Innovation Program Report











Executive Summary

The Mada Innovation Program has been designed to encourage innovators to create Arabic solutions for Persons with Disability, thus increasing its availability within the region through a combination of grant programs. The goal of the program is to encourage the establishment of a private sector AT market in Qatar catered to the Arab world and increase awareness of the AT field among innovators. Through a combination of entrepreneurship grant programs Mada aims to provide a mechanism to bring relevant innovative AT and Accessibility products/services to the market. This will enhance the lives of PWD's in Qatar and the Arab world.

Throughout its tenure, the Mada Innovation Program had actively supported the development of new Arabic AT solution, encouraging innovators to participate towards creating accessibility and AT solutions and, raising awareness about AT innovations and solutions. The program has supported 12 new Arabic Innovations to be introduced to the market, 7 of which cater towards the Education sector and 5 in the Community sector.

Additionally, the Mada Innovation Program also helped to raise awareness about Accessibility and Arabic AT through periodic publications and participations in various national and international events. The role and outcomes of the program was highlighted in 7 events. The participation played a critical role in attracting potential entrepreneurs and users to learn about and engage with the program.

Furthermore, the program served to contribute towards offering the latest information about AT and Accessibility Innovations to readers worldwide through periodic publications in Nafath and other relevant conferences. A total of 7 Nafath issues have been published to date and participation in 3 notable conferences have highlighted Mada and its work. These efforts not only raised awareness but also increased the profile of Mada as a pioneer of Arabic AT & Accessibility Innovation in Qatar and the Arab region by being a leading contributor towards the AT ecosystem nationwide.

Introduction

Historically, the private sector and innovators have made a vital contribution towards the growth and maturity of several industries around the world. Nowadays, Assistive Technologies (AT) and Accessibility are becoming more seamlessly incorporated into our lives every day. Being a new field of work, the AT and Accessibility industry become a new area with huge potential for entrepreneurs, innovators, startups and the private sector to invest in.

Mada conducted the ICT Assistive Technology Private Sector Innovation Study to understand and evaluate the private sector and their approach to innovation both within Qatar and abroad. The study aimed to identify which strategies work within the local context and identify potential initiatives for the private sector to invest in Arabic AT and widen the innovation presence within Qatar and the region. The study shed light on the private sector disability industry, and how such innovation could be applied in the local context. In 2017, Mada Assistive Technology Center launched the Mada Innovation Program with the objective to grow Arabic AT and increase the range of Arabic solutions for people with disabilities in Qatar and the Arab region.



The ICT Assistive Technology Private Sector Innovation Study in Nafath

Mada Innovation Program

Mada Innovation Program encourages the
establishment of a private sector Arabic Assistive
Technology (AT) market in Qatar catered to the
Arab world. The program aims to support aspiring
and existing AT companies or entrepreneurs to
be able to establish a sustainable market place in
Qatar. This will eventually lead to the growth of a
thriving Arabic AT market sector within Qatar and
the Arab region.Through a combination of entrepreneurship grant
programs, Mada aims to provide a mechanism
to bring relevant Arabic innovative assistive
technologies and accessibility products and services
to the local market. The wider availability of Arabic
accessibility solutions will enhance the Assistive
Technology market in Qatar and the Arab region.

There are three types of award categories that fulfil the objectives of the Mada Innovation program. These categories involve offering grants for individuals and entities with Arabic innovative products or services. Grants are offered in the form of funding and/or provision of subject matter expertise (e.g. mentorship, user/professional experience feedback, etc.). Following are the details for each category:

- Entrepreneur Grant This award type category is designed for creating opportunities for new innovative entrepreneurs and entities in Qatar and Arab region who already have a "Proven Concept" for their AT product or service to establish themselves in the market. Applicants selected for this award type will be provided with a grant through MADA Innovation Program to develop the proposed product/service concept to cater towards the local and Arab market. In addition to the subject mentorship and exposure along the process.
- Localization Grant This award type category is targeted towards international established entities who already have an existing prototype for a potential idea relevant to Assistive Technology products/services who are looking into Arabic localization of their product. MADA will provide the subject matter expertise as part of the MADA Innovation Program directly to potential established entities with relevant product/service concept to cater towards the local and Arab market.
- **Competition Award** This award type category is designed for creating opportunities for individuals and entities to gather seed funding for their Arabic AT related product or service "Proof of Concept". Applicants selected for this award type will be directed towards participating in dedicated AT and Accessibility segment developed within various existing competitions.





Mada Arabic Innovation Program highlighted in Nafath

Mada Innovation Dashboard Pre-2017



Mada Innovation Program Dashboard 2017-2018



12 Innovations



543 Hour of Consultation



13 Startups, Entrepreneurs and innovators impacted

Distribution of suported products based on Targeted Disability Areas





QAR 1,896,213 **Invested on Innovation**







7 Solutions launched in the market

Products

Supported

Mada Innovation Program provided proper evaluation 12 Innovated and localized solutions for people with common support and direction to innovators and entrepreneurs to create market-necessary solutions for meeting the Arabic Assistive Technology and Accessibility needs in Qatar and the Arab region. This empowers them to develop a cutting-edge product and successful business model that is sustainable in the market.

Since its inception, Mada Innovation Program has helped unlock the potential of many promising innovators, and assistive technology users. A number of solutions have been supported by the program in various forms and are currently available in the market to better support the needs of people with disabilities in Qatar and the Arab Region.

disabilities was support by Mada Center through the Mada Innovation Program covered several disability areas.

Covered disability areas are physical disability, communication difficulties (autism spectrum disorder), learning difficulties, hearing impairments and visual impairments.



Entrepreneur Grant

The Entrepreneur grant is designed for creating opportunities for new innovative entrepreneurs and entities in Qatar and Arab region who already have

In 2013, Mada embarked on a project to develop a "Proven Concept" for their AT product or service an Augmented and Alternative Communication to establish themselves in the market. (AAC) symbol dictionary called "Tawasol Symbols", which focuses on the Qatari Arabic language and Applicants selected for this award type will be the modern standard Arabic MSA. The project was provided with a grant through MADA Innovation launched in collaboration with the University of Program to develop the proposed product/service Southampton and Hamad Medical Corporations and concept to cater towards the local and Arab market. funded by Qatar National Research Fund (QNRF), In addition to the subject mentorship and exposure where, the initial challenge was to select a suitable along the process. set of word and symbol lists that were culturally and contextually appropriate towards the local society.

Solution	Disability Types
Tawasol Symbols	Communication Impairments and Learning Disabilities
Tawasol AAC App	Communication Impairments and Learning Disabilities
Arabic Money Reader App	Visual Impairments
SeeDo Robot	Deaf and Hearing Impairments
Bu Hamad Arabic Sign Language Avatar	Deaf and Hearing Impairments
PenCam	Visual Impairments
Clicker V Arabic	Communication Impairments and Learning Disabilities
TextHelp Arabic Read&Write	Communication Impairments and Learning Disabilities
SmartFace App	Physical and Mobility Disabilities
Handy Access App	Physical and Mobility Disabilities
Social Robot (by Mursi Seraj)	Communication Impairments and Learning Disabilities
BONOCLE - Mada-Seedstars Arabic AT Award	Visual Impairment - Blindness

33% Autism Spectrum Disorder

Tawasol Symbols



In 2017, Mada developed a dedicated Tawasol Symbols website aiming to provide users with openaccess to the Tawasol Symbols dictionary.

