The changing face of communication

Social networking’s growing influence on telecom providers
IBM Institute for Business Value

IBM Global Business Services, through the IBM Institute for Business Value, develops fact-based strategic insights for senior executives around critical public and private sector issues. This executive brief is based on an in-depth study by the Institute’s research team. It is part of an ongoing commitment by IBM Global Business Services to provide analysis and viewpoints that help companies realize business value. You may contact the authors or send an e-mail to iibv@us.ibm.com for more information.
People are communicating more things to more people than ever before, and not just by phone anymore. Internet-enabled communication models are gaining audience, attention and market share at the expense of traditional telecommunication providers (Telcos). Can Telcos fight back and find new growth opportunities in this rapidly changing ecosystem? The challenge is not just in understanding the technology, but also the unfolding fundamental shifts in human communication behavior.

The face of communication has changed dramatically over the past few years. Traditional Telcos, which have historically dominated two-way interpersonal conversations, are increasingly being challenged by new market entrants that use open platforms to meet diverse and rapidly changing user wants and needs.

Social networking Web sites and services, such as Facebook, MySpace and Cyworld, have become primary communication media for a new generation of digitally aware consumers. Driven by high broadband penetration, maturing “social software” and readily available, affordable Internet-enabled multimedia devices, these sites and services are making inroads with enthusiastic users and garnering the attention of advertisers, consumer product companies and enterprises that are using social media to reach their customers, build brand loyalty and communicate with geographically dispersed employees, suppliers and partners.

The widespread social networking phenomenon reflects shifts in two long-term communication trends. First, there is a shift in communication patterns – from point-to-point, two-way conversations, to many-to-many, collaborative communications. Secondly, control of the communication environment is transitioning from Telcos to open Internet platform providers, enabled by better, cheaper technology, open standards, greater penetration of broadband services and wireless communication networks.

The combined effect of these trends is altering the competitive landscape in communications and giving rise to emerging business models that include:

- Open and Free – This model features companies that offer one-to-one communi-
In the short term, as the industry transitions to more open and collaborative communication models, the traditional model will likely remain dominant. Over the long term, however, the industry can expect a shift toward models that facilitate collaboration and sharing, with Shared Social Spaces attracting a more significant and impactful share of people's communication time.

Over the short to medium term, Telcos should focus on laying the foundation for a more open and collaborative future. They can begin by taking advantage of the window of opportunity in mobile social networking and also bolster their capabilities to serve the evolving, broader communication needs of enterprises. They should partner with, or acquire, existing players to proactively develop the capabilities required for success, or enable other participants in the value chain to benefit from distinctive telecom capabilities. Using network and computing infrastructure optimization techniques, they can reduce the cost of delivering high bandwidth content and potentially capture value from it. Over the long term, Telcos should embrace a broader definition of communication – one that encompasses everything from two-way conversations to many-to-many communications – and align the organization with this reality. Also, Telcos are well positioned to enable a cross-platform, fully integrated experience across mobile, fixed and IPTV services.

A new ecosystem is emerging from these long term shifts in communication trends that will require bold, significant changes by existing telecom providers. The option of doing nothing is not a luxury many providers can afford, as revenues from traditional services continue to decline and highly resourceful Internet information providers and IT companies enter the communications space to claim a larger share of communication time.
The changing face of communication

Social networking’s growing influence on telecom providers

The changing face of communication

A burgeoning market in social networking

Social networking, perhaps considered a “communication fad” in recent years, is transcending that phase and becoming an activity woven into the intrinsic fabric of the Internet. Throughout the world, Internet users are turning en masse to such sites as Facebook and MySpace to meet their communication needs. Consider, for example, that before 2005, not a single social media network was ranked among the world’s top 20 English-language Web sites.\(^1\) By June 2008, social networking sites comprised half of the same list, displacing many traditional Internet “stars,” such as AOL (see Figure 1).

