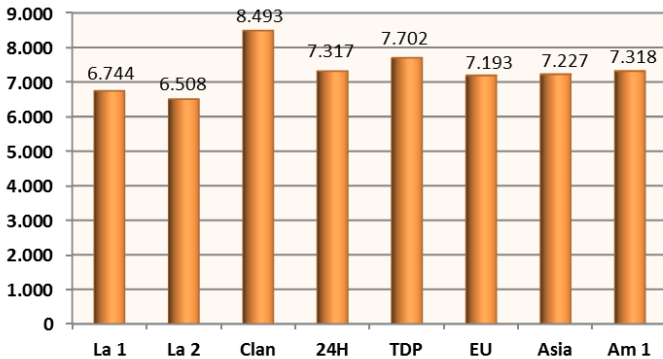# HBB4ALL Workshop 2015
Smart Accessibility on Connected TV
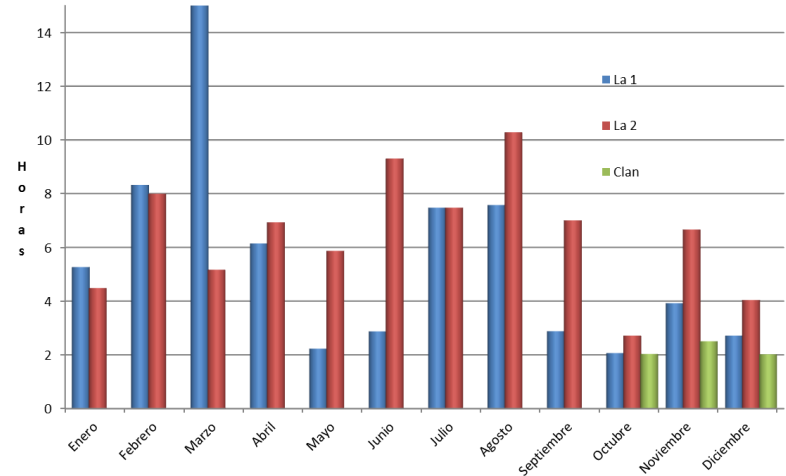
Approaches to connected TV

We, at RTVE, are committed with the accessibility.:

- In number of hours of subtitling
- In number of hours of audio description
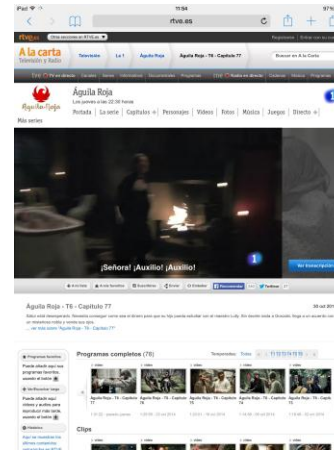

Horas subtituladas 2014 por cadena

Audiodescripción 2014 por meses y cadenas

We developed an important activity in this topic:

- Offering accessibility across different devices

We developed an important activity in this topic:

- Incorporation of audio description as a flow in the DV signal:
    As an additional audio channel
- Operating now in:
    La1, La2 y Clan (coded in MPEG-1, Layer 2, mono, a 96 Kbs)
    La 1 HD (coded in Dolby Digital +)

Technical developments to support accessibility

We developed an important activity in this topic:
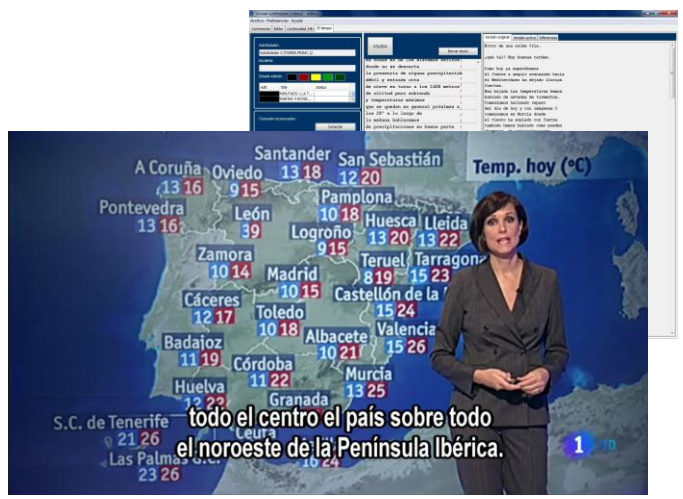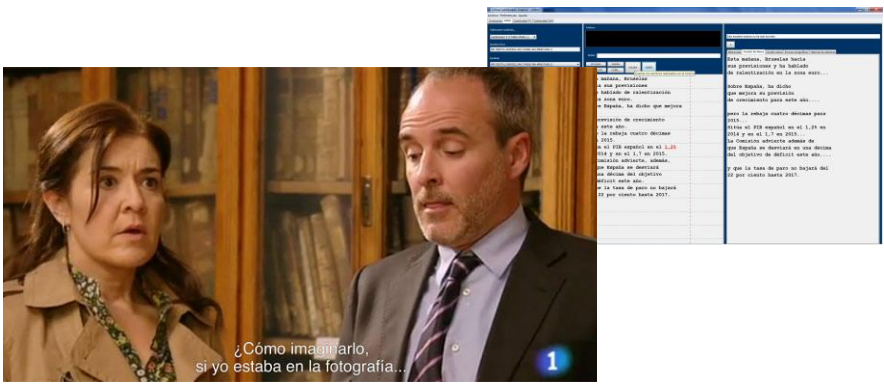
- In technical developments to support this activity: Tools for voice to text conversion.