- 350 new symbols added to the dictionary in 2017 and 2018.
- The total number of symbols is 1150 by the end of 2018.
- The total numbers of subscribers on Tawasol Symbols website is 442.



Tawasol Symbols website (www.tawasolsymbols.org)



Example of Tawasol Symbols

"Tawasol Symbols" API for developers

Tawasol Symbols API provides a simple, lightweight and portable API in JSON format of frequently used words in spoken and written communication represented by images and pictograms. The API allows the access to list of symbols through direct links secured by a token. Data from the Tawasol API are suitable for use in every framework, language and application.

modo	English
Welcome Symbols - Resources - API -	About Contact Launch accessibility tools
API Documentation	Home > API Documentation
	•
Search Q	1. Introduction #
1. Introduction	Tawasol provides a simple, lightweight and portable API in JSON format of frequently used words in
2. Authentication	spoken and written communication represented by images and pictograms.
3. Errors	Data from the Tawasol API are suitable for use in every framework, language and application.
4. API Endpoints	Connecting To The API
4.1. /symbols	We serve our data in JSON format via a simple URL-based interface over HTTPS, which enables you to use the symbols in whichever way you require.
4.2. /symbol_categories	Any language or software that can make HTTP requests or fetch web addresses can access our API. You can use whichever library you require depending on your development environment.
4.3. /lexical_core_categories	URLs (routes) requested over HTTPS deliver all the data in one go, just like a normal web request.
4.4. /lexical_non_core_categories	URL Format

Tawasol API overview

"Tawasol Symbols" Educational Resources

"Tawasol Symbols" website outlines several education resources for teachers and specialist using Tawasol Dictionary. The resources help to create new materials and tools to help children and students with communication difficulties and learning disabilities. Most resources are provided as Word documents so that you can make changes and personalize resources as needed.



Examples of Educational Resources using Tawasol Symbols

"Tawasol Symbols" Training Sessions

To raise awareness about Tawasol Symbols and to encourage teachers and specialist to use the dictionary, Mada conducted six training sessions for teachers and specialist in communication impairments and learning disabilities. By the end of the training sessions, participants was able to create educational resources using Tawasol Symbols and use them in daily life activities for children with communication impairments and learning disabilities.



In 2018, Mada Assistive Technology Center launched the "Tawasol Symbols Competition for the Best Education Resources" that aims to encourage teachers and specialist to create new educational materials using Tawasol Symbols. Resources will be useful for people with communication impairments and learning difficulties.



Call for submissions to Tawasol Competition on Mada's Social Media accounts



Exposure of "Tawasol Symbols" in Nafath Newsletter

Mada supported the development of the solution by providing funding of (QAR 355,163), providing resources (Tawasol Symbol set), and expertmatter feedback (53 hours)

Tawasol AAC App



The Tawasol AAC App is an Augmented Alternative Communication (AAC) mobile solution utilizing the Tawasol Symbols. Mada has empowered the Tawasol AAC App through the Entrepreneur grant within the Mada Innovation Program.

The solution serves the people who are non-verbal or minimally verbal, particularly children with autism spectrum disorder (ASD) and student with learning disabilities who are not able to communicate using natural speech. The App provides the ability to construct sentences in Arabic using Tawasol Symbols.

The Tawasol AAC App makes a great Arabic assistive technology tool that is in high demand for the Arabic speaking community. Moreover, thanks to the easyuse and intuitive interfaces, teachers and parents can communicate and teach easily with people with communication impairments and learning disabilities in schools and/or at home.



"Tawasol AAC App" on the Mada Website





As part of the Mada innovation program, Mada supported the development of the Tawasol AAC App in every step including the development, testing and dissemination phases of the product as follow:

- An introductory session was provided to the developer about the Tawasol Symbols.
- 3 focus groups were organized for people with communication impairments and learning disabilities, parents, professionals to discuss their needs and how the solution could be used to support their needs.
- 5 revision sessions were conducted to monitor and check the app progress during the development stages.
- 2 testing sessions were conducted by Mada to insure the quality a successful completion of all milestones of the app before release.

Mada showcases the Tawasol AAC App during the Great Conference 2018 as part of the innovation zone. From which, the developers received a lot of useful feedback from the conference visitors. Moreover, Tawasol AAC App was given a spot at the innovation theater to present to the audience the main app features and uses to help and improv the lives of people with communication impairments and learning disability. The app was finally publication on Google Play and AppStore.

Tawasol AAC dissemination



"Tawasol Symbols" in Nafath Newsletter Website

Arabic Money Reader App

Arabic Money Reader App is an app for smartphones designed for Visually Impaired users. Mada has empowered the Arabic Money Reader App through the Entrepreneur grant within the Mada Innovation Program.

> Mada supported the development of the solution by offering funding of (QAR 194,050), and expert-matter feedback (41 hours).

It is developed to recognize Qatari Riyal currency notes using the camera of the smartphone. The app reads the Qatari Riyal currency in real time and works entirely offline without the need to have an internet connection. Once the currency detected, the app will inform the user about the value of money in Arabic and English.

The App also provides several additional features including the ability to calculate the total number of banknotes automatically and the option to receive vibration alert when recognizing banknotes' value for more privacy use in public areas.

As part of the Mada innovation program, Mada supported the development of the Arabic Money Reader App in several steps of the project including the development, testing and dissemination during GREAT'18 conference of the product as follow:

- 2 focus groups were organized for people with visual impairments to discuss their needs and how the solution could be used to calculate to total number of banknotes especially in public areas.
- 5 revision sessions were conducted to monitor and check the app progress during the development stages.
- 2 testing sessions were conducted by Mada to insure the quality a successful completion of all milestones of the app before release.





Arabic Money Reader App dissemination

In 2018, Mada Assistive Technology Center launched the "Tawasol Symbols Competition for the Best Education Resources" that aims to encourage teachers and specialist to create new educational materials using Tawasol Symbols. Resources will be useful for people with communication impairments and learning difficulties.



Exposure of "Arabic Money Reader App" in Social Media during GREAT'2018 Conference



Exposure of "Arabic Money Reader App" in Mada Social Media



Exposure of "Arabic Money Reader" in Nafath Newsletter



Cluker 7 Arabic is a reading and writing tool designed to help students of all abilities to advise negliad approximating alives in the Mitterary stills. It is alimed at childen from 5 - 11 years old, and those with special needs. Clicker is developed by Crick Software a UK based company specializing in developing (CF than self lineary sublicing for students with disabilities Clicker 7 Arabic includes an assistive word processor. Most word processors we designed linear advise. Clicker 7 Arabic in designed for children who are learning to need and write.

Exposure of "Arabic Money Reader" in Mada Website



Mada supported **Mohammed Al-Jefairi by** providing expert-matter support and professional exposure to professionals and end-users (25 hours).



SeeDo Robot

SeeDo is an interactive robot that has been engineered by Qatari innovator, Mohammed Al-Jefairi. SeeDo is designed as a modern day assistive technology solution for helping children with deafness to learn sign language.

