# **Sofiadigital**

# HbbTV - with examples

18 Jun 2014 HbbTV Symposium, Singapore



## Sofia Digital – Some of the Company Milestones in Digital TV

- 1998 Finnish digital-TV operators started a research project to bring interactive digital TV to Finland.
- 17.5.2000 Company was established as a spin-off from the research project.
- 8/2001 World's first MHP services started in Finland based on Sofia Digital's MHP products.
- 1/2002 First set-top box user interface project. Customer Nokia.
- 7/2003 First major MHP product delivery to Italy. Customer Mediaset.
- 11/2004 Merger with the Finnish mobile technology company Outer Rim Ltd.
- 4/2005 First major set-top box testing platform delivery. Customer Italian Ministry of Communications.
- 3/2006 DVB-H mobile TV product portfolio released and presented together with Nokia.

- 12/2006 Selected as a Cable Ready test service custodian in Finland
- o9/2007 "Best of IBC" Industry Award for Sofia Backstage<sup>®</sup> Mobile Television product
- 03/2008 First major mobile TV product delivery to Digita in Finland
- 11/2008 TV broadcast automation system to SBS Voice
- 10/2009 Mobile Teletext consumer application in OVI Store
- 6/2010 Selected as an Antenna Ready test service custodian in Finland
- 10/2011 First Digital Signage system delivery to Citymarket retail stores in Finland
- 6/2012 Finland's first HbbTV services started and powered by Sofia Backstage<sup>®</sup>
- 9/2013 First international HbbTV product delivery to Antenna Hungaria
- 5/2014 STB delivery project to Vodafone Iceland with Middleware localization



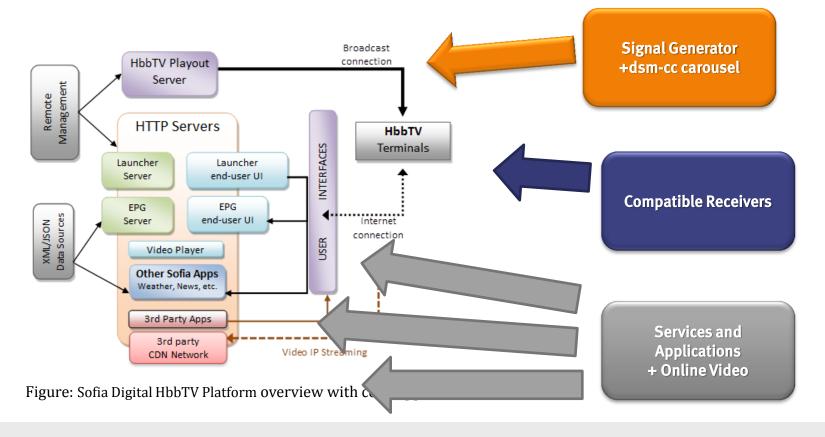
## Sofia Digital – International deliveries and projects



4



# HbbTV system high-level diagram of "ecosystem"





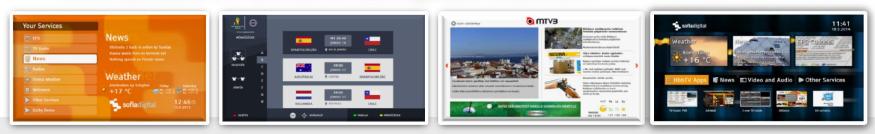
# Why HbbTV is needed, isn't it just one more HTML Browser?

Need for specialized apps for support TV-business purposes

- HbbTV enables to control the TV-signal and Internet content in the same screen
- Same application may control OTT and linear DVB-content
  - The "red button" functionalities are misssing in TV-apps or www-browers

# - HbbTV is designed to enrich the "TV experience"

- Push dynamic content over TV-screen
- Same content can be viewed in ALL HbbTV devices
- Seamless integration between Broadcast and Broadband video delivery
- Since 2013 the HbbTV is available for every well-known new Smart TV units in European market!



