





Hybrid Broadcast-Broadband distribution for new video services

A use cases perspective

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THE H2B2VS PROJECT







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Project objectives

Hybrid distribution of TV programs and services over

- Broadcast network (terrestrial, satellite, cable) and
- Broadband network (ADSL, fibre, mobile, ...),

By making use of a new compression technology: HEVC



Project summary



Demonstrators



USE CASES





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All Use Cases are HYBRID Use Cases



Main information is sent by the Broadcast network



Additional information comes through the Broadband network

- Scalable video
- Additional/better audio
- Personalized contents





Four categories of Use Cases



Picture quality improvements



UltraHD HEVC programs







Customized TV

Additional Audio Services



Better quality Other languages

Content personalization



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Multi-camera End of a drama Personalized advertising

H₂E

Trick modes on broadcast programs

Educative applications for







PIP & 2nd screen

PIP Use Cases

Follow-up of another program



Sign language



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2nd screen Use Cases



Alternative/additional content from the main program to the 2nd screen

Live betting





Networks improvements





All Use Cases use the TEMI synchronization



Collaboration with other bodies



BUSINESS MODELS







6 different Business models were identified



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6 different Business models were identified



Live Betting



6 different Business models were identified



us

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Advertizing Personalization



6 different Business models were identified

Services sponsored by Public Authorities





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Sign language translation



6 different Business models were identified

Services paid by the Broadcast Network Operator

Services paid by the TV channel

Services paid by the bouquet operator

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Trick modes for live content



TWO EXAMPLES OF USE CASES WHICH WILL BE IMPLEMENTED



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Trick modes for live content

- Greg is watching a program of TV+ on a large screen TV set which is connected to internet
- A pop-up appears at the right up corner indicating that Greg can navigate in the content
- Greg press the blue button of its Remote Control Device and control keys appear at the bottom of the screen



Scalable 4K content

• Bob is watching one of his favorite terrestrial TV channels on his brand new UHD TV set which is also connected to Internet

• The football match is just starting in HD quality

• A pop-up appears in the corner of the screen inviting him to watch an UHD version of the match.

 He agrees and he is directed to a web portal which proposes to buy 2 € a UHD version of the match

• He uses his credit card to purchase the UHD programme and the full UHD picture quality appears on the screen







THANK YOU!

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THOMSON

VIDEO NETWORKS





