

Personal, pocket media - current research on the use of mobile TV

Peter Olaf Looms DR-New Media & TV DR/Danish Broadcasting Corporation

Menu



1. Who I am and what I do

2. Mobility and people

- What is it and what does it mean for content?
- 3. Personal pocket media (mobile TV)
 - What are they?
 - How are they different from other media?
- 4. Research results on mobile TV from Europe
 - What have we learned from this research?
 - What problems have been encountered?
 - What still needs to be investigated?

5. Conclusions

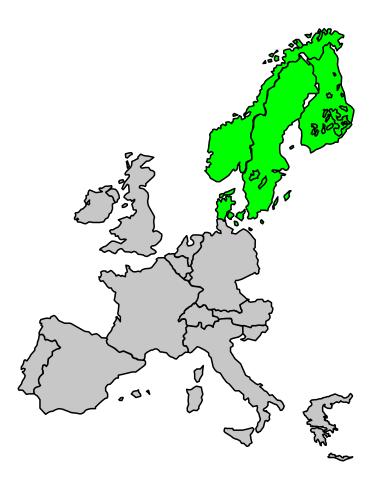
- How fast is the market likely to develop?
- What is needed in order to grow the market?

Who I am and what I do 1/4

- Full-time strategy consultant at DR, a public service broadcaster -"to inform, educate and entertain"
- Responsible for several metadata projects:
 - Mapping metadata flows for radio and TV channels (analogue/digital/IPTV) as well as on-demand content within Denmark
- 2 TV channels (satellite, cable, terrestrial, IPTV) with a market share of 40%
- 20+ radio channels (FM, DAB, Internet) with a market share of 70%
- The no. 2 Web portal in Denmark after MSN
- 30% of the mobile content market in Denmark
- Launching IP Datacast services on mobile handsets within 2 years

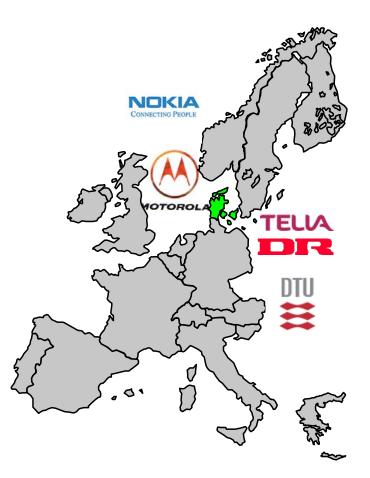


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1/4

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- Coordinating a state of the art study on mobile media using DVB-H
- Coordinating DR's participation in "Beyond :30", a three-year research programme on new models for promos and advertising

Who I am and what I do



2/4

- Teach postgraduate courses on project management and strategy
- Participate in R&D projects (mobile content for youth, PVRs, interactivity and advertising)

the IT-University of Copenhagen

EMMDIS MSc Programme - Cross Media Production -INA, Institut National d'Audiovisuel, France

Institute of Interactive Television Research, Murdoch University, Perth, Australia (October/November 2004)

Who I am and what I do

DR





3/4

Current tasks:

- Chairman of 3 European working groups (broadcasters and manufacturers) for Personal Video Recorders (PVRs) in Europe
- Digital Asset Management in connection with metadata services at DR (digital TV, digital radio, podcasting)
- Benchmarking of web, mobile & digital TV projects in the Nordic countries within the Nordvision New Media group







DR Media Village





HKD 3.9 billion construction HKD 1 billion on DAM Launches end 2006



Mobility

What is it and what does it mean for content?