The solution acts as an interactive robotic teacher that aims to overcome communication challenges faced by children with deafness and build better opportunities for their future. Using the sign language dictionary built-in and a specialized camera, SeeDo has the capabilities to be trained toward recognizing new signs in multiple sign language including the Arabic sign language. SeeDo uses its robotic hand to communicate in all forms of sign language. It can also display all kinds of useful visual content on its built-in TV screen. In addition to that, SeeDo is engineered with electronic processors, a motion sensor and specialized depth cameras which can capture and interpret hand movements, so that SeeDo can accurately respond to a child's sign language.

SeeDo uses advanced electronic processors, motion sensors and specialized cameras to capture and recognize the movements of the hand, so that the robot can accurately respond to the sign language. As part of Star of Science 2017, Mada was part of the judging panel and focus group. In addition, Mada offered mentorship support and expert guidance to Mohammed during his participation to enhance the SeeDo robot which was chosen as the 4th place winner of that edition.

Mohammed Al-Jefairi was one of the main keynote speakers in the opening day of the GREAT'18 conference. He was also provided a spot to showcase SeeDo robot in the innovation zone and a speaking slot in innovation theater to further expose his invention.



Exposure of "Seedo" in Social Media during the innovation theater at GREAT'2018 Conference



Exposure of "SeeDo Robot" in Mada Social Media



Exposure of "SeeDo Robot" in Nafath Newsletter

Bu Hamad Sign Language Avatar

Many initiatives were launched aiming to develop and design avatar solution to translate Arabic Sign Language. Most of them are not updated or aborted due to the high cost of building dictionary containing all Arabic words that can be used by deaf individuals. Mada collaborated with MindRocket inc., a start-up focused on developing assistive technologies for the deaf community, using avatars to translate text into sign language. The startup was supported by Mada to deliver a front-end solution that interpret Arabic Text to localized Sign Language through a Qatari Avatar called Bu Hamad.

Bu Hamad is available as an accessibility feature on Mada official website and Mada AT portal allowing to deaf user a new experience to understand the content of webpages.

As part of the Mada innovation program, Mada supported "Bu Hamad Sign Language Avatar" in several steps of the project including testing and dissemination of the new technology as follow:

- 1 focus group was organized for people with hearing impairments to discuss their feedbacks regarding the interpretation using avatars.
- 2 skype-revision sessions were conducted to check the latest features during the development stages.
- 6 testing sessions were conducted by Mada to insure the compatibility of the plugin on several websites.

Mada also showcased the solution in the Innovation Zone and dedicated a demonstration session was offered at the Innovation Theatre during the GREAT Conference 2018 to provide exposure to the solution through an international platform.



Bu Hamad interpreting Mada AT Portal and Mada Website contents to Arabic Sign Language in real time



Exposure of "Bu Hamad Sign Language Avatar" in Mada Social Media



Exposure of "Bu Hamad Sign Language Avatar" in Nafath Newsletter



Exposure of "Bu Hamad Sign Language Avatar" in Social Media during the innovation theater at GREAT'2018 Conference





Mada supported PenCam Project by providing expert-matter support and professional exposure to professionals and end-users (9 hours).



Mada supported Bu Hamad Sign Language Avatar by providing expert-matter support and professional exposure to professionals and end-users (26 hours).

PenCam

PenCam is a new prototype technology to help legally blind people read and write through a high-resolution magnifier pen connected to a mobile phone app that fits most vision impairments. The portable solution is designed to allow people with visual impairments to perform reading and writing functions in various environments (e.g. school, office, etc.).

Mada has supported PenCam by providing thorough professional subject-matter feedback on the product. Additionally, Mada showcased the solution in the Innovation Zone and dedicated spot was offered at the Innovation Theater during the GREAT Conference 2018 to provide exposure to the solution and receive professionals and users feedback through an international platform.

Exposure of "PenCam" during the innovation zone at GREAT'2018 Conference



Social Media Exposure of "PenCam" during the Innovation Theater at GREAT'2018 Conference

Localization Grant

This award type category is targeted towards international established entities who already have an existing prototype for a potential idea relevant to Assistive Technology products/services who are looking into Arabic localization of their product.

MADA will provide the subject matter expertise as part of the MADA Innovation Program directly to potential established entities with relevant product/ service concept to cater towards the local and Arab market.

Mada spreads Assistive Technology through localizing *international* Software

Mada Reader Write

Clicker 5 – Reading Is Essentia

Washer – So That Everybody Can Se

Sonar – Precision Is an Importan

Vu-Ba

Raised awareness on Mada's previous localized work - highlighted in Nafath

ATBar – For Those Who Want or Nee

T-Bar – Help Reducing the S

upe – When Bigger Is Bet



Clicker 7 Arabic

Clicker 7 Arabic is an innovative solution to help students with reading and writing difficulties. The solution has been localized in Arabic through the support of the Localization Grant within the Mada Innovation Program.

Mada has also provided subject-matter expertise to the solution developers to ensure that it meets international guality standards and is appropriate for use within the local social and cultural context. This is the second generation of Clicker solution being localized with Mada prior to this, Clicker 5 Arabic was developed and well received by the Education sector in Qatar.

As part of its commitment, Mada supported the development of the solution by offering funding, providing resources, and expert feedback from professionals. Mada also showcased the solution in the Innovation Zone and dedicated a demonstration session was offered at the Innovation Theater during the GREAT Conference 2018 to provide exposure to the solution through an international platform.

users (105 hours).

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کې صف لا شعېه 🗸 🗸	بدء الكتابة	
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	التفضيلات المستجدات	
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Mada supported Clicker 7 Project by providing funding (1 million QAR), expert-matter support and professional exposure to professionals and end-



Mada supported accessible. Arabic Read&Write offers reading and **Clicker 7 Project** writing tools to support the needs of users with learning difficulties. The product is designed to by providing Mada support with their reading and writing, at school or in the workplace. And its user-friendly literacy supported TextHelp features help Arabic Language Learners, as well as people with learning difficulties or requiring Arabic Read&Write dyslexia tools. **Project by providing** The primary features of the solution are as follows, expert-matter support hearing emails or documents read out loud to text prediction, picture dictionaries, summary and professional highlighters and a grammar, spelling and confusable words checker, Arabic Read&Write makes lots of exposure to everyday literacy tasks simpler, quicker and more accurate. professionals and end-As part of its commitment, Mada supported the users (68 hours).and development of the solution by providing expert professional exposure feedback from professionals. Mada also showcased the solution in the Innovation Zone and dedicated to professionals and a demonstration session was offered at the Innovation Theater during the GREAT Conference end-users (105 hours). 2018 to provide exposure to the solution through an international platform.







Clicker 7 Arabic launch on Mada Social Media



Press release about the launch of Clicker 7 Arabic

TextHelp Arabic Read&Write

TexHelp Arabic Read&Write is an adaptable toolbar which makes documents, files and web pages more



assistive technology center		
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CEO's Message Innovation Program Latest News Partners	accessibility products and services to the local market in data and the Arab Region. At the following southons have been developed through the Alab Inequiro. The the them support through a combination of entrepreneursitivg graft program which includes offering subject-marker spectrum, card testing the Baback, and funding. TextHelp Arabic Read&Write	

TextHelp Arabic Read&Write on Mada AT Portal and Mada Website

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Platform: Windows, iOS	
Vendor: TextHelp	
Price range: QAR 695	
Arabic language support: Yes	

Competition Awards

The competition award type category is designed for creating opportunities for individuals and entities to gather seed funding for their Arabic AT related product or service "Proof of Concept". Applicants selected for this award type will be directed towards participating in dedicated AT and Accessibility segment developed within various existing competitions.



