

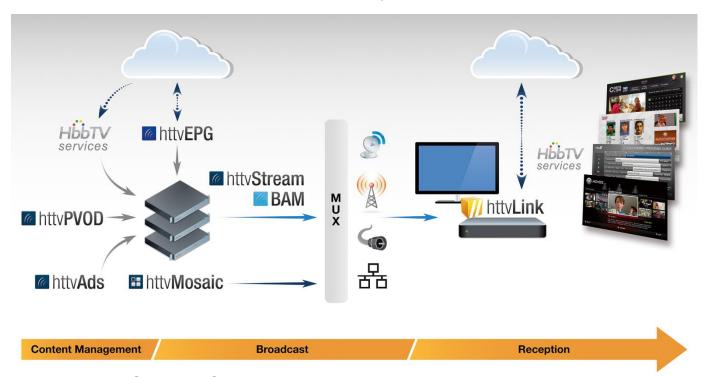
# HbbTV: Introduction Régis Saint Girons

HTTV CEO
Vice-Chairman HbbTV Marketing Group

## HTTV – High Tech TV



- Technology provider for interactive Digital TV
  - Connected TV solutions based on HTML5 and HbbTV
  - Hybrid TV OS and Head End Play Out Server



- International implementation
  - French Headquarter since 1999, Singapore office since 2011

# Connected TV, two separated worlds httv



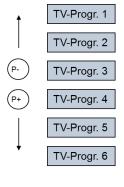
#### **Broadcast Context**

- → Program lists
- → linear TV
- broadcast links

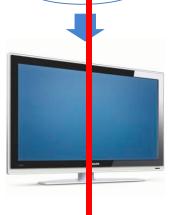


#### Internet context

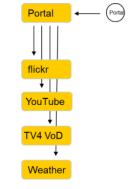
- → Portals, TV Apps
- On demand
- → Broadband links











## "Smart TV" – Just an Example





- VOD
- App Store
- Recommendations
- advertisement
- Access to "media"
- TV

## Challenges for Broadcasters







How to get onto the portals?

How to get found in the portals?

How to adapt service for each portal technology

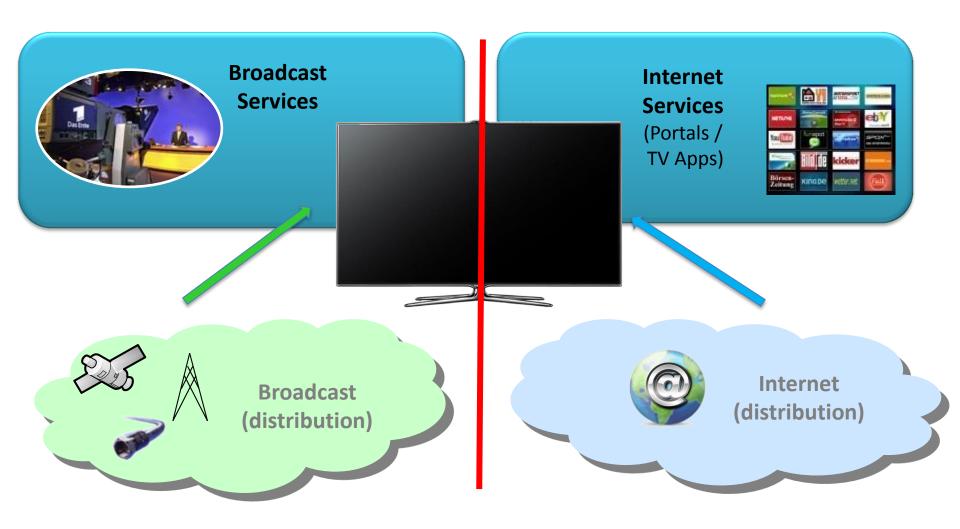
How to connect linear broadcast to non-linear services?