Mobility = On the move





Mobility = Waiting









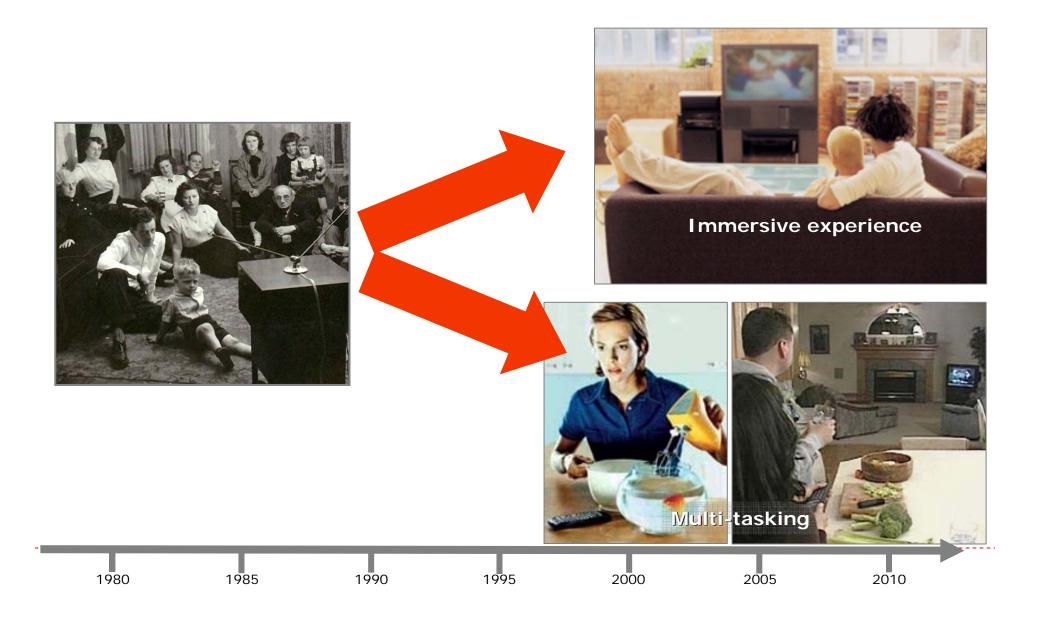
Mobility = killing time keeping updated

Media that fit into your pocket



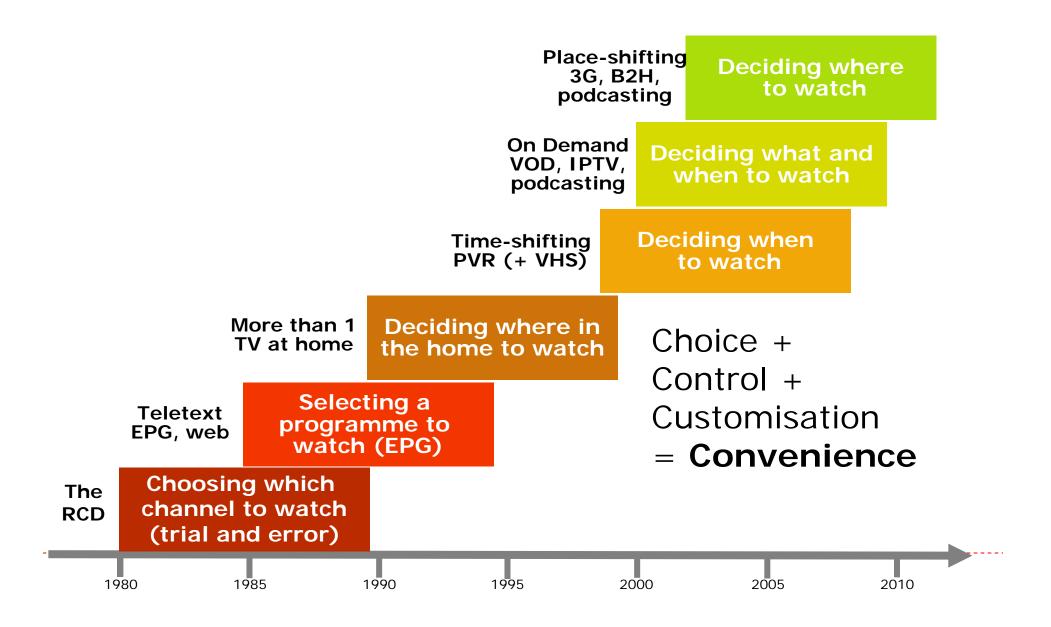
Media at home





Media at home



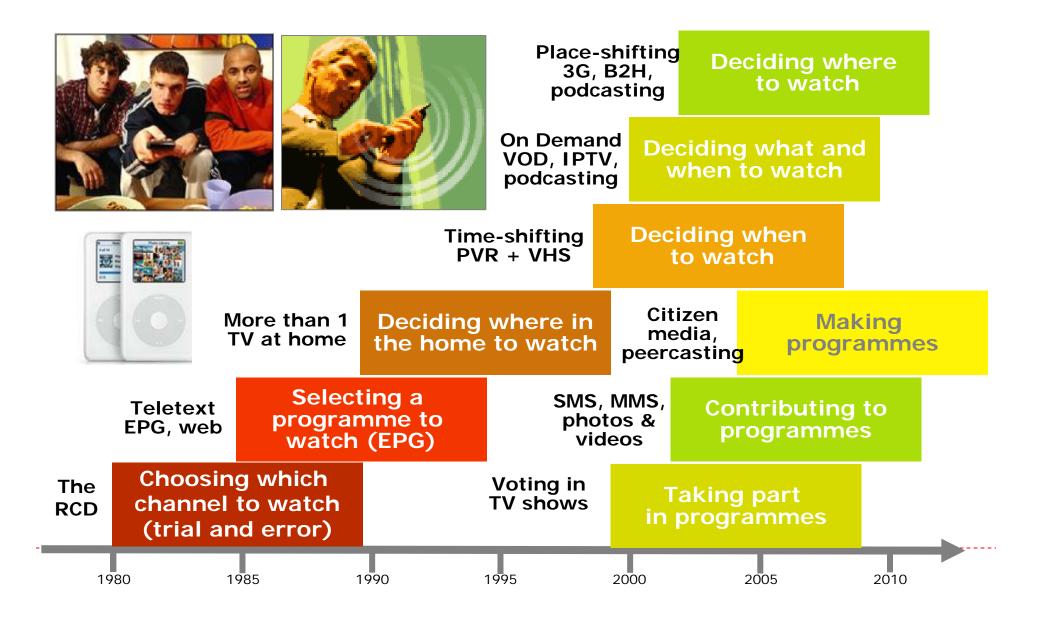


Media at home and on the move

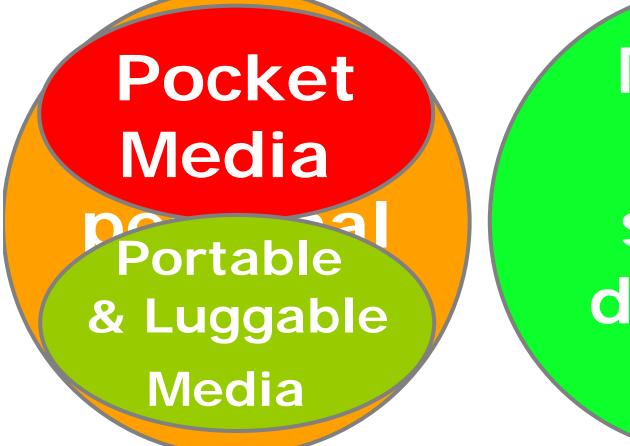




Media at home and on the move **DR**



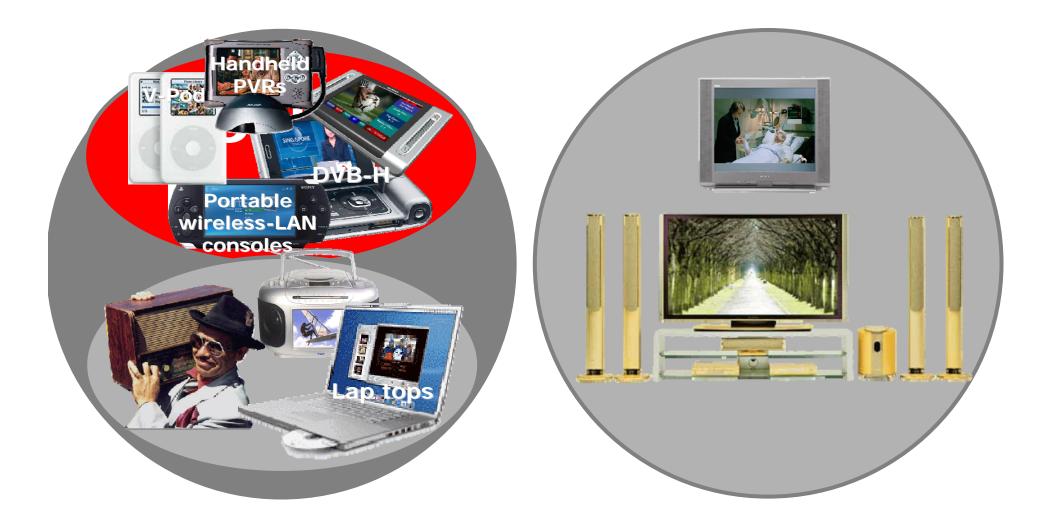


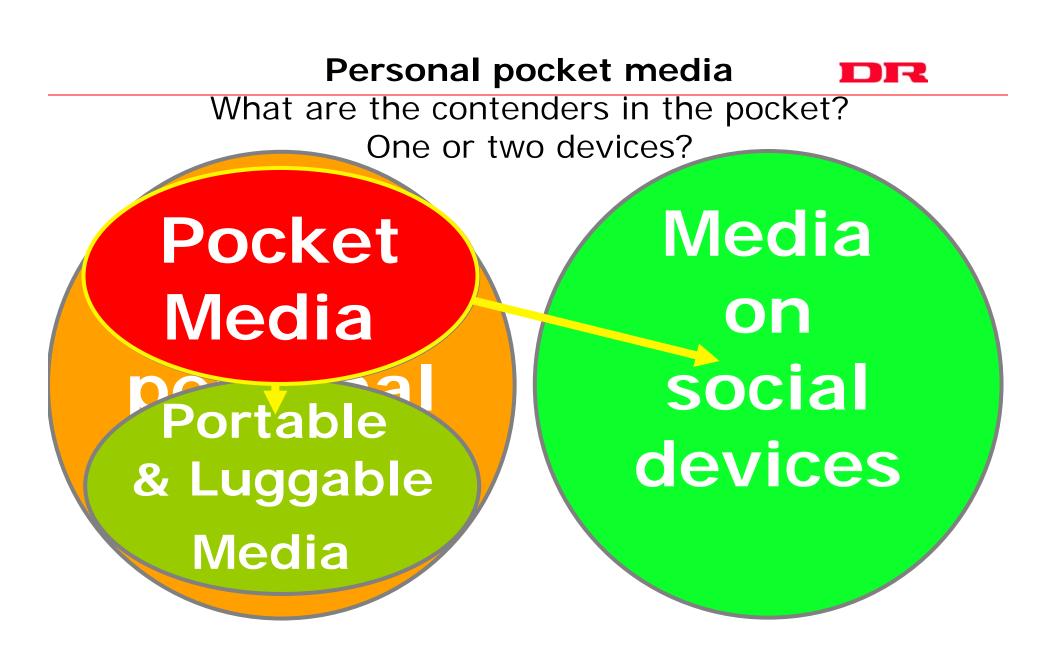


Media on social devices

Personal pocket media







Conclusion







Research results 5 .01



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Research results 🕫

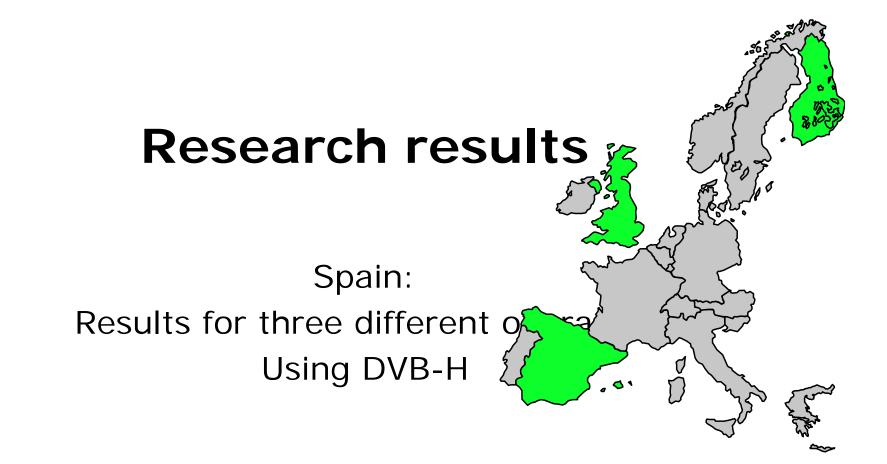
Two Finnish trials

Using DVB-H

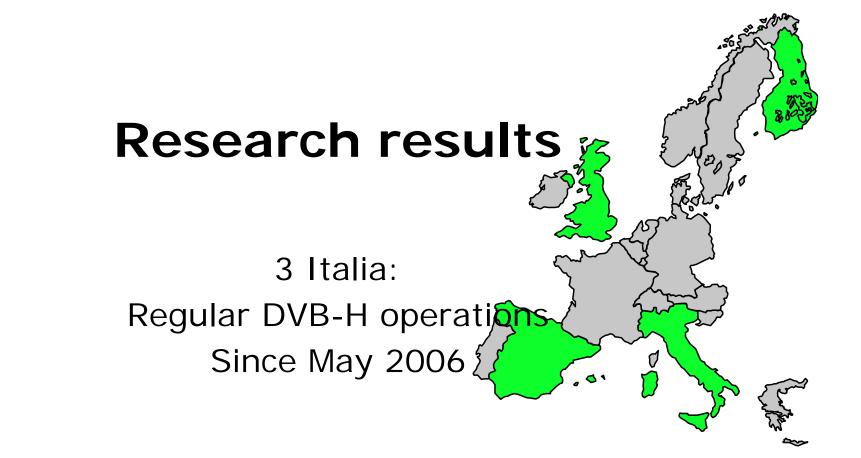














| | FINLAND | OXFORD | PARIS | MADRID |
|--|---|------------------------------------|---------------------------|---|
| | Percentages of what???? | | | |
