

KBytes

leading edge news

“3D Hologram Technology” used to broadcast Narendra Modi’s rallies all over India

BJP’s prime ministerial candidate Narendra Modi is using the advanced 3D hologram technology, to address around 1,000 rallies in different States on the same day.

How are Narendra Modi’s live rallies on a single day at several places made possible?

This has been made possible by the use of 3D-Hologram Technology. BJP is performing virtual campaigns using 3-D hologram technology in such a large scale for communication during the election period. With the use of 3D Hologram Technology, Modi addresses lakhs of people at the same time,



sitting at one place. Narendra Modi had previously also used this technology. It was used by him for the first time for his election meetings in 2012 to address voters over 53 locations in Gujarat simultaneously.

What Is Holography?

Holography is the science of producing holograms. This advanced form of photography permits the light scattered from an object to be recorded in 3 dimensions and later reconstructed.

Hologram Properties:

A Hologram when looked from various angles, projects different perspectives. It normally looks like a glittering picture or smear of colors and if cut in half, each half comprises of whole views of the entire holographic image.

How 3D Holographic Projection Technology used in Narendra Modi’s campaign works?

The technology used in Narendra Modi’s campaign is based on “Hi-Definition Projection Technology”.

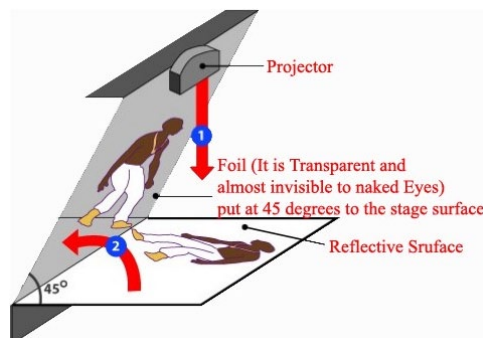
The technique

Narendra Modi is captured in a 3D Aspect with a Special Hi-Definition Camera on a specially built Stage and then Projected “As Is” at several remote locations “At-A-Time”.

This necessitates the use of a laser, interference, diffraction, and light intensity recording and suitable illumination of the recording. The image alters as the position and orientation of the viewing system alters. The public (audience) at the other end of the stage

experience the presence of Narendra Modi (projected “Virtual” person) in front of them and, without even wearing any kind of 3D glasses.

Holography may be viewed as analogous to sound recording, in which a sound field created by a vibrating material viz. musical instrument or vocal cord, is encoded in such a manner that it can be reproduced afterwards, without the presence of the original vibrating matter. Similarly, in



Based on Pepper’s ghost illusion technique

Top Bytes

I know that all of us at Kohinoor live and breathe the vision that we share – To Grow Perpetually. But, in today’s times and world it is imperative that we adopt the rapidly changing technology around us to help us fulfill this vision. As Tim O’Reilly has put it aptly, “What new technology does is to create new opportunities to do a job that customers want done”. And being in businesses that provide various services to our customers we have to do just that. I am sure that with KBytes bringing you the leading edge news relevant to our businesses this process of adopting technology will receive an impetus and take us a step closer towards our goal. My best wishes to the editorial team at KBytes in all their efforts in bringing out this newsletter. And to the rest of you I wish a happy and valuable reading experience!

Unmesh Joshi

CMD, Kohinoor Group

Holography a light field (produced from a light source scattered off objects) is recorded and afterwards reconstructed when the original light field is no longer present, because of the absence of the original object.

This technique is grounded on “Pepper’s ghost”, a theatre proficiency used for centuries in plays and magic tricks for developing illusions. In the ingenious re-imagining of the Pepper’s Ghost technique a patented foil, completely invisible to the naked eye, is rigged at 45° all over the stage. The stage reflects back the content from the projector upwards to the foil which gives a feeling of a real 3D moving live image on the stage.

How technology is set to transform India's fragmented education system

{HYPERLINK <http://www.theguardian.com/technology/2014/may/07/technology-transform-india-education-system>}

India has no strategy for technology in the classroom, but entrepreneurs and nonprofits are braving the odds in the sector. In 2012, engineer Raghav Gajula moved to an east Delhi slum to work as a teacher at a private school for low-income families.

