



# Thinking about Mobile TV

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2° Convegno Nazionale sulla Mobile TV

**ERICSSON**   
TAKING YOU FORWARD

## Agenda – Thinking about Mobile TV

Facts

Experiences

User perspective and Business Models

Ericsson proposition

Keywords - Conclusion

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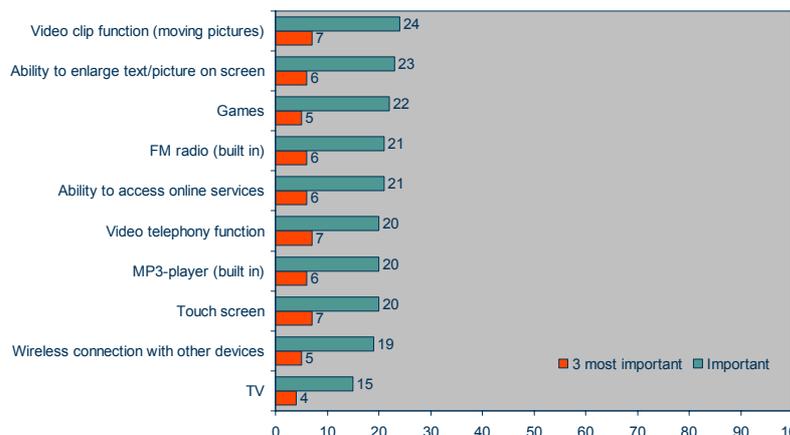
Mobile TV overview

2005-08-22



## Fact n.1 : Mobile TV hard to grasp

- Features, such as video clip functionality, games and TV appeal more to those who are highly interested in new technology. Such functions are not yet important to the majority of end users.



Base: Have mobile phone or plan to get (top 2)

Source: C&E Lab Global 10 survey 2005

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## Moving beyond voice

- Interest in new mobile services differs between countries. In China, information updates are the most popular services, while e-mail tops the list in Japan. In Italy, video telephony is the most popular service.

% Interest (top 2 boxes)	Total	France	Germany	Italy	Spain	Sweden	UK	China	Japan	Brazil	US
Positioning services (like GPS)	35	36	29	24	20	44	38	30	47	47	33
E-mail	25	20	19	14	10	24	25	18	58	39	21
Video telephony	23	25	10	25	16	15	21	36	24	45	17
Browsing the internet	21	14	10	11	13	17	23	33	37	37	19
Information updates	20	11	10	13	8	10	16	43	37	40	17
Multimedia/picture messaging	20	21	13	16	15	17	26	18	24	39	13
Yellow Pages - request information service	19	20	8	14	10	22	19	17	27	37	22
Share a picture while talking	19	20	11	17	13	14	22	19	20	39	14
Walkie talkie anywhere	19	14	12	16	11	18	23	23	17	29	26
Music download service	18	15	8	10	12	14	18	28	29	32	15
Photo editing	18	19	10	12	14	13	18	20	22	38	9
Financial/transaction service	17	10	11	6	6	23	20	21	27	34	12
TV in your mobile	16	11	7	9	9	10	14	30	25	36	11
Instant product info	16	12	6	14	8	17	15	20	20	33	14
Personal home page	13	18	8	6	9	6	12	24	11	27	11
Music video/movie trailers	13	10	6	7	8	6	13	22	24	29	9
Share a video clip while talking	13	10	6	11	7	9	17	17	14	26	9
Game download service	10	9	4	4	6	7	10	17	14	20	12
Banners	9	9	2	4	5	3	7	19	13	23	7

**NB.** When comparing interest figures from different countries, please be aware of cultural differences in the answering patterns. For example, Brazil and China show higher aspirations in their answers.

Base: All

Source: C&E Lab Global 10 survey 2005

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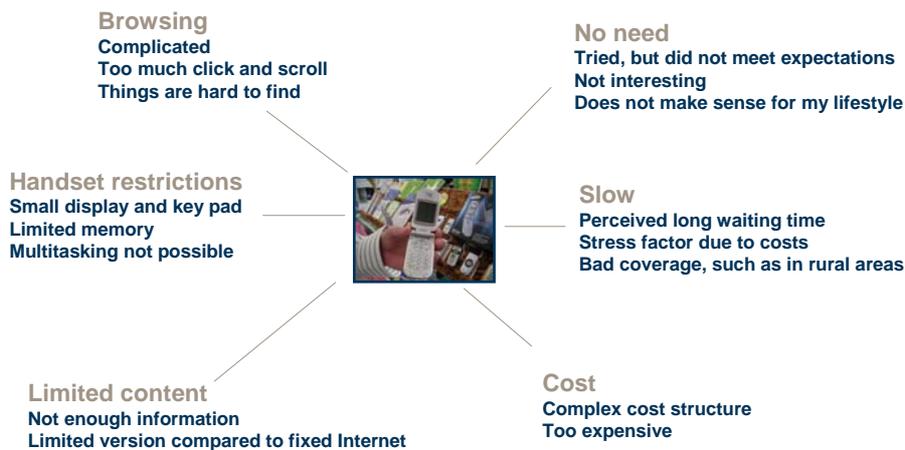
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## Fact n.2 : Barriers are still alive



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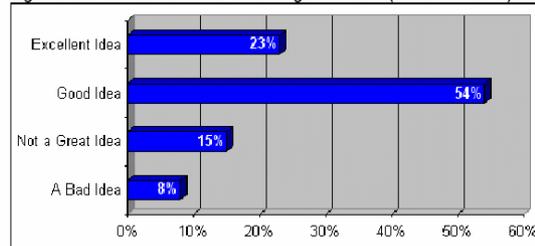
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## Fact n.3 : Early technology (i.e. better perception after trial)

In a July 2004 survey of approximately 500 participants in a mobile TV trial led by Broadcast Mobile Convergence (BMCO) Forum in Berlin, the vast majority (77%) responded positively.