| Willingness to pay for content | 41% | 76% | 55% | 68% |
| Average time spent per day (mins) | 5-30 | 23 | 16 | 20 |
| Most popular content types | News, Sports, Entertainment, Current affairs (in Finnish) | News, Soaps, Music, Sport | News, Series, Music | News, Music, Entertainment Documentaries |

Powerpoint slide from Mark Selby, NOKIA, June 12, 2006





Finnish Mobile TV Pilot

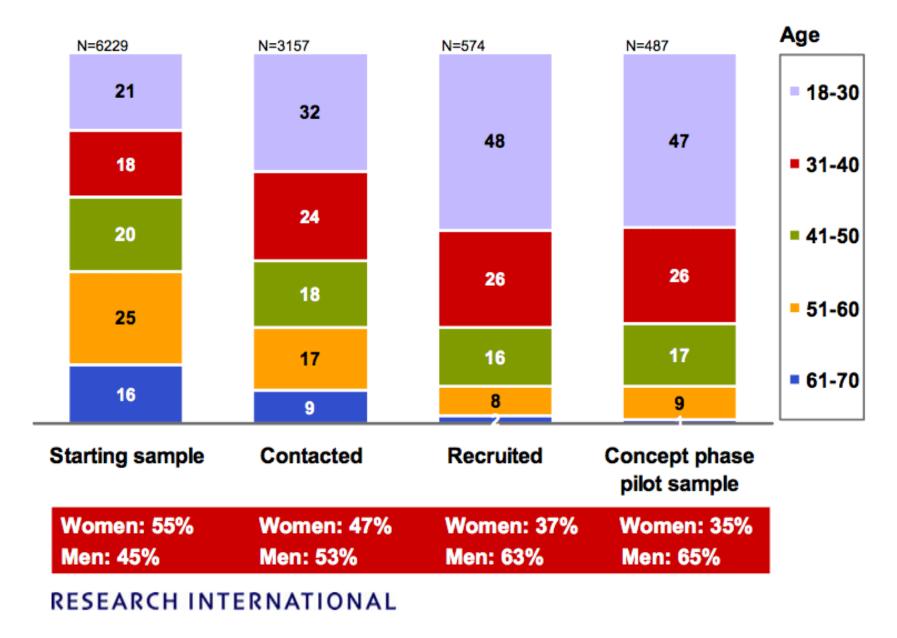
Results

August 30,2005

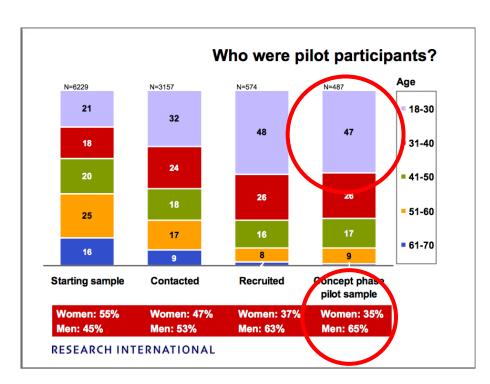
Juri Mäki © Research International Finland 2005



Who were pilot participants?





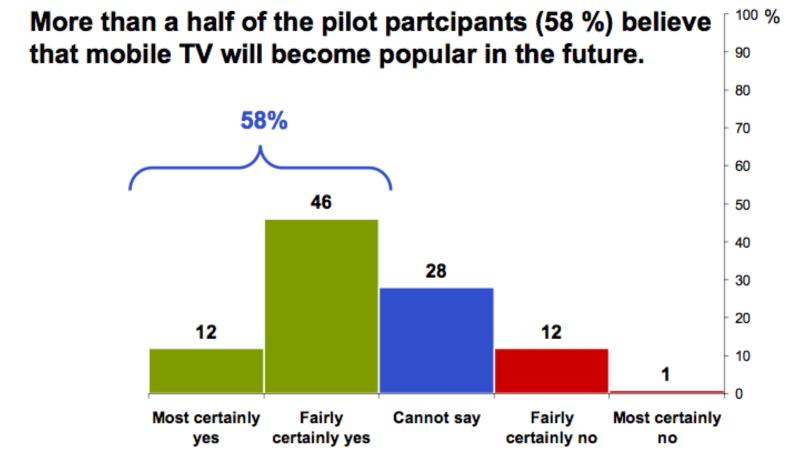


Trial sample of 487

- Many 18-30 year olds
- Predominantly men
- Claim that these are early adopters
- Cannot use this sample to talk about theFinnish population as a whole
- "possible early adopters"

Does the service have future potential?

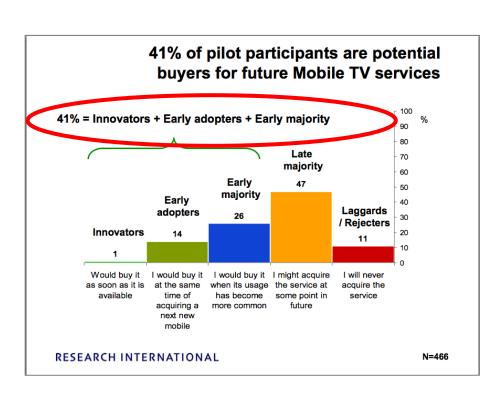
Yes - assuming that the pricing and content are in line with consumers' expectations and needs.