Overall, the number of unique monthly visitors to the top six social networking sites increased 95 percent between June 2006 and June 2007 – and then another 50 percent from June 2007 to June 2008.\(^2\) According to data from comScore, the global Internet information provider, unique visitors to social networking sites in June 2008 represented approximately two-thirds of the world’s Internet audience.\(^3\) Based on the projected growth of the global Internet audience, we estimate that by 2012, the number of unique monthly visitors to social networking sites will surpass 800 million.\(^4\)

In South Korea, considered by many to be the world’s most developed social networking

---

FIGURE 1. Top 20 English language Web sites.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yahoo!</td>
<td>Yahoo!</td>
<td>Yahoo!</td>
</tr>
<tr>
<td>2</td>
<td>MSN</td>
<td>MSN</td>
<td>Google</td>
</tr>
<tr>
<td>3</td>
<td>Google</td>
<td>Google</td>
<td>Youtube</td>
</tr>
<tr>
<td>4</td>
<td>Microsoft</td>
<td>MySpace</td>
<td>Live</td>
</tr>
<tr>
<td>5</td>
<td>Passport</td>
<td>Live</td>
<td>Facebook</td>
</tr>
<tr>
<td>6</td>
<td>eBay</td>
<td>eBay</td>
<td>MSN</td>
</tr>
<tr>
<td>7</td>
<td>Amazon</td>
<td>Youtube</td>
<td>MySpace</td>
</tr>
<tr>
<td>8</td>
<td>Offeroptimizer</td>
<td>Microsoft</td>
<td>Hi5</td>
</tr>
<tr>
<td>9</td>
<td>Fastclick</td>
<td>Amazon</td>
<td>Orkut</td>
</tr>
<tr>
<td>10</td>
<td>Doubleclick</td>
<td>Orkut</td>
<td>Rapidshare</td>
</tr>
<tr>
<td>11</td>
<td>Go</td>
<td>Blogger</td>
<td>Blogger</td>
</tr>
<tr>
<td>12</td>
<td>Alibaba</td>
<td>Google UK</td>
<td>Megaupload</td>
</tr>
<tr>
<td>13</td>
<td>CNN</td>
<td>Passport</td>
<td>Fotolog</td>
</tr>
<tr>
<td>14</td>
<td>BBC</td>
<td>BBC</td>
<td>Friendster</td>
</tr>
<tr>
<td>15</td>
<td>165.254.12.202</td>
<td>Craigslist</td>
<td>Microsoft</td>
</tr>
<tr>
<td>16</td>
<td>AOL</td>
<td>Go</td>
<td>eBay</td>
</tr>
<tr>
<td>17</td>
<td>Google UK</td>
<td>CNN</td>
<td>Megarotic</td>
</tr>
<tr>
<td>18</td>
<td>Gator</td>
<td>Alibaba</td>
<td>Google UK</td>
</tr>
<tr>
<td>19</td>
<td>eBay UK</td>
<td>Megaupload</td>
<td>Amazon</td>
</tr>
<tr>
<td>20</td>
<td>Searchscout</td>
<td>IMDB</td>
<td>Internet Movie</td>
</tr>
</tbody>
</table>

Social media sites

Note 1: The traffic rank is based on three months of aggregated historical traffic data, and is a combined measure of page views and users (reach).
Note 2: Due to the way Alexa assigns “language”, multilingual Wikipedia, which is in global top 20, is not shown in this list.
Source: Institute for Business Value (IBV) Analysis; Alexa Internet Web Search – top 20 English Language Web Sites.
Social networks have become primary destinations for online users to organize their Internet experience.

In the United States, 80 percent of young adults, 60 percent of teens and 30 percent of adults use social networks. Not only are social networks generating a significant amount of online traffic, visitors to leading social networking sites also view more pages per visit than any other category of Internet site, including such online portals as Google and Yahoo. This opens the door for potential revenue generation as social networks, like most online service providers, base their business model on trading page views for advertising dollars.

Already, savvy marketers have begun to experiment more heavily with this concept. They spent US$2.1 billion on social network advertising in 2008, almost double the US$1.2 billion spent in 2007. By 2012, if the current trend continues, social networking ad revenues could reach $3.8 billion, provided the right business model can be found.

**The new online portal**
Social networks have done more than attract users and ad revenue away from traditional Internet sites. They have become a primary destination for online users and represent the next stage in the evolution of the online experience, serving as control points for managing and enriching a user’s digital lifestyle. They bring together user-generated and professional content, communication tools and services, online connections, applications and collaborative tools from blogs and podcasts, to wikis and widgets (see Figure 2).