TextHelp Arabic Read&Write Presentation Session in Innovation Theater during GREAT 2018

madagatc • Follow

madagate Best Arabic Assistive Technolog

Apply today to win the seedstars MADA Best Arabic Assistive Technology Startup title and a cash prize of \$10,000



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MADA-ALECSO Apps Award

The special award "Mada ALECSO Apps Award" was launched during the third edition of Alecso App Award, in collaboration with Arab League Educational, Cultural and Scientific Organization (ALECSO). "Mada ALECSO Apps Award" is granted to the best Arab mobile phone application developed for users with disabilities, with the aim of improving their living conditions though mobile applications providing services that make life easier to any person having any type of disability.

Through this award, Mada and Alecso are seeking to encourage individuals and institutions to create pioneering mobile applications that will make a real difference in the lives of persons with disabilities directly. The Mada Award for Mobile Applications goes through three major stages:

First, the call for submissions was opened and all applications was submitted electronically through the website of the Mada Mobile Applications



phone technology and on the Internet to improve their physical and social capabilities. In this context, mobile application technology has demonstrated its ability to deliver value-added services to people invited and awarded. with disabilities around the world.

Innovation in this area is a great opportunity for individuals and organizations to create mobile applications that enable people with disabilities to benefit from high quality integrated services and to discover new levels of well-being that help them build their capabilities and achieve achievements.

People with disabilities increasingly rely on smart Award. Secondly, the jury members from Mada and Alecso evaluated submissions from different Arab countries, during which the best applications were selected. In the third step, the winners were

in its first year, with 116 participants from 17 Arab countries. Two winners were selected for Mada-ALECSO App Award 2017.

for the application "Smart Face", an application that uses the front camera of the device to control the in this field. To expand the use of Arab Assistive device through facial gestures or head movements. Technology for users with local disabilities or from The second winner was Mohamed Al Qallal from various Arab countries. Tunisia for the application "HandiAccess ", which provides access to the services of some government departments in the city of Sfax, Tunisia.



Mada to attend at the Mobile Applications Awards in Tunisia

O 02 Nov 2017 - 2:02

The Peninsula

Mada Assistive Technology Center will participate in the Mada Alecso Apps Award closing ceremony of the "3rd Alecso Grand Prize for Arab Mobile Applications" that will take place tomorrow and on Saturday Hammamet. Tunisia. The award is part of a partnership between Mada and the Arab League Educational, Cultural and Scientific Organization (Alecso). The award aims to improve lives of people with disabilities through creating smart phone applications that provide services that will facilitate their lives. The winning application will be awarded a prize of \$ 10,000

The 2017 edition of the competition was very popular The competition is part of the innovation program designed to encourage and stimulate private institutions and companies working in the technology sector through providing expertise and financial assistance to meet the needs of users with disabilities The developer Abdul Karim Khoey from Morocco through the provision of assistive technology in Arabic and to create a leading national market





«مدی» یشارك فی توزیع الجوائز لذوى الإعاقة بتونس



Smart Face

Smart Face is an application that allows you to control the Android device through facial movements or head. The application uses the front camera of the device to capture your movements and then translate them into my application commands.

The Smart Face App has been empowered by Mada through the Competition Award stream within the Mada Innovation Program. The competition was organized in partnership with Arab League Educational Culture and Scientific Organization (ALECSO) and was named the "Mada – ALECSO Apps Award".

As part of its commitment, Mada supported the development of the solution by offering funding to the winning solution.



سمارت فىس Smart Face

Mada awarded SmartFace App during AlecsoApps Award (QAR 18,500) and supported the developer to exposure the App to professionals and endusers (8 hours).



MADA – Seedstars Arabic Assistive **Technology Startup Awards**

As part of the Mada Innovation Program, Mada partnered with Seedstars to promote the Arabic Seedstars is a Swiss based group founded in Assistive Technology with the ultimate goal of September 2012 which has the objective to supporting Accessibility startups in Qatar and the impact people's lives in emerging markets through Middle East to benefit PwDs and improve their technology and entrepreneurship. Seedstars lives. Seedstars and Mada share a common vision promotes, connects, and invests in emerging market to support innovation by working with the best startups through its exclusive worldwide startup competition. In 2016, the program reached out to entrepreneurs in the field and offering them with entrepreneurs in over 65 countries through various suitable funding and subject matter expertise for making their solution a marketable reality impacting programs such as the global startup competition, the end users. co-working community, academy and acceleration program

The collaboration involved Mada being the ICT



About Seedstars

Seedstars MENA

On November 29, 2018, Seedstars World organized its 3rd edition of the most prestigious regional event to bring together the best entrepreneurs in emerging markets from across the MENA Region.

Event Key Elements



1 on 1 Meetings

local dialect.

رفيق











3 Finalists presented

Winner BONOCLE USD 10,000 Prize Money

Lisan means "tongue" in Arabic and that is what the Lisan project is all about - literally giving a voice to the voiceless. A wearable glove that translates sign

RafiQ is a virtual assistant Android application that can understand Arabic voice commands in user's



BONOCLE

Bonocle is a handheld device utilizing braille to read digital content from electronic devices in an affordable and portable way.

Best Arabic Assistive Technology Startup Winner – BONOCL



Mada awarded **BONOCLE** as the **Best Arabic Assistive Technology Startup** (QAR 37,000) during the MADA-Seedstars event and offered expert-matter support & feedback (20 hours).



MENA	
t Arabic Assistive chnology Award	seedsta.rs We are very proud to announce that Seedstars and MADA Assistive Technology Center are joining forces to find an innovative solution to assistive technologies in the Arabic language! As we are convinced that this challenge can be solved with the beautiful mix of the brightest minds and tech, we are calling all startups working on assistive technologies in the Arabic language to apply to participate! The winning startup will be awarded the Seedstars MADA Best Arabic Assistive Technology Startup title at the Seedstars MENA Summit and \$10,000 in
cash prize of \$10,000!	cash! #SeedstarsImpactCall #SSWMENA Apply here https://seedsta.rs/AssistiveTech #AssistiveTech #startup #entrepreneur #MADAQatar
mada	○ ○ □ □ 32 likes NOVEMBER 8, 2018 □

Innovation Guidance for PWDs and Students

Supporting Entrepreneurs with Disabilities in Qatar

In 2016, Mada launched a report on "Creating The challenges addressed in the report includes Accessible Services to Support Entrepreneurs public attitudes and expectations, inaccessible with Disabilities in Qatar" aiming to ensure that spaces and programs, and a lack of relevant business commercial bodies such as incubation centers, knowledge and skills, which may contribute to commercial banks, development banks and all deterring PWDs from starting their own businesses. public and private entities, which work in the It offers solutions in the form of effective advisor and area of supporting entrepreneurs understand mentor training, financial and non-financial support, the needs of PWD within Qatar. The report draws including technology support, and the many role upon international best practices to support PWD models with a disability have successfully started entrepreneurship efforts. The report outlined a businesses around the world. number of actions that can be taken to address the needs and help entrepreneurs with disability for bringing their ideas to the market successfully.