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N=466

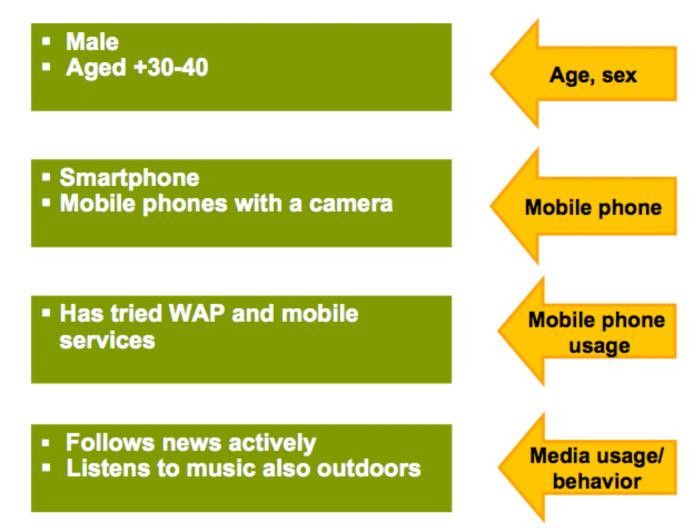




Same problem: the actual figure is somewhere in the range 3,4%-41% of all Finns

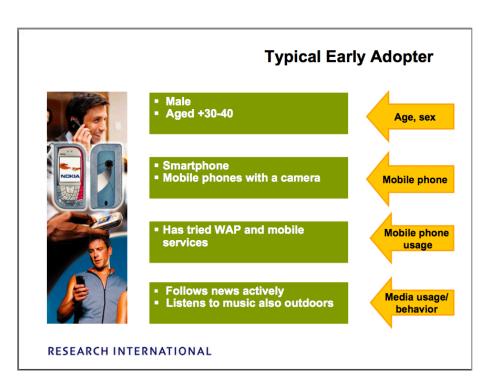
Typical Early Adopter





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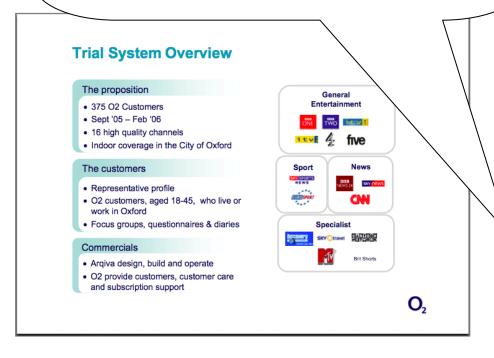
Problems:

- Self-fulfilling prophesy!: Nobody in the panel was over 40!
- 2. Results do not match fully those of the UK and Spain



"We had a broad cross section of customers with a cut-off below 18 (minors) and

above 45 - this was a big mistake."



roblems:

Self-fulfilling prophesy!: Nobody in the panel was over 40!

2. Results do not match fully those of the UK and Spain

John Cullen, O2 about the Oxford trial:

Requirements for Mobile TV adoption according to pilot participants

Satisfaction with the content

Content that is also suitable for irregular and short period viewing

Usability of the Mobile TV service

Easy and intuitive service usability provides a foundation for service adoption

Technical performance & reliability

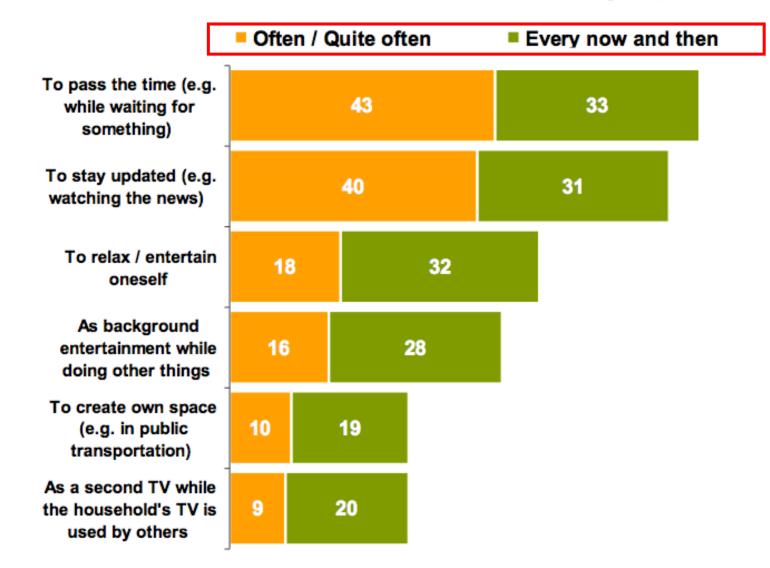
Good technical functionality and reliability is needed for a positive user experience

Handset usability & acceptance

Good mobile phone qualities must not be compromised at the expense of the TV application

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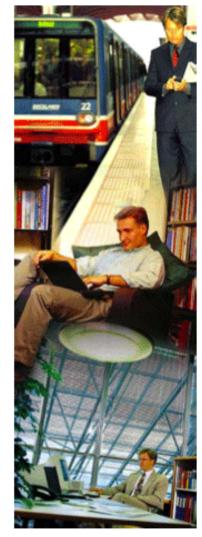
Mobile TV is used to pass the time and to stay updated



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TOP 3 usage situations among active users



When traveling using public transportation

When at home

When at work

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*) Active users = those who used Mobile TV at least 3-4 times a week in the Adoption phase

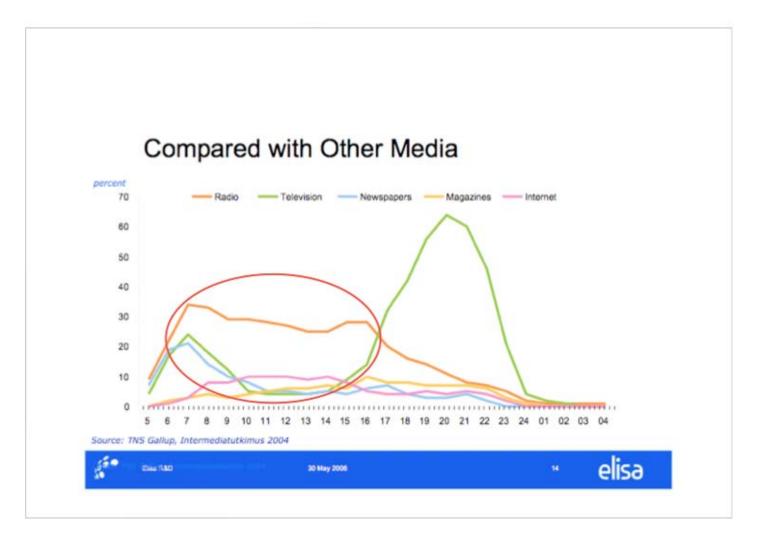




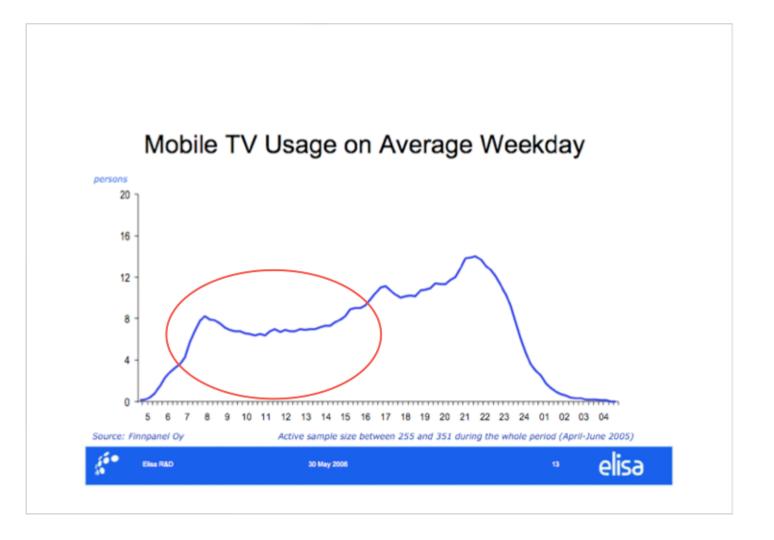
User contexts:

- Finnish results impacted by poor/non-existent indoor reception
- Proportion of those using services on the move vary greatly from country to country London has 3 million commuters who travel at least 30 mins. per day on the train