# 6 WHY НВВТУ



# What HbbTV can enable?

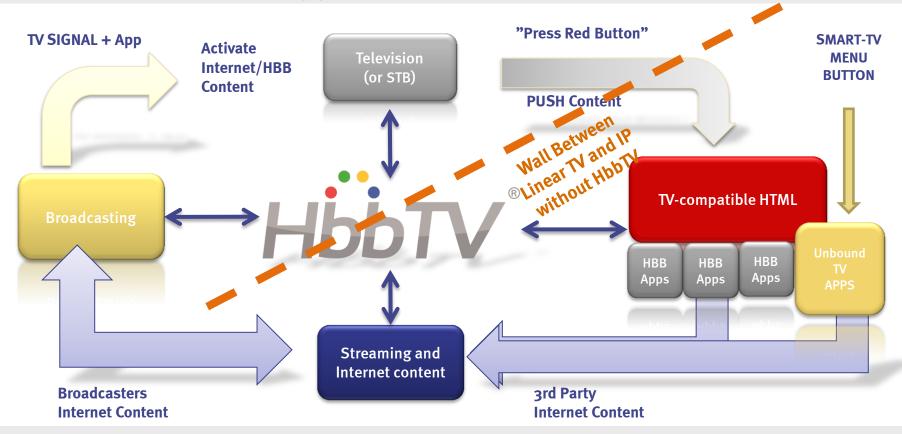
- Production houses and content owners
  - Way to make new interactive TV formats
  - On-screen promotions of new productions
- TV Broadcasters
  - New revenue models (Internet models adaped to TV environment)
  - Alternative secondary content delivery network (on-demand and linear delivery)
  - Interactive TV-overlays and "Red Button"
- Network operators
  - Virtual channels in DVB & OTT
  - Data broadcasting
- PayTV operators
  - Promotional content with on-demand purchases
  - Customer self-care (transactions)

### **HBBTV NOTE BOARD:**

- Local Smart-tv Ecosystems
- OTT without STB
- No supplier lock-down
- Compatibility with existing Internet infrastucture
- Freedom to select receiver from open market
- Cost savings



# HbbTV relation in TV apps





# **HbbTV and Internet**

- Linear TV (TV receiver with tuner)
  - Teletext
  - Pay-TV
  - Ad breaks
  - Local PVR



Fight between delivery platforms



- Networked Services
   (Internet devices)
  - MobileTV
  - Participation TV
  - On-demand Videos
  - Cloud PVR







# HbbTV adoption status in 2014

# in regular operation announced / trials no information other plans

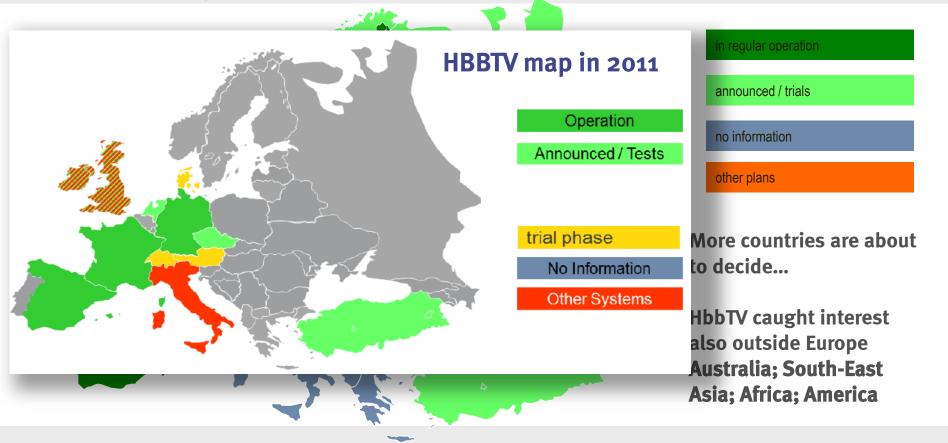
More countries are about to decide...

HbbTV caught interest also outside Europe Australia; South-East Asia; Africa; America





# **HbbTV adoption status**



# HBBTV APP SCREENSHOTS



All Finnish Free-to-Air Channels listed with rich event information, text, images, videos.

Common EPG offer access to programs data 2 weeks ahead and 1 week history.

Thru the EPG is possible to see all the channels in same app:

- Video trailers
- Set Favorite Programs and
- Access to Cach-UP TV !

# **HBBTV APP SCREENSHOTS**

| 213                                 | <b>T</b>                     |  | 9                          | i     |
|-------------------------------------|------------------------------|--|----------------------------|-------|
| 07:00 Berita Terkini - 2 Min ( 2014 | 07:00 Secret Garden          | 06:30 A Place Called Home (pt.2)   | 07:00 Berita Tengahari     | -     |
| 07:02 Wanita Hari Ini 2014          | 08:00 Edisi 7 2014 (1 Pm)    | 07:30 8tv Midday Mandarin News 2   | 07:30 Taxi                 |       |
| 08:00 Terukir Di Bintang            | 08:30 Eight Immortals, The   | 08:00 A Place Called Home (pt.2)   | 08:30 Plus 1               | Ì     |
| 08:30 Buletin 130 ( 2014 )          | 09:30 Destiny By Love        | 09:00 Mimic King   | 09:28 Bananana! Squad 2014 |       |
| 10:01 Temptation Of Wife            | 10:30 Mandarin 7 Express 3.3 | 0pm 10:00 Swordman   | Today 18.06.2014           |       |
| ⊗ Close description                 |                              | Yolanda acquires the Salcedo Group Of Companies, all their real properties including the mansion and all the cars. She |                            |       |
| Show recordings (1)                 | freezes all of Romeo's ba    | nk accounts. They are left with  |                            |       |
| 📌 Tune to channel                   | nothing. Episode 38          |  |                            | 0     |
| Remove from favorites               |                              |  |                            |       |
| -                                   |                              | HbbTV "TV Guide a  | ppllication" From I        | -inla |
|                                     |                              | adapted to Malays  | ian TV channels in l       | ess   |
|                                     |                              | one week!  |                            |       |
|                                     |                              | UNE WEEK!  |                            |       |
|                                     |                              |  |                            |       |
| 🕟 Select action 🗾                   | Exit 💼 🔜 Info                | • 💼  | /ed 18.06.2014 🕑 09:16     |       |
|                                     |                              |  |                            |       |