Mada supports entrepreneurs with disabilities

part, the Mada Certer has released a	disabilities that are employed is

Mada initiatives highlighted in Nafath



Ints miss out on the potential titre sector of society, and end up social welfare programs. Society ppacted by the marginalization of ies from the world of employment ion creates an inequitable people with disabilities are grossly

ing inclusive workplaces, eurship opportunities to ies has tremendous social and Inlike traditional employment, as the ability to offer flexibility in the ootential for greater financia

eurship programs must play a al strategies that aim to empower ies in a way that meets sustainable

vith disabilities to be able to start us, all entrepreneurial services mus accessible manner. In addition alized services need to be put in to ater access and improve the ability ulities to overcome a number of pecifically related to their disability.

services along with the cialized expertise will most likely sabilities from starting their own businesses. However, when training, financial support and consultancy services are made available, people with disabilities are more likely to become successful entrepreneurs. Support can also come in the form of technology, ranging from pervasive business tools to a range of assistive technology tools that can improve this ability of people with disabilities to conduct business. As such, it is important for entrepreneurial programs in the orwator to like into account the nearch and

in the country to take into account the needs and abilities of people with disabilities. Only then, will thes programs be accessible to all.

The entry of people with disabilities into the workforce as employees and entrepreneurs will provide the world with a new perspective on productivity. It will realifurn the notion that people, regardless of ability, are able to overcome termendous obstacles, when adequate support is made available. Through the provision of necessary support, people with disabilities will be empowered to start their own successful businesses. As such, people with disabilities will form a critical component of Qatar's economic and social growth. Therefore, investing in entrepreneurs with disabilities important on so many levels, but will only be possible with fundamental changes to societal perceptions and attitudes.

Please visit Mada's website to read and download Mada's report on best practices on supporting entrepreneurs with disabilities.

AT Innovation and Research for Students

During 2017 and 2018, Mada worked closely with educational institutes (schools and universities) to support research ideas proposed by students.

For primary schools, several student teams visited Mada Center offices to explore and discover existing solutions and devices for people with disabilities. This helps them to enhance their ideas and focus more on the real needs of persons with disabilities.

In collaboration with Hamad Bin Khalifa University (HBKU), Mada participated to the "Workshop on Supporting Individuals with Autism Spectrum Disorder (ASD) using Technology-Based Interventions (TBI)" and presented a presentation about the role of social robots to improve educational and social skills on children with autism. Moreover, Mada shared knowledge for PhD students under the supervision of Dr. Dena Al-Thani.

Success Story of Mursi Seraj

High Functioning Autism (HFA), who is very passionate about technologies and robotics. He had a dream to become a pioneer in the field of enabling low-functioning autistic children to communicate effectively through technology.

With Mada's support, he developed applications for NAO Robot to improve communication skills in autistic students. Mursi was one of the main keynote speakers at annual Mada conference GREAT 2018.



In the summer of 2017, Mursi Seraj started a month- In addition to his school project, Mursi has also long tenure at MADA Assistive Technology Center. worked with Mada on a Social Robot project. He was The initial purpose of this tenure was to complete motivated to pursue this project when he encountered an academic project that had failed to satisfy the a child with autism visiting MADA who was drawn to criteria set forth by the school. However, the project- the robot and wanted to play with it. Mursi decided the first version of which had taken an entire school to engage the boy by programming the robot to year to do -was completed in two weeks. This project respond to the boy's questions and actions in realwas a model of a smart house prototype made using time. Mada gave Mursi the opportunity to present his electronic components. While the original project prototype in an International Scientific Conference report was roughly three pages in length, the revised ICTA'18 held in Oman in 2017. His contributions to version he completed at MADA was five times that the Oman conference would lead him to headline length, and vastly more comprehensive. the GREAT conference in April of this year, where he was able to see the impact of his work beyond the scientific community, and positively effecting the lives of PWDs.

Mada provided Mursi with relevant AT resources, professional expert-matter support & user feedback (136 hours).

As a headliner and a speaker on the conference's Innovation Panel, Mursi was also able to speak about his own experience with autism as a highfunctioning individual and how it informed the design choices present in the social robot program he was working on.

This realistic experiment has shown that mainstream schools are frequently neither fully educated nor equipped to deal with the needs of an autistic child and provide them with the necessary support. ICT accessibility and AT play vital role in the education of children with HFA, by providing a secure learning environment in which stimuli remains stable.

The impact of technologies on gifted high functioning children is crucial to enhance educational opportunities, develop work skills, enrich daily living experience and promote community inclusion. Finally, we must always remember that the participation of high functioning children with autism in the general education environment is essential.

The Gifted Mursi Seraj:

A Success Story in the World of Technology

Partnerships

Mada has collaborated with various strategic partners to proliferate Arabic Assistive Technology solutions and Innovative ideas. has continually provided knowledge of Arabic assistive & entrepreneurs in Qatar and the Arab region. Agreements were signed with the strategic innovation partners below:



The Mada Innovation Program Mada and Seedstars signed a partnership agreement to support Arabic Assistive Technology Startups in the MENA region to benefit PWDs and support, mentorship, exposure, improve their lives. As part of the partnership, Mada and Seedstars and resources to innovators & launched the "Mada Seedstars Arabic Assistive Technology Award" to entrepreneurs. The partnerships support emerging startups in the field and provide a cash prize and have facilitated an increased expert matter guidance for the winner. In addition, Seedstars MENA recognized Mada as the ICT Accessible partner and profiled MADA technology and accessibility as the leading Accessibility organization in the Middle East attracting solution needs amongst innovators key stakeholders for potential collaborations.



Since 2015, Mada and Crick Software collaborated to improve writing and reading skills in students with communication difficulties and learning disabilities in Qatar. Mada localized two editions (5 and 7) of Clicker software and worked actively to enable the education sector in Qatar to benefit from the solutions.



seedstarsworld



Since 2015, Mada and Crick Software collaborated to improve writing and reading skills in students with communication difficulties and learning disabilities in Qatar. Mada localized two editions (5 and 7) of Clicker software and worked actively to enable the education sector in Qatar to benefit from the solutions.



Mada and TextHelp partnered to localize the latest version of the software TextHelp Read&Write. As part of its effort to expand the range of Arabic Assistive Technology (AT) to support the education sector in Qatar and the Arab Region, Mada has actively focused on bringing new Arabic AT to the market. Hence the partnership involves Mada to offer expertise and user-testing feedback to successfully localize Read&Write.





Mada partnered with the Arab League Educational, Cultural and Scientific Organization (ALECSO) to encourage Arabic developers to design and develop Arabic mobile applications to improve the living conditions of people with disabilities. The partnership included the launch of a special award called the "Mada-ALECSO Apps Award" during the AlecsoApps Award'17 event organized by ALECSO.



