Tutorial on Audio Visual Media Accessibility

(New Delhi, India, 14-15 March 2012)

3a. Making television accessible – what is in scope and out of scope?

Peter Olaf LOOMS Chairman ITU-T FG AVA polooms@gmail.com



New Delhi, India, 14–15 March 2012 © Peter Olaf Looms 2012





Content What does this tutorial cover?

Media Approaches for TV usability Approaches for TV Access services

Outcomes What will I be able to do?

Answer some of these questions:

- What does the term "media" mean?
- What can we do to improve TV usability?
- How can we improve accessibility by offering access services?

It depends on who we ask...









Media = STORAGE media



Media = RECEIVERS or DEVICES







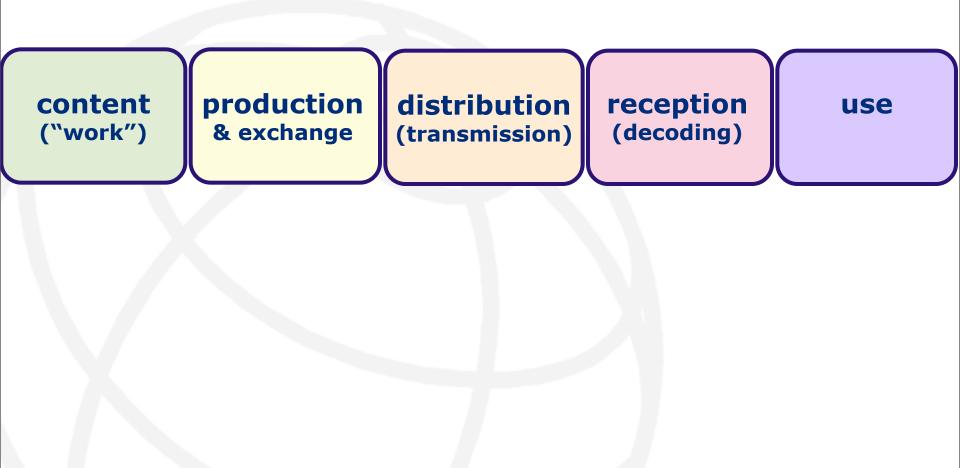


Media = RECORDED WORKS LUDWIG VAN

Media = Content



Media

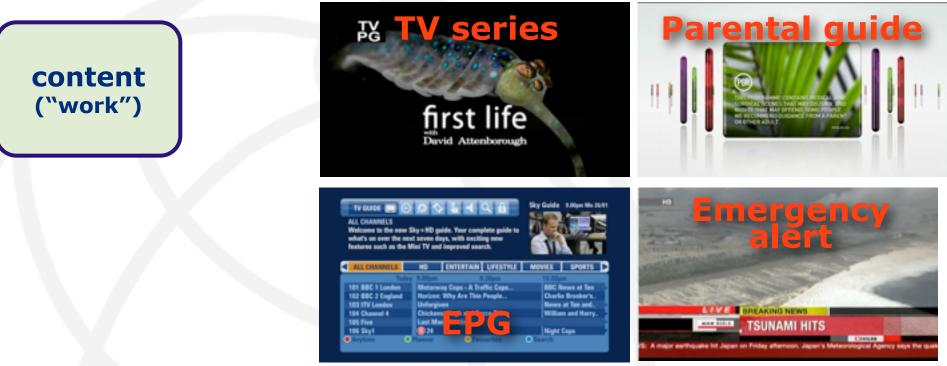


Activity 3: The need for accessible TV content

Work in pairs.

Discuss the accessibility of the following 5 examples.
In each case is accessibility...
...Need to Have?
...Nice to Have?

What does "TV content" mean?



What about accessibility here? - Need to have?

- Nice to have?

