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**ITU REGIONAL WORKSHOP ON ICT  
ACCESSIBILITY FOR PERSONS WITH  
DISABILITIES FOR AFRICA REGION**  
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**DAISY; the best way  
to Read and Publish**

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**&**

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***Committed to connecting the world***

## DAISY, WTISD Award Laureate 2008

- DAISY, Digital Accessible Information System, supports implementation of WSIS Plan of Actions and CRPD
- Direct beneficiaries of DAISY:
  - Persons with print disabilities\*
  - Speakers of minority languages
  - Speakers of indigenous languages without written scripts
  - Those who are illiterate

# DAISY is the Best way to Read and Publish

## ■ Vision:

Everybody in the world including persons with print disabilities have equal access to information and knowledge, without delay or additional expenses.

## ■ Mission:

To develop and promote international standards and technologies which enable equal access to information and knowledge by all people including those with print disabilities and which also benefit the wider community.

# DAISY Consortium

- is a world-wide network of libraries, publishers, and technology companies
- is committed to open source
- fosters innovation and collaboration
- develops and maintains the international DAISY Standards
- develops baseline software to promote the creation of tools that support access to DAISY media
- supports and encourages its membership around the globe ([www.daisy.org/members](http://www.daisy.org/members))
- collaborates with disability communities and international organizations such as W3C, ITU, IFLA, WBU to further its work around the world

# DAISY Consortium members

- Founded in 1996: 6 members of IFLA/SLB
- Today July 2008:

16 full member organizations, 55 associate members, 23 for-profit-company friends and 8 individual supporters.

DAISY is produced and served in the following 45 countries.

- Albania, Australia, Bangladesh, Belgium, Brazil, Cambodia, Canada, China, Colombia, Croatia, Cyprus, Denmark, Egypt, Finland, France, Germany, Ghana, Greece, Iceland, India, Indonesia, Italy, Iran, Ireland, Japan, Jamaica, Kazakhstan, Laos, Malaysia, Netherlands, New Zealand, Norway, Pakistan, Russia, South Africa, Korea, Spain, Sri Lanka, Sweden, Switzerland, Thailand, Turkey, United Kingdom, USA and Vietnam

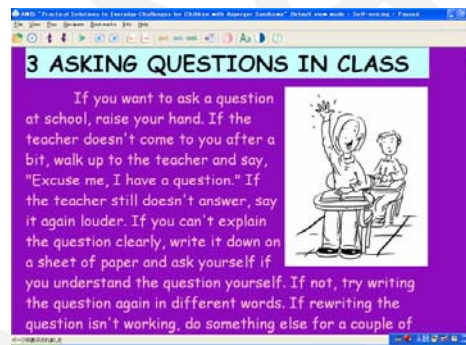
# Demonstration: sample contents to be played by AMIS

- I have a dream: audio-based book
- Yag ville: effective use of comics
- Practical solutions...: narrated by author
- HIV/AIDS training manual of Disabled People South Africa: DFA Project
- Tsunami Evacuation manual: hand made manual by people with pshychiatric disability

# Reading needs met by DAISY

- *contained on a single medium (CD, flash card, etc.)*
- *single button stop and start*
- *last point read is retained for multiple books*
- *navigation by headings*
- *sleep function*
- *bookmarking*
- *word searching*
- *"go to page" functions*
- *speed up and slow down of audio with no audio distortion*
- *navigation by headings and pages*
- *optimizing visual presentation including font size and color contrast*

# DAISY Players and users



# DAISY Production Tools

- Full featured authoring tools
  - Free for not-for-profit production
    - SigtunaDAR3 (2.02), TOBI (Free Open Source)
  - Commercial production tools
- Conversion tools
  - Free open source
    - Save as DAISY Translator from Word + Pipeline
  - Commercial
- Audio based production tools
  - Free for not-for-profit production
    - My Studio PC (2.02), OBI (Free Open Source)
  - Commercial production tools

# DAISY Playback Tools

- Audio only Players
  - Stand alone
    - CD
    - Solid state memory
  - Network
- Software Player
  - PC/PDA software
    - [AMIS](#), TPB Player, TAB Player, &c.
  - Mobile phone software
- Impact of [SMIL 3.0 "DAISY Profile"](#) for multimedia player

# DAISY Standards

- support the creation of reading materials that let the reader access the content in a meaningful and useful way
- are open and based on existing open standards such as those from W3C
- are evolving:
  - *DAISY 2.02, the most widely adopted access technology for reading in history: based on SMIL 1.0*
  - *DAISY 3, officially, the ANSI/NISO Z39.86 Specifications for the Digital Talking Book: based on SMIL 2.0*
  - *“ZedNext” - continued development for the next DAISY Standard: to be based on SMIL 3.0 “DAISY Profile”*

# DAISY Standard Maintenance

- DAISY standard (ANSI/NISO Z39.86) is reviewed every 2 years by the DAISY Consortium
- Open requirements gathering through <http://www.daisy.org/z3986/requirements/>
  - ex. sign language support requirements posted by Swedish [SIT and comments](#)
- Promoting user participation through requirements gathering