Mada signed a Memorandum of Understanding with the Digital Incubation Center (DIC) during the QITCOM 2017 event. The partnership aimed to further develop Mada Innovation Program with the help of DIC's two-and-a-half-year business incubation program for entrepreneurs with Assistive Technology ideas. Mada is committed to supporting PWD in Qatar and providing them with the latest in Assistive Technologies to ensure they stay connected to a world with ever changing technologies.



Mada and Star of Science program partnered to promote and provide Assistive Technology related awareness and services respectively and support the proliferation of the development and availability of Assistive Technologies in Qatar and the Arab Region. "Star of Science" is an original format of Pan Arab reality TV which is dedicated to innovation and targeted for Arab families. Mada offered technical Expertise and follow up to the relevant Stars of Science participants. As part of the collaboration, Mada provided access to its offices for shooting the show.



Mada signed a Memorandum of Understanding with Qatar Incubation Center (QBIC) as part of the Mada Innovation Program to promote Arabic Assistive Technology Innovation in Qatar by providing the necessary expertise, and tools throughout their program cycle within QBIC.

مركز حاضنات الأعمال الرقمية Digital Incubation Center



مین میادرات مؤسسة قطر

Event Highlights

Qitcom 2017

CodeCamp

CodeCamp was the first-of-its-kind hackathon event in Qatar, aimed at supporting local talent and helping grow the digital economy, as to compete internationally. The CodeCamp competition attracted more than 400 participants from within and outside of Qatar. The competition began on Friday, 3 March 2017 and ended on Tuesday, 7 March 2017.

At CodeCamp, teams of young students and coders worked together over only 48 hours to develop creative technological solutions to a specific problem in four subject matter areas set by CodeCamp's partners: digital transformation (Microsoft), smart travel (Qatar Airways), e-health (Ooredoo), and assistive technology (Qatar Assistive Technology Center "Mada").

- Preliminary Round of CodeCamp: During the weekend before the QITCOM event (March 3-4, 2017) all-day preliminary rounds for CodeCamp were held to shortlist the top finalists. Out of 7 teams, 3 teams were chosen to advance for the preliminary round. Mada had nominated mentors from Mada's team to guide the successful participants towards developing a feasible solution for PWDs. Alongside with the mentors, Mada's representative took part of the judging panel for CodeCamp.
- CodeCamp Finals: CodeCamp finals was held on Tuesday (March 7, 2017) where the 3 finalist teams pitched their solutions after 48 hours of solution development. Each team developed a mobile app solution that served people with disability. As part of the partnership with Digital Incubation Center (DIC), they announced, all the top 3 teams will be awarded business incubation at DIC and the winning team would also be receiving a prize money based on milestones of solution development.



QITCOM Digital

MADA had an activity in the Digital Youth Festival at QITCOM under the name of "Talking Through Technology". The main objective was to raise the youth awareness about how technology can help people speak if they cannot talk. The students were given a short list of simple questions and were supported by us to initiate and carry out simple conversations with each other while using only the voice output devices (Eye Gaze, GoTalk device, iPad with Ovii App or Gotalk now App).

Students aged between 10 and 14 years participated in our activity and they were very interested and fascinated by the power of Assistive Technology and how it can help people with disability to be independent and to participate effectively in the society.



Gulf Region Education Assistive Technology Conference

Mada Assistive Technology Center hosted the 2nd
Gulf Region Education Assistive Technology (GREAT)The aim of GREAT was to provide a knowledge-
sharing forum by bringing together teachers,
academicians and professionals to promote
initiatives in assistive technologies, best practices,
implementation strategies, research and education
in AT in schools. This conference targeted audiences
from the following fields:

- 1. Education
- 2. Independent Living
- 3. E-Accessibility
- 4. Innovation

The conference also hosted a dedicated stream on Autism, organized in conjunction with the Qatari Autism Society.

Organized in partnership with several local, regional and international partners, GREAT 2018 featured subject matter experts from around the world who used this platform to educate and exchange information on best practices and current trends in the field technology and accessibility.

The conference hosted a number of inspirational speakers, workshops, an Interactive Exhibition, Assistive Technology Exhibition, Innovation Zone, and Innovation Theater over the course three days.

- Mainstream Education Teachers
- Special Education teachers
- School Administrators
- Speech Therapists
- Occupational Therapists
- Physical Therapists
- Parents of children with special needs
- Providers of AT products
- Medical Professionals who work with PWDs
- Academicians in Higher Education in AT
- Policy Makers
- Digital Content Creators
- Web Designers and Developers
- Technology Professionals
- Innovators
- Managers of Accessibility to Public Spaces

GREAT 2018 Innovation Theater

The Innovation Theater was a platform that featured selected 12 innovative Assistive Technology solutions and concepts. It was a presentation stage comprising of short sessions that introduced the key features and applications of the solutions. This area served to provide intensive discussions, inspiring innovators & entrepreneurs to develop solutions catering to the needs of Persons with Disabilities in Qatar and the region.









GREAT 2018 Innovation Zone

The Innovation Zone shed light on 11 upcoming Arabic Assistive Technology solutions that were developed in collaboration with Mada. This zone was a unique space that offered visitors with the opportunity to explore the latest cutting-edge Assistive Technologies to enter the market place in near future. All featured solutions have been developed as part of the Mada Innovation Program which aims to grow the market for Arabic Assistive Technologies in order to widen the range of Arabic solutions available for People with Disabilities. The highlight of the GREAT Conference 2018 was an assistive technology exhibition featuring international and regional AT exhibitors. There were 13 exhibitors that participated in GREAT 2018. The participating exhibitors included representatives from 7 countries around the world including parent companies of the relevant AT and also regional & sole distributors of AT products in the Arab region. A wide range of AT solutions were exhibited which catered towards people with visual impairments, hearing difficulties, learning difficulties, physical disabilities and autism.

Innovative Assistive Technology Solutions





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Add a comment

GREAT 2018 Assistive Technology Exhibition

13 Assistive Technology Exhibitors

Qatar Foundation Annual Research Conference 2018 QF ARC '18

ARC'18

QATAR FOUNDATION ANNUAL RESEARCH CONFERENCE

R&D: FOCUSING ON PRIORITIES, DELIVERING IMPACT

19-20 MARCH



Mada participated in QF ARC'18 event held on March 19-20, 2018 at the Qatar National Convention Center. The objective of the event was to share perspectives and ideas on how research and innovation can address Qatar's greatest challenges, diversify its economy and enhance its sustainability. The event was the seventh edition of the conference organized by Qatar Foundation Research and Development (QF R&D) which was attended by international experts and thought-leaders.

Mada participated in QF ARC'18 with the following objectives:

- • Mada participate to raise awareness in Mada Innovation Program
- Grow Research in Arabic AT to widen the range of Arabic AT solutions
- • Exhibit current Innovative AT solutions
- Disseminate information about Innovation and Research work implemented by Mada

During the event, Mada had its own booth to showcase the latest work being done in the field of Assistive Technology and Accessibility. This platform was effectively utilized to exhibit the contribution of Mada towards the development of Arabic AT solutions including the creation of Tawasol Symbols and the work done using social robots with Mursi Seraj. Concurrently, materials related to the disseminated International Best Practices were also distributed in the Mada space. The Mada booth attracted over 200 visitors throughout the 3-day event who included professionals, PWD family members, students, social media influencers, and various representatives from health and education sectors.









