

# Broadcasting in the area of convergence

## The Regulatory Environment for future Mobile Multimedia Services

Soeren Hess, **bmcoforum**



# bmcoforum members: 59 (as of June 2006)



- Content creators
- Content aggregators
- Service providers
- Mobile network operators
- Broadcast network operators
- Silicon vendors
- Solution providers
- Terminal and platform vendors
- Regulatory bodies
- Research institutions



# Why mobile broadcasting ?

## Media structure is changing all over Europe

- Cable TV penetration reaching 85-99 %
- Satellite penetration of 15-20%
- Fiber to the home coming soon > 25/25 Mbit/s
  - Television via the computer
  - Video on demand
  - Technology providing my program automatically



Consumers views: No more 'SOFA-TV'  
Personalised TV on their own mobile device...



# See it live – when it happens with interactivity

- ✓ Follow the match
- ✓ Bet on the result
- ✓ Bet on the next corner
- ✓ Check the other matches
- ✓ Check web on the players
- ✓ And I do it while in the train....



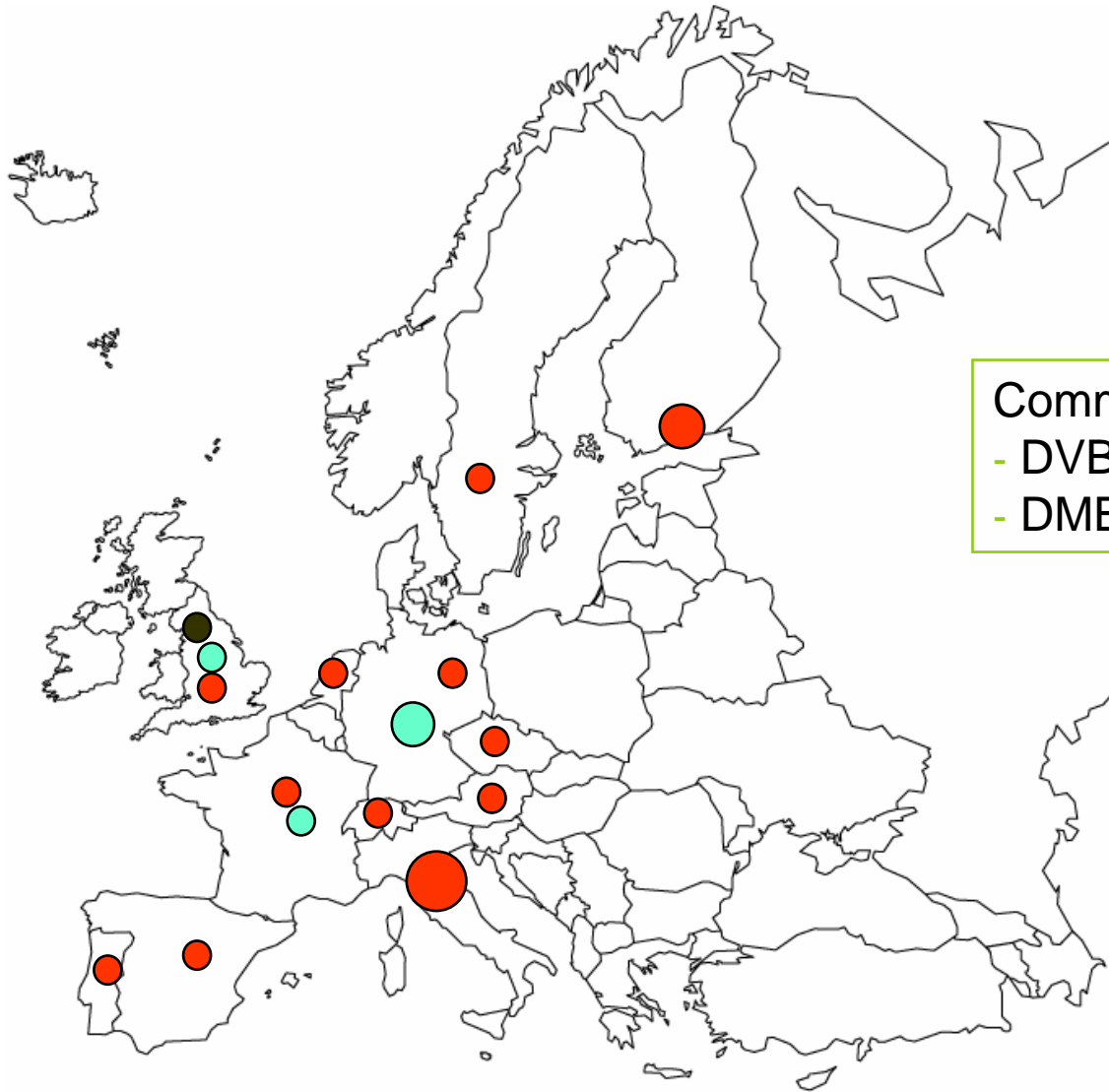
Our trials have confirmed the requirement

# Mobile Broadcasting – true convergence

- Up to 25 TV-programs received on my personal receiver
- Uplink in telecommunication bands – downlink in UHF
- Competition and technology neutrality
- Convergence in the terminal not in the system
- European coverage with European regulation