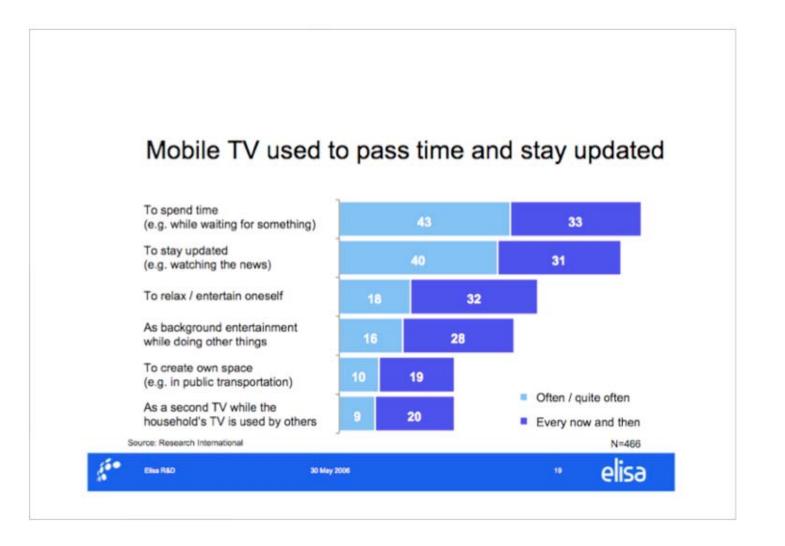






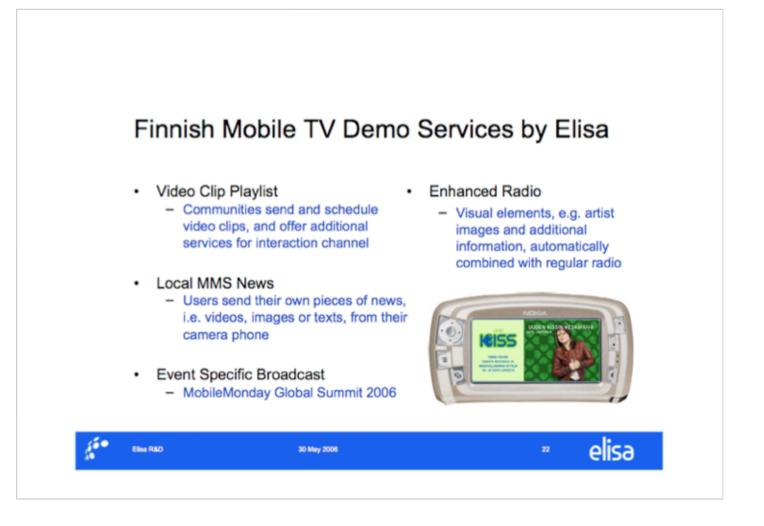


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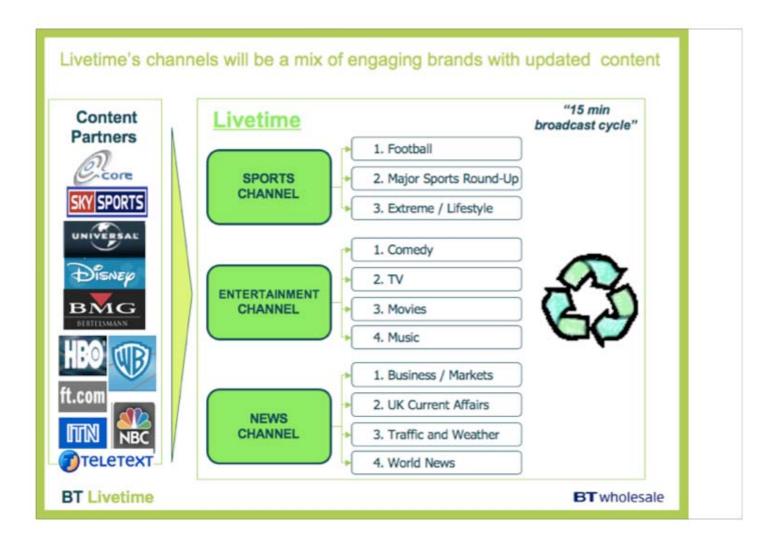


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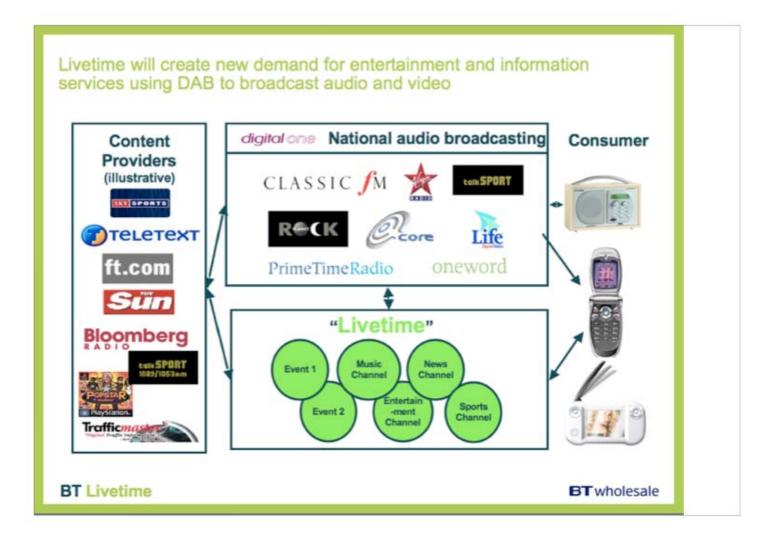






