GREAT talks

Access To Transportation

Aisha Al Sinani

26ʰ August 2020

الشمول الرقمي
Digital Inclusion

#greattalks2020
great.mada.org.qa

mada
digital access for all
نفاذ رقمي للجميع

Introduction

Individuals with functional limitations are considered an important segment of society, and they have equal access to all information and data related to transportation. Article 9 of the Convention on the Rights of Persons with Disabilities provides for ensuring accessibility to enable persons with disabilities to live independently and participate fully in all Aspects of life, and States Parties shall take appropriate measures to ensure that persons with disabilities have access, on an equal basis with others, to the surrounding physical environment, means of transport, information and communication, including information and communication technologies and systems, and other facilities and services available to the public or provided to it, Both in urban and rural areas.

The digital access to transportation ensures the facilitation of the process of accessing all the information and data on the facilities and means of transport, especially public transport, which is a major measure for assessing access to transportation in every country. The developed countries are currently competing to implement best practices for smart transportation systems, which depend primarily on the use of modern technological innovations to keep pace with the changes and requirements of all members of society and to ensure the inclusiveness of transport and transportation systems.

الشمول الرقمي
Digital Inclusion

Objectives

THIS SESSION AIMS TO:

1. The Concept Of Digital / Inclusive Access To Transportation

2. The Importance Of Implementing Inclusive Transportation Systems

3. How To Achieve Inclusive Digital Accessibility To Transportation based on Modern Technological Innovations That Enhance Inclusive Digital Accessibility.

4. Best Practices In Digital Accessibility.

Digital Accessibility

Refers to how well any type of electronic or online media can be used by people with visual, hearing, motor or learning disabilities, as well as by the elderly.

Universal Design

Is design criteria aimed at ensuring that everyone can participate in the information society.

http://madaportal.org/glossary/digital-accessibility/

https://www.motc.gov.qa/sites/default/files/qatar_eaccessibility_policy_en_v4.pdf

Statistics

CBM/A. Einberger

Fact 1: Over a billion people live with some form of disability

This corresponds to about 15% of the world's population. Between 110-190 million adults have very significant difficulties in functioning. Rates of disability are increasing, due to population ageing and the global increase in chronic health conditions.

https://www.who.int/features/factfiles/disability/en/

Statistics

WHO/C. de Bode

Fact 2: Disability disproportionately affects vulnerable populations
Lower-income countries have a higher prevalence of disability than higher-income countries. Disability is more common among women, older people and children and adults who are poor.

https://www.who.int/features/factfiles/disability/en/

Children → 100 مليـــون طفـــل مصابون بالإعاقة

15% ← **In The World**
من سكان العالم يعانــــون من أحد أشكال الإعاقة

Developing countries → 80% من ذوي الإعاقة في الدول النامية

مايقرب من 40 مليـــون مصــاب بالإعاقة فـــي الوطـــن العربي ← **In The Arabic World**

https://www.noonpost.com/index.php/content/25738

GREAT talks

الشمول الرقمي
Digital Inclusion

#greattalks2020
great.mada.org.qa

Obligations

Article 9
Accessibility
1.

   To enable persons with disabilities to live independently and participate fully in all aspects of life,
   States Parties shall take appropriate measures to ensure to persons with disabilities access,
   on an equal basis with others, to the physical environment, to transportation, to information and
   communications, including information and communications technologies and systems, and to
   other facilities and services open or provided to the public, both in urban and in rural areas. These
   measures, which shall include the identification and elimination of obstacles and barriers to
   accessibility, shall apply to, inter alia:

   (a) Buildings, roads, transportation and other indoor and outdoor facilities, including schools, housing,
      medical facilities and workplaces;

   (b) Information, communications and other services, including electronic services and emergency
   services. https://www.almeezan.qa/AgreementsPage.aspx?id=1352&language=ar

Obligations

2.

