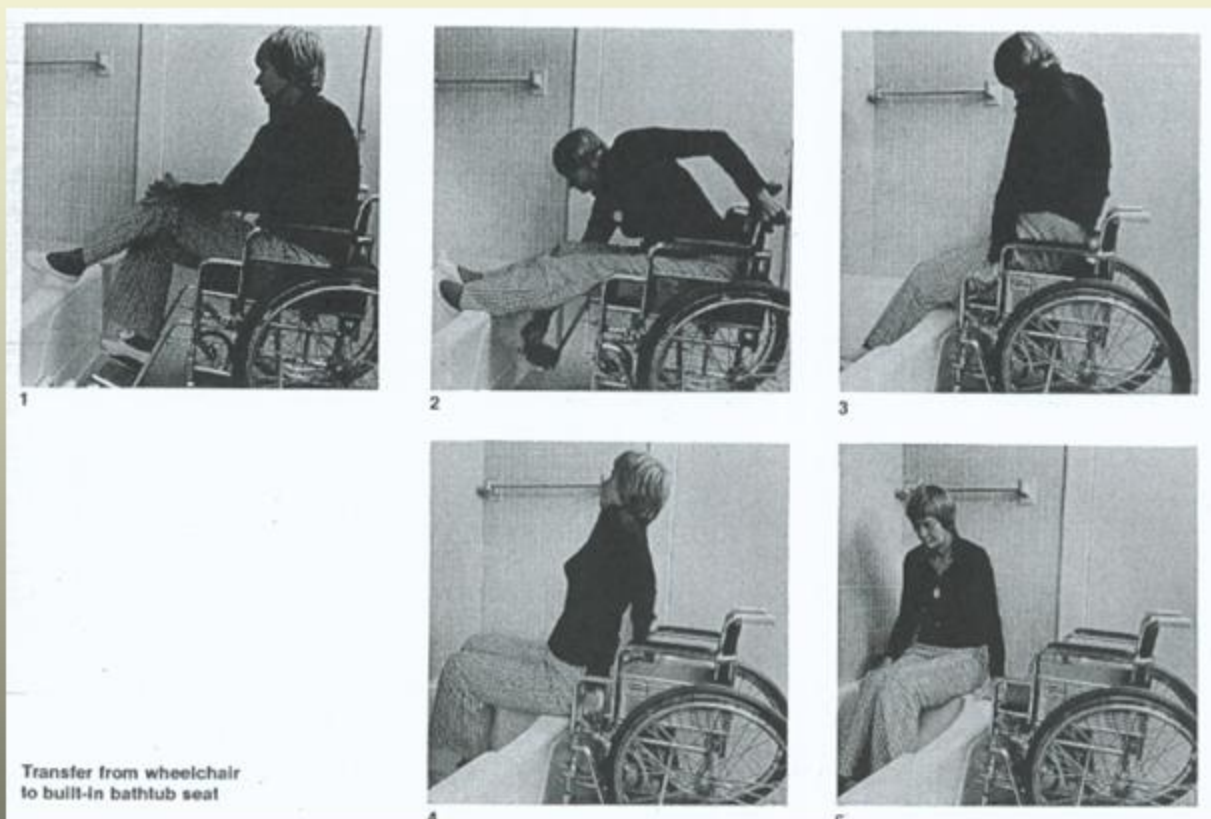
Disabling Environment: Immobility in Mobility