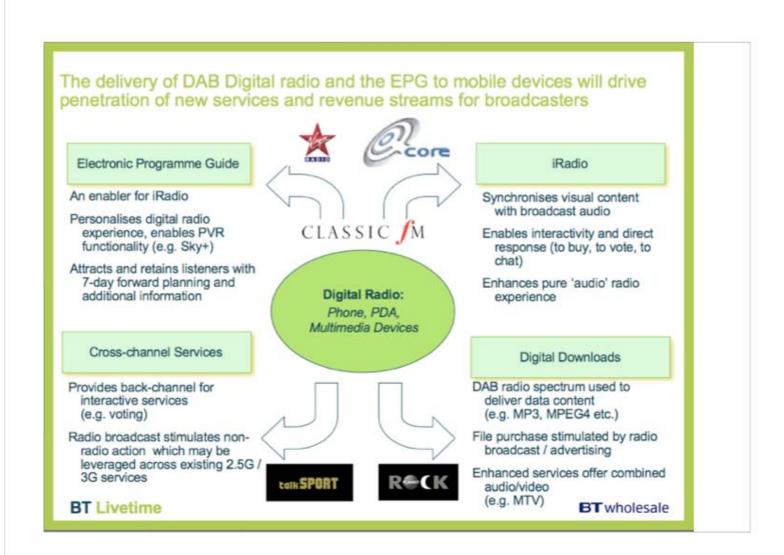






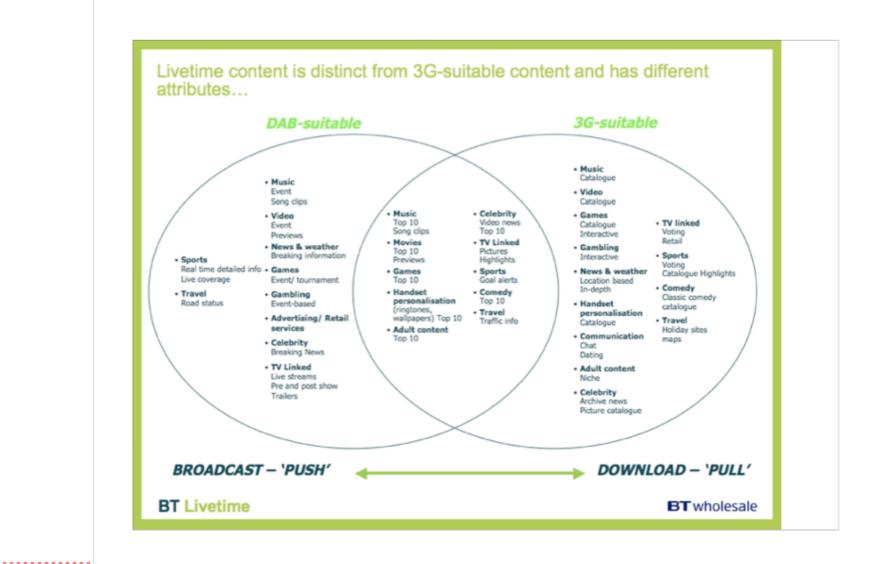
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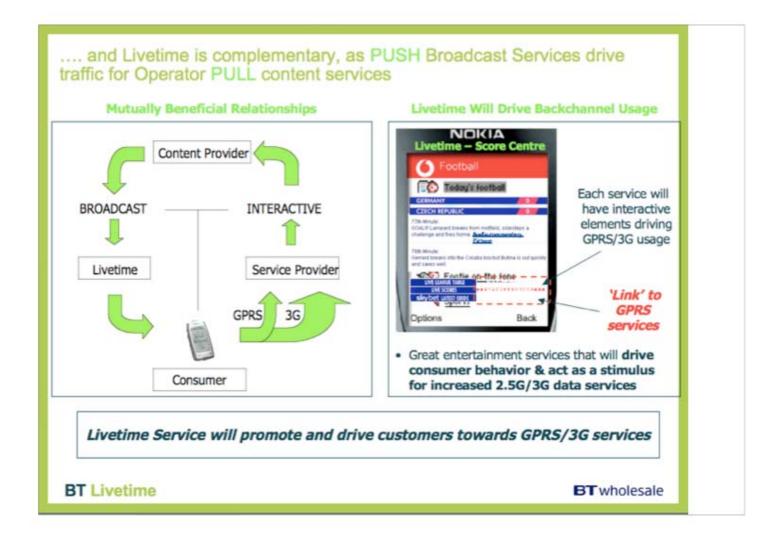
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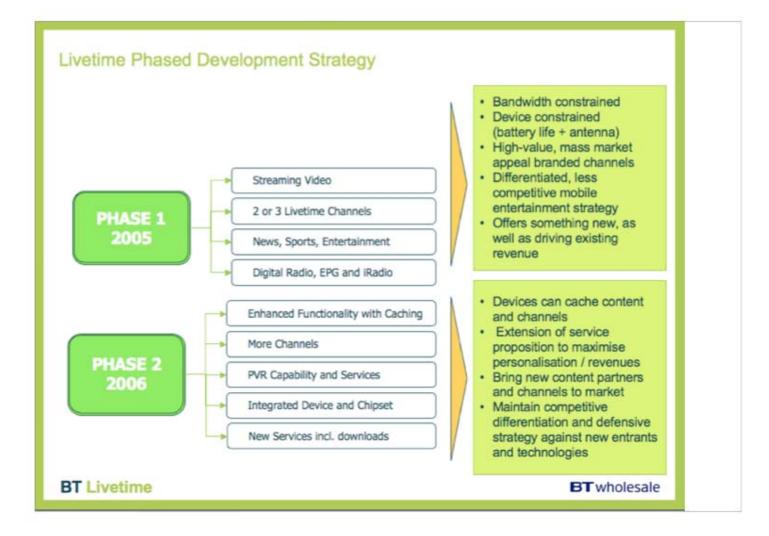


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The results of the first trial



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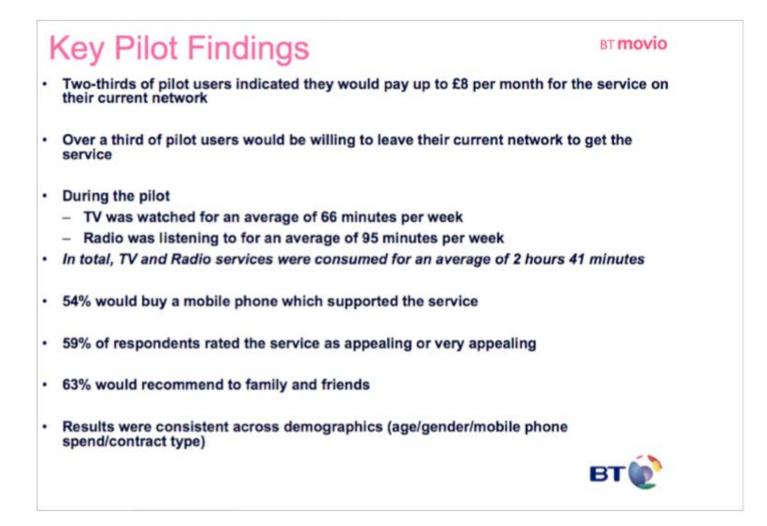


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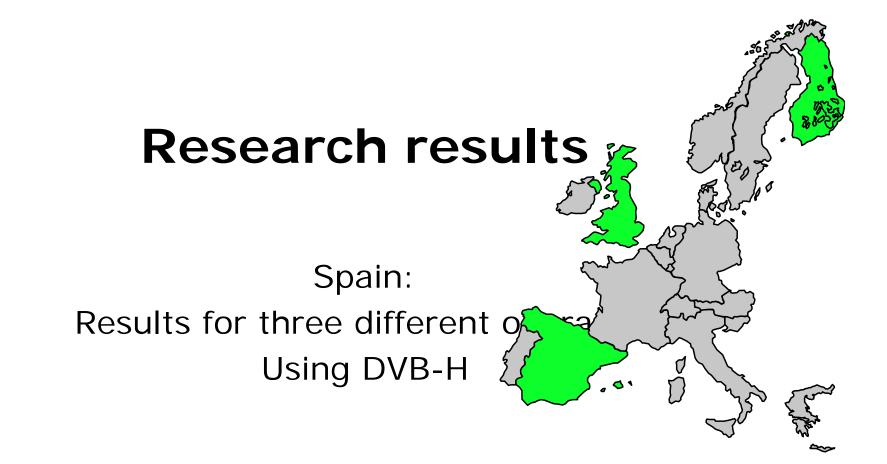


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Spain



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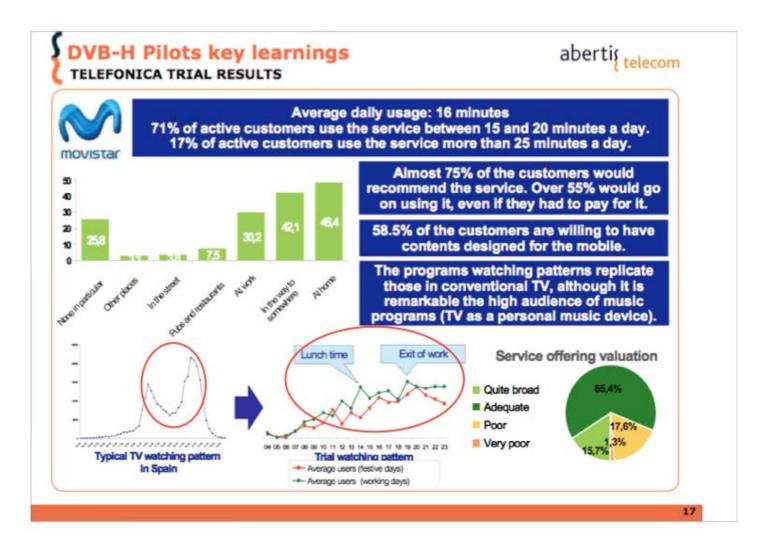


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Spain



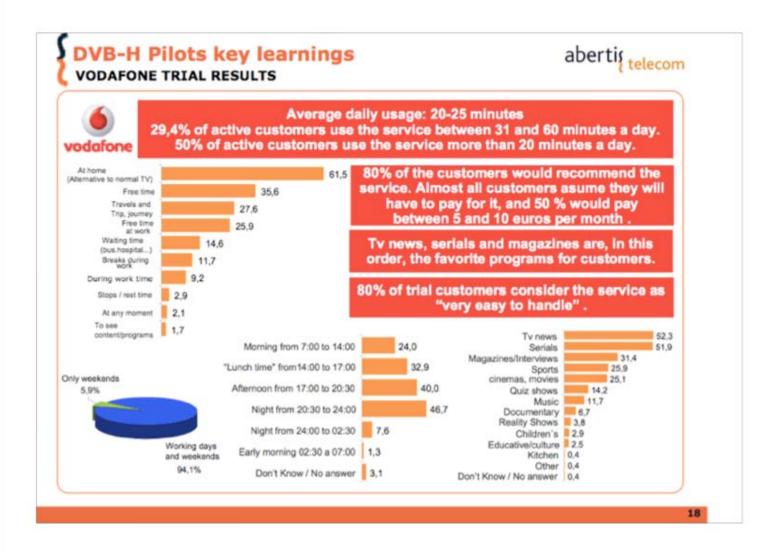
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Spain