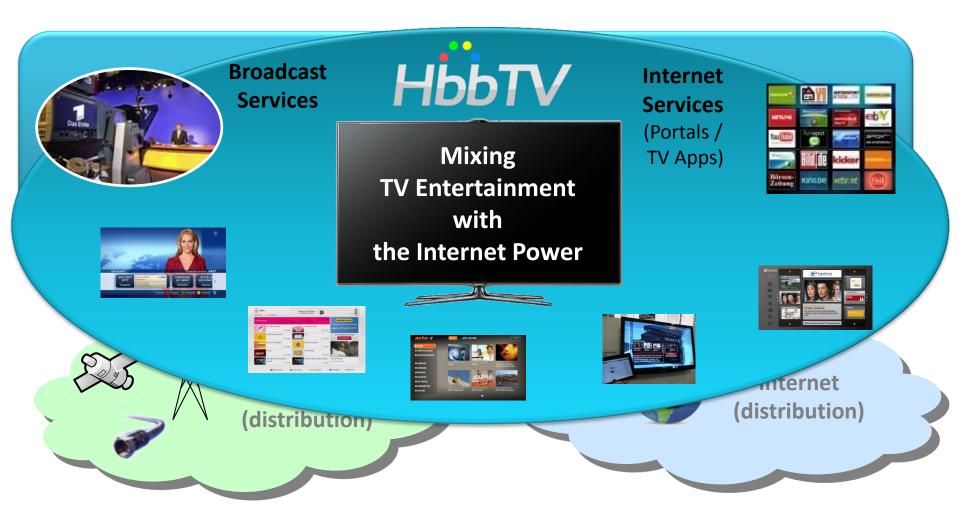
## From Connected TV to .....





# ... HbbTV – a new paradigm





## <u>Hybrid broadcast broadband TV</u>



- Broadcaster & TV Manufacturer initiative
  - Moving to Pay TV
- Combines the best of Television and the Internet
  - Gives the broadcasters control over the internet
  - Gives the user the best service access through TV channels
  - Provides service interoperability over any HbbTV devices
- The most deployed open interactive TV standard

# HbbTV key goals





Broadcast remain anchor for service usage



No portal needed, No central gatekeeper



Independently maintain brand and UI design



Fast application development by using a web browser



Data transmission in broadcast, Broadband not essential

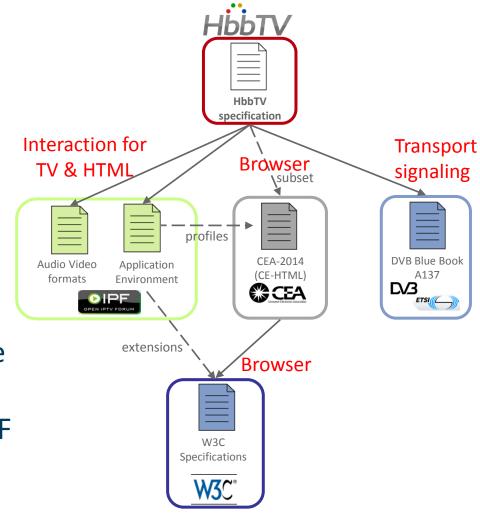


Limited receiver extra cost compared to basic HDTV STB

# The Key Building Blocks

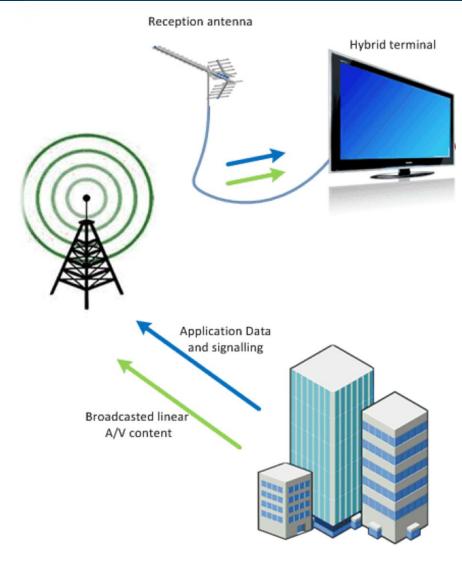


- Start from mature & stable technology
  - HTML Web standards
  - DVB DSM-CC object carousel
- Mix in elements from other work where necessary
  - Application signaling & lifecycle management as used in MHP
  - JavaScript APIs for TV from OIPF
  - MPEG-Dash Profile