Figure 3: What Do You Think About Using Mobile TV? (~500 Trial Users)



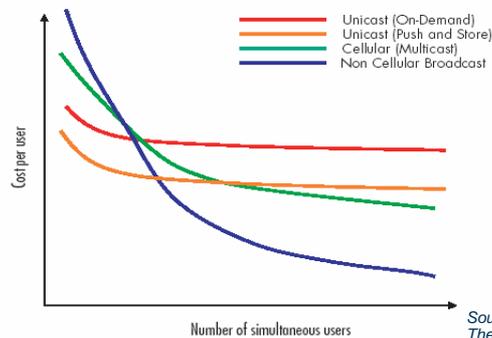
Source: BMCO User Survey / Goldmedia GmbH, July 2004

## Fact n. 4: Different technologies for different services

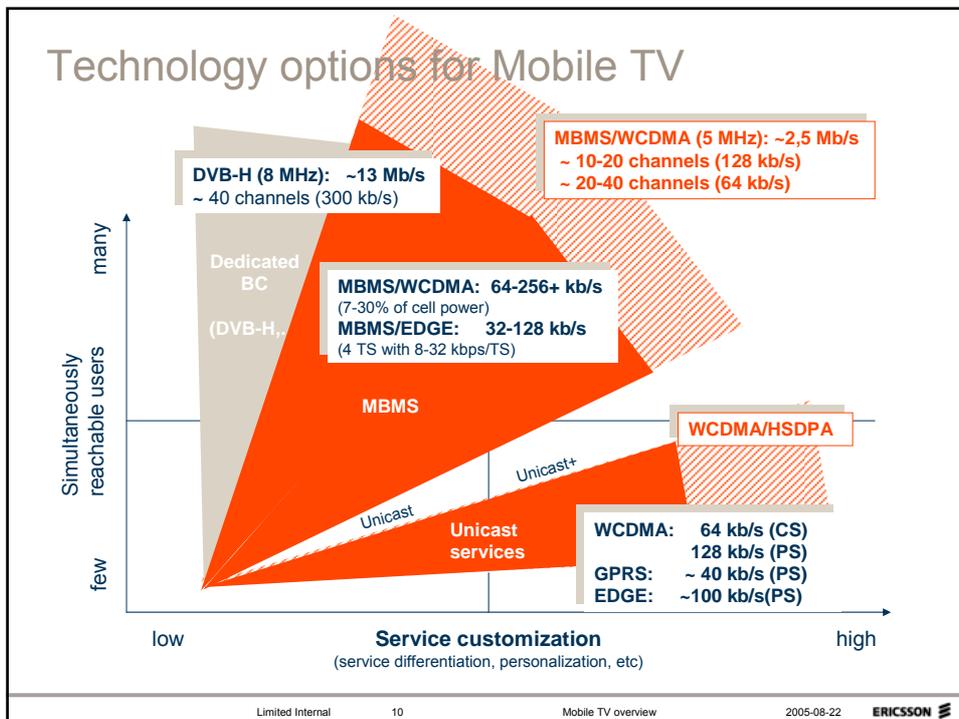
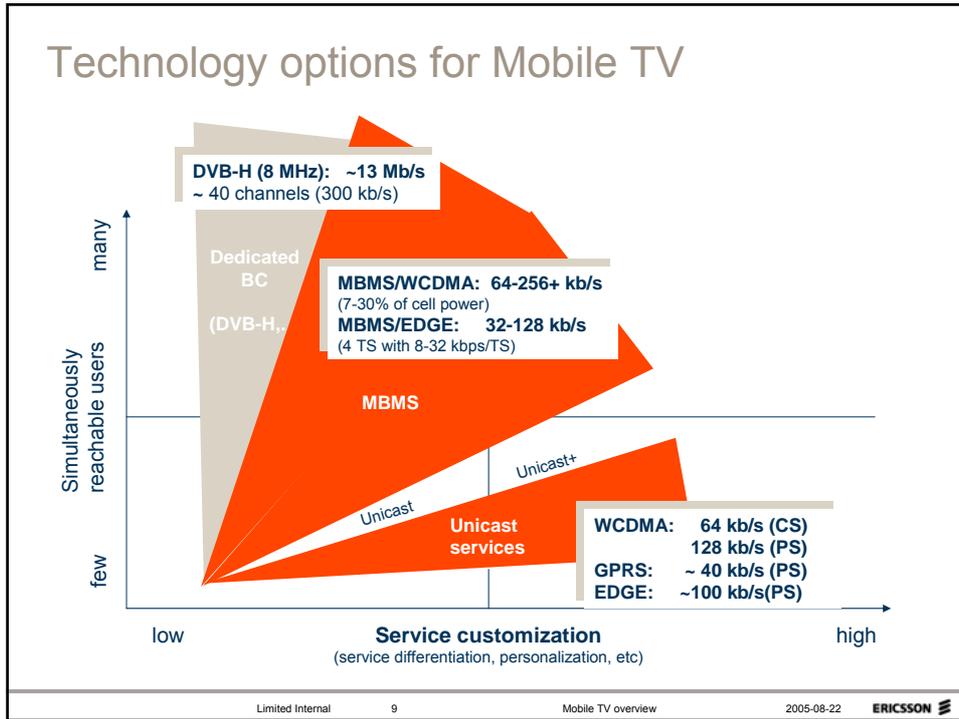