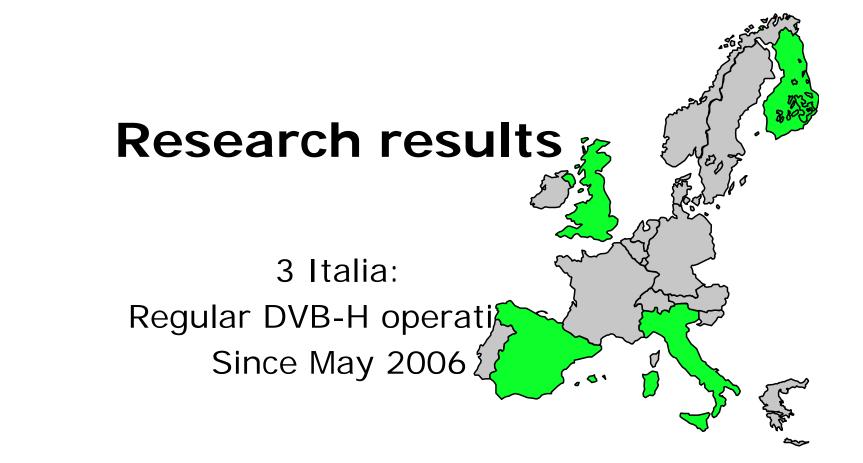


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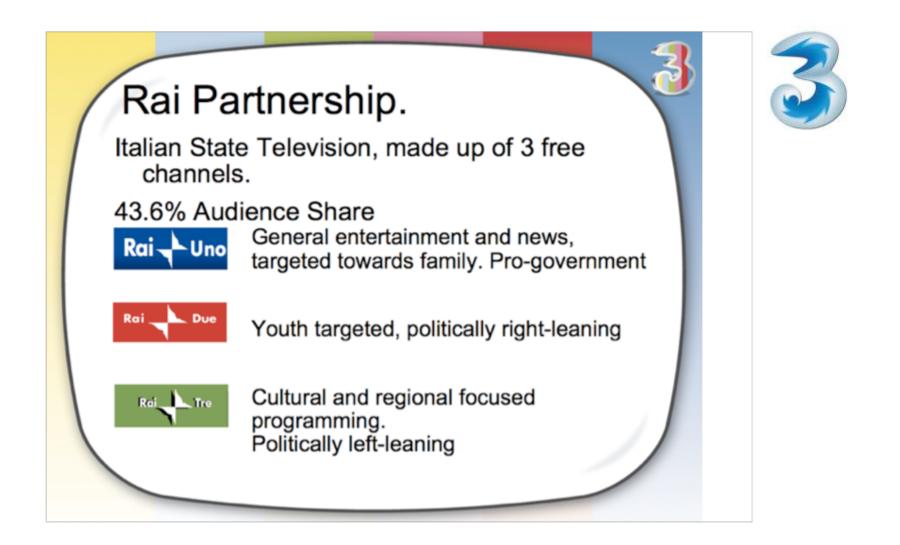


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H3G signed contracts with the biggest Italian content providers

H3G will produce four channels exploring new programme formats that will fit the DVB-H market



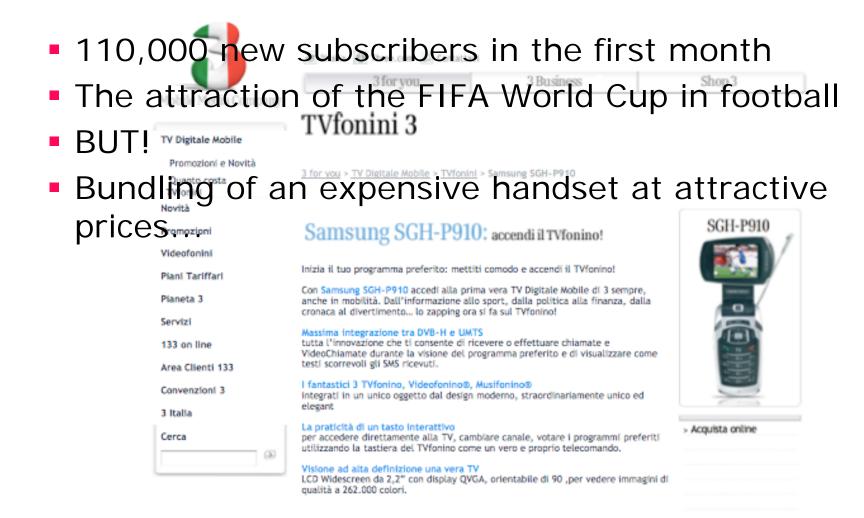


H3G developed strictly with the Handset providers to create a new type of pocket TV ™06 Cartoon Madagasco Samsung Stealth LG U900 OK Inch Inches **Resolution:** QVGA **Resolution: QVGA** Televoting: in real time Televoting: in real time



3 Wired Portal - 3 for you - TV Digitale Mobile - TVfonini - Samsung SCH-P910

08/23/2006 03:55 PM



Scopri le Promozioni

- > con <u>Subito3</u> puol averlo a soli 249€ con una Ricaricabile Semplice 3 da 3€ di servizi inclusi
- > con <u>Scegli 3 New</u> puoi averlo a soli 49€ sottoscrivendo un piano <u>Ricaricabile o Abbonamento</u>

Acquista il TVfonino on line



Other results



NrK

- Norwegian Broadcasting Corporation, NRK has streamed TV to mobile phone since 2004
- Live streaming of both NRK1 og NRK2



N°K

- Sport events is probably the most popular content
 - Winter Olympics (on demand / live)
 - Goals (on demand)
 - The ability to fit the content to the platform is vital

NRKs 3g mobile TV test Winter olympics, Torino 200

- Two live streams
- Highlights and round ups on demand
- NRK.NO internet
 - About 450.000 started streams
- WAP.NRK.NO mobile internet
 - About 220.000 started streams

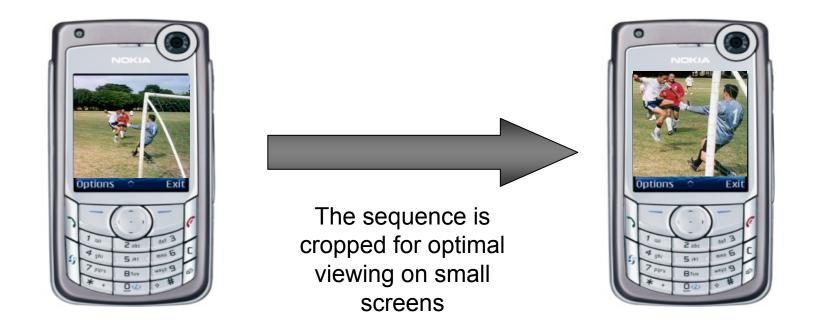




NRKs concept for fitting content to the small screen



Soccer goals on demand are also pretty popular





- Oxford trial indicates that news, sports, soaps, music and documentaries were popular content (January 2006).
- 3 Denmark reports an above-average interest in the TV2 package during Tour De France (sports)







the MTV strategy

MTV has a strategic focus on mobile television

- 1. popular shows from TV
- 2. Added value: behind the scenes, previews, outtakes, content also known from DVD market.
- 3. **Original programming**, eg. shows designed for mobile television.



source: Gideon Bierer, MTV





What have we learned? 1 .01



Where do people use personal pocket media?

- They are used more at home than on the move
- At home there is competition from ordinary TVs, laptops and other devices - so why watch on a mobile?

What do users expect?

- It's both about killing time, keeping updated and "must see" programmes
- Radio is used as least as much as TV
- People expect to see existing TV channels on TV and not just looped content
- People are willing to pay but not a lot

On the move

- A typical session length is 7 minutes so how does this match with normal programmes?
- Why do people ask for TV channels rather than looped content (NVOD) or on demand content?
- What is the balance between time-killing and keeping people up-to-date?
- Time killing is in competition with iPods and handheld devices for playing games
- Keeping up-to-date is a competition between the Web, TV and radio
- Is there a viable business model for live personal pocket media?

What are the problems? 2/2

At home

- Why do people watch on a pocket device at home?
 - Novelty?
 - Flexibility?
 - Individual viewing in a social context (with other people in the room)?
 - Built-in participation?

