

Universal Design Workshop

Edmonton

Presentation to Safety Codes Council Summit 2023 19 October 2023 - Breakout Session #3 - 1:00pm Robert Lipka - Barrier Free Sub-Council & Principal Urban Designer, City of Edmonton

Acknowledgement

I wanted to thank all of the staff at SCC for organizing this Summit and of course to all of you for joining us. I hope that you will find the workshop interesting and of course useful!



Disclaimer

Please note that the views, thoughts, and opinions expressed in the following presentation belong solely to the authour, and do not necessarily reflect the views of the authours' employer(s), organization, committee or other group or individual.



A bit about me first...

Current

- Principal Urban Designer <u>City of Edmonton</u> provide reviews in urban design, universal design & CPTED - 7+ years;
- Member <u>Technical Committee on Outdoor Space Fed Gov't;</u>
- Member Barrier Free Sub-Council Safety Codes Council; and
- Instructor Online & Continuing Education at the *University of Alberta*.

Previous work -

- Urban Designer at <u>Auckland Transport</u> (AT)/<u>Auckland Council</u> -10 years;
- Community Planner <u>*City of Toronto*</u> for 7 years; and
- Planner <u>MBTW Group</u> in Don Mills, Ontario 3 years
- Plus much more...!

Things to discuss today...

- Quick discussion on the principles of Universal Design
- Introduce the Mechanized River Valley Project aka the 'funicular'
- Work in smaller groups using selected project to apply learnings
- Report back to larger group about findings

What is Universal Design (UD)?

The design of all products and environments to be usable by all people to the greatest extent possible without the need for adaptation or specialized design.

> Basically, it's about creating places/things for as many people as possible!

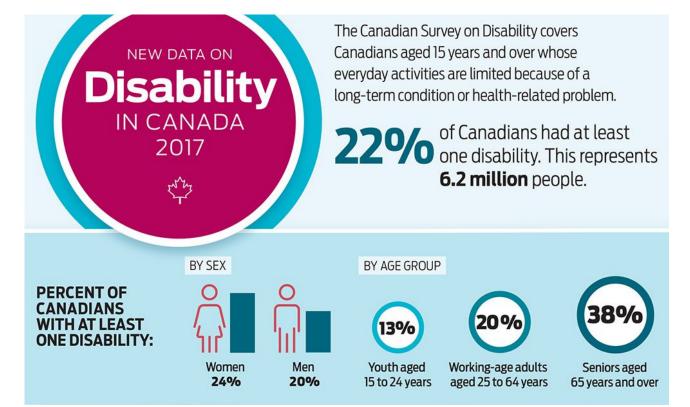
Why is UD important?

Create built environments that work for all:

- Seniors;
- People with disabilities;
- Parents pushing strollers;
- People carrying bags;
- Design once, not differently for each group;
- Improved productivity, sustainability, efficiency and injury prevention.



Why important? Many are affected...

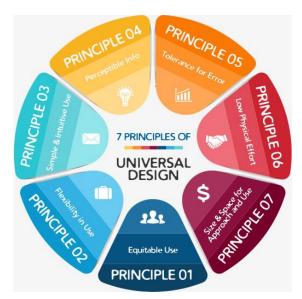


Edmonton

Source: Statistics Canada 2017

Seven Principles of Universal Design

- 1. Equitable Use
- 2. Flexibility in Use
- 3. Simple and Intuitive Use
- 4. Perceptible Information
- 5. Tolerance for Error
- 6. Low Physical Effort
- 7. Size and Space for Approach and Use



Key opportunity^{*}... in some instances while striving to make things easier for some users they limit the opportunity to challenge others.

#1 Equitable Use

The design is useful and marketable to people with diverse abilities.





#2 Flexibility in Use

The design accommodates wide range of individual preferences and abilities.





Key opportunity*

#3 Simple and Intuitive Use

Use of the design is easy to understand, regardless of the user's experience, knowledge, language skills or education level.





#4 Perceptible Information

The design communicates necessary information effectively to the user, regardless of ambient conditions or the user's sensory abilities.





#5 Tolerance for Error

The design minimizes hazards and the adverse consequences or unintended actions.

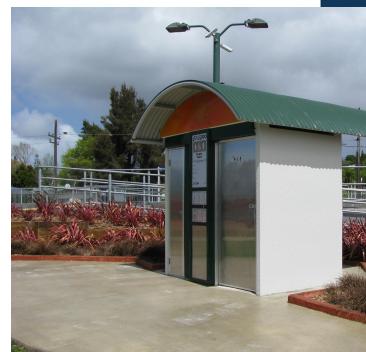




#6 Low Physical Effort

The design can be used efficiently and comfortably and with a minimum of fatigue.







#7 Size & Space for Approach & Use

Appropriate size and space is provided for approach, reach, manipulation and use regardless of user's body size, posture or mobility.





Mechanized River Valley Project 'funicular' - a new link to the river valley for all?

Lots of ballyhoo as Edmonton funicular goes into service

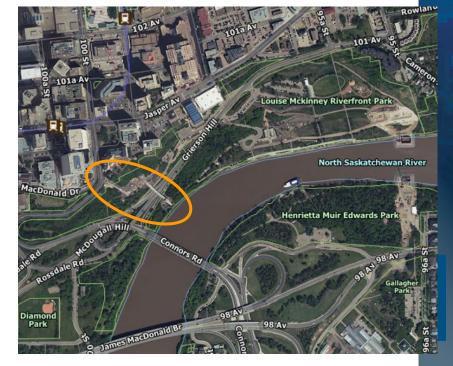
CLARE CLANCY

Updated: December 10, 2017

Earnest riders jumped aboard Edmonton's new funicular this past weekend to enjoy a scenic view of the river valley while coasting uphill and downhill 48 seconds at a time.

The <u>\$24-million project</u> — formally named the Mechanized River Valley Access opened Saturday with a ribbon-cutting ceremony and a performance by local operatic comedians the PreTenors at the top scenic promontory south of the Fairmont Hotel Macdonald.





Mechanized River Valley Project 'funicular' - a new link to the river valley for all?



Here's what the top looks like...



Design description - "Rocks in a waterfall"



Some artwork and a ramp/bridge down...



Great views and some hard work...



Made it down to the bottom!



The Task...

- 1. Review the photos that are on your table and identify some Universal Design issues;
- Use own experience and knowledge to suggest some potential design solutions to mitigate or potentially eliminate the identified issue(s); and
- Each table shall present back to the larger group about at least 2 different issues and their suggested solution(s).

Image 1 00 Street Funicular Duise McKinney Riverfront Park





Louise McKinney Riverfront Park Park Hours 5 am — 11 pm

Adjacent to downtown Editoriation and immediatily sound of the Shaok Conference Centre, this park is the frant door to the inner valley parks system and galances we compare the system of and with a 500 meter beneficializing understanded we compare the system of and with a 500 meter beneficializing understanded McConcy, who are one of the "Francia. They," must charge park is camed after Lossie McConcy, who are one of the "Francia. They," must charge part of a sound the system of the system of the Bitshih Kirth America Art.









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Image 18

Image 19

Thank you, I hope you enjoyed



the workshop!

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