FIGURE 2.3

COST ECONOMICS OF MOBILE VIDEO DELIVERY MECHANISMS



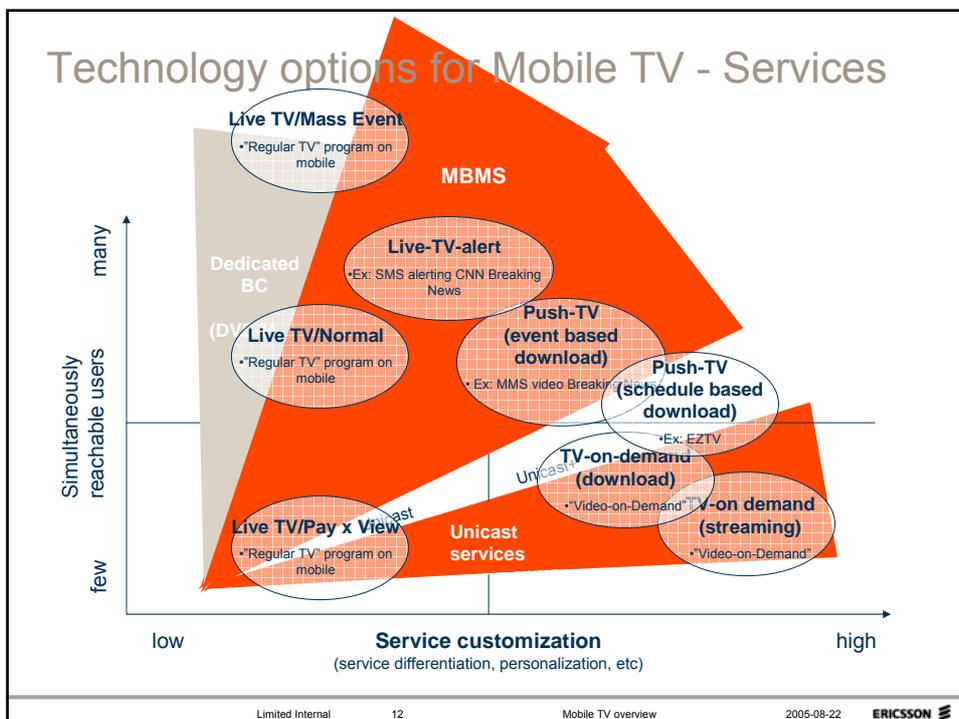
Source: "Mobile TV: Fact or Fiction?", May 2005, The Shosteck Group

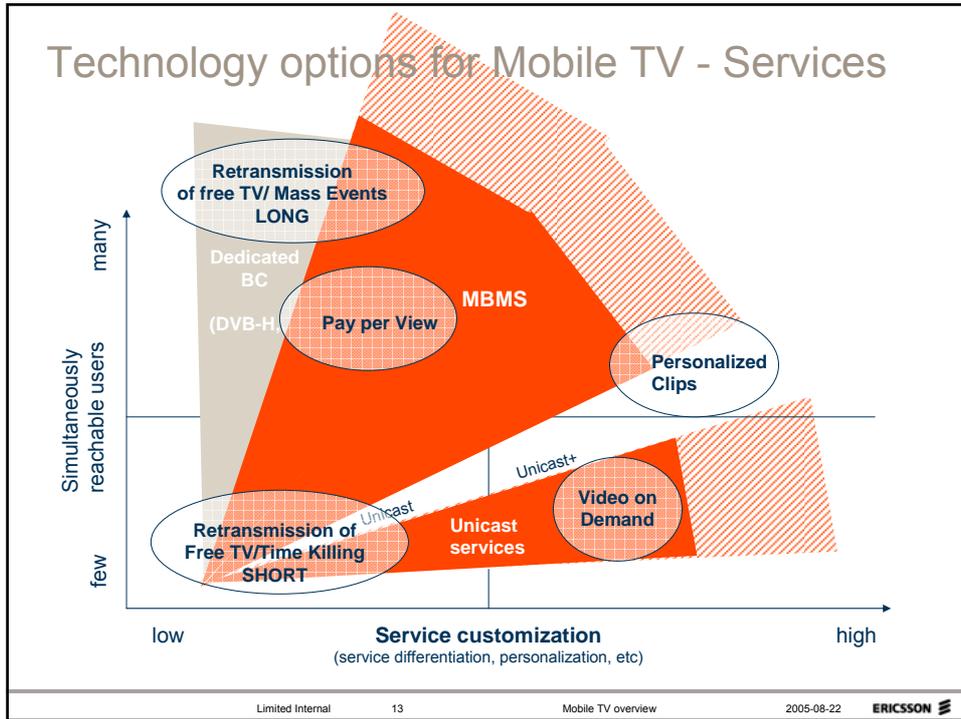


### Different Mobile TV services Analysis

	User distribution control	Broadcaster distribution control, event based	Broadcaster distribution control, schedule based
Consumption time = Distribution time	<b>TV-on demand (streaming)</b> •"Video-on-Demand"	<b>Live-TV-alert</b> •Ex: SMS alerting CNN Breaking News	<b>Live TV</b> •"Regular TV" program on mobile
Consumption time ≠ Distribution time	<b>TV-on-demand (download)</b> •"Video-on-Demand"	<b>Push-TV (event based download)</b> • Ex: MMS video Breaking News	<b>Push-TV (schedule based download)</b> •Ex: EZTV

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## Fact n.5 : Mobile TV $\neq$ Normal TV



Family Watching



Personal Watching  
Different user behaviour  
→ Different Use Cases

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## Fact n.6 : Mobile Terminals fast improving




- Better Displays**
  - higher resolution
  - more pixels
  - brighter...
- Enhanced Sound**
  - 3D, polyphonic
- More Personalization**
  - features, color
  - shape, skins, ...
- More Applications**
  - Sharing, Collaboration
  - team, chat, ...enterprise
- More Multimedia Support**
  - 3D acceleration, video, ...
- Better Camera**
  - higher resolution
  - snapshot/ video mode
- More...**
  - advanced speech recognition
  - gestures
  - positioning ...
- More Security**
  - DRM
  - Privacy, SSO

- More Openness**
  - Java, ...
  - Device management
- More Storage**
  - Gigabytes/HD
  - Memory cards
  - Short vs. long-term memory
- More CPU Performance**
  - Moore's law
  - 2x power / 18 months
- More Communications**
  - More bandwidth
  - New link types (,USB, WiFi ...)
  - Adhoc/PAN support
  - MBMS/DVB-H
- Reduced Power Consumption**
  - New display technologies
  - OS enhancements,
  - MRAM technologies ...
- Improved Network Support Services**
  - Backup, Sync, ...
  - Tighter Integration with "fixed" services

