## Welcome to the Accessible Technology Webinar Series **Mobile Accessibility – The Status of** Accessibility in Mobile devices The Accessible Technology Webinar Series is sponsored by the Great Lakes ADA Center and the Pacific ADA Center, both members of the ADA National Network. **De Session is Scheduled to begin at 1:00 pm CT** *We will be testing sound quality periodically*

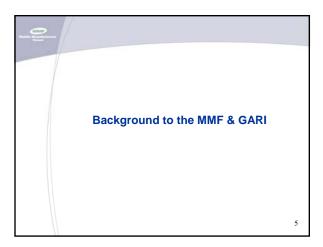
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Webinar Features
 Closed captioning - click CC icon (located in the Audio/Video Panel) or control-F8 (command-F8) and adjust your screen.
 Questions - Highlight "Great Lakes" in the participant list and "right click" on your mouse to send a private message. Type your message into the chat area that appears. The question will be viewed by all moderators. (Keyboard - F6, Arrow up or down to locate "Great Lakes" and select to send a message)
 Customize your view - You can change the size and location of any of the panels (Chat, etc.) by hovering your mouse over the line on at the right of each panel and select "Detach Panel". Each panel can be repositioned and resized.
 Please do not use emoticons or hand-raising features during this session

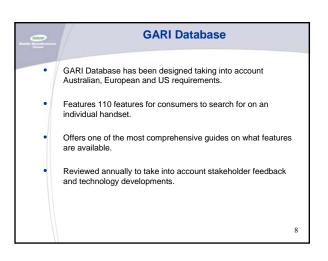


	Overview of Presentation	
•	Introduction of the MMF and the GARI project	
•	What GARI offer for customers	
•	How GARI fits into companies commitments to accessibility	
•	How are mobile phones designed and the how accessibility is factored into the design and development process	
•	Future Plans for GARI	
•	International accessibility developments - what is coming up and how they impact manufacturers and consumers.	
•	Q&A	4

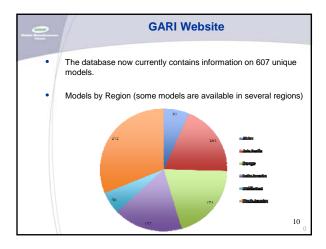


	Introduction to the MMF
•	International association of radio equipment manufacturers Representing around 80% of global handset sales; and The providers of the majority of global network infrastructure
•	Association's focus: health, safety and accessibility of wireless telecommunications equipment.
•	Key areas of activity: research and standards support, regulatory harmonisation and public communications
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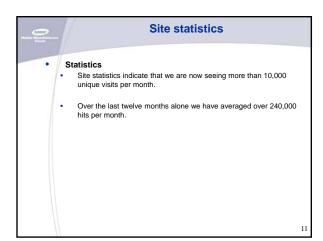




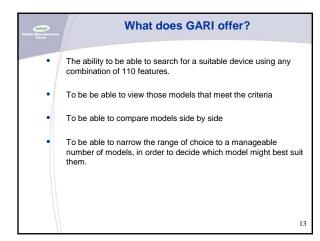
	GARI Website
•	GARI Website is available at: www.mobileaccessibility.info
•	Offered in 12 languages
•	Designed to help consumers learn about how various features enhance accessibility and then assists consumers to search for devices that those features.
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MOBILITY/DEXTERITY FEATURES		
Speaker-phone capable	?	
Text Messaging Service Capable	?	
Predictive Text Input	?	
Guarded/recessed keys	?	
Device Coupling - Cable	?	
Device Coupling - Infrared	?	
Device Coupling - Bluetooth/WLAN	?	
Flat Back for Table Top Operation	?	
Automatic Answer	?	
Automatic Redial	?	
Any Key Answering	?	
Voice Recognition for Dialing	?	
Hand Movement	?	
Voice recognition for accessing features	?	
VISION FEATURES		
Tactle Key Markers - 'F' & 'J'	2	
Tactle Key Marker - '5'	?	
Standard Number Key Layout	?	
Key Feedback - Tactile	2	
Key Feedback - Audible	?	
Audible Identification of Keys - Spoken	?	
Audible Identification of Keys - Functions	?	
Audible Cues - Battery	?	1
Audible Cues - Power	2	