Technical developments to support accessibility

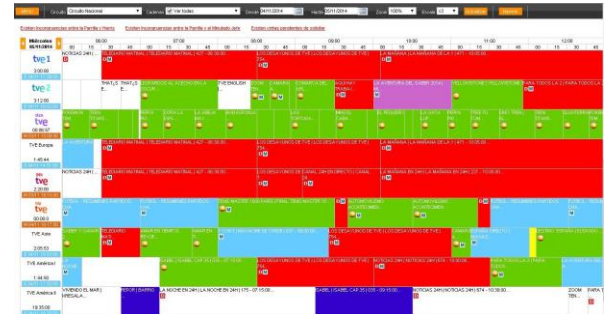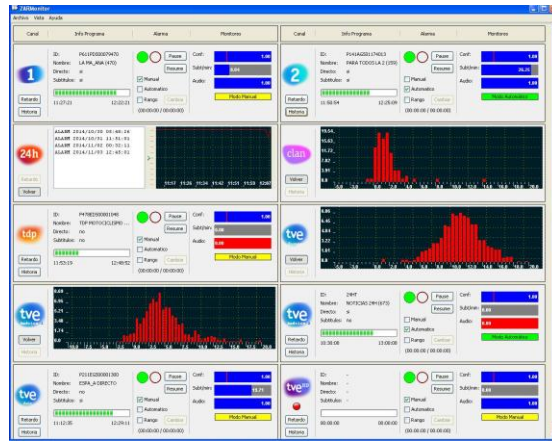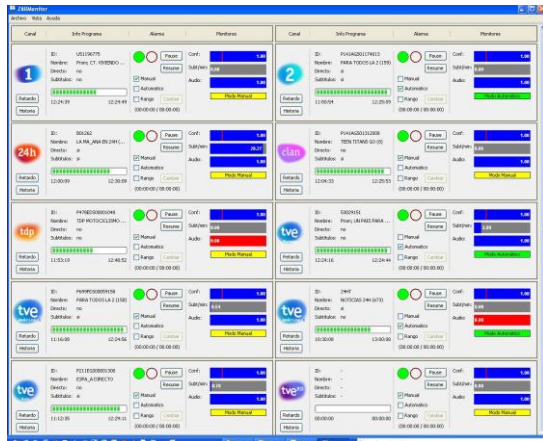## We developed an important activity in this topic:

- In technical developments to support this activity: voice to text conversion and synchronization tools

Technical developments to support accessibility

We developed an important activity in this topic:

- In technical developments to support this activity: supervision and QA tools

We are also very active in HbbTV
- We have a RTVE's brand: "BOTON ROJO"
- With a wide service
- Currently are accessing this service in the order of half a million unique users

We are also very active in HbbTV

- We have a RTVE's brand: "BOTON ROJO
- Two different portals: one generic

We are also very active in HbbTV

- We have a RTVE's brand: "BOTON ROJO"
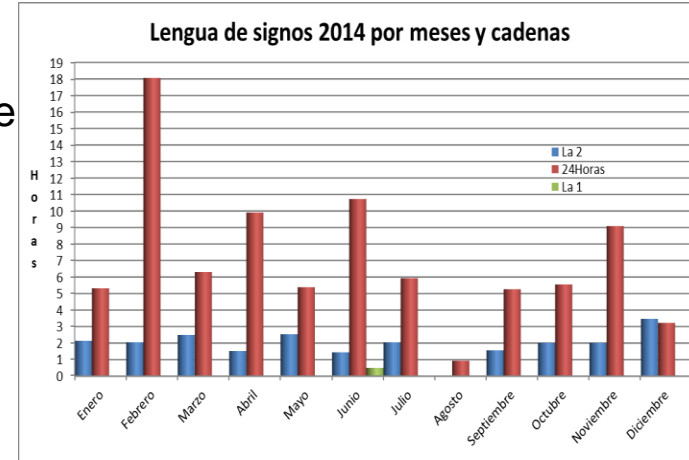- Two different portals: one specific for the children channel