   States Parties shall also take appropriate measures:

   (a) To develop, promulgate and monitor the implementation of minimum standards and guidelines for the accessibility of facilities and services open or provided to the public;

   (b) To ensure that private entities that offer facilities and services which are open or provided to the public take into account all aspects of accessibility for persons with disabilities;

   (c) To provide training for stakeholders on accessibility issues facing persons with disabilities;

   (d) To provide in buildings and other facilities open to the public signage in Braille and in easy to read and understand forms;

   (e) To provide forms of live assistance and intermediaries, including guides, readers and professional sign language interpreters, to facilitate accessibility to buildings and other facilities open to the public;

   (f) To promote other appropriate forms of assistance and support to persons with disabilities to ensure their access to information;

   (g) To promote access for persons with disabilities to new information and communications technologies and systems, including the Internet;

   (h) To promote the design, development, production and distribution of accessible information and communications technologies and systems at an early stage, so that these technologies and systems become accessible at minimum cost.

   https://www.almeezan.qa/AgreementsPage.aspx?id=1352&language=ar

Inclusive Digital Accessibility to Transportation based on Modern Technological Innovations that Enhance Inclusive Digital Accessibility

Accurate and comprehensive statistics

Developing / implementing / monitoring / evaluating national policies

Adopting international agreements and legislation

Inclusive Digital Accessibility to Transportation based on Modern Technological Innovations that Enhance Inclusive Digital Accessibility

Keep up and update

Awareness

Preparing the infrastructure and providing the physical / human requirements

Inclusive Digital Accessibility to Transportation based on Modern Technological Innovations that Enhance Inclusive Digital Accessibility

Passengers with disabilities need to receive information to:

Recognize the time and use of the accommodations (elevators and escalators)

Knowing of available and accessible services / technologies

To be aware of the next step in their journey

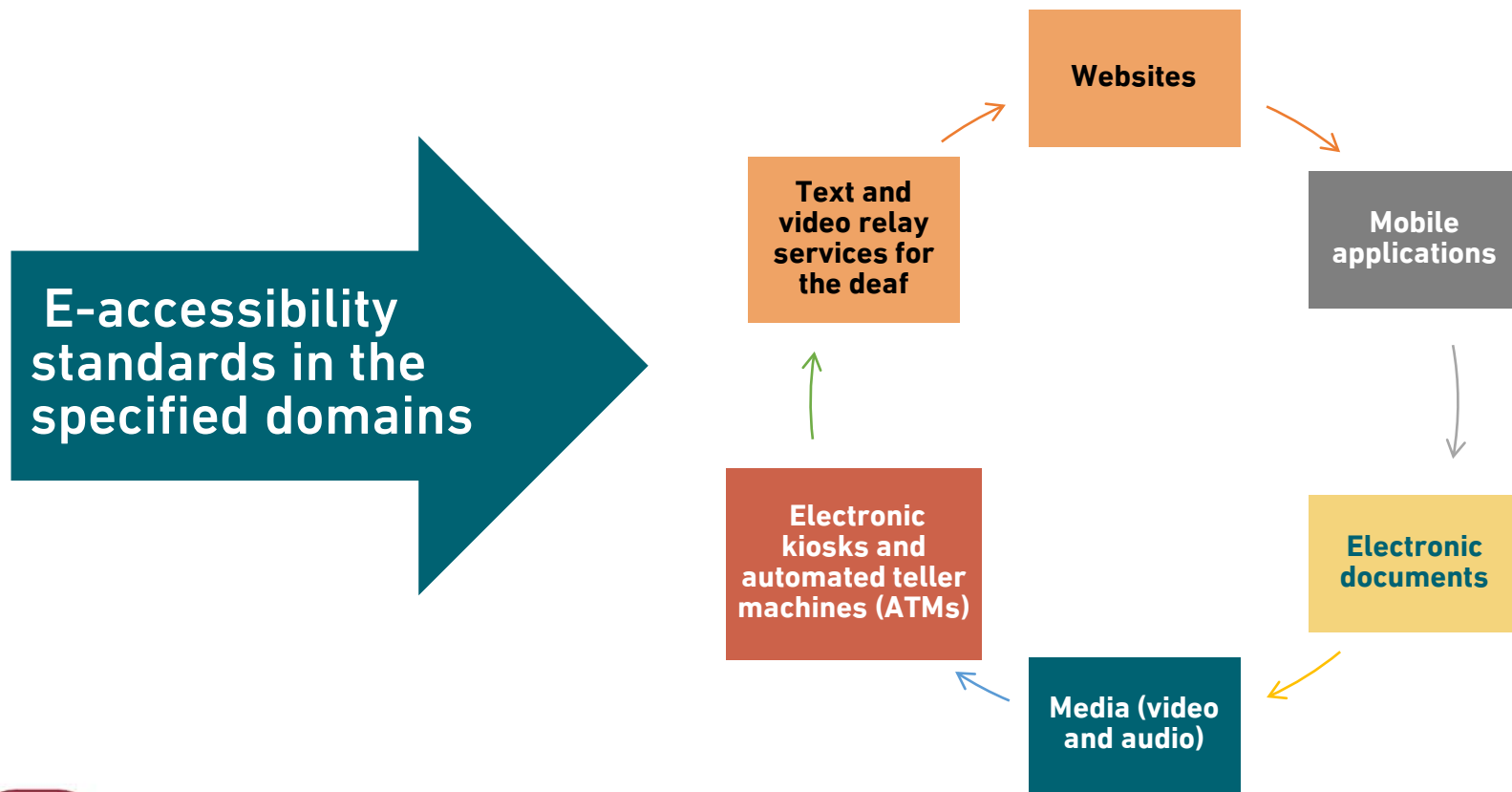**Knowing the needs of people with disabilities**