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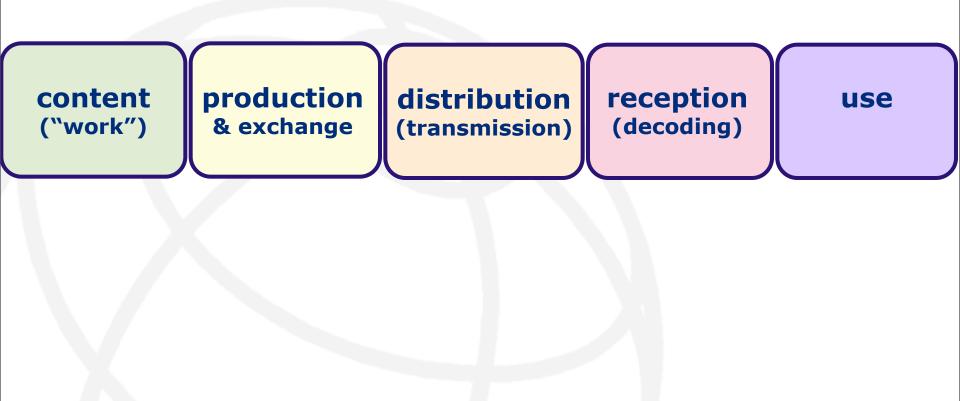
Activity 3: The need for accessible TV content

Content category	Need to have	Nice to have
TV series		
Electronic Programme Guide		
Parental guidance screen		
Emergency alert		
TV advertisement		

Activity 3: The need for accessible TV content

What are your conclusions?

What points are worth noting?



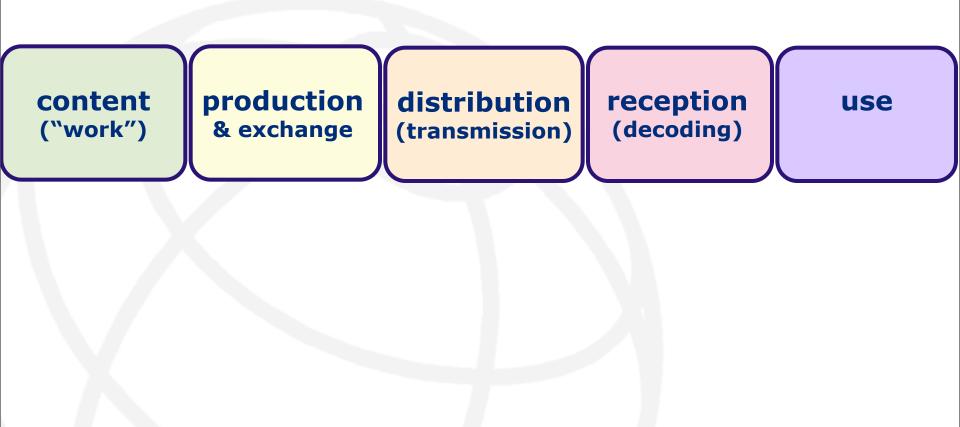
content
(``work")

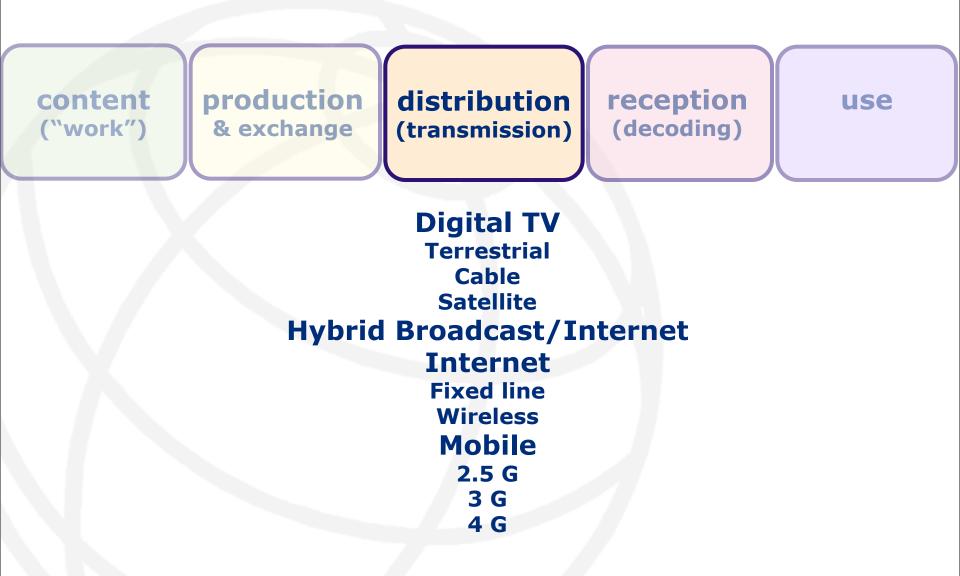
production & exchange distribution (transmission) reception (decoding)