~ listed event n, es,

# HBBTV APP SCREENSHOTS

#### Tänään 11.06.2014



- Näytä tallennukset (7)
- 📌 Vaihda kanavalle
- Lisää suosikkeihin (max 20)



16:00 Summeri

OK)

Toista tallenne

Tume sa piinsa. Jani Toivolan paluu menneisyyteen. Juliannan luonnollinen kauneus erukset piknikillä Oulun Ainolassa. Tanssiakatemiassa Benin ja Taran lav nia ei miellytä Zachia. 8/50 HD HD

#### Ke 11.06.2014 ( 21:46



YLE TV1: Monroe

22:21 Keskiviikon ravisuora Vermossa nähdään tasokasta raviurheilua. Selostus Marko



List of available past episodes from TV-channel catchup service

| < Paluu          |                      |
|------------------|----------------------|
| 10.06.2014 16:00 | Saatavilla 19 päivää |
| 09.06.2014 16:00 | Saatavilla 29 päivää |
| 06.06.2014 16:00 | Saatavilla 26 päivää |
| 05.06.2014 16:00 | Saatavilla 25 päivää |
| 04.06.2014 16:00 | Saatavilla 24 päivää |
| 03.06.2014 16:00 | Saatavilla 23 päivää |
| 02.06.2014 16:00 | Saatavilla 22 päivää |
|                  |                      |

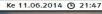
Poistu 🗾



Tänään 11.06.2014

Kesäperjantai ja Summeri! Musiikkia, kavereita ja innostavia asioital Nea kokeilee tehdä taikatemppuja. Rami retkeilee Lapissa. Tanssiakatemia: Negatiiviset ajattelumallit. 5/50 HD

🛑 Ohje 💼





YLE TV1: Monroe

#### 22:21 Keskiviikon ravisuora

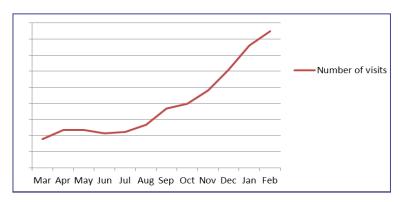
Vermossa nähdään tasokasta raviurheilua. Selostus Marko Lähteenmäki. Tuotanto Story Of Sports Oy.

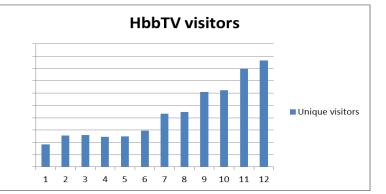
#### 22:25 Syyttäjä

Pyhä viha. Nuori nainen löydetään kylpylän puistosta raiskattuna ja sekavassa tilassa. Kuka hänen kimppuunsa oikein kävi? Reuther



# **HbbTV stats in Finland**





**Currently in Finland :** 

- ~ ~2,2 M TV-households in total
- 50% reach with DVB-T network, with over 90% coverage
- HbbTV is not carried in most of DVB-C cable networks
- ~100.000 receivers with HbbTV capability
  - Est. more than 200.000 by end of 2014
- During 2014 most of the smart-tv products have HbbTV 1.5 enabled (est.)
- HbbTV services not yet marketed to the endcustomers

In Nordic region more than 2M TV receivers are sold annually, more than 50% of those are Internet enabled in 2014

# 15 WHY HBBTY



# **HbbTV stats in Spain**



- National reach of 80% with DVB-T network
- By end of 2013, over 500.000 HbbTV devices
- Now in 2014 June more than 700.000 households connect to HbbTV services
- During 2013 the figures have been multiplied with 10
- 1.6 Milj receivers with HbbTV capability
- In 2013 almost 90% of smart-tv products have HbbTV, in 2014 close to 100%
- National extra:
  - HbbTV DRM-requirements (Playready+Marlin)
  - HbbTV Conformance testing with Receiver Certificate



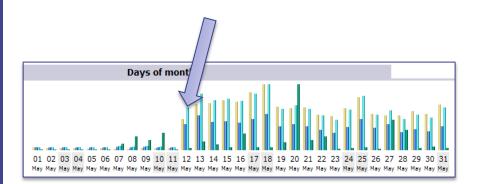
# **HbbTV stats in Germany and Hungary**

# **TV Shopping channel QVC**



The following figures represent the growth from 2012 to 2013:

number of inserted Red Button: +155% number of activated Red Button: +73% number of videos watched: +39%



#### In Hungary:

The Red-Button services expanded to the public broadcaster MTVA channel at 12<sup>th</sup> May when it multiplies the usage of HbbTV.