**Communication and content distribution**
With numerous communication tools at their disposal, social networks are becoming integrated communication hubs. The integration of MySpace and Skype, for example, illustrates how social networks and communication applications can converge to benefit users. With more than 118 million active MySpace users and over 370 million Skype registered users around the world, this partnership connects two of the most

---

**FIGURE 2.**
Social networking sites are becoming online portals.

Sources: Institute for Business Value analysis.
Enterprises are leveraging social network applications to improve collaboration with customers, employees, partners and suppliers.

popular communication platforms on the Internet “to create the world’s largest online voice network.” MySpace members can make Internet phone calls using Skype’s telephony network and MySpace’s instant messaging program. 

Social networks are also increasingly becoming channels for digital content distribution, using their network of relationships to push information to users. In November 2007, for instance, Bebo launched its “Open Media” platform that offers media companies such as BBC, MTV and BSkyB an additional distribution outlet. And Apple is tapping into the popularity of social networking sites by embedding its iTunes Internet music download service into the Bebo Web site.

**Expansion and extension**

Traditional mainstream Internet sites and major consumer brands are beginning to recognize the value of social networking, not just for the potential advertising dollars it may generate, but also for e-commerce and the built-in mechanisms it employs to communicate with customers.

eBay, for example, has created more than 600 micro-social networks called eBay Neighborhoods, where members can access blogs, guides, reviews and product searches, and then click to visit related auctions. And big-name brands, such as Coca-Cola, Victoria’s Secret and Webkinz, have ventured into this newly charted arena by using social networks to generate brand awareness and affinity. Depending on a brand’s goals, affiliating with a social network site – or possibly creating its own – can bring in an audience of customers, contain them and allow them a voice whenever appropriate.

Enterprises are also learning the value of a solution that facilitates communication and collaboration among employees, partners and suppliers. Social networks provide the opportunity to bridge the gap in communication and collaboration created by enterprise globalization. For example, General Motors uses social networking tools to facilitate communication between executives and employees, as well as to give product experts the opportunity to present new designs to the employee community. Motorola’s “Intranet 2.0” initiative has met with considerable success, with 70,000 people using it every day, including partners. The company now has 4,400 blogs and 4,200 wiki pages. It uses, among other technologies, social networking, bookmarking and tagging.

**Telcos are getting in on the act**

A number of Telcos are already responding to the challenges and opportunities of social networking. Many have initiatives underway that range from simply enabling online social networking sites, to extending their offerings to the mobile communication environment, to even building their own, proprietary social networks.

For example, SK Communications, a subsidiary of SK Telecom in South Korea, acquired Cyworld in 2003 and is now generating approximately US$200 million per year from selling digital items and advertising. In 2005, the company started a joint venture with EarthLink to launch a mobile virtual network operator called Helio, which merged into Virgin Mobile in July, 2008.
In early 2007, Vodafone struck a deal with MySpace to enable MySpace users to access their profiles from Vodafone cell phones. To today, Vodafone has a similar arrangement with Facebook. U.S. telecom operators Sprint, Verizon, AT&T and Virgin Mobile provide MySpace and Facebook on their mobile devices.

Vodafone’s “Connect to Friends” is an application embedded within social networks that facilitates communication with friends, regardless of where they are, with SMS (short message service) and MMS (multimedia message service) from either a PC or a mobile phone (see sidebar, Vodafone – Extending telecom capability to open social networking).

Vodafone – Extending telecom capability to open social networking

The “Connect to Friends” application from Vodafone is a messaging application users can download from Facebook. It is open to Vodafone and non-Vodafone customers and allows them to send messages and photos directly from Facebook. Free messaging credits are offered to attract users and to encourage viral marketing. Further messaging credit packs are applied to the customer’s phone bill using the e-commerce service Pay4it. The provision of “Connect to Friends” enables Vodafone to reach out to customers across other online channels and helps drive customer conversion.

Trends in communication evolution

The widespread social networking phenomenon is a reflection of shifts in two long-term underlying trends in communication:

1. Communication patterns are shifting from point-to-point, two-way conversations to many-to-many, group communications and collaboration.