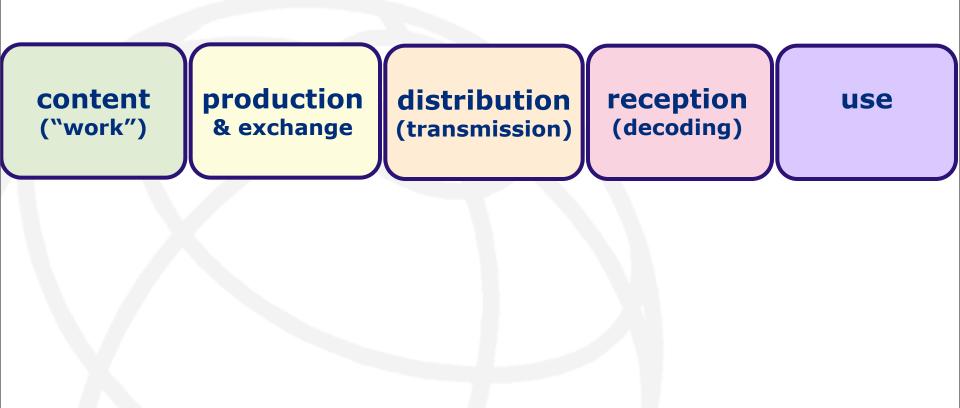
TV set Computer Lap-top Smartphone Computer tablet