Smart Accessibility on Connected TV
New open possibilities in sign language

We have had many difficulties in developing adaptation in sign language within the traditional broadcast environment

- It is difficult to embed additional content permanently
- There are problems of bandwidth to send sign language in different channels TDT
- There are problems that TVs can´t show appropriately picture in picture
- We have made several attempts, which have unfortunately been unsuccessful

Lengua de signos 2014 por meses y cadenas

Smart Accessibility on Connected TV
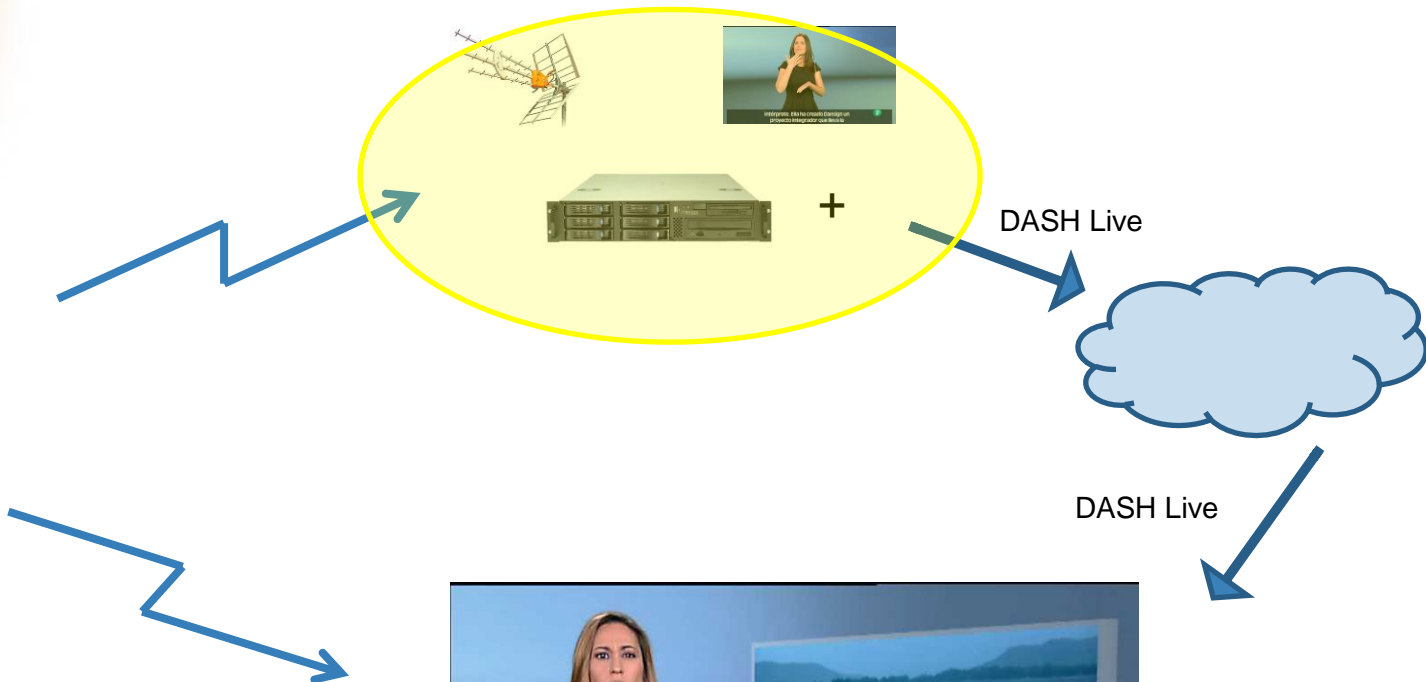# New open possibilities in sign language

We think the combination of DTT and HbbTV will solve these problems and will facilitate the implementation of sign language on TV

- Although some problems remain unresolved.

  o Synchronization
  o Implementation of DASH format (to allow streaming in broadband to the receiver)

Smart Accessibility on Connected TV New open possibilities in sign language

DASH Live

DASH Live

Smart Accessibility on Connected TV
New open possibilities in sign language

We (with UAB and ANGLATECNIC) try to show in this forum:

- Some results. Live sign language, in Hbb TV, DASH (If we can)
- Our support and our commitment to continue developing this line to adequately address this problem.

HbbTV

rtve

Our goal here is collaborate to "normalize" the presence of sign language in our regular broadcasts.

thank you

pere.vila@rtve.es