Right now we don't really know





Personal pocket media in the home

• What are the needs and gratifications driving this use?

Personal pocket media on the move

- How important is keeping up-to-date for ordinary people, not business people?
- Is there a viable market for up-to-date services, not just time-killing given the competition from pod- and vodcasting, games and other devices?

Business models

- How is going to pay for the infrastructure?
- Is there a good case for pperonal pocket media justifying the initial investment and running costs?



Conclusions How fast is the market likely to develop? What is needed in order to grow the market?

The demand for B2H

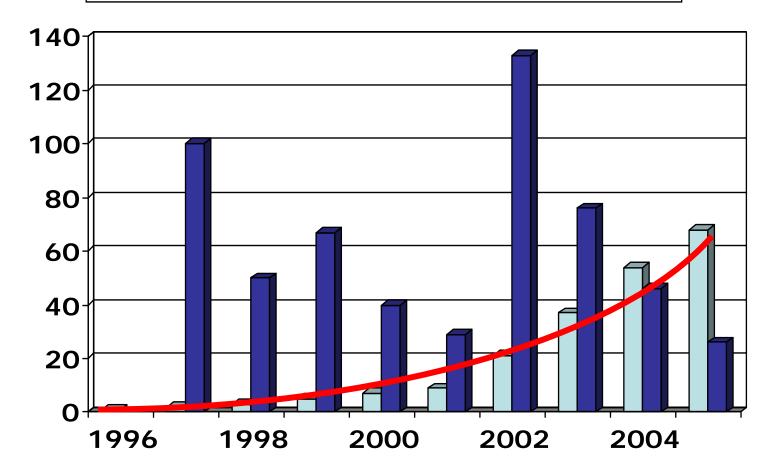


How much are they willing to pay?

- Subscription seems the best bet
- For commodities, unlikely more than EUR 7-10 per month [HKD 70-100/month]

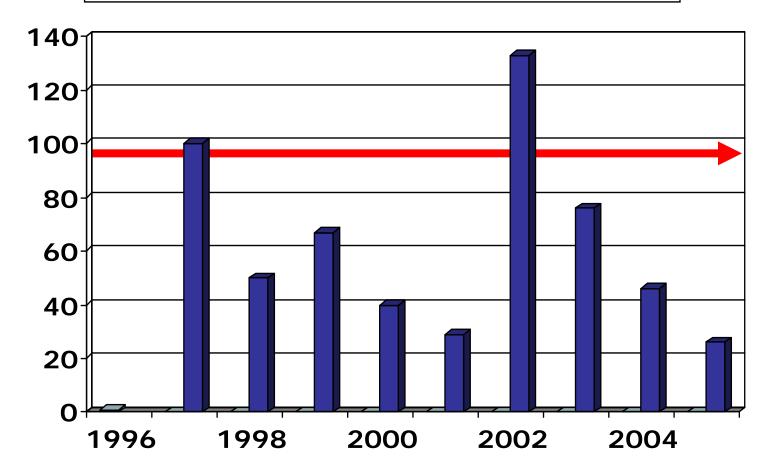
The vexing question of timing... **DIR** How fast will B2H move compared with, say, DVD?

household penetration (%) annual growth rate (%)



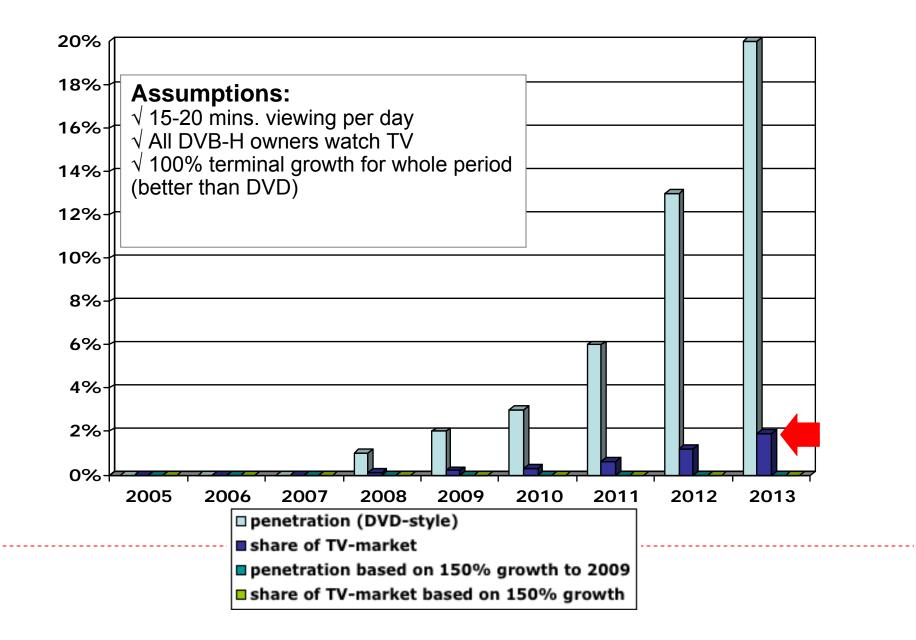
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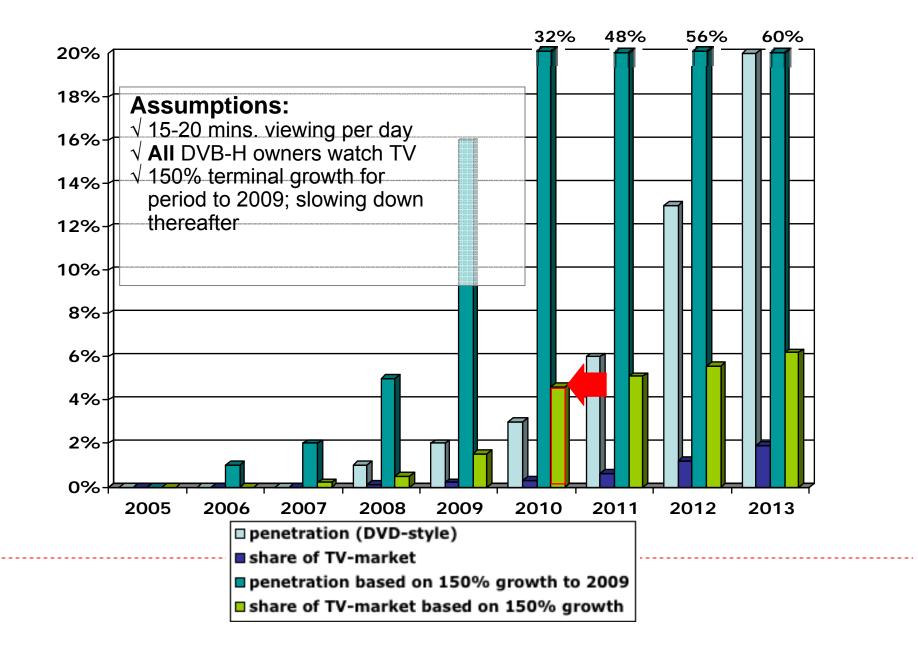


DVB-H take-up and viewing share

Our guestimate for Denmark



DVB-H take-up and viewing share DR Our guestimate for Denmark



Business models



31

Mobile versus broadcasting?

| | Byepass DVB-H with DVB-CBMS (Convergence of Broadcast and Mobile Services) Principa | | |
|-------------|--|--|--------------|
| Free-to-air | LICENSE FEE & ADVERTISING Building on T-DMB experience i Korea | ELECTRONIC PURSE Prepaid PPV services building on experience from mobiles and DTT in Italy | Pay Services |
| | MOBILE MEDIA ORGANISER Reacting to EPG / promos for TV to be viewed at home Converged | SUBSCRIPTION DRM-based services; charges via mobile operator's billing system Discrete - no broadcaster | |

DVB-H with OMA2/return channel

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- Mobile TV is going to happen but perhaps not as fast as many would like
- We need to have a clearer idea of the kinds of content that lend themselves Mobile TV - and the competition from other personal pocket media - to to come up with sustainable business models
- There are many competitors in the "On the Move" segment competing for a limited amount of time per day
- More R&D is needed on accessing and using content for Mobile TV - and the business models underpinning such services

Contact particulars



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