UNESCO Mobile Learning Week 2017



As part of the "United Nations Educational Sceintific and Cultural Orgranization (UNESCO) Mobile Learning Week" held on March 20-24, 2017 at UNESCO headquarters in Paris, France. Mada Assistive Technology Center participated and conducted a presentation on: "Mada Center's efforts to promote mobile applications for persons with disability". Mada was introduced to the audience and the Mada Innovation Program was highlighted as the first of its kind initiative aiming to support and grow the Arabic AT and mobile applications for the people with disability. Moreover, Mada highlighted the cooperation between Mada Center and ALECSO, particularly regarding the "Mada Award for Mobile Applications for Users with disabilities" as part of the 3rd edition of "ALECSO Arab Mobile Apps Award.

The session was received with high interest from the audience (more than 30 individuals) consisting of specialist, policy makers, and innovators from all around the world. They praised the role of Mada in the region and its innovation program initiative as a pioneer in the field to support persons with disabilities to improve their lives.



Ooredoo Roadshow 2018

Mada participated in the Ooredoo Innovation Roadshow 2018 held on January 22-23, 2018. The objective of the event was to demonstrate technology, eco systems partners and showcase innovation in multiple facets of Information Communication Technology. Mada showcased the latest Arabic innovative assistive technology designed to improve the lives of people with disabilities. Mada's participation aimed also to raise awareness of the Mada Innovation Program.

Mada aims to grow the market for Arabic Assistive Technologies in order to widen the range of Arabic solutions for People with Disabilities. All visitors to the Mada booth expressed great interest in learning about the full potential of the latest innovations in assistive technology devices. Visitors were also made aware of Mada's commitment towards encouraging innovation in the field of Arabic Assistive Technology by supporting entrepreneurs and developers to create solutions through the Mada Innovation Program of which some were also featured in Mada's corner.

Mada Center provided access to the latest information and best practices in order to ensure optimal accessibility through assistive technology. The Center also ensured access to the latest and most important technologies through building partnerships with various partners to meet international standards and facilitate the use of technological devices for persons with disabilities





International Conference on Information & Communication and Accessibility (ICTA) 2017





ICTA is a bi-annual international conference on ICT & Accessibility. The sixth edition of ICTA 2017 was held in Muscat, Sultanate of Oman. The conference explored several areas related to ICT, Accessibility of people with disabilities and education with special focus on Technology Enhanced Education for people with disabilities.

Mada participated by presenting a scientific paper entitled "How could robots improve social skills in children with Autism?". Mada participation was a contributed towards highlighting the potential of individuals with HFA like Mursi Seraj, who also got the opportunity to discuss his prototype "Using NAO Robot to improve educational skills in low functioning children" with experts from around the world. The scientific paper "How could robots improve social skills in children with Autism?" is now indexed in well-known scientific library such as Google Scholar, IEEE Xplore and DBLP.





Nafath Newsletter

Mada launched Nafath Magazine, with the aim of keeping our stakeholders and communities informed about assistive technology. Nafath digital newsletter is published every three months and is available online at Mada Website and there is also a printed version. NAFATH discusses our latest achievements, research, trends and insights into ways companies can become more accessible to PWDs. While the focus of the newsletter is on the region itself, Mada also look at international best practices and how we can learn from them to improve our offerings and enhance our community in respect to what it offers to PWDs. (Qatar Assistive Technology Center "Mada").





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Articles in Nafath

Arabic Innovations, AT and Accessibility

promoting







NAFATH



NAFATH NAFATH





Mada AT Portal

"Mada AT Portal" serves as a leading AT and Accessibility information resource connecting professionals, parents, AT users, and developers to e-Accessibility and assistive technology solutions. The portal provides the necessary information and data about various devices and programs that people with disabilities can use. All assistive technology products were classified according to disabilities: visual, hearing, physical, communication and learning disabilities. In addition, the portal provides detailed information on the AT solutions suppliers, beneficiaries, latest updates, and approximate prices.



Since the launch of the Mada AT Portal, its role has been to promote the development of Arabic digital content, introduce assistive technology, and encourage Qatari and Arab innovators to develop unique innovations that have greatly contributed to the empowerment of people with disabilities in all domains at the national and regional levels.

The Mada AT Portal features the first of its kind Arabic Accessibility Glossary. This glossary presents key terminology in the field of Assistive Technology and Accessibility. It is an important resource for professionals, users, and families of persons with disabilities.

Previous Mada Supported Innovations (Pre-2017)

Clicker 5

Area of Disability

Learning Difficulties

Description

Clicker 5 is a software designed to help struggling This product contains readers, writers and English language learners two applications Reader to access support tools they need at school, work and Writer which provide or home. The program can help individuals with reading and writing Dyslexia, Learning Difficulties, Speech or Language support in Arabic. Reader Impairments, Physical Disabilities, Low Vision, is a handy little program Autistic Learners, and Downs Syndrome. The for reading text aloud. You program has a word processor on top and a grid can select text from any with different cells that contains letters, words or program, whether a news item in your web browser, phrases to help children to write sentences without a report in Word, an email or whatever you need. typing them. Additionally, it allows the user to hear The text is displayed in the Reader window and is before writing and even highlights the text as it's then spoken aloud automatically or as a result of spoken. Furthermore, it allows users to write selecting the Play button. When writing any sort of with pictures and animate their writings. Also, the document, Writer helps you type more efficiently. program provides free learning resources as well It monitors the text you write and uses prediction as it allows the user to create his own sets of grids, to suggest words as you type. There are several links them, and have full-screen grids. As well, it options that allow you to personalize the software. supports voice recording, MP3 sounds and MPEG videos. Mada has supported the development of and Arabic localization of Mada Reader Writer.

Mada has supported the development of and Arabic localization of Clicker 5.



Mada Reader Writer

Area of Disability Learning Difficulties

Description



Big Keys

Perkins SMART Brailler

Area of Disability

Learning Disability, Visual Impairment, Low Vision Blindness

Description

with color coding to help users in the learning process. It has 60 large keys and offers access to function keys. Big Keys are available with uppercase letters with either colored or white keys in a QWERTY keyboard layout in a US Format. Mada helped in localizing an Arabic version of the Big Keys keyboard applicable for users in Qatar and the Arab region with certain learning and/or specific visual disabilities allowing them to have better access to information and ease their communication and learning process.

Description

Area of Disability

Big Keys keyboard provides clearer larger targets, Smart Brailler is an AT that can be used to teach braille to individuals with blindness. The device allows sighted teachers to collaboratively work with blind students. The Arabic localized version of the Perkins Smart Brailler fills the necessary requirement for an Arabic Smart Brailler device for blind and visually impaired people. The role of Mada in Arabic localization of Brailler was to collaborate with the manufacturer to develop the necessary Arabic translation of all texts such as menu heading translation and displayed contents in screens and all guidelines to write messages from right to left.