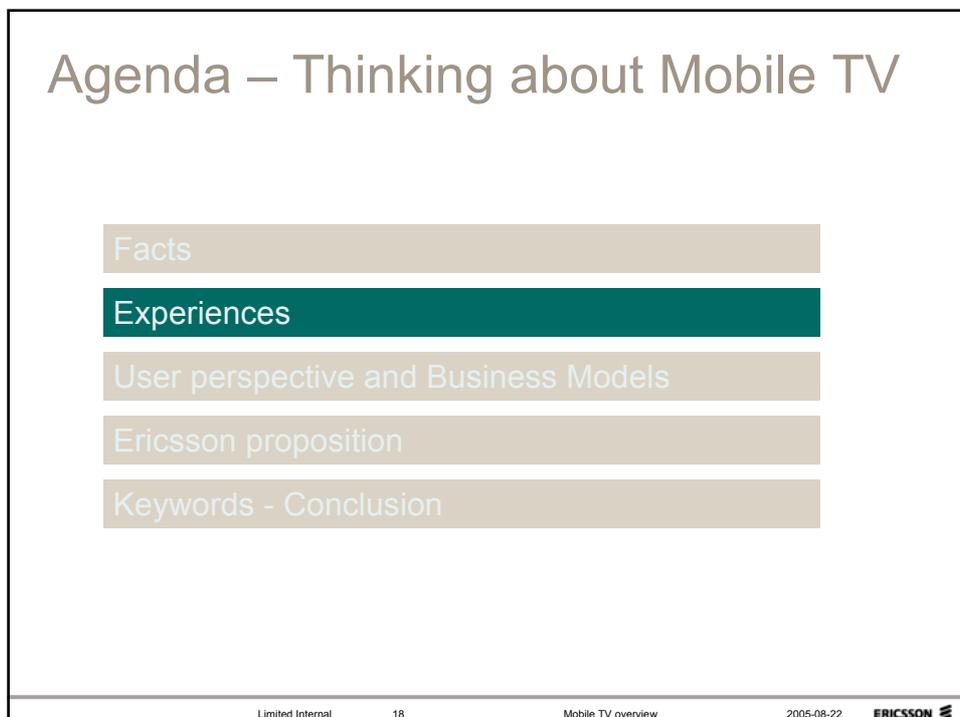
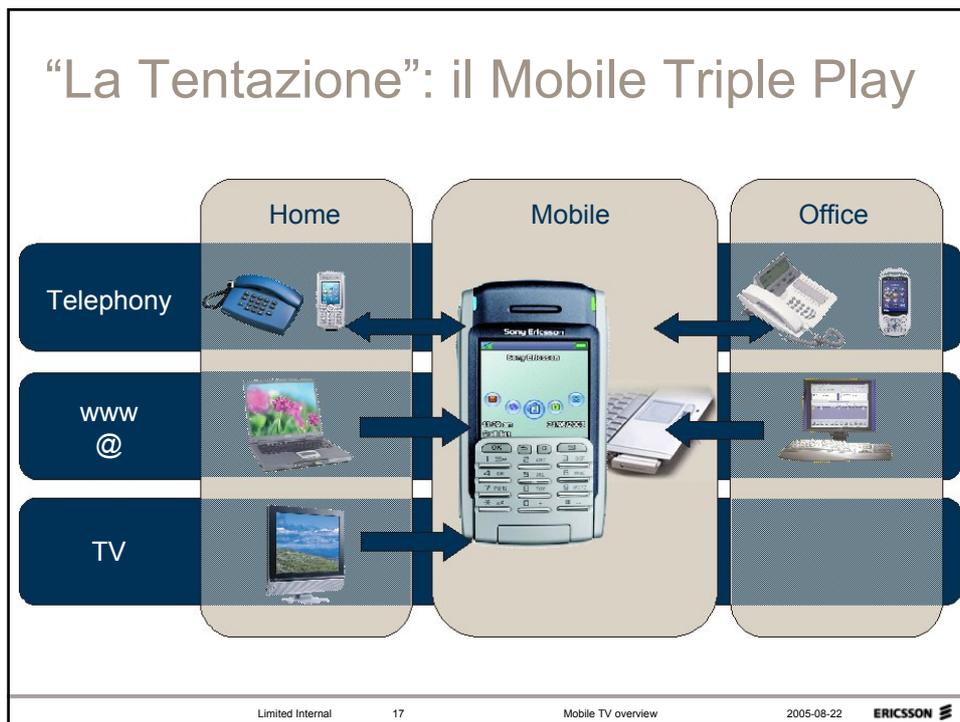
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## Fact n.7 : 3G penetration in Italy. 3G is a reality

- **Coverage:** 70 % of the population
- **Subscribers:** 6.6 million of 3G subscribers registered in the networks
- **Sites:** 18.000 3G sites activated
- **Terminals :** more than 20 types of 3G terminals available



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## Mobile TV is happening today

**AMERICAS**

Canada,  
Dominican Rep.  
Mexico  
Puerto Rico  
USA

**EUROPE**

Austria, France,  
Germany, Italy,  
Latvia, Luxembourg,  
Norway, Sweden,  
Switzerland, UK

**ASIA-PACIFIC**

Australia,  
Hong Kong,  
Japan,  
Malaysia,  
New Zealand,  
Singapore

Source: Ericsson

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## Mobile TV services

Operator	Country	Launch Date	Technology	Channels	Price
Orange	U.K.	June 2005	UMTS streaming	10	£10 for 1GB of data (~20 hours viewing)
Orange	France	Dec. 2004	UMTS streaming	50	Free weekends with 3G sub; €0.20 per minute at other times
Rogers Wireless	Canada	Apr. 2005	UMTS streaming	8	\$9 (US\$7.25)/month, plus data-transport costs of \$16
SFR	France	June 2005	UMTS streaming	20	€7 per month
SK Telecom	Korea	Jan. 2005	DMB-S	14 x TV, 22 x radio	\$13 (\$20 activation fee)
Sprint	U.S.	Aug. 2004	CDMA 1X streaming	>15	\$9.99 per month
Verizon	U.S.	Feb. 2005	EV-DO streaming	Downloads only (not real-time)	\$15 per month, unlimited
Vodafone	Germany	Nov. 2004	UMTS streaming	3 live, 15 special mobile channels	Free until end 2005, then 2 hours/mo. free and €3/hour thereafter