Independence / Credibility

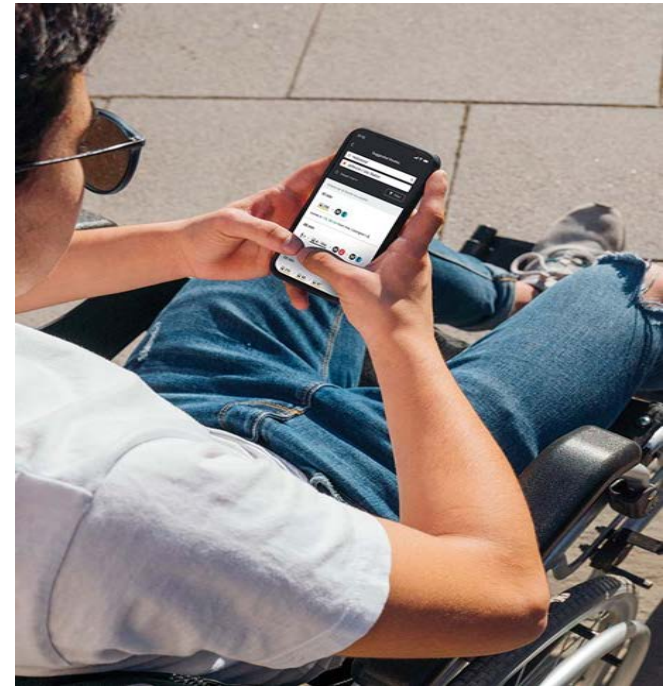Learn what to do in the service outage / emergency

Preparing the itinerary

Inclusive Digital Accessibility to Transportation based on Modern Technological Innovations that Enhance Inclusive Digital Accessibility

E-accessibility standards in the specified domains

Websites

Mobile applications

Electronic documents

Media (video and audio)

Electronic kiosks and automated teller machines (ATMs)

Text and video relay services for the deaf

https://mada.org.qa/wp-content/uploads/2019/10/mada-e-accessibility-english.pdf

GREAT talks

الشمول الرقمي
Digital Inclusion

#greattalks2020
great.mada.org.qa

Technology and Accessible Transportation

Global Initiative for Accessible Transport Technology

Accessible Transportation Technologies Research Initiative (ATTRI)

ATTRI Technology Development

Wayfinding & Navigation

Pre-Trip Concierge & Virtualization

Safe Intersection Crossing

Robotics & Automation

References

https://techwiser.com/indoor-wayfinding-and-navigation/

https://www.aviationpros.com/airports/article/12393159/creating-a-difference-that-creates-a-change-promoting-independent-travel-in-airports

https://www.its.dot.gov/research_archives/attri/index.htm

https://news.microsoft.com/transform/moovit-helps-people-disabilities-ride-transit-confidence/

https://coolblindtech.com/be-my-eyes-joining-moovit-to-make-public-transit-more-accessible-for-blind-and-low-vision-travelers/

http://discovermyroute.com/dmr/

https://mada.org.qa/publication-category/%d8%a7%d9%84%d8%af%d9%84%d9%8a%d9%84-%d9%88%d8%a3%d9%81%d8%b6%d9%84-%d8%a7%d9%84%d9%85%d9%85%d8%a7%d8%b1%d8%b3%d8%a7%d8%aa-ar/?lang=ar