Schools aren't using equipment

Recognising the increasing importance of technology in education and employment, the Indian government has a scheme that grants every public school district, regardless of the number of schools it contains, of Rs. 5m [£49,700] every year to invest in educational technology. Districts



Smart Classes

Top Bytes

Technology in business is a growing necessity and it plays a vital role in the business world. Most importantly technology increases organizations' capacity for innovation, which can be a key differentiator between market leaders and their competitors. New technology can not only speed processes up, or allow flexible new ways of working, but can transform how the business functions and can often save time and resources.

Tomorrow's world will be dominated by knowledge industries, where business and technology integration will occur naturally. This will require business people to understand technology and use knowledge at every stage in their domain of work. KBytes is the organization's initiative to keep you updated with emerging technologies. My best wishes to the Editor of KBytes and his team for their initiative of taking out this Newsletter. I am sure it will be of immense value to Kohinoor as well as to each one of you.

Major General Yash Sharma
VP (HR & Admin)

have to submit a proposal in order to be granted the funds. The government estimates that 22% of primary schools have a computer, but the reality is that many schools aren't using the equipment they have.

Five of Gajula's students at a local government school know their school has a computer centre, but none of them can remember using it.

In India's booming private education sector, technology is being adopted much more quickly. As many as 400 educational technology firms have launched in the past 10 years, yet the quality and longevity of their products is far from uniform.

In August 2013, India's most prominent educational technology company, Educomp Solutions, laid off 3,500 workers. Educomp had done a great job selling digital learning materials and a multimedia whiteboard to as many as 14,500 schools, according to a company brochure. But some schools were unsure what to do with the technology, and critics say the firm failed to train teachers to use the equipment. Some cancelled orders, and in other schools the equipment went unused, according to an investigation by Forbes India. The company's value dropped by nearly two-thirds between May 2013 and April 2014.

Personalised educational content

"Now, the customer is very sceptical,"

says Neil D'Souza, founder and CEO of Zaya Learning Labs, a three-year-old ed tech company based in Mumbai. "You have many schools which have bought solutions or been donated solutions which don't add any value to their learning." Zaya has 15 in-school learning labs, where students share tablets and computers that stream personalised educational content.

Companies has previously focused on delivering services to India's high-end private schools, says D'Souza, where teachers were more technologically literate and where the revenue model was proven. But Zaya focuses on the growing number of low-income private schools, where many teachers aren't regular technology users. But Zaya faces challenges when it comes to profits. Affordable private schools charge fees between Rs. 300 and 1,500 [£3-£15] per student per month. In order for an ed tech solution to be viable in this space, it should ideally be priced at less than Rs. 50 [50p] per student per month, says Shabnam Aggarwal, founder of the ed tech advisory Perspectiveful. She says that's a very difficult target for most companies to meet.

Educational philanthropies and nonprofits may be able to provide a bridge, finding ways to make technology interventions affordable and

Continued on pg 03....

scalable for lower-income students. One such philanthropy is the Central Square Foundation (CSF). It has been developing a library of free and open-source educational content in Indian languages, something that founder and CEO Ashish Dhawan says private companies have little incentive to do.

A product for the low-income segment

A former private equity investor, Dhawan says India is now at an inflection point with educational technology, as internet and hardware penetration are set to explode in the next few years. Inspired by this belief, CSF has also invested money and time in trying to find revenue models for ed tech in the low-income space. "We thought: why don't we give a grant to

create a product for the low-income segment?" says Dhawan.

A year and a half ago, CSF tied up with MindSpark, a company that already provides adaptive learning tools in elite private schools, to test the company's software on low-income and government school students. The students come to the centres for an hour a day, six days a week, to learn Hindi, maths and English. They spend half their time working with a personalised adaptive computer program, and half working with a teacher.

When the pilot started, the students were about two years behind their age group, says Dhawan. Although they've now improved, it's still a struggle to get them to the point where they'll perform

well on tests. Dropouts are common and the pilot still hasn't proven a revenue model, Dhawan says. The parents, who pay 200 to 250 [£2-£2.50] hard-earned rupees a month for the program, want results in grades, viewing education as a path out of a life of hard manual labour for their children. But for the students, technology offers a window on a different world. The students in Gajula's class type messages and paint pictures, dreaming of the day they will start using the internet. Twelve-year-old Parsunath Sahoo describes his father's long days working in a factory that makes pots and pans, but Parsunath dreams of joining the police. "On the internet, you can do anything," he says.