Source: 3G Americas, May 2005

Source: Unstrung Insider

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# Vodafone Germany

Vodafone-MobileTV  
**Schon mittags sehen, was abends läuft!**  
 Sehen Sie die aktuelle Folge GZSZ schon ab 13:00 Uhr

[mehr Infos](#)

- 100K users after 6 months (out of 400K 3G handset subscribers)
- 800K individual sessions/month
- 1.8 million minutes of use (2.25 mins per session)
- Marketed as a "free" service as part of a larger subscription package (i.e. focus was customer acquisition)

	<b>GZSZmobile</b> Preview auf die aktuelle Folge, Rückblick auf die letzten fünf Folgen, Archiv und viel mehr.		<b>Eurosport (live)</b> Das Live-Programm des Sportsenders - Sie verpassen keine Minute mehr!
	<b>CNNmobile (live)</b> Der Livestream des CNN-Programms - aktueller können Nachrichten nicht sein.		<b>Wetter-TV (live)</b> Die Morgenshow, das Businesswetter, Städtewetter und aktuelle Wetterkarten.
	<b>Fashion TV (live)</b> Alles vom Catwalk, Berichte von den Modemessen und Interviews.		<b>CinemaTV</b> Film und Filmstarts der Woche, Top 5-Kinofilme, Interviews und Making-Ofs.
	<b>Fußball</b> Die Highlights aus Bundesliga und Champions-League.		<b>MTV mobile</b> News und Infos, die Highlights aus den populärsten MTV-Shows, die MTV Charts und natürlich jede Menge Musik.
	<b>RTLmobile Video</b> VIP-News, Comedy, TV & Film, Wetter und mehr - eine bunte Mischung aus dem Programm von RTL.		<b>ProSieben mobile</b> Das Beste aus den Rubriken TV & More, Live & Specials, Boulevard, Lifestyle, Comedy und ProSieben Moviezone.
	<b>SAT.1 mobile</b> Das Beste aus den Rubriken TV & More, Live, Boulevard, Magazin, Comedy, Verliebt in Berlin und Sat.1 Film Film.		<b>Comedy</b> Die witzigsten Comedy-Clips aus den bekanntesten Shows TV Total, Rent-a-Pocher, Ladykracher und vielen mehr.

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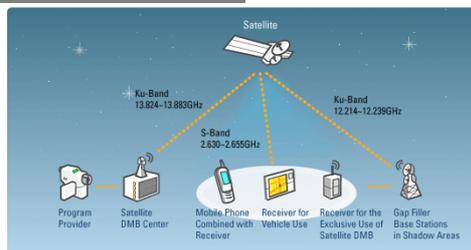
# Orange France

- 59% of mobile broadband customers are regular video and live TV users
- 700K accesses per month
- 1.1 million minutes of use (1.5 mins/access)
- Average 25 minutes of TV per user per month
- Most popular channels: CNN/ITV news

During work breaks	47%
At home	13%
While travelling	24%
Waiting for friends/ In a queue	16%

## SK Telecom, S. Korea

- Digital Media Broadcasting (DBM)
- 11 video, 25 audio and 3 data channels
- US\$13 per month
- 100K subscribers after 5 months (below SKT's target of 600K after 12 months)
- Peak times: 8-9am, 12am-1pm, 7-8pm, 11-12pm



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## Agenda – Thinking about Mobile TV

Facts

Experiences

**User perspective and Business Models**

Ericsson proposition

Keywords - Conclusion

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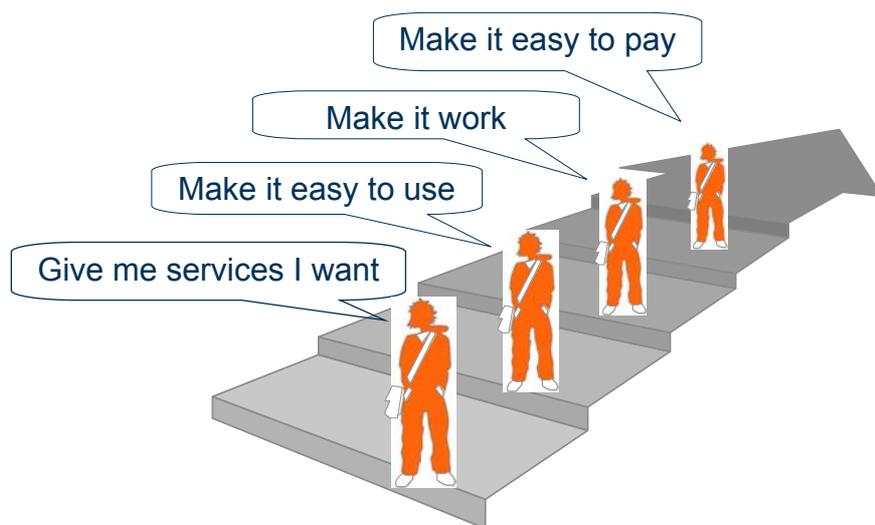
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## The Logic behind

*The Key quality of the mobile terminal  
is not that it is mobile but that it is  
**personal***

## Consumer expectations



## Personalized content is key

Why?

– Rational and emotional reasons

What?

– Content should be recognized

When?

– Situation based usage

4 to 5 channels is perceived to be enough for the individual

Source: Ericsson Consumer Lab's mobile TV usage survey, 2005

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## Mobile TV enables freedom of choice

- User perspective

**TV-on demand**



- Select Content
- Select Occasion
- Interactive & Personalized

**"Push TV"**



- Selected themes
- View when it happens
- Theme groups and latest information
- Interactive & Personalized

**Live TV**



- "Regular" TV
- Time schedule based
- Same or modified content as regular TV
- Interactive & Personalized

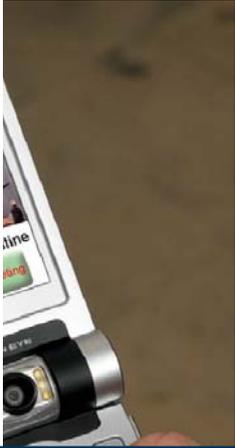
Users prefer to select when to watch Mobile TV

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## Payment Methods for Mobile TV

