Mobile TV Market Update – DVB-H Viewpoint

IEC AGS, Washington 20.5.2009 Pekka Talmola, Nokia



Convergence drives Mobile TV experience



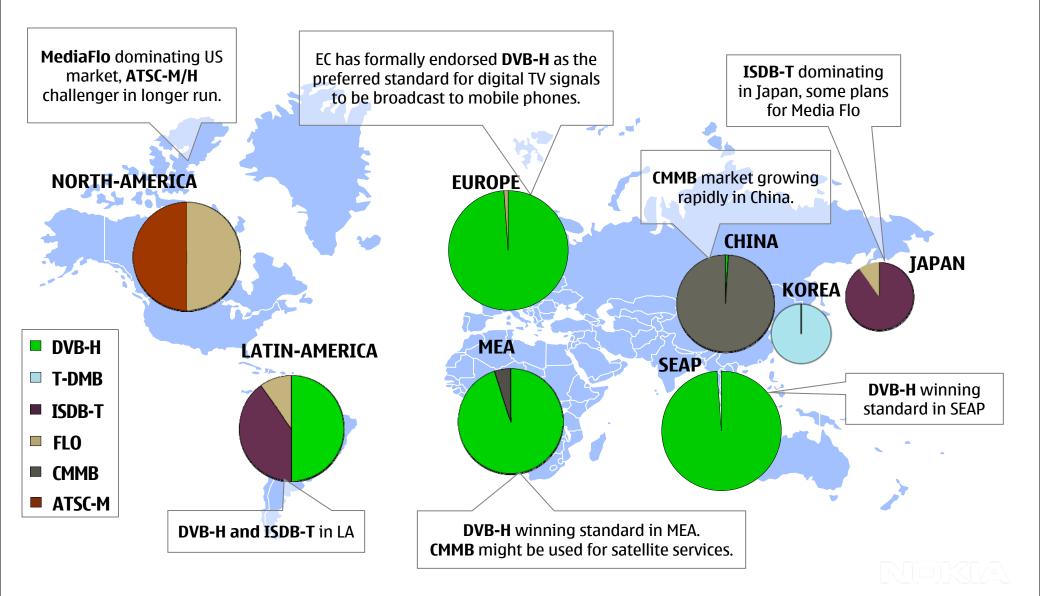


Global Mobile TV market outlook

- All major operators have launched mobile TV streaming services
- Broadcast services took off slower than expected but big growth seen lately in Japan and Korea
- By the end of 2010, ~60 million people globally will watch TV on a mobile phone
- Streaming services will have 20+ million customers while broadcast networks will have 40 million*
- Measured geographically and by number of deployments, DVB-H is most widely deployed broadcast technology
- Measured in the number of deployed terminals the ISDB-T is the most widely used technology.
- By the end of 2010, estimated services revenue from mobile TV and Video will exceed 12 billion dollars*
- Roll-out speed
 - Rollout of commercial DVB-H networks has been slower than forecasted by analysts, reason being difficult business models (media industry to partner with MNOs)
 - "Chicken and egg" situation: Networks require a range of available handsets to run successful service, handset manufacturers require enough commercial networks first
 - Amount of commercial DVB-H networks estimated to significantly increase in next years, primary focus in MEA, SEAP and Europe



Short- and Mid-term Market View DVB-H, CMMB and ISDB-T estimated to be the dominating standards



DVB-H markets status – Sep 2008

Commercial networks, Sept 08:

- Italy
- Switzerland

• Germany

- Vietnam
- Finland •
 - South Africa
- India
- Sri Lanka

Morocco

- Malaysia
- Philippines Albania
- Netherlands Nigeria
- Austria
- Kenya
- Namibia

Planned launch in 2008-2009:

- Saudi Arabia Indonesia ٠
- Taiwan Australia
 - United Arab Emirates Poland Brazil

Thailand

Ghana

Singapore

Czech •

Ivory coast France • ٠

٠

- Hungary • ٠
- Ireland ٠

۲

٠

- Ugangda Mexico ٠ ٠
- Qatar ٠ ۲
- Angola Russia ٠





Europe

- Italy has generally been considered one of the most successful markets with nearly 1 million subscribers.
- Austria, the Netherlands, and Switzerland have also launched services in cooperation between telecom operators and broadcast network operators.
 - In all three countries, viewers can access between 15-20 services for a cost varying between €3 10 per month.
 - The most impressive subscription figures have been in Austria where one telecom operator, 3, has announced 90,000 subscribers for its DVB-H and UMTS mobile television services.
 - The early success in Austria may be a result of its cooperative business model which obliged the winner of the DVB-H license to bring the other contenders into the business.
- In Finland, the network operator Digita has rolled out the DVB-H network but broadcasters have been reluctant to join the platform.
 - Lack of business model and a company responsible of the business
- In Germany, mobile telecom operators who were not awarded the DVB-H license launched in competition mobile receivers capable of receiving free-to-air DVB-T services.
 - License was given back late 2008
 - Highly probable that a new license will be submitted.