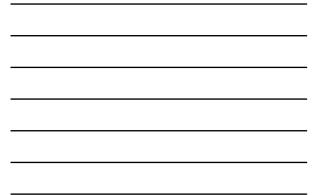
	Ste	ep 3: Compare Mo	dels
	MOBILE	HANDSET/DEVICE COMPARISON	
Features	Nota 610	RIM RickBerry 9320	Motoria Mobility Model:: MOTOROLA ADMIRAL"
HARDWARE INFO			
Handset weight	131.5 Grams	102 Grams	134 Grams
Standby Time / Talk Time	32 Days 10 Hrs	18 Days 7.0 Hrs	3.3 Days 9 Hrs
Headset - plug connected	Yes	Yes	Yes
Headset - plug type	3.5mm, AHJ Headset WH-208	3.5	3.5mm
Touch Screen	Yes	No	Yes
Touch Screen - Heat Activated	Yes	No	Yes
Easy Battery Placement	Yes	Yes	Yes
Easy to Press Keys	NA	Yes	Yes

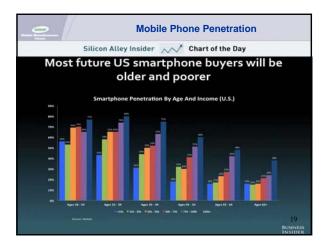




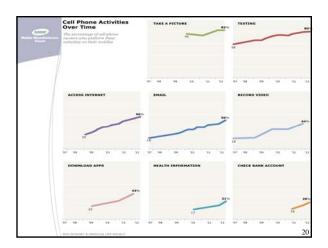










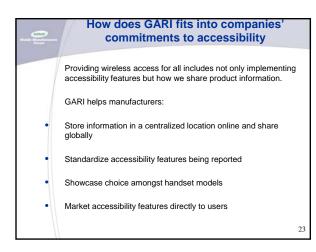




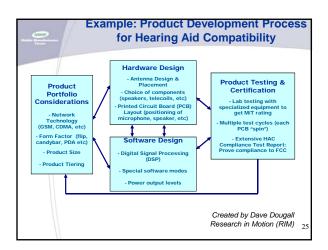
use their phone to encer weather rep	ports or forecasts)			
	% <u>eve</u> All cell owners	r do this Smartphone owners	% do this on All cell owners	a <u>typical d</u> Smartpho owners
Check weather reports and forecasts	45%	77%	28%	52%
Use a social networking site	40	68	28	50
Get turn-by-turn navigation or directions while driving	37	65	8	15
Get news online	37	64	19	36
Play a game	36	64	20	37
Upload photos online so that others can see them	34	58	8	15
Listen to an online radio or music service, such as Pandora or Spotify	29	53	11	22
Check your bank balance or do any online banking	24	44	11	21
Visit a local, state or federal government website	17	31	3	6
Get coupons on deals to use at local businesses	14	24	3	5
Use Twitter	9	16	5	10
Watch movies or TV shows through a paid subscription service, like Netflix or Hulu Plus	8	15	2	4



Advantages of Mobile			
	As of April 2012, <u>55% of adult cell owners use the internet on</u> their mobile phones; nearly double what we found three years ago.		
	Going mobile:		
•	Makes information accessible anytime and anywhere		
•	Puts information at our fingertips		
•	Magnifies the demand for timely information		
•	Makes information location-sensitive and relevant		
	Pew Internet Research 22		



	Designing for accessibility during product development
	We design accessibility features for people with disabilities: including hearing or vision loss, and limited speech, dexterity or mobility.
	The product development process may include:
•	Gathering feedback
•	Educating product designers
•	Testing for accessibility
•	Marketing > Alternate Format Manuals (e.g., Braille)
•	Supporting users through specially trained call centers 24

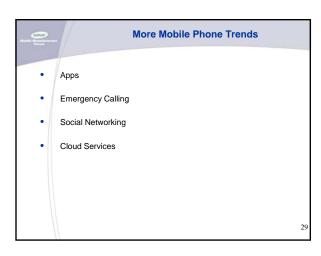


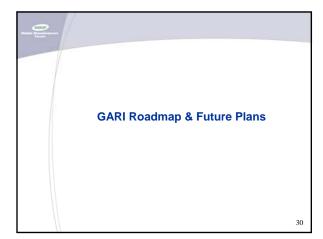


	Accessibility Solutions for Users with Hearing and/or Speech Needs
-	Accessibility features for users with hearing and/or speech needs may include:
•	Video Chat
•	Support for closed captioned videos
•	Speakerphone
•	Text messaging
•	Vibrating Alerts
•	Compatibility for assistive devices: Hearing Aids, TTY, neckloops

	Accessibility Solutions for Users with Vision Needs
	The Text-to-Speech (TTS) found in many screen readers uses synthesized speech to speak the names of items as the user navigates the phone's user interface such as:
-	Readout of the digits as they are depressed
+	Readout of the phonebook contacts
	Readout of SMS and Email messages
	Readout of incoming Caller Identification
-	Readout of menus and related functions
	Keypad echo when entering phonebook contact details
-	Keypad echo when composing SMS and Email messages 27