The Gansu Wind farm in China is the largest wind farm in the entire world.

The Gansu Wind Farm Project is located in desert areas near the city of Jiuquan in two localities of Guazhou County and also near Yumen City, in the northwest province of Gansu, which has an abundance of wind resources.

The project is divided into multiple phases. The first 3,800 MW phase consists of eighteen 200 MW wind farms and two 100 MW wind farms. The second 8,000 MW phase will consist of forty 200 MW wind farms. The planned capacity is 5,160 MW by 2010, 12,710 MW by 2015 and 20,000 MW in 2020.

The top nine Apple executives made as much in 2011 as 95,000 Chinese workers making Apple products.

The executive leadership team of Apple (nine members in all) was compensated a total of \$441 million in 2011. In contrast, it took a total of 95,000 Chinese factory workers at Apple's supplier, Foxconn, to earn an equivalent amount in wages. Those numbers vary slightly from year to year but are expected to be similar.

Tech trivia

According to scientists, the more you use Facebook, the more unhappy you are!

Every time you log in to Facebook and check up on your friend's vacation pictures, crush's status update, or fan group of your favorite show, you get a little more moody. Turns out, the more you press the "like" button, the worse your mood gets! The test group consisted of 82 college-aged volunteers who answered questionnaires five times a day for two weeks straight, then rated their well-being at the beginning of the study and the end.

Black boxes are made to withstand severe conditions— but they're not black, and they're not even boxes!

Black box is a combination of a voice and data recorder.

It would have cost NASA more to fake the first moon landing than it would have to just land on the moon.

The fact is, we had the technology to land on the moon, but we did not yet have the technology to fake it in 1969!

Conspiracy lovers argue that the film was shot on Earth and then just slowed down to emulate the minus-gravity effect of the astronauts strolling around on the moon. However, the camera required to do that didn't exist at the time

{HYPERLINK <http://www.omgfacts.com/Technology/The-Gansu-Wind-farm-in-China-is-the-larg/61902>}

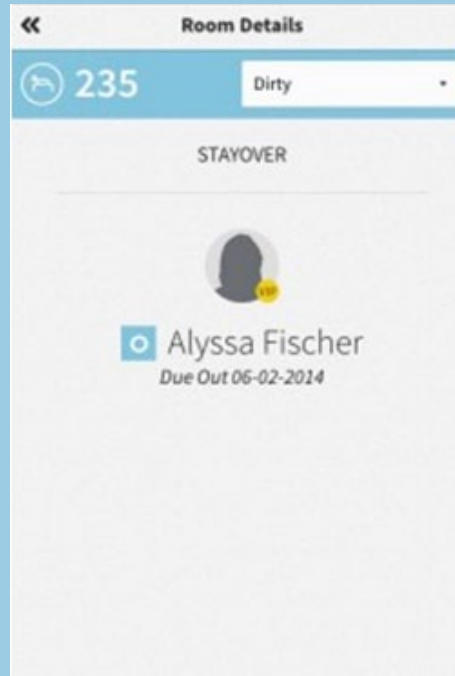


"How come you have given me only a name but no password?"

Hotel Housekeepers.. Throw out your clipboards! Get A “simple” Hotel Housekeeping App

We have spend most of our time on this blog talking about mobilizing your hotel software for guests, enabling mobile check in and out for both your guests and staff. These options can add some nice up sell opportunities to a hotels bottom line and offer great service enhancements. But today's hotel software offers mobile opportunities not only for the front of house, new cloud based vendors also offer simple hotel housekeeping apps and mobile web, to increase staff efficiency and reduce cost.

It's a daily routine in most hotels, maids on the look out for rooms to clean, guests leaving late, which leads to the always annoying morning knocks on the guests door. The guest feels rushed, while the maid loses valuable time, trying to find the next room to clean. Once a room is found; Is that the right room to clean? Might another guest already waiting for his preferred room? As soon as the maids and housekeepers are out on the floor they rely on their clipboard with the printed reports. These reports are out of sync with the hotels real inventory and room status, the minute they are printed.