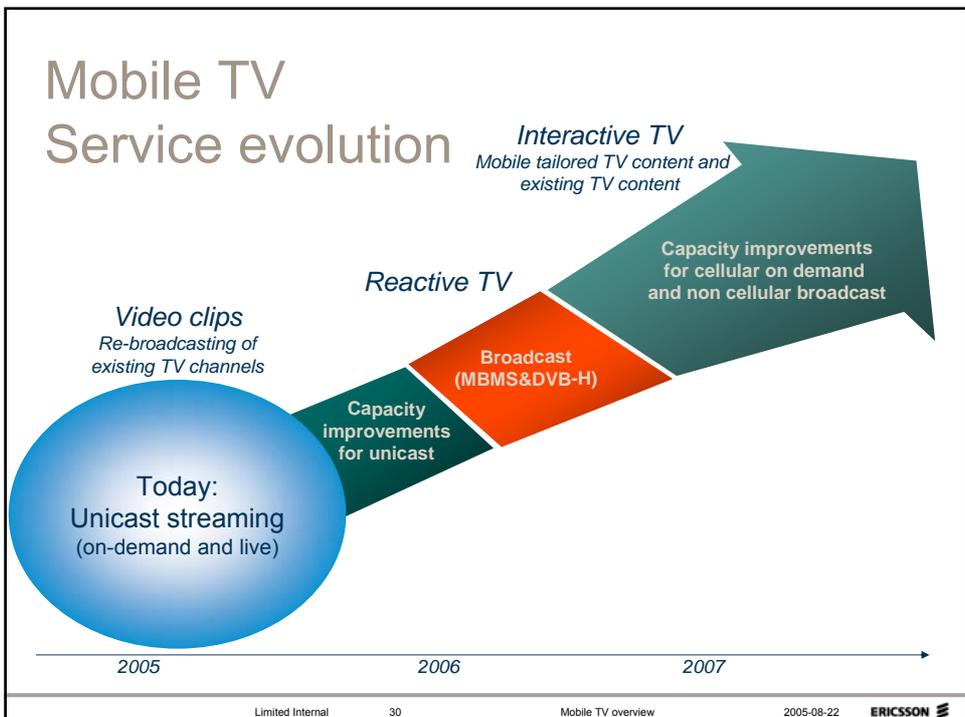
- Understandable and reasonable cost structure is key

- **Subscription**
  - Monthly fee, cable TV model
- **Advertising**
  - Free TV model
- **Interaction**
  - Voting & Greeting model
- **Pay per view**
  - Transaction based fees



A good mixture will stimulate usage of the service

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## Broadcast TV vs. On-demand TV

Broadcast TV

Interactive services on broadcast content (CATV, DTT,...)

Different ways for Customer interaction can respond to the needs of different customer and to the complementary of the same segment as well

On-demand TV

Personal TV, one-to-one interactivity (IPTV)

**New challenge for convergency**

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## Watching TV and Voting

Promotion  
User Guide  
Price Information  
All packed into the combined AV signal

Promotion  
Price Information  
Text / Data track

GUI  
Command  
Track

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## Watching TV and Greeting

### SMS-to-TV / MMS-to-TV

Greeting Message  
Promotion  
User Guide  
Price Information  
**All packed into  
the combined AV signal**

Promotion  
Price Information  
**Text / Data track**

GUI  
Command  
**Track**

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## Content Promotion / Advertising

Promotion  
User Guide  
Price Information  
**All packed into  
the combined AV signal**

Promotion  
Price Information  
**Text / Data track**

GUI  
Command  
**Track**

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# At Home: Interactive Remote Control

TV Signal off



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# At Home: Interactive Remote Control

Advertising



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## At Home: Interactive Remote Control Advertising

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## Business Models Usage on Move

€ Transaction  
"Ring tone Model"

€ Subscription  
"Cable (pay-) TV Model"

€ Interaction  
"Vote & Greet Model"

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# Business Models

Usage at home

**Mobile Marketing Approach**  
"sponsored by..."  
for free or low price:  
- get your ring tone  
- vote your favourite

€ **Advertising**  
"Free TV Model"

€ **Interaction**  
"Vote & Greet Model"

€ **Transaction**  
"Ring tone Model"

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# Business Models

Usage at home

**Mobile Marketing Approach**  
"sponsored by..."  
for free or low price:  
- get your ring tone  
- vote your favourite

€ **Advertising**  
"Free TV Model"

€ **Interaction**  
"Vote & Greet Model"

€ **Transaction**  
"Ring tone Model"

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# Agenda – Thinking about Mobile TV

- Facts
- Experiences
- User perspective and Business Models
- Ericsson proposition**
- Keywords - Conclusion