2. Shift in communication control is transitioning from provider-controlled environments to open Internet platform service providers with greater opportunities for user participation.

Shifts in communication patterns

“Communications overall is shifting from ‘point-to-point’ to ‘many-to-many,’ in order to socialize and enjoy an experience more deeply – people consuming content together and interacting during that experience from virtually anywhere in the world.”

– John Stankey, President and CEO, AT&T Operations

Communication patterns are changing from personal and conversational, to sharing and collaborative, augmented with links, videos, photos and other multimedia content that substantially enrich the communications experience. This is being enabled by greater global connectivity, the availability of affordable, high-quality content and communication devices, and the rise of social software.

Traditional interpersonal communication, usually via the telephone, allows expression, but does not provide group or collaborative capabilities. As Professor Clay Shirky, a leading authority on the social and economic effects of the Internet at New York University’s Interactive Telecommunication Program observes, “The telephone, the technological revolution that put the most expressive power in the hands of the individual, didn’t create an audience; telephones were designed for conversation.”
The availability and convergence of mobile communication and the Internet are now creating a platform that enables group communication encompassing many participants through shared spaces in virtually any geographic location.

The so-called “Net Generation,” composed of “digital natives” who have grown up in a technology-enabled environment, is at the forefront of this phenomenon. According to Pew Research, on average, a typical 21-year-old in the United States entering the workforce today has played video games for 5,000 hours, exchanged 250,000 e-mails, instant messages and phone text messages, has 10,000 hours of cell phone use and has spent 3,500 hours online.27

The new generation of digital natives is far more likely than their parents to own a digital music player, to have posted writing, pictures or video on the Internet, to have created a blog or profile on a social networking site, to have downloaded digital content such as songs, games, movies, or software, to have shared a remix or “mashup” creation with friends and to have snapped a photo or video with a cell phone.28

For many of this generation, social networking is even supplanting e-mail as the preferred method of communication. But they also use social networking for more than communication and content sharing. They use it to develop their identities, meet friends or form relationships that become part of their individual social graphs, which are becoming key resources for harnessing collective wisdom or opinion from “trusted” individuals.

But the shift away from traditional telecommunication to social networking is not limited to digital natives. A growing number of adults now use technology to get what they need from each other, instead of from traditional media and institutions. Nineteen percent of consumers in the 2007 IBM Digital Consumer survey said they spent more than 6 hours per day on personal Internet activities.29 Only 9 percent indicated they watch the same amount – or more – of television.30

As shown in Figure 3, social networks are used instrumentally to reinforce social ties.

**FIGURE 3.**

The most popular activities in social networking are communications/staying in touch.

- Talk to friend/family a lot: 69%
- Talk to friend/family I rarely see: 65%
- Look for old friends I have lost touch with: 47%
- Look at other peoples’ sites without leaving a message: 40%
- Talk to people who are friends of friends: 35%
- Listen to music/find out about bands: 29%
- Talk to people I don’t know: 17%
- Look at campaigns and petitions: 6%
- Other: 4%

Shift in communication control

Widespread availability and affordability of connectivity and communication tools/devices are also shifting control of communication media away from the domain of Telcos and toward a more open communication platform.

The majority of households, individuals and businesses in developed nations have Internet access, and the number of Internet users in emerging economies is growing rapidly. In September 2008, there were 452 million broadband subscribers worldwide (more than the total number of households in the United States, Britain, France, Japan, Korea and Germany), expected to grow to 876 million by 2012. At the same time, data connectivity speeds have increased considerably – from 56Kbps modem connectivity speeds only a decade ago to 8-16Mbps today. Some countries support bandwidth up to 90Mbps currently. The costs of connectivity and storage have also declined significantly, and the availability of Internet-enabled devices, with increasing user interface sophistication, is enabling richer, more immersive experiences.

With better, cheaper technologies and greater use of broadband, the Internet, and wireless networks, “Over the Top” (OTT) providers, such as social networking sites, are becoming ever-more viable platforms for communication services – and consumers are responding eagerly.

Impact of shifts on the emerging communication landscape

The combination of shifts in communication control and patterns is redefining the competitive landscape, giving rise to new business models. In contrast with traditional communication models, emerging models are based on open platforms that support many-to-many and/or collaborative communication patterns (see Figure 4).