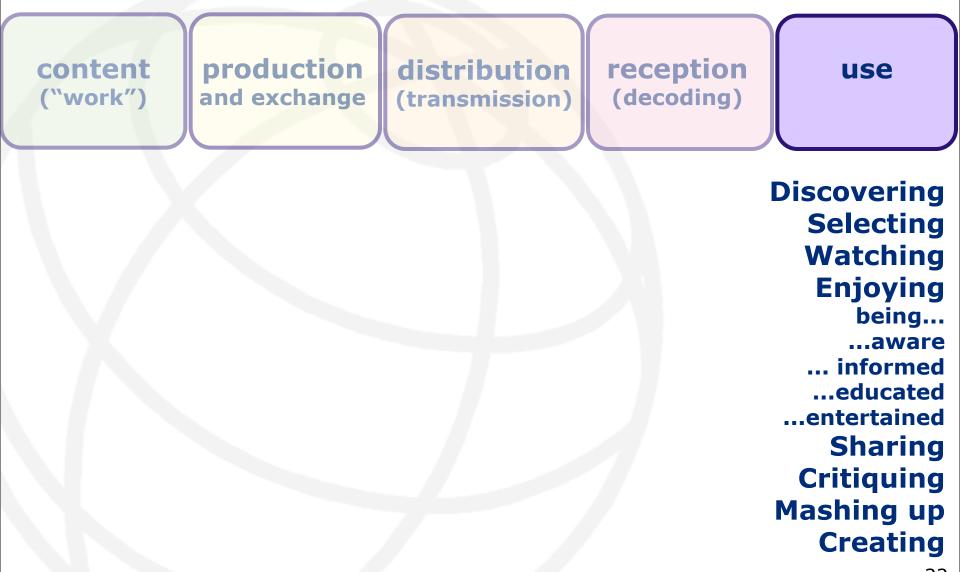
Main screen/second screen

Remote control Keyboard Touch interface Speech recogition Eye tracking use

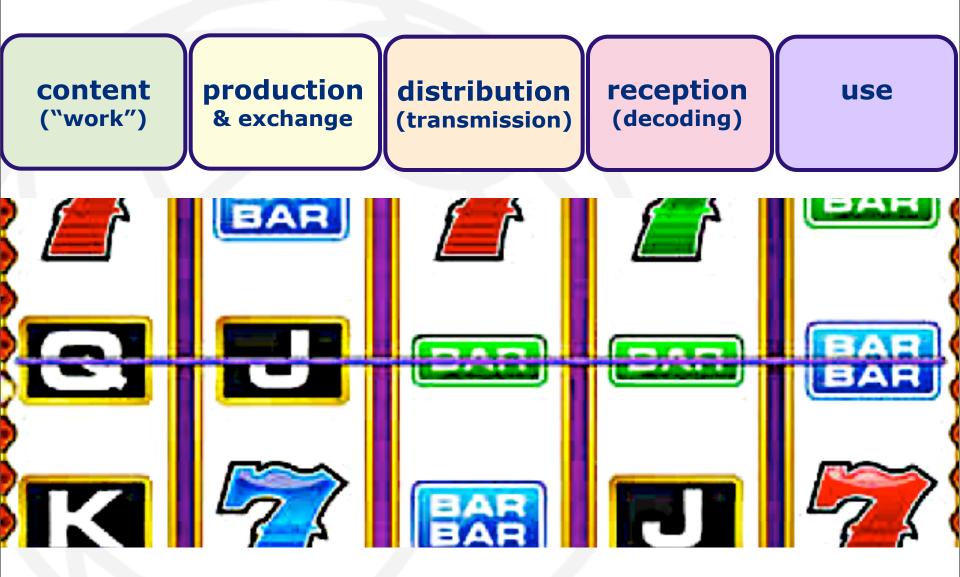








TV: the metaphor of a fruit machine



26 ans de prison
 Prêtres pédophiles
 Asile
 Gaz
 Ben Laden
 Réforme retraites
 Tsunami
 Coupe de Belgique
 Shooto
 L'image

tet editorial and production teams to review their current practices with a specialist

Retour de Cannes

Rail perturbé Hissel condamné Gangs de motards Organisations juives Nuit d'ivresse International Volcan islandais Sport L'image

The programme was given a make-over in 2011



Foto: TV 2

TV drama aims to be more natural Discuss intelligibility

Såvel kritikerne som seerne har generelt været enige om, at det er svært at høre.



Get editorial and production teams to review their current practices with a usability specialist

CRTC tells broadcasting industry to turn down the volume on loud television commercials

OTTAWA-GATINEAU, September 13, 2011

— Today, the Canadian Radio, television and Telecommunications Commission (CRTC) announced that broadcasters must control the loudness of TV commercials by September 1, 2012.

If action is possible in countries like Canada and Belgium we can do it elsewhere.

Massive destruction after factory explodes

Torsdag d. 4. nov. 2004 kl. 18:38 af kace (opd. d. 4/11 2004; 18:57)

Recommend Be the first of your friends to recommend this.





Is radio the key pilar of disaster management? What about TV and mobiles when there is a natural disaster?

Discuss the way in which disabilities are portrayed in the media



A programme for children about a boy who could live more or less like his sighted friends

A Janela da Alma/Window of the Soul A brazilian doc also on the Internet



No cignificant hanafita		User Groups					
 No significant benefits Minor benefits Major benefits 	Visual	Hearing	Physical	Cognitive	Ageing		
Text on TV screens							
The typeface is optimised to reduce confusion between letter shapes.	+	_	_	+	0		
The font is clear and legible	+	—	-	+	0		
Mixed case is used	+	—		+	0		
Italic, underlined, oblique, condensed or fancy fonts should not be used	+	_		+	0		
Flashing and scrolling text should not be used	+	_		+	0		
Text size should be a minimum of 24 lines high on a capital	+	_		+	0		
There is extra spacing between letters, words and lines	+	—	-	+	0		
There is generous inter-line spacing to minimise problems of visual tracking	+	_	-	+	0		

+ Visual	Hearing	Physical	Cognitive	Ageing
+				0
+	_			0
				U
+	_	_	_	0
+	_	-	-	0
+	_	-		0
-	++++	+ - + -	+ +	+ + +

