

**ITU-EBU Joint Workshop on Accessibility to Broadcasting and
IPTV ACCESS for ALL
(In cooperation with the EU project DTV4All)
Geneva, 23 – 24 November 2010**

Signing Solutions

**Andrea Del Principe
RAI – Research Centre
Turin, Italy**

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- **Enjoying TV with friends and family**
 - **The ATLAS project**

Enjoying TV with friends and family

- Current situation: LIS interpretation service is limited to few programmes, often broadcasted at unsocial hours



Portable Access Services

- Video signing, subtitles, audio description etc. shown on a hand-held device e.g. a smart phone.
- A portable device can be used in a wide range of situations



...at the station



...at home



...at the museum

Enjoying TV with friends and family



The deaf user can watch a TV programme, together with hearing people, following translation or subtitling on a personal device.

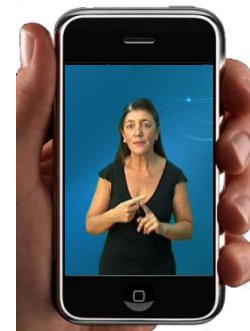
Service broadcasting scenario 1

Broadcaster Side

- Regular programme broadcasting
- Streaming of the sign language translation on the Internet



Hand-held device
Connected via Wi-Fi
To the internet



Service broadcasting scenario 2

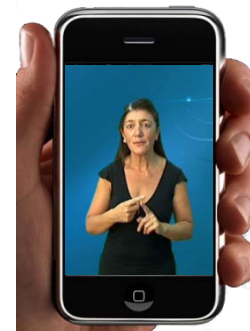
Broadcaster Side

- Regular programme broadcasting
- Broadcasting of video signing in the DVB mux (IP over DVB)



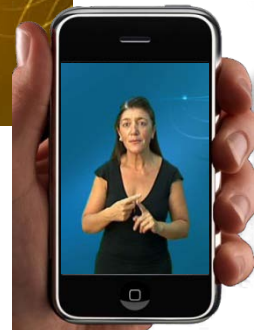
Custom decoder:
decode IP information
and provide it to a Wi-Fi router

Hand-held device
Connected via Wi-Fi
To the local network



Additional Features

Different speaker can be identified with different backgrounds



Research and investigation

- Development of a custom player on the mobile device
- Synchronization issues
- Ergonomic issues