Source: IBM Institute for Business Value analysis based on publicly available data from eMarketer, Datamonitor, Skype, ABI Research and The Radicati Group, Inc.
Traditional communication

The traditional model, characterized by two-way point-to-point communication is the domain of traditional Telco providers. It is the largest segment in terms of revenue and subscribers, but it is showing signs of slow growth as other models take hold. Wireline revenue is declining and although, according to Gartner Inc., global mobile services revenue is forecast to grow 7.6 percent from 2007-2012, the mobile subscriber base has reached saturation in key developed markets.  

Open and Free

This model offers alternatives to traditional point-to-point communication services on open Internet platforms. Companies in this domain provide basic communication services such as VoIP for free or at very low cost. Many of these services threaten profitable traditional services such as long distance calling and mobile roaming.

Providers in this space include VoIP provider Skype, Google with Google Talk and Microsoft with Windows Live Messenger, which offer PC-to-PC voice services along with instant messaging and chat. With over 370 million registered users worldwide, Skype has, in a matter of five years, come close to creating a truly global telecom service. While Skype’s level of growth is impressive, there remains some skepticism about the ability of these types of new entrants to provide the high quality of service required to support professional, error-free business communications.

Many of the players in the “open and free” space, such as Microsoft and Google, have considerable resources and leave little room for a commercially viable response from Telcos beyond repackaging existing services into “convenience bundles.” Some Telcos, however, seemingly have embraced the model and are partnering with disruptive new entrants. The mobile operator 3 in the United Kingdom and Italy, for example, has partnered with Skype to launch the 3 Skypephone, which enables 3 subscribers to make free calls and send free Skype instant messages from their 3G mobile phones to other Skype users. As first movers, this partnership has the potential to attract and retain customers. However, while the benefits to Skype are obvious, it is too early to assess the true commercial value to 3.

Gated Communities

This model is also the domain of traditional communication service providers, but the focus is more on many-to-many communications rather than point-to-point. This is essentially a “walled-garden” approach in which operators facilitate collaboration services that will appeal to users and enterprises with a preference for the more secure and reliable communications environment traditionally provided by telecoms.

Gated Communities include both fixed (online) and mobile social networking. It is our view, however, that walled-garden social networking sites are unlikely to be successful as the majority of consumers have demonstrated a
Mobile social networking provides a short-term opportunity to increase use of SMS, MMS and even voice traffic.

Telecom companies do have a window of opportunity in this model, however, by enabling mobile social networking on existing mobile network architectures, which, for the most part, remain closed platforms. Developments in smartphones and the mobile Internet, however, will gradually blur the advantage of mobile exclusivity. Forecasters estimate that by 2012, mobile social networking will represent a market opportunity of between US$22.5 and US$52 billion.\(^3^9\)

Recent studies have revealed that more than 40 percent of iPhone users in the United States, Germany, France and the United Kingdom are visiting social networking sites.\(^4^0\) In South Korea, a mobile user visits Cyworld on average 11 times per day.\(^4^1\) The mobile service of the Japanese social network Mixi, which started as an online site, has turned out to be hugely successful with mobile page views already outnumbering online page views.\(^4^2\)

A number of traditional communication service providers have formed partnerships with open social networking providers to incorporate such services into their telecom environments. For example in October 2008, Telefonica signed a global agreement with Facebook allowing it to integrate access to Facebook’s mobile service and applications from all of Telefonica’s mobile portals.\(^4^3\)

Enterprise-level collaboration has significant potential in this “Gated Communities” space. Many governments and corporations are redefining their communication needs beyond voice telephony and e-mail, and are looking to productively employ Web-based collaboration tools such as blogs, wikis and social networking to help transform their organizations by achieving greater coordination and communication with their customers, employees and partners (see Figure 5).

While traditional telecom companies are often perceived as conduits of information, the opportunity exists for them to serve enterprises – and governments – with a broader set of innovative communication solutions that encompass collaboration in a secure, reliable environment with agreed service level guarantees.