	No Inc. 16 and the set of the	ι	Jser	Gro	oup	5
	 No significant benefits Minor benefits Major benefits 	Visual	Hearing	Physical	Cognitive	Ageing
	Subtitling					
	Subtitling are in a clear legible typeface	_	+	-	-	0
	The recommended colours of white, yellow, cyan or green against a solid black background are used	-	+	_	-	0
	The rate of subtitling is as close as possible to the rate of the spoken text whilst allowing for adequate reading time	-	+	_	-	0
	Subtitles comprise a single sentence occupying no more than two lines	_	+	_	-	0
	Subtitles are used to describe relevant non-speech information	_	+		_	0
	Where the source of speech is not immediately apparent, the first subtitle has a caption to label the source	_	+	-	_	0
	Different colours are used to denote different speakers	—	+	—	-	0
	The speed of subtitles should not normally exceed 160 to 180 words per minutes for pre-recorded programmes	-	+	-	-	0
© Peter Olaf Looms	The word 'Subtitles' should be displayed legibly on the screen at the start of the programme	-	+		-	0

No significant benefits Minor benefits Major benefits		User Groups					
		Hearing	Physical	Cognitive	Ageing		
Signing							
BSL is the default language used - ISL in India	-	+		_	0		
Interpretation and voice-overs of signed programmes are synchronised with the original speech / sign language	-	+	-	_	0		
Signed programmes are also subtitled	-	+	-	-	0		

No cignificant hanofita		User Groups			
 No significant benefits Minor benefits Major benefits 	Visual	Hearing	Physical	Cognitive	Ageing
Audio description					
Audio description describes characters, locations, time and circumstances, any sounds that are not readily identifiable, on-screen action, and on-screen information	+	_	_	_	0
Key features of characters are identified as soon as practicable, to help identify the person in the listener's mind's eye.	+	_	_	-	0
Use names (rather than 'he' or 'she') more often than in normal speech	+	_	-	_	0
Describe at the same time as the action occurs	+	_	—	—	0
Audio description does not encroach on dialogue, or sound effects unless really necessary	+	_	_	_	0
Audio description provides a real-time commentary, so is in the present tense	+	-	-	-	0
Periodic announcements should be made about programmes with audio description	+	_	_	-	0

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Activity 4: TV usability

Work in groups.

After each example, use the relevant checklist from Tiresia to discuss what can be done to improve TV usability
 Report back to plenum on your findings









You can then check the intelligibility of the audio by using the sample of this programme on YouTube!



Activity 4: TV usability postscript

- We can use "the Exclusion Calculator"
- We can use eye-tracking to see how different viewers cope with a given TV programme
- We will soon be able to simulate different kinds of viewers and identify where they have difficulty when watching TV (Dr. Pradipta Biswas, University of Cambridge).

Original web page Indian Railways Passenger Reservation Enquiry

	NDIAN RAILWAYS PASSE		QUIRY Home Hind: Version	CRIS
Availability at Illajor Stations Availability at Illajor Stations Train Schedule Tatixal Scheme Upgraded Passenger Scheme SHS Service Train Berth Availability New Train Number Note (w.e.f. 20/12/2010) Information Train Running Information Train Type Information View Codes Trains at a Glance Rules	Train Number : Day and Month : Source Station Code : Destination Station Code : Class : SLEE Age : Concession : None	Details to View Fare Details	UP TO 80 ON LUXURY O FASHION BRA FOR SMART	o/c off NHIGH NDS NDIANS
 International Tourists Other Railway Websites 	Note: New Train numbering scheme is to be effect Number ,Please <u>Click here</u> Click Here to know the Train Number	tive from 20/12/2010 for all types of trains.For Click Here to know the Benefit from our Online tracking service	10	