# User requirements harmonization

- Sometimes user requirements conflict each other at least at a glance  
ex. alt-text vs alt-graphics
- Technology development to achieve a break through is always required to seek best harmonization with existing accessibility standards
- Full participation of users with all types of disabilities in use case development with best sensibility on gender, age, culture, language and geographical background is key to successful standard development

# DAISY Users

- who are Blind or low vision
- who are deaf or hard of hearing
- who have difficulty to handle printed books
- who are with cognitive or intellectual disabilities
- who are with psychiatric disabilities
- who are in temporary situation that prevents sharing of knowledge and information in print format
- who are with age concerned reading difficulties
- who are illiterate
- who requires structured access to oral legacy in languages without a written script

# Universal Design and Assistive Technologies

- DAISY contents is a set of electronic files based on DAISY standards built on existing standards
- Users may have access to the same contents depending on their preference and environment
- Wide range of services and tools including assistive devices may provide users with equal access to information and knowledge through optimized channel
- DAISY Global Library will increase opportunities to provide equal access to information and knowledge everybody, anytime, anywhere with no extra cost but users may select the device of their choice
- WSIS and CRPD promote universal design concept which collaborate with assistive devices to bridge the digital gap
- DAISY supports WSIS/CRPD universal design principle

## International Collaboration

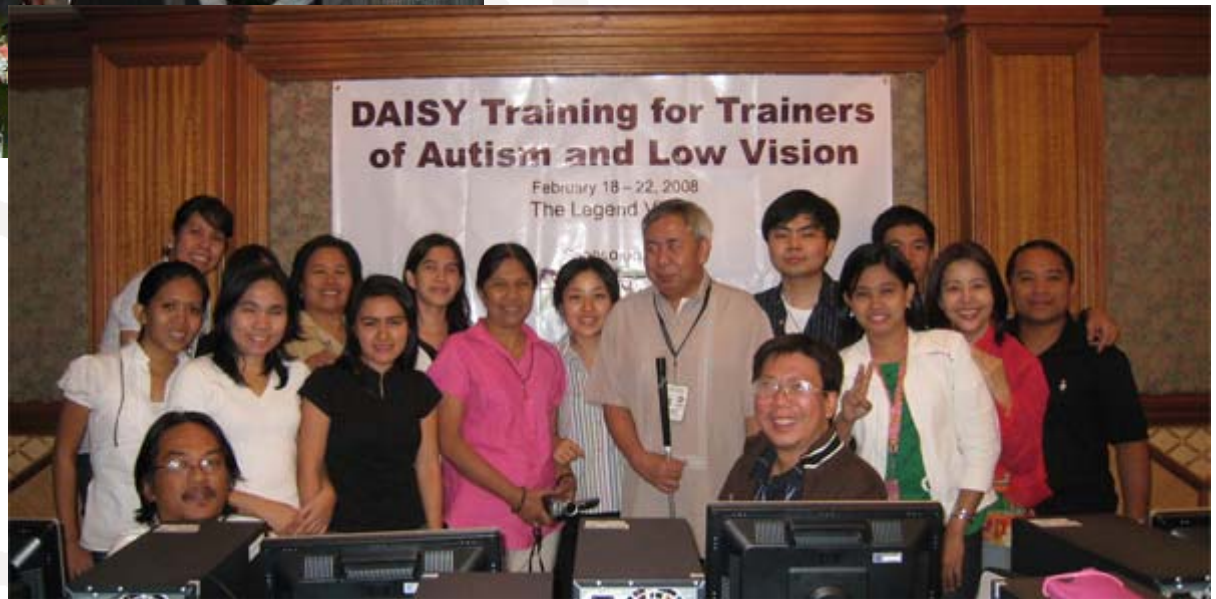
- WSIS Civil Society Disability Focal Point and follow-up
  - Workshop on Accessibility, IGF
  - Strategy Council GAID
  - Phuket Conference on Tsunami Preparedness of Persons with Disabilities
  - AIDS manual in South African languages
  - Indigenous knowledge networking
- DAISY for All Project
- Tackling global issues through accessible knowledge (disasters, education and health)

# Disability Caucus in WSIS



Lusaka, Zambia, 15-16 July 2008

# DAISY for All in Developing Countries



.. Lusaka, Zambia, 15-16 July 2008 ..... [www.itu.int/ITU-D/sis](http://www.itu.int/ITU-D/sis) .....

## Conclusions

- DAISY is a standard developed and being maintained by the DAISY Consortium in collaboration with persons with print disabilities to bridge the digital divide and realize digital opportunities
- Universal Design (digital contents in DAISY format) in combination with assistive technologies (dedicated playback tools) is the best logical and practical solution to share information and knowledge for everybody including persons with disabilities
- Critical issues of the whole community, such as disaster preparedness, AIDS treatment or pandemics prevention, are best subjects to tackle through knowledge based approach powered by DAISY
- Global dissemination of DAISY standards is crucial to implement WSIS Plan of Actions and CRPD

# Contacts of Speakers

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