![FIGURE 5. Businesses and organizations are leveraging social network applications to improve collaboration with customers, employees and partners.](source)

Shared Social Spaces facilitate collaboration on the open Internet. The main providers in this space are OTT applications such as MySpace, Bebo, YouTube and Facebook. But also virtual worlds such as Second Life belong to this domain and have integrated voice and text-based communication capabilities to connect to friends, even from mobile phones.44

A number of key players in the “Open and Free” model are also offering services in this space, such as Google with its social network Orkut.45 Other companies entering the fray include Microsoft with investments in Facebook, and Nokia with its OVI/Share platform.46 As many of these players integrate telephony services, they have the potential to become fully integrated, end-to-end communication platforms.

While there has been significant growth in social networking, we believe the revenue model remains unproven. Regardless, these media are drawing attention away from traditional communication service providers and are contributing to their slowing growth. Over the long run, they have the potential to generate reasonable revenue streams from advertising and other sources as dollars begin to follow “eyeballs.”

Still, telecom providers need to care about Shared Social Spaces and, especially, OTT applications that put additional strain on already-burdened network infrastructure, particularly with the rapid increase in video content sharing and distribution. According to a BBC News report, the United Kingdom communications regulator Ofcom estimates these types of OTT services will impose additional £830m (US$1.4 billion) in bandwidth costs on UK Internet service providers (see sidebar, Free OTT services cost network providers).47

It is projected that by 2012, the sum of all forms of online video, including TV, VoD, Internet and peer-to-peer (P2P), will account for nearly 90 percent of all consumer Internet traffic, a large portion of which will flow through OTT applications (see Figure 6).48

![FIGURE 6. Global consumer Internet traffic forecast, 2006–2012.](image-url)
The dramatic increase in OTT traffic alters the equation for telecom operators and will likely force them to develop new business and revenue models. However, the massive investment required to satisfy consumer appetites for rich content is likely to exacerbate the tension between network providers and OTT providers.

To deal with over-burdening OTT traffic, telecom operators have options that include filtering or blocking OTT traffic, but this is unsustainable in many jurisdictions as it violates net-neutrality principles. Another option is to use Content Delivery Network (CDN) technology to relieve the load over the backbone and the Telcos’ servers. By caching replicas of content and applications at multiple locations in the network, the CDN allows telecom operators to distribute content and applications closer to the end user and to realize more effective P2P traffic routing. This overcomes issues such as network bandwidth availability and congestion during peak usage periods and reduces the need for increasing core network capacity. Telecom operators can pass the cost of CDN investments on to customers through higher or differentiated broadband fees and/or reaching agreements with CDN providers to jointly fund these additional costs (see Figure 7).

**Free OTT services costly for network providers**

The launch of BBC’s iPlayer Internet TV service in December 2007, an OTT service based on a P2P architecture, created a bandwidth capacity crunch for a number of Internet service providers (ISP). For the UK ISP PlusNet, there was a 72 percent increase in the number of customers using more than 250 megabytes of streaming video per month and 100 percent growth in those using more than 1 gigabyte. The cost for PlusNet to carry this OTT service increased by more than 200 percent per month, and was not recoverable from customers.

<table>
<thead>
<tr>
<th>Service Provider</th>
<th>Revenue Model</th>
<th>Charges Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telco/ISP access</td>
<td>Subscriptions, Pay per use</td>
<td>Typically no charge</td>
</tr>
<tr>
<td>CDN</td>
<td>Peering/CoLo charges to shift content</td>
<td>Charges for amount of data cached</td>
</tr>
<tr>
<td>OTT providers</td>
<td>Content, media and applications</td>
<td>Variety of transactions/models</td>
</tr>
<tr>
<td>Internet core</td>
<td>Peering charges for access to content</td>
<td>Per click or basic ad revenue</td>
</tr>
<tr>
<td>Facebook</td>
<td>Internet core</td>
<td></td>
</tr>
<tr>
<td>YouTube</td>
<td>Global networks transporting Internet traffic</td>
<td></td>
</tr>
<tr>
<td>myspace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iTunes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FIGURE 7. New business models to capture value from OTT traffic.**