Bookshare

Area of Disability

Learning Disability, Visual Impairment, Low Vision, Learning Difficulties, Dyslexia, Vision Impairment, Physical Disability Low Vision

Description

Bookshare is the world's largest online library of Dolphin Easy Converter is a tool to create accessible accessible eBooks for people with print disabilities documents and media by allowing to convert files who cannot effectively read from printed material in one format to another. The solution integrates the standard way because of a visual, a physical, a into the user's current workflows and processes perceptual, a developmental, or a learning disability. requiring no previous experience in creating Bookshare offers the world's largest collection of alternative formats. accessible digital books, allowing people of all ages, as well as schools and many organizations around The supported output formats are Large Print, MP3, DAISY, Audio, Braille from the input formats such the globe to access the books they need for school, work, career advancement, skills development and as Word, PDF, text, html, scanned text and other the simple love of reading in formats that work for file formats. them.



Bookshare Dolphin EasyConverter

Mada collaborated with Bookshare by offering Arabic reading materials to help students comprehend better through accessible reading content, learn at their own pace and encourage them to read more often. The partnership also facilitated the provision of free Bookshare accounts to eligible users in Qatar.





Dolphin Easy Converter Arabic

Area of Disability

Description

Mada helped in the development and Arabic localization of Dolphin Easy Converter.



Claro Read

Area of Disability

Learning Difficulties, Dyslexia, Vision Impairment, Low Vision

Description

ClaroRead is a software program that helps to read, write, and study. It supports reading any onscreen text out loud and helps improve the user's writing skills in Microsoft Word. ClaroRead Plus and Pro are able to read aloud scanned paper books and documents. The software could read content from Microsoft Word, Adobe Reader, OpenOffice/ LibreOffice and Internet Explorer with speech and highlighting for the user to follow the text as it is read out. It can also read text in email, webpages, and any other program you want by selecting with the mouse, pointing with the mouse, or capturing from the screen.

BRACI App

Area of Disability

Hearing Impairment, Deaf

Description

The BRACI app can pick up and notify the user about many different types of sounds which revolve around safety, security and comfort (e.g. safety alarms, doorbells, telephone, etc.). The notification can be sent to a compatible smart watch which can be worn by the user at all times.

BRACI app is innovative that benefits users who are deaf or hard of hearing.

Mada helped fund the development and Arabic localization of BRACI apps.

TweetDeck

Area of Disability

Physical Disabilities, Visual Impairment

Description

TweetDeck is a social media dashboard application The Grid 2 is a software designed for people with for management and operation of Twitter accounts. limited or unclear speech that allows them to use a TweetDeck consists of a series of customizable computer as voice output communication aid by using columns, which can be set up to display the user's symbols or text to build sentences. The software Twitter timeline, mentions, direct messages, lists, allows user to access the Windows desktop and trends, favorites, search results, hashtags, or all other programs, with the built in Computer Control tweets by or to a single user. All columns can be features. In addition, it allows users to send and filtered to include or exclude words or tweets from receive email and SMS messages, browse the web, users. Tweets can be sent immediately or scheduled listen to music, and more. Furthermore, it supports for later delivery. eye gaze, switches, headpointer, touchscreen, mouse, and other options.

Mada had helped in the development of TweetDeck to be designed as an accessible application.

Mada helped in the Arabic localization and testing of Claro Read Arabic.







GRID 2

Area of Disability

Communication Impairment

Description

Mada had helped in the Arabic localization of GRID 2 by offering translation feedback and subject matter expertise.



AT Bar

Area of Disability

Learning Difficulties, Dyslexia, Vision Impairment, Low Vision.

Description

AT Bar allows to change the look and feel of webpages, increase and decrease font sizes, have text read aloud, use colored overlays, readability and a dictionary to aid reading. Spell check forms and try word prediction when writing. It is a simple tool which is available for browsers. AT Bar can Mada has supported the development and Arabic help those with low vision, dyslexia, other reading difficulties as well as those who may wish to just reduce the glare of black text on bright white backgrounds.

Mada has supported the development and Arabic localization of AT Bar in collaboration with University of South Hampton in UK.

Washer

Area of Disability

Description

There are some software applications which attempt to correct for the varying types of color blindness by adjusting specific colors, however these rely greatly on the user having a standard form of color deficient vison. Washer simply renders everything underneath its window in a grey scale format, thus catering for a high proportion of color deficiencies. The software itself is very simple to use. When started it will display anything beneath the main window in shades of grey and can be dragged around the screen to select different areas.

Mada has supported the development and Arabic localization of Washer.

QuickRes

Area of Disability

Vision Impairment, Low Vision.

Description

This application allows to quickly change the resolution of the computer screen to low, medium or the default and back at the click of a button to help people requiring high color contrast and large fonts to use the computer more effectively.

localization of QuickRes.

Sonar

Area of Disability

Learning Difficulties, Vision Impairment, Low Vision. Learning Difficulties, Vision Impairment, Low Vision.

Description

Sonar provides an expanded ring around the mouse pointer for users who have difficulty locating the pointer. This application places a permanent ring around the pointer along with the option to vary the color of the Sonar ring.

Mada has supported the development and Arabic localization of Sonar.

VU-Bar

Area of Disability

Learning Difficulties, Dyslexia, Vision Impairment, Learning Difficulties, Dyslexia, Vision Impairment, Low Vision. Low Vision.

Description

VU-Bar is a software that provides an on-screen Mouse clicking replacement software. It can carry out left click, right click, double click, highlight and slotted ruler to distinguish each line of text. This is particularly useful for people with dyslexia, when drag-drop actions. the user skips lines or drops from one line to the next. The software allows the user to select the bar Mada has supported the development of and Arabic width between 25%, 50%, 75% or 100% of screen localization of Mouseketeer width and set the slot height to the required font size. The software also offers the option to lock the bar onto the mouse pointer for movement, as well as improved keyboard movement options.

Mada has supported the development and Arabic localization of VU-Bar.

RapidSet

Area of Disability

Learning Difficulties, Dyslexia, Vision Impairment, Vision Impairment, Low Vision. Low Vision.

Description KwikLoupe is a screen magnifier software. Its RapidSet is a software that allows guick and easy magnification ranges from 2x to 64x with a guick changing of the background and font colors, without locate option to position the viewing window. The having to go through the Screen Properties dialogs. tool magnifies the area around the mouse pointer.

Mada has supported the development of and Arabic Mada has supported the development of and Arabic localization of RapidSet. localization of KwikLoupe.

Mouseketeer

Area of Disability

Description

KwikLoupe

Area of Disability

Description

Tbar

Area of Disability

Learning Difficulties, Dyslexia, Vision Impairment, Low Vision.

Description

T-Bar is a colored bar which the user can either drag around the screen or lock the mouse. This software to wrap around the screen instead of stopping at is particularly useful for individuals with Scotopic the edges. It can be configured to start at Windows Sensitivity. It can have ruled lines or not, depending startup if required. The user can choose to wrap on user's preference. The color can be chosen from on all sides, just horizontal or just vertical - note pre-defined options, then tweaked by altering the to maintain portability, this option must be set for red, green or blue sliders to get the preferred color, each session. This software capable of supporting the transparency level can be adjusted, again to suit up to 2 monitors. the individual. All the settings are saved between sessions for the user's convenience.

Edgeless

Area of Disability

Learning Difficulties, Physical Impairment, Vision Impairment, Low Vision.

Description

Edgeless is a software that allows the mouse pointer

Mada has supported the development of Edgeless.

Mada has supported the development of and Arabic localization of Tbar.