## Media at hand



2" screen, 2 watts, 2 feet away

### Media at Hand

42" screen, 200 watts, 10 feet away

Communication  
Communities  
Blogging  
Save time ↔ Fill time

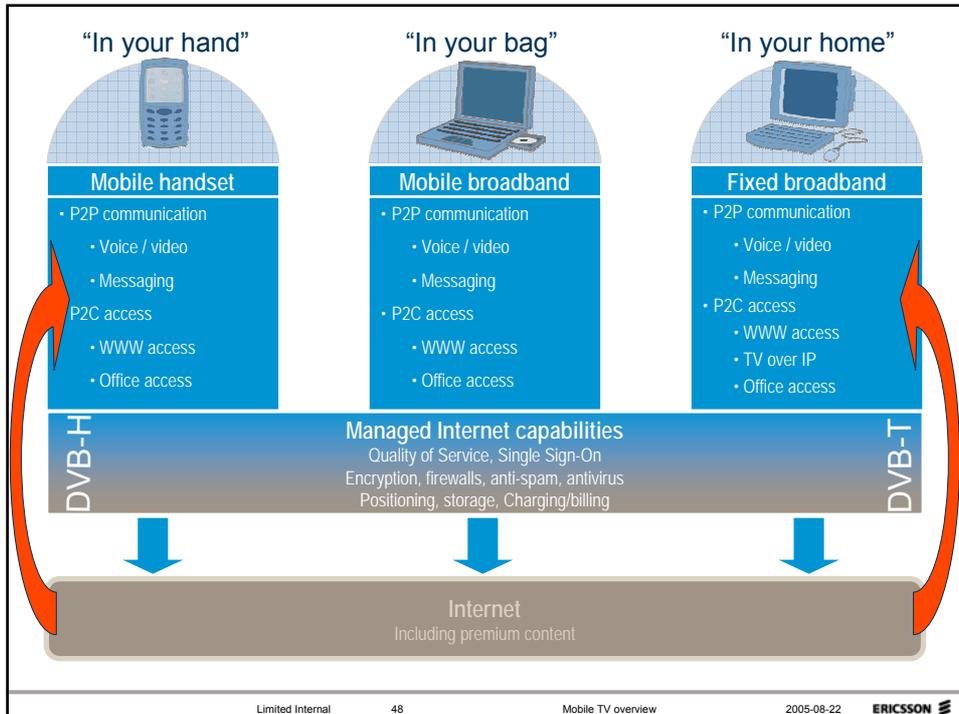
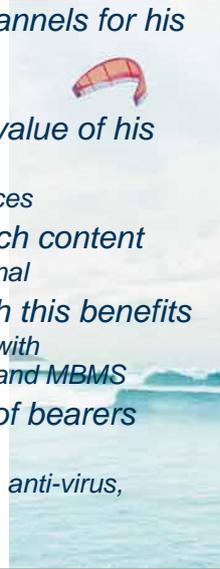
Interactive access  
to media and  
entertainment services

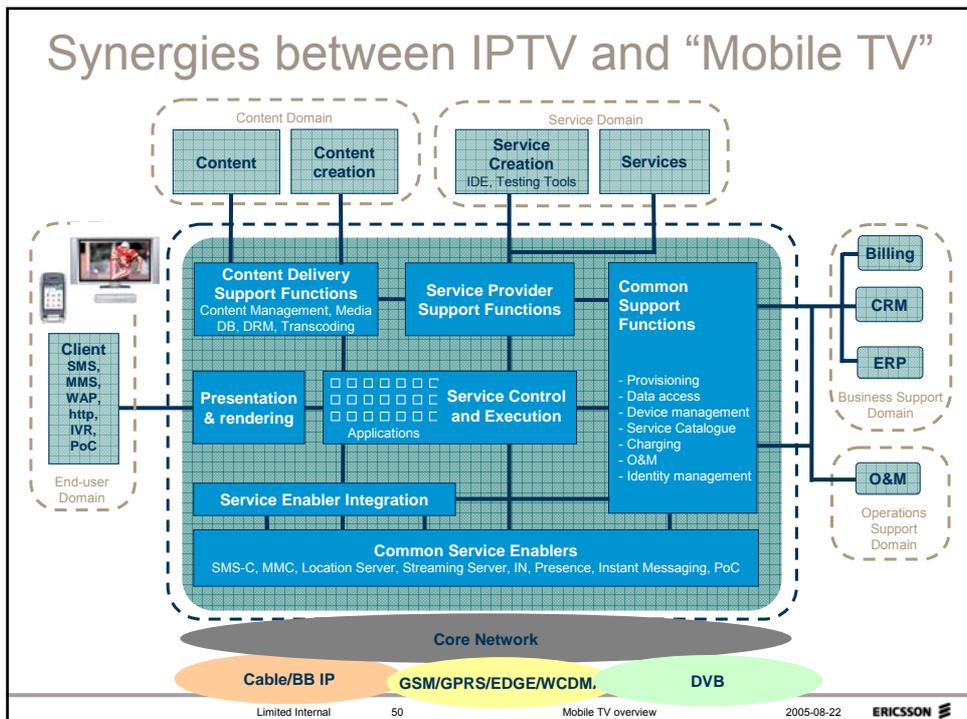
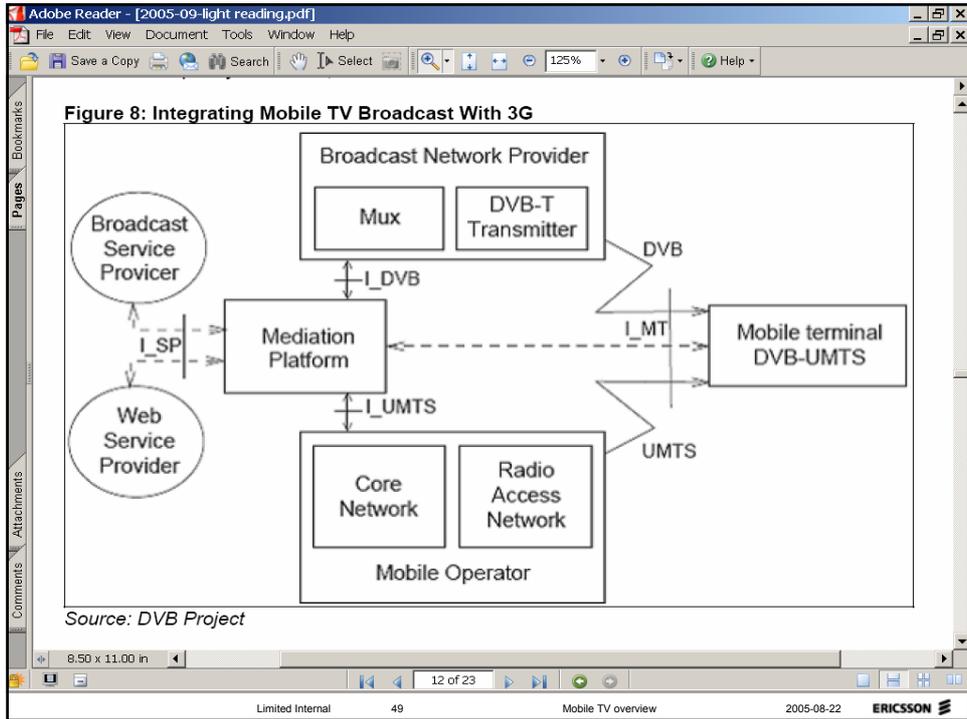
Payments  
Authentication  
Advertisements  
Personalization