Source: IBM Institute for Business Value.
The changing face of communication

Toward an open and collaborative future

Emerging communication models are fragmenting audiences and shifting customers away from traditional telecom providers. While traditional providers continue to claim the largest number of subscribers, it is the users of social networking sites and open Internet communication services that are growing at significantly faster rates, even as take-up of traditional services accelerates in emerging economies. YouTube and Facebook, for example, claim the third- and fourth-highest share of global online minutes respectively.51

In France, user time spent on Telco services in 2005 constituted only 53 percent of the total time spent on communication, down from 95 percent in 2000 (see Figure 8).52 In the United Kingdom, BT’s share of voice call minutes declined from 62 percent in 2000 to less than 50 percent in 2006.53

At the same time, UK adults spend an average of 3 hours a week on social networks, with 6 percent of the population engaging for 11 hours.54 Not surprisingly, teenagers are spending significantly more hours on social networking than other segments of the population.55 As many more people use social networking – and for potentially increasing periods of time – traditional providers’ share of overall communication minutes will continue to decline and long-term revenues are likely to fall as a result of increased competition and greater availability of lower cost alternatives.

![Figure 8](source: Left chart: iDate: “Telecom 2.0: emerging usage and implication for carriers, June 2006: Capgemini, Telecom versus Online, August, 2007. Right chart: OfCom: Communications Market report, August, 2007.)

Over the long-term, the largest share of incremental communication time will trend toward new providers and models.
Although there is a substantial migration from the traditional communication model to the alternative Shared Social Spaces model, in the short-term, all four models will co-exist. Traditional models will continue to be attractive to those who place a premium on reliability and quality of service, including corporations and enterprises. But, over the long-term, the largest share of incremental communication time will trend toward new providers and models.

**Recommendations and next steps**

The social networking phenomenon arose from significant shifts in communication, driven by the widespread growth of Internet connectivity and the emergence of interactive online communication tools. These shifts have been redefining a century-old industry, with the result that the advantages enjoyed by traditional communication service providers are beginning to wane. Telcos can, however, remain relevant in the face of changing user sentiments and demands if they take bold steps to adapt to this evolving marketplace.

Over the short to medium term, telecom providers should focus on the following to lay the foundation for a more open and collaborative future:

1. Exploit opportunities in the Gated Communities by enabling mobile social networking in current “closed” networks to capture a share of potential revenues, which are forecast to reach between US$22 billion and US$52 billion by 2012.56

2. Partner with, or acquire, existing social networking players to proactively develop the capabilities required for success, including experimenting with new revenue-generating services. For example, Vodafone’s acquisition of Zyb – the social networking and online management tool for backing up and sharing contact and calendar information – demonstrates how a mobile operator can extend social networking from PCs to the mobile device with a view toward increasing data services revenue while delivering a much richer and unified communication experience.57

3. Enable other participants in the value chain – including advertisers, virtual operators and application developers – to benefit from telecom capabilities such as location, presence, text/multimedia messaging services, and conference calling, while providing access to customer analytics to help enhance services and offerings.

4. Bolster capability to deliver fully integrated enterprise communication services that combine voice, Internet-based communication and collaborative communication models. Enterprise spending on Web 2.0 collaboration technologies is forecast to grow to US$4.6 billion globally by 2013, with social networking as the top spending category.58 Partnerships with enterprise communication providers, software vendors and/or system integrators can be an efficient path to delivering these services.
5. Work more closely with CDN and/or OTT providers to reduce the cost of delivering high bandwidth content (e.g. video, music) in response to increasing demands for such services. This can be achieved through network and computing infrastructure optimization techniques such as traffic shaping, use of faster-than-realtime progressive downloads in place of realtime streaming, and caching of content close to the edge of the network using CDNs. Such approaches can potentially lead to new business models that capture more value from this increasing OTT traffic, enabling an enhanced user experience through improved quality of service and innovative service partnerships that take advantage of this optimized environment.

Over the long-term, as communications transition to Shared Social Spaces, telecom providers should:

1. Broaden the scope of their traditional telecommunications business to more actively encompass both point-to-point communications and many-to-many collaborative communication models, and align their organizations and industry partnerships accordingly. This has strategic and transformational implications for the business, impacting areas such as product and services offerings, skills, platforms, revenue models and markets, among others.