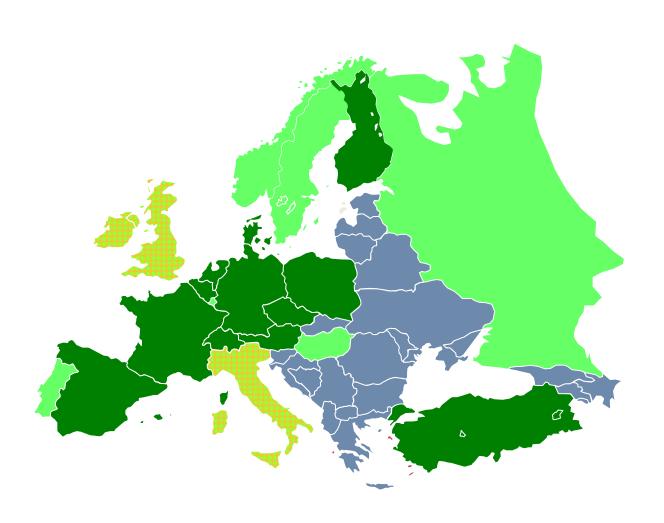
#### End to end architecture





# HbbTV deployments in Europe





in regular operation

announced / trials

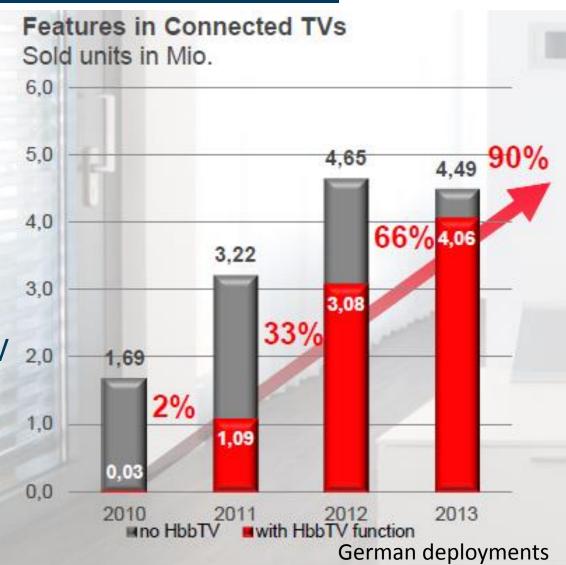
no information

other plans

# Fast HbbTV device deployments



- Over 20 Million devices
  - 10 Million devices sold in Germany
- Mix of TVs and STBs
- Technology established in 3 years only
- 90% of Connected TV sold in Europe are HbbTV



Source SevenOne media

# HbbTV usage figures (Germany)

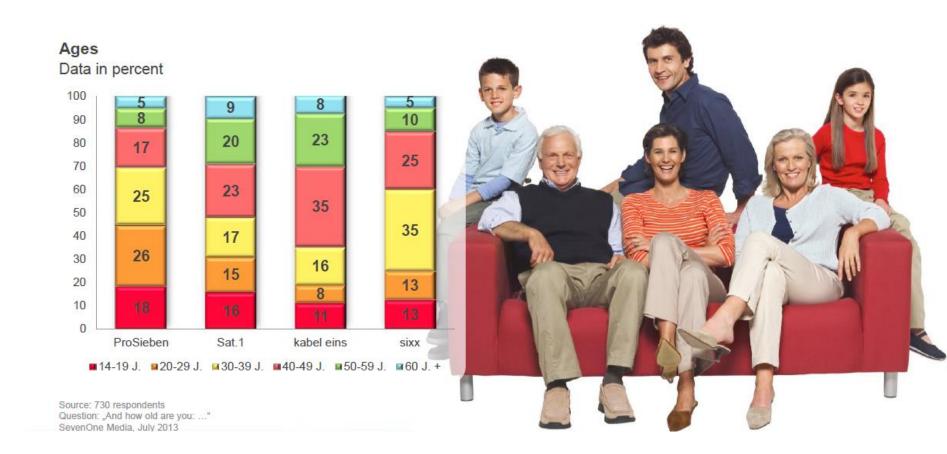




Source: Internal Tracking SevenOne Media

#### HbbTV is used by people from any Age







# **HbbTV** Worldwide deployments





2011-2013: Europe, Middle East

2014-2015: Asia Pacific

**Next: Africa, USA, China** 

## Deployments outside Europe



#### Australia and New Zealand



 Freeview in Australia and in New Zealand have announced to move from MHEG5 to HbbTV in 2014 on Terrestrial and Satellite

#### USA



 ATSC is in active liaison with HbbTV to use the technology as part of ATSC3.0.

#### ASEAN



- Malaysia and Vietnam are specifying HbbTV as part of their DVB-T2 launches
- Other countries... are actively considering HbbTV for their Terrestrial Analog Switch Off

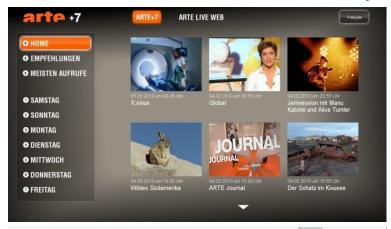
#### Africa

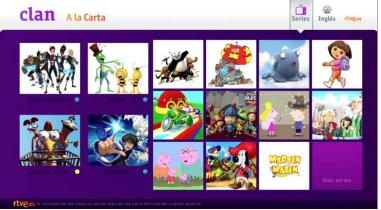
- ASBU (Arabic States Broadcast Union) has specified HbbTV for their Analog Switch Off
- CEDEAO (West African French speaking countries) has also specified HBBTV for their ASO
- Sentech (South Africa) is testing HbbTV over satellite