# Pilots & Pre-Commercial Networks Europe Wide



Commercial services:in Europe

- DVB-H in Italy since May 2006
- DMB in Germany since May 2006

- DVB-H
- T-DMB
- MediaFlo

# bmcoforum / Siemens / Abertis Telecom Mobile TV DVB-H live demo at 3 GSM World Congress 2006 in Barcelona

## Broadcast Network Operator



Abertis  
Telecom  
(Channel 42)

**DVB-H Broadcast  
Network covering  
Fira Exhibition  
Area**

## Siemens Media Delivery Solution

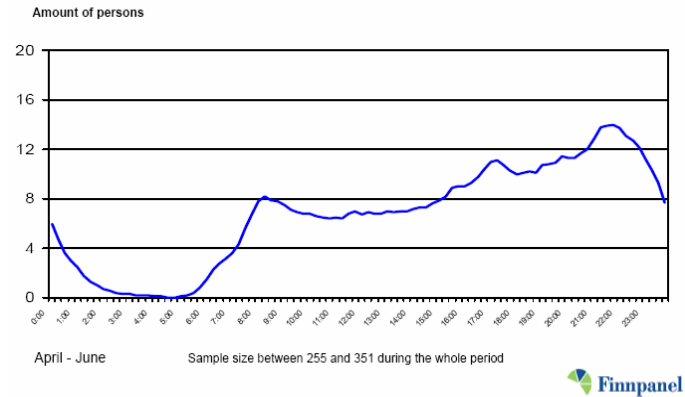


## TV CHANNELS

1. CNBC
2. MTV1
3. MTV2
4. MTV3
5. TELECOM TV
6. CNN
7. BBC WORLD
8. RAI OLIMPICS TORINO
9. BARÇA TV
10. Abertis
11. Abertis
12. Abertis
13. SIEMENS LIVE
14. MiTV + DEMO CONTENT
15. MiTV + DEMO CONTENT
16. Free

**bmcoforum IOP Participants: BenQ, LG, Motorola, NEC, Philips, Samsung, Siemens and other (more than 15 different phone, platform or chipset manufacturers)**

# Learned lesson from trials



- In all European trials about 50% of liked the service

- Readiness to pay (up to 10 € p.m.)

- up to 50% are willing to change the provider if his own isn't providing mobile TV services

- Mean watching per channel 10 to 15 min., twice a day

- But longer formats are also watched (sport)

- Unexpected high percentage of watching at home (other room, other channel)

- Indoor coverage is a critical success factor

# First end user devices are available



BenQ



Sagem



Samsung



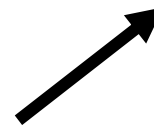
Motorola



LG



Nokia



## RRC-06 results

- Successfull results in most countries – 98%
  - 7-8 layers of digital television
  - Digital switch-over too late – we need it now
  - Flexibility needed to provide multimedia
- 
- Mobile Broadcasting started in high density areas
  - 2 nation wide network MUXes needed
    - Timely availability
    - Indoor coverage



Digital plan is useful for Mobile Broadcasting

# Analogue switch-off timeline in Europe

	Full launch	ASO Type	ASO Approach	First ASO	Last ASO
<b>Fully Launched Platforms</b>					
<b>UK</b>	October 2002	target	regional	2008	<b>December, 2012</b>
<b>Sweden</b>	September 1999	firm	regional	September, 2005	<b>February, 2008</b>
<b>Spain</b>	November 2005	target	regional	December, 2007	<b>April, 2010</b>
<b>Finland</b>	October 2002	firm	national	December, 2006	<b>December, 2006</b>
<b>Netherlands</b>	April 2003	government fiat	national	2007	<b>2007</b>
<b>Germany</b>	May 2004	target	regional	August 2003	<b>2010</b>
<b>Italy</b>	January 2004	target	regional	January 2006	<b>December 2006</b>
<b>France</b>	December 2005	target	regional	2007	<b>March 2010+</b>
<b>Limited Launches</b>					
<b>Switzerland</b>	2006	government fiat	regional	2007	<b>2009</b>
<b>Belgium</b>	2006	government fiat	regional	2010	<b>2010</b>
<b>Not yet launched</b>					
<b>Austria</b>	2007	target	regional	mid-2007	<b>2010</b>
<b>Norway</b>	2006	firm	fast regional	2007	<b>2009</b>
<b>Denmark</b>	2007	firm	national	2011	<b>2011</b>
<b>Ireland</b>	2007				<b>2010</b>
<b>Portugal</b>	2007				<b>2012</b>
<b>Greece</b>	NA				<b>2015</b>

Note: Spain and UK based on re-launch dates

Source: EBU

# Next steps towards frequency provisioning

— MUX planning – for DVB-T and for DVB-H

— MUX regulation – providing access for Mobile Broadcasting

— National implementation of the digital plan

— Digital switch-over towards 2015

— Content regulation to facilitate mobile multimedia

— **Regulatory certainty needed for Mobile Broadcasting**



**Before digital switch-over**

## Conclusions

- Users are willing to accept Mobile TV
- Technology is ready for deployment
- Stakeholders have started to form the value chain

But:

- Danger of market fragmentation through different technology approaches
- National media regulation to be adapted
- Regulatory certainty needed on frequency provisions
- Harmonised approach will guarantee seamless services

# Who will Winn ?