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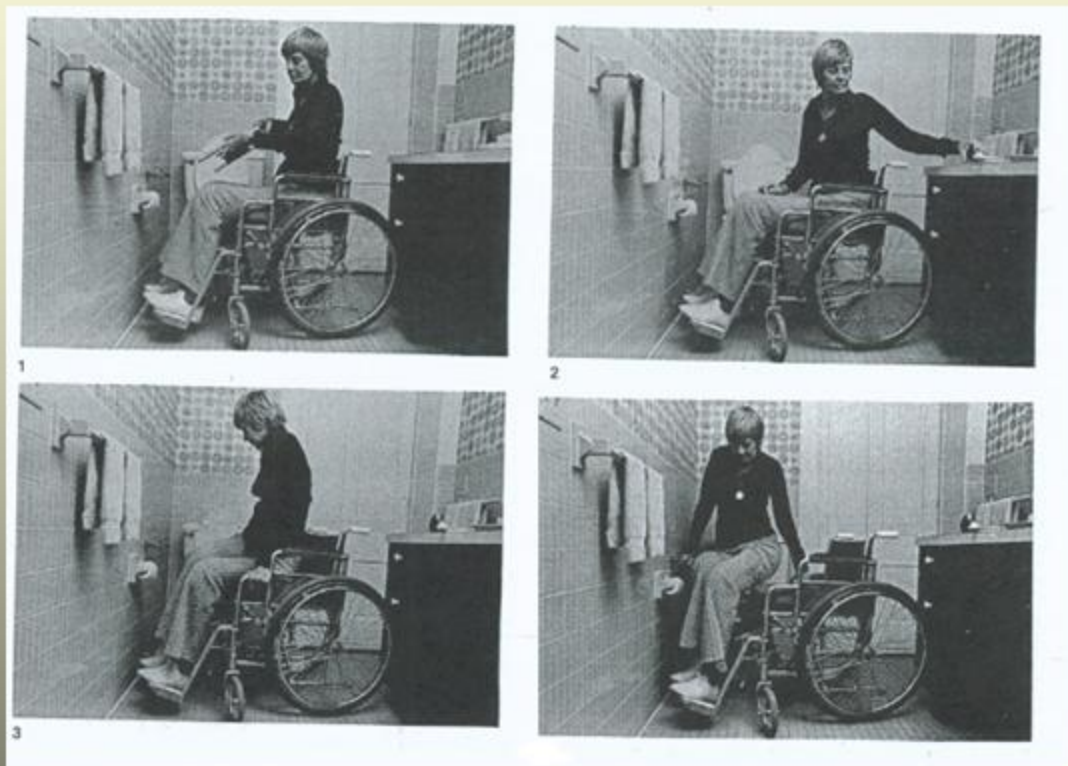
Disabling Environment: Barriers



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Disabling Environment: Environmental Barriers



What is Universal Design?

1. **Equitable use**
useful and marketable to people with diverse abilities.
2. **Flexibility in use**
accommodate wide range of individual preferences and abilities.
3. **Simple and interactive use**
easy to understand regardless of the users experience, knowledge, language skills or current concentration level
4. **Perceptible information**
communicate necessary information effectively regardless of the user/s abilities.
5. **Tolerance for error**
minimize hazards & adverse consequences of accidental or unintended actions.
6. **Low physical effort**
efficient and comfortable in use with a minimum of fatigue.
7. **Size and space for approach and use**
appropriate size and adequate space should be provided for approach, reach, manipulation and use regardless of users.

Access

Keys, Card Entry, Keyless Entry



Communications Access...



Enabling Environment:

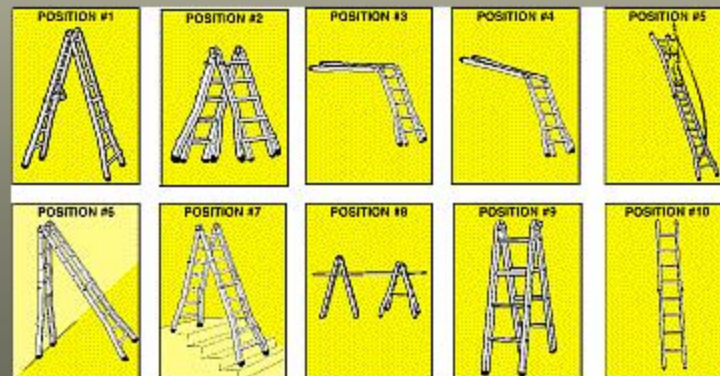
the rotary toilet stool 回転便器



Enabling Environment



Multipurpose Tools



Multipurpose Ladder

Enabling Environment

the rotary toilet stool 旋轉便器



Universal Design: Evolution of Products shoe laces, zippers, buttons or velcro



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Thank You for your Time.

Questions?

This concludes the AIA

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Contact Us!

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