	GARI Roadmap
•	Just completed an extension to tablet devices and have begun the process of populating that section
•	1Q 2013: Launch the apps module – allowing consumers to see what accessibility related apps also will work on the device that they are interested in
•	2H 2013: Undertake second stakeholder feature review.
•	Ongoing: Interested to work with organisations to integrate GARI into their own websites – using XML or other means.
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Intec	ration	of G	ARI

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- To date the GARI database has been incorporated into the following external websites:
- CTIA (<u>http://www.accesswireless.org/Home.aspx</u>)
- AMTA (<u>http://www.amta.org.au/pages/GARI.Database</u>)
- IZMF (<u>http://www.izmf.de/de/node/100342</u>) (German)
- CWTA (<u>http://wirelessaccessibility.ca/</u>)
   FCC (http://www.fcc.gov/AccessibilityC
- FCC (http://www.fcc.gov/AccessibilityClearinghouse)
- CFM (<u>www.consumerinfo.my</u>)





the size of the si	GARI Stakeholder Support
•	"The initiative of the MMF resulting in the creation of the GARI website is a significant and important milestone." Australia Consumer Advocates – TJA Article)
•	"The most significant information initiative currently available. We would strongly encourage other manufacturers to participate." > (UK Consumer Panel Report)
•	"We hope that many disabled and elderly people will use and benefit from the GARI website in years to come." > (OFCOM Press Release)
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	Conclusion	
•	GARI developed in response to requests from disability and othe stakeholder groups for better reporting of the accessibility features of mobile phones.	ər
•	The website addresses many needs and has been welcomed by key stakeholders.	/
•	Feature-set continues to evolve and is reviewed annually with stakeholder participation and feedback.	
•	We continue to explore opportunities to promote the project so that together we can help to remove barriers to accessing the benefits of mobile communications.	
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01	GARI Outreach	
	Outreach	
1	<ul> <li>Via the blog <u>http://blog.mobileaccessibility.info/</u> MMF has published the following 8 new <u>GARI blog</u> entries:</li> </ul>	
	Searching for a phone with a front mounted camera? Looking for phones with accessibility API's? GARI - Assistance for older people	
	Closed captioning on smartphones Choosing a phone that's so smart it can make itself simple	
	Saving time with shortcuts High contrast phone display's help those with limited vision Personalised ring tones for function as well as fashion	
	The GARI blog is currently being worked on to also display blog entries in other languages.	
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2	GARI Outreach
35	Other updates and communications
	<ul> <li>MMF continued to spread GARI information, in particular by promoting embedment of the GARI database into the websites of other organisations. ANATEL/Brazil and Sinditelebrasil, the Brazilian Operator's Trade Association already decided to embed a GARI link on their website but administrative procedures are still ongoing.</li> </ul>
	<ul> <li>The Austrian telecom regulator RTR embedded a link on its website in the consumer services section (http://www.rtr.at/en/tk/Konsumentenberatung).</li> </ul>

### **GARI Outreach**

#### Other updates and communications

• MMF met with the Chairperson and the Vice-Chairperson of BEREC End User Working Group to present GARI. BEREC stands for Body of European Regulators for Electronic Communications, <u>http://www.erg.eu.int/Default.htm</u>. As the initiative was highly appreciated, MMF asked for support to reach a wider audience and to underscore the trustworthiness of the source, e.g. by providing access to GARI information on the websites of national regulators. Although it is up to the national regulators whether or not to present this information, MMF was asked to provide detailed technical information about GARI implementation. This information was then sent to all national members of the BEREC End User Working Group.

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# GARI Outreach

#### Other updates and communications

- MMF received a **request from the Belgian regulator** who considers embedding a link to GARI.
- The Nigerian Communications Commission considers using GARI as official source for accessibility information regarding mobile phones. The issue is pending.
- Due to an Austrian arbitration process against an operator and one of MMF's members MMF supported working on an integrated response at the national level. As one of the plaintiff's arguments was that the operator sells mobile phones which are not accessible, spreading GARI news could help to fend off further claims.

2	GARI Outreach	
	Other updates and communications	
	<ul> <li>As part of the wider project of language expansion and development of GARI, MMF implemented a complete and extensive revision in the Spanish and Portuguese versions o GARI, uploading new revised translations, as well as the new tablets section.</li> </ul>	
	<ul> <li>The MMF has been discussing possible co-operation with the Consumer Electronics Association Foundation to allow their members to provide accessibility reports through GARI and for us to share the back-end. An outline of how this migh work in practice is attached.</li> </ul>	
	The MMF has also continued promoting the project to other possible companies including <b>Telstra</b> , <b>Vodafone Hutchison</b> , <b>Huawei</b> , <b>ZTE</b> and <b>HTC</b> .	
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