2. Create more compelling Gated Communities by delivering a cross-platform, fully integrated communication and collaboration experience across mobile, fixed and IPTV services. This will enable Telcos to stem their loss-of-share of communication time, as well as reduce churn, by offering a differentiated, premium-value service that promises greater flexibility, ease-of-use and a consistent experience on any communication platform, anytime, anywhere.

The nature and medium of communications are being rapidly altered by the move of users to environments that offer less expensive – but more expressive – capabilities to facilitate both one-to-one and group communications with more people than ever before. These shifts are creating a new communication services ecosystem that will require significant and bold changes by existing providers if they wish to remain an integral part of a changing landscape. The journey will not be without risks, but the option of doing nothing is a luxury few can afford. Revenues from traditional services continue to decline, and highly resourceful Internet information providers and IT companies are entering this space to accommodate the collaborative, many-to-many services that are claiming a significantly larger share of the overall communications marketplace.
About the authors

Rob van den Dam is the telecommunications leader at the IBM Institute for Business Value for Europe, the Middle East and Africa. In this role he develops industry outlooks and business value realization studies for the telecom sector. He has more than 15 years experience of working in telecommunications. Rob has written or co-written numerous papers and articles on telecommunications and media, including “Fighting for Viewers – IPTV versus Internet TV,” “A Future in Content(ion),” “Primetime for Mobile Television,” “Cash, Credit, or Phone” and “Mobile Advertising, Ads on the Move.” He can be contacted at rob_vandendam@nl.ibm.com.

Ekow Nelson leads strategic thought leadership for telecommunications, media & entertainment and utilities at the IBM Institute for Business Value. A management and information technology consultant for over 20 years, Ekow has worked in a range of advisory and implementation roles, from strategy and business development to systems integration and project management for major telecommunications and media organizations. He is author of numerous papers and articles in telecommunications including “Telecom switches emphasis,” “A Future in Content(ion)” and “The Innovation Paradox in the Telecom Industry,” published both by IBM and external publications including The Annual Review of Communications and the Journal of Telecommunications Management. He can be contacted at ekow.nelson@uk.ibm.com.

Zygmunt Lozinski is the IBM technical leader for the telecom industry in Europe. His focus is on the application of software technology to the next generation network, the definition of open APIs for the network, implementation of open APIs using Web services and Java in service delivery platforms, and the use of Web 2.0, including linking mobile networks to Facebook and Second Life. His most recent work is on the implications of cloud computing for telecom providers. He can be contacted at zygmunt_lozinski@uk.ibm.com.

Executive sponsors and contributing editors

Chris Pearson, Partner and Global Telecom Industry Leader, IBM Global Business Services

Mike Hill, General Manager, Global Telecommunications Industry, IBM

Nick Gurney, Partner and Communications Sector Leader Asia Pacific, IBM Global Business Services

Daniel W. Latimore, Executive Director, Institute for Business Value, IBM Global Business Services

Contributors

We would like to thank all those who provided, guidance and assistance in the development of this paper, in particular Geoff Parkins, Joseph Ziskin, Stephen Chey, Thomas Ross, Paul Reilly, Matthew Stankey, Andreas Neus, Karen Feldman and executives of companies who agreed to be interviewed for this paper.

About IBM Global Business Services

With business experts in more than 170 countries, IBM Global Business Services provides clients with deep business process and industry expertise across 17 industries, using innovation to identify, create and deliver value faster. We draw on the full breadth of IBM capabilities, standing behind our advice to help clients implement solutions designed to deliver business outcomes with far-reaching impact and sustainable results.
References


2. Institute for Business Value analysis based on information from Comscore, the global Internet information provider.


7. Institute for Business Value analysis based on information from comScore, the global Internet information provider, June 2008


9. Ibid.


11. Ibid.


18. Ibid.

22 Ibid.
23 IBM Institute for Business Value analysis.
25 Ibid.
29 “IBM Consumer Survey shows decline of TV as primary media device.” August 22, 2007. IBM Institute for Business Value.
30 Ibid.
34 Ibid.


50 Ibid.


55 Allen, David. “Kids spend twenty hours online a week.” Tech Watch. http://www.techwatch.co.uk/2008/03/25/kids-spend-twenty-hours-online-a-week/