H3G Italy Building Blocks for Success

- Good DVB-H network coverage
- Great mobile TV content portfolio

Strictly Confidential

Press Campaign

(OCT-TBC)

Internet

Campaign

(Oct-TBC)

Direct Marketing

(Oct -TBC)

Dedicated

Windows

(0ct)

October

Ambient Events

(II half Sept)

Regional Trade

Fair (Sept/Dec)

TV Campaign

(II half Sept/I half

(1)0

OOH Campaign

(II half Sept/I half

0(t)

POP Materials

() half Sept/II half

Oct)

September

- Superb marketing
- Attractive pricing

Sales Roadshow

(I half July)

July



N96 Marketing Plan

PR & Teaser

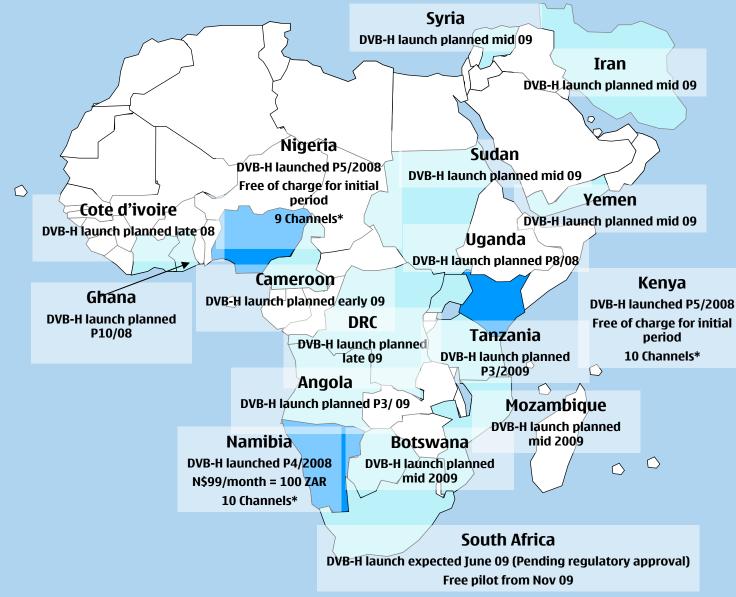
ATL & Field

BTL/Trade/

Direct

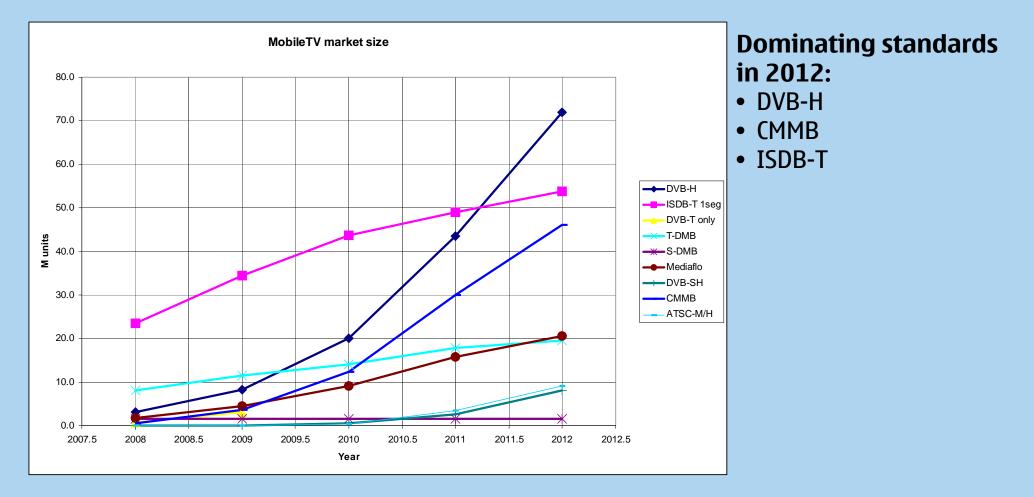


Mobile TV in Africa



NOKIA

Mobile TV market size estimates – Average from several reports Sept 2008





























NOKIA