## A few obvious...

- *Media industry is interested in finding new channels for his content*
  - *Mobile users are obvious targets*
- *Telecom industry is interested in pushing for value of his own assets*
  - *End user relation, network, sites, IT systems, services*
- *Mobile handsets will be a key interface to reach content*
  - *Several benefits: mobile, interactive, instant, personal*
- *A pure broadcast proposition is not fitting with this benefits*
  - *Broadcast media like DVB-H should be integrated with unicast/multicast media like existing GPRS/UMTS and MBMS*
- *The network operators can add value on top of bearers creating personalization services*
  - *Managed Internet capabilities with QoS, anti-spam, anti-virus, charging, positioning, interactivity*







**IPTV**  
Interactive  
Personalised  
TV

Full convergency between Broadcast and Interactive TV

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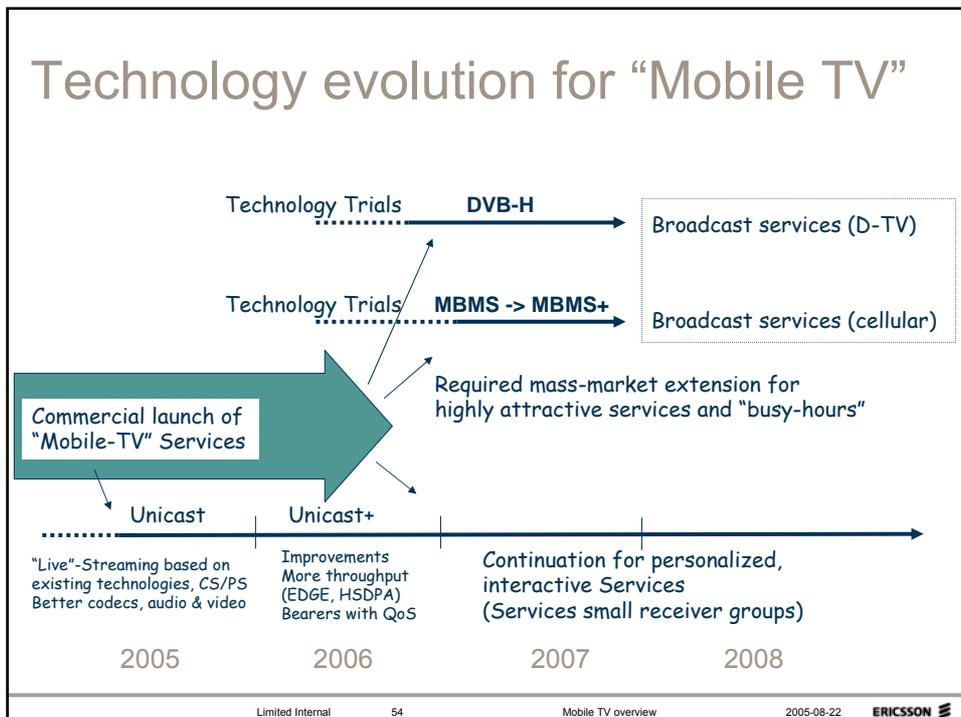
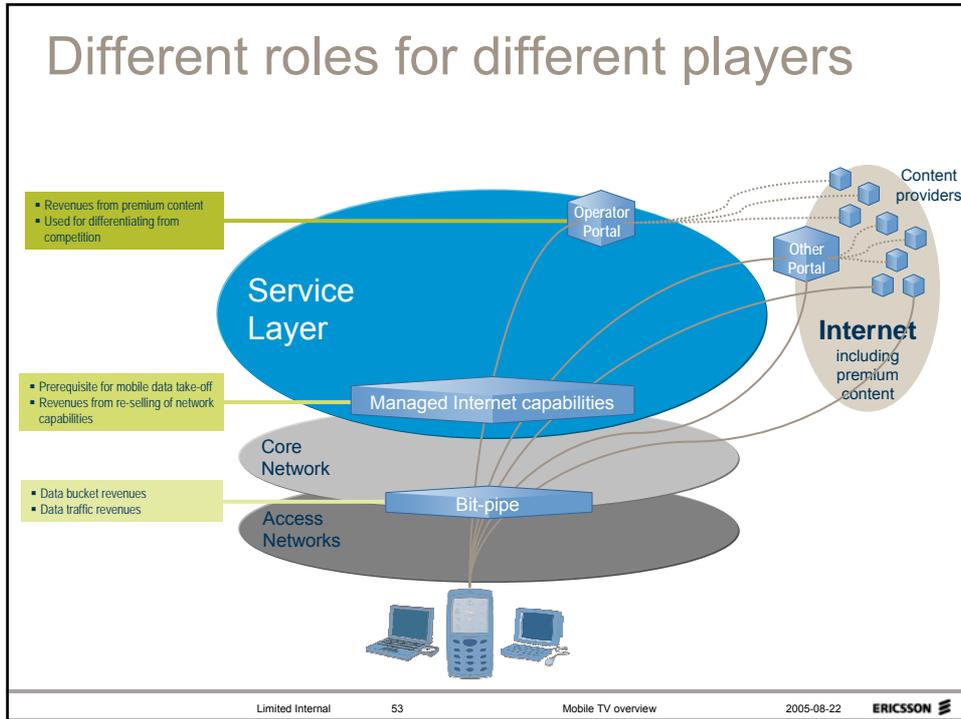


**Cornerstones in 'media at hand'**

- Access with an understandable cost structure  
– *bucket pricing of access*
- Low price of premium services, enabled through advertising  
– *sponsored content*
- Consumer require a personal experience  
– *convenience, reliability, security*
- Access to the media and Internet services from all devices  
– *service convergence*
- Possibility to easily share information between devices, possibility to backup devices information and settings  
– *personal online storage*

Operators enables this with Managed Internet capabilities

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Ericsson proposition

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## Key words

- Ericsson is willing to support and drive the “Media at Hand” proposition
- “Media at Hand” is an open world where any user can access to any content at any time
- In order to get end user attention mobile content should be INTERACTIVE and PERSONALIZED (IPTV)
- Different technologies and business models will support this vision and Ericsson is actively driving a proposition to support industry leverage around broadcast and telecom industry cooperation