#### Catch-up, Start-over, VOD services



- 7 days catch-up (ReplayTV) into the past
- Start-over the most used service in France
- Available on both free and premium channels





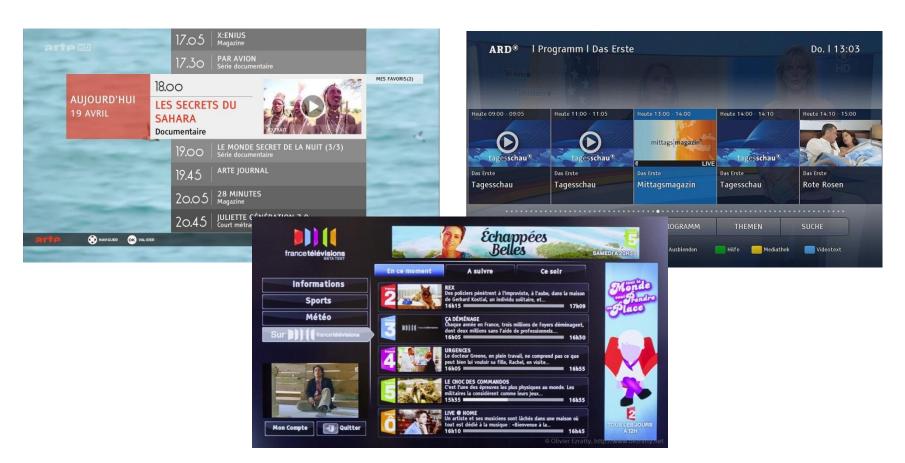




#### **EPG**



- Entire program offering: linear and on-demand
- 7 days into the past
- Can be shared across all channels from the same broadcaster



#### Information services



- High usage in Europe (several million users per day)
- Keeps the established and well known UI (numbered pages)
- Web-based technology offers lots of Internet features

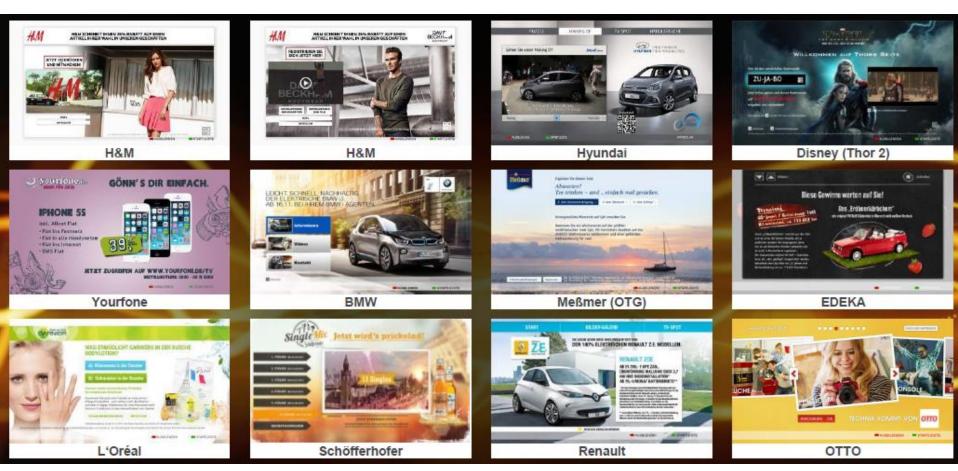




# Advertising campaigns



- Microsites user experience
- Improved Brand Awareness



# Improved Accessibility



- Change font sizes for readability
- Sign language via additional stream







#### Education



- Enhanced Live TV Programs with interactive education service
- On demand education programs (VOD or Push VOD)



### HbbTV Moving to Pay TV networks



- Deployed on satellite with embedded CAS
  - HD+ SmartTV, Fransat
- Deployed on Pay TV Cable
  - KabelKiosk (Germany)
- On going deployments to replace legacy PayTV middleware with HbbTV
  - Digiturk and more to come in 2014 including Cable and IPTV networks
- Moving to IPTV
  - KabelKiosk and DT (trial)
  - Considered by PayTV operators to access Free To Air HbbTV services (IPTV Telco operators in France)

#### Network Operator HbbTV services



- Making Network operator's HbbTV services coexisting with the Broadcast HbbTV services
  - Kabelkiosk, Fransat example



#### Live demonstration





#### Thank You

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