Compared to HbbTV use from the Operator's own infochannel

# 17 ИНУ НВВТУ



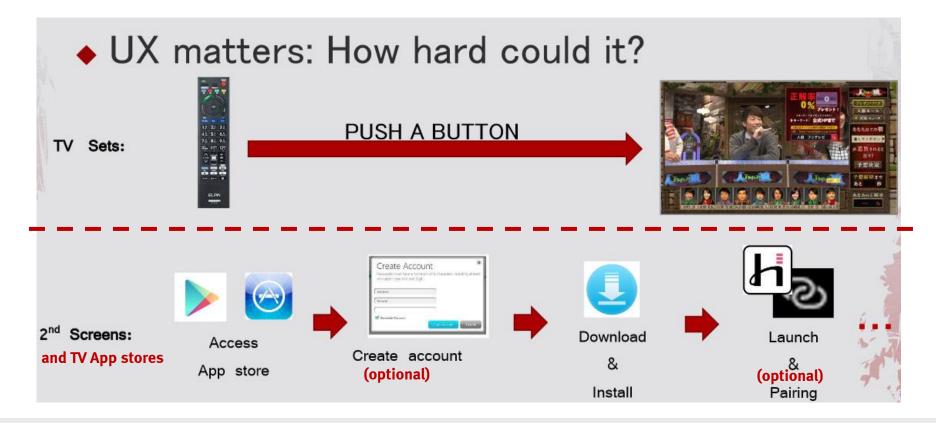
# HbbTV Service types (Listed by HbbTV Forum Nederland)

- Social and accessibility services
  - Amber Alert, spoken subtitles, speech in other languages, synchronous, computer-generated sign language
- Traditional teletext-like information
  - with a much more attractive user interface,
  - "super text" with news, weather, traffic, sports scores, stock quotes, exchange rates, etc.
  - A digital newsstand for services by the (local, national) government
- Advanced EPGs (Electronic Program Guides)
  - Rich EPG over OTT
- Enhanced TV
  - additional information on TV programs
  - statistics in sports programs, extras with biographies, background, etc.
- Voting and Polling
  - Participate in TV programs, vote for candidates in talent shows, join programs like the National IQ test etc.
- Additional video content
  - "catch up TV" as well as new programs (previews)
  - restart to "rewind" a broadcast from the beginning to see it if you turn in too late ("Salto" in France)
  - Direct access to additional TV channels that do not have broadcast via live streaming
  - there are 15,000 worldwide channels)
- Games via television (community, simple classical games, Content for kids)
- Home shopping (shopping channel add-on)
- Courses and education

http://hbbtv.nu/the-hbbtv-in-europe-report-in-english/

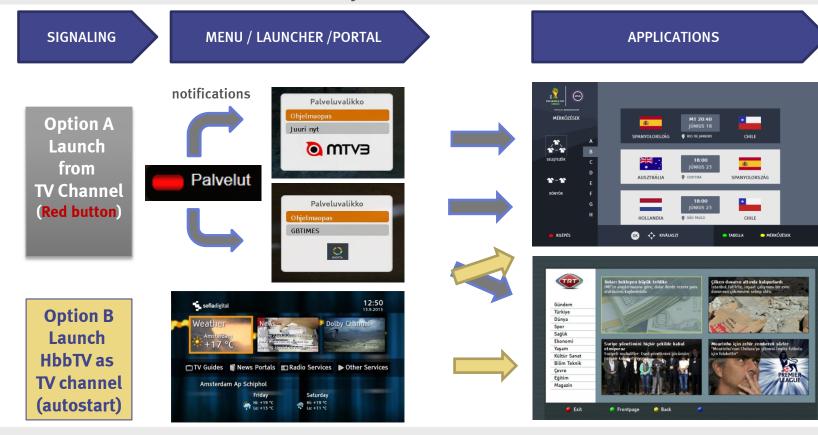


# HbbTV offers ultimate usability





# **HbbTV service discovery – TWO OPTIONS**





# **Market Facts and estimations**

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20

- Connected TV market share is increasing
- New televisions are actually connected more often
- Smart TV processing power is higher than STB
- Consumers like to use one device if possible
- All the services can be reach under same User Interface and one remote controller
- HbbTV enables implementing one single application to reach all well-known TV vendors!
- If LINEAR pay-tv operators cannot reach household using smart-TV then customers will be lost to multinational OTT operators







# Thank you !



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