Visual Impairment Simulation

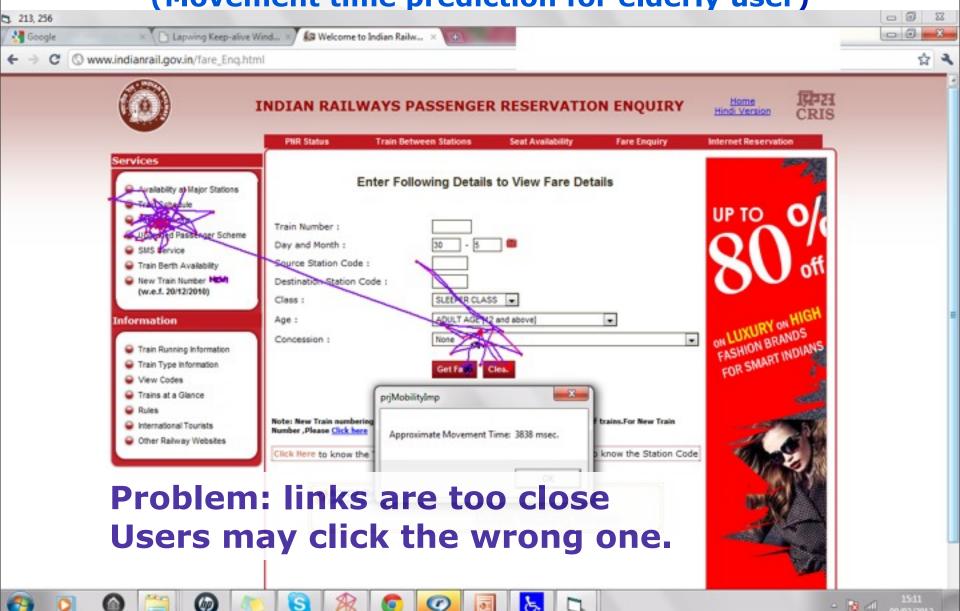
(Early Wet Macular Degeneration + Colour Blindness)



Problem: Insufficient Fontsize for links on left hand side

6

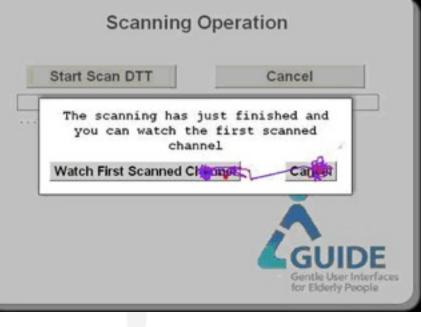
Motor Impairment Simulation (Movement time prediction for elderly user)



Design Optimization

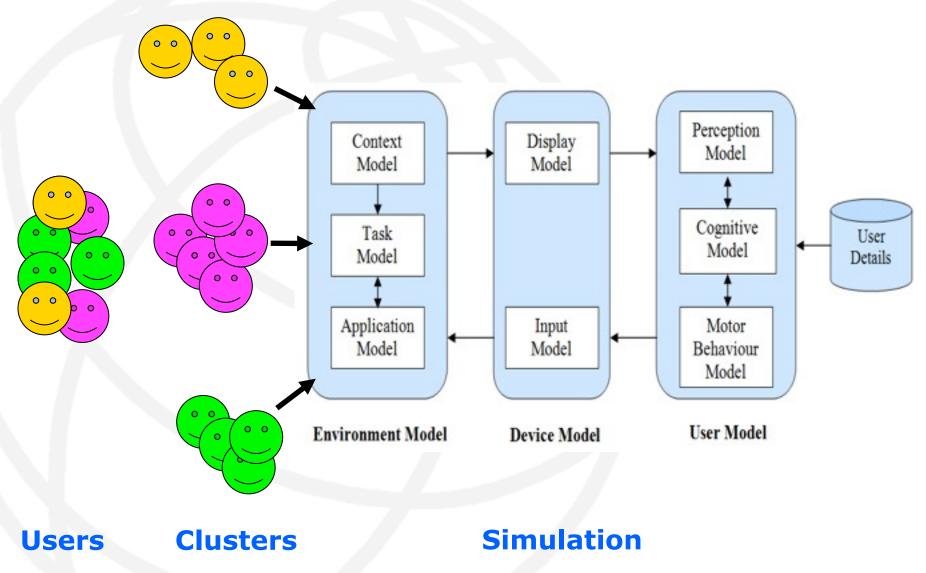
_	Start Scan DTT Cancel	
	The scanning has just finished and you can watch the first scanned channel. 	

Original



Optimized

Simulation to develop better interfaces



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Cambridge Simulator

Dr. Pradipta Biswas University of Cambridge pb400@cam.ac.uk

Activity 4: TV usability

What are your conclusions?

What points are worth noting?