Hotel's can gain a great operational advantage from implementing mobile housekeeping service solutions. Maids can potentially use their own smartphone to login into the “PMS” and check which rooms are ready to be cleaned, change the status of the room when they are done from dirty to clean, or check the guests name, before knocking on the door.

(The above screens show room

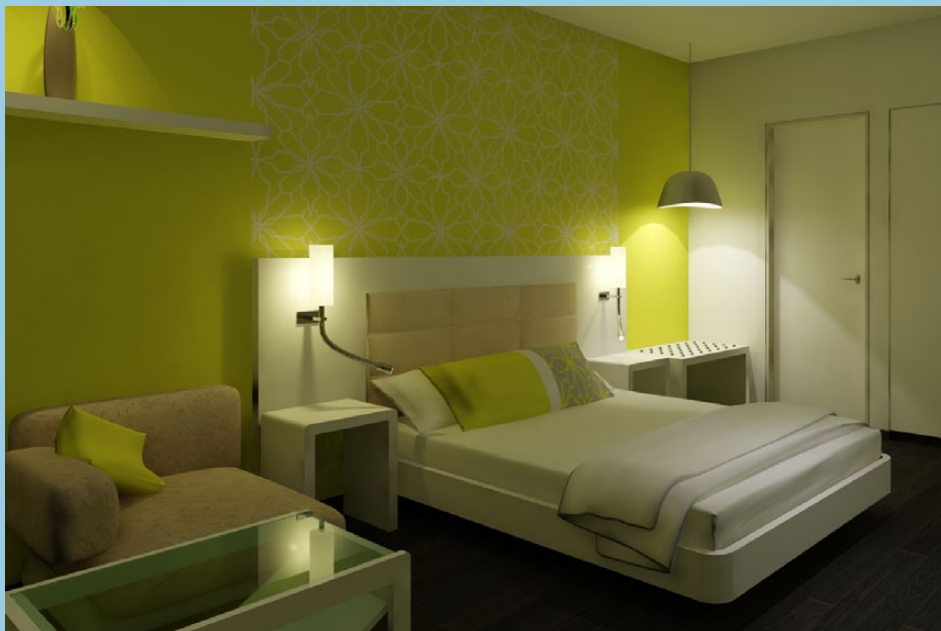


| Room Number | Status | Reservation Status |
|-------------|-----------|--------------------|
| 136 | Clean | Departed |
| 137 | Dirty | Stayover |
| 138 | Inspected | Not Reserved |
| 139 | Inspected | Arrived |
| 201 | Inspected | Not Reserved |
| 202 | Inspected | Not Reserved |
| 205 | Dirty | Departed |
| 206 | Inspected | Not Reserved |
| 207 | Inspected | Not Reserved |

number, house status, reservation status and the guest name with VIP marking, great info to have on the go!) A good mobile housekeeping solution is affordable, simple to use and ideally does not require proprietary devices. A few simple mobile pages, that summarize the information needed, with some simple filters to limit results to the floors or room types, and a button to change the room status, can already create significant operational help. No more calls to the front desk, to check on room status, which allows front desk agents to focus on the guest. Floor supervisors can stay on the floors and get the latest rooms to be cleaned, and if guests have left without checking out, housekeeping can “check out” the guest.

Rooms turned around quickly, means the next guest does not have to wait for a clean room, and a good and fast check in experience, is great for the reviews ratings. Housekeepers spend about 10 to 15% (labor cost reduction) trying to find the next room to clean, with that information in the palm of their hand, they can simply go and clean the next room. The right hotel PMS or PMS overlay will help both the hotels top and bottom line, a win-win!

By Jos Schaap, CEO-Founder,
StayNTouch, Inc.



Smart city, need of the future

A city can be defined as 'smart' when investments in human and social capital and traditional (transport) and modern (ICT) communication infrastructure fuel sustainable economic development and a high quality of life, with a wise management of natural resources, through participatory action and engagement. The smart city concept essentially means efficiency based on the intelligent management and integrated ICTs, and active citizen participation.

It insists that smart cities are defined by their innovation and their ability to solve problems and use of ICTs to improve this capacity. The intelligence lies in the ability to solve problems of these communities. In this sense, intelligence is an inner quality of any territory, any place, city or region where innovation processes are facilitated by information and communication technologies. What varies is the degree of intelligence, depending on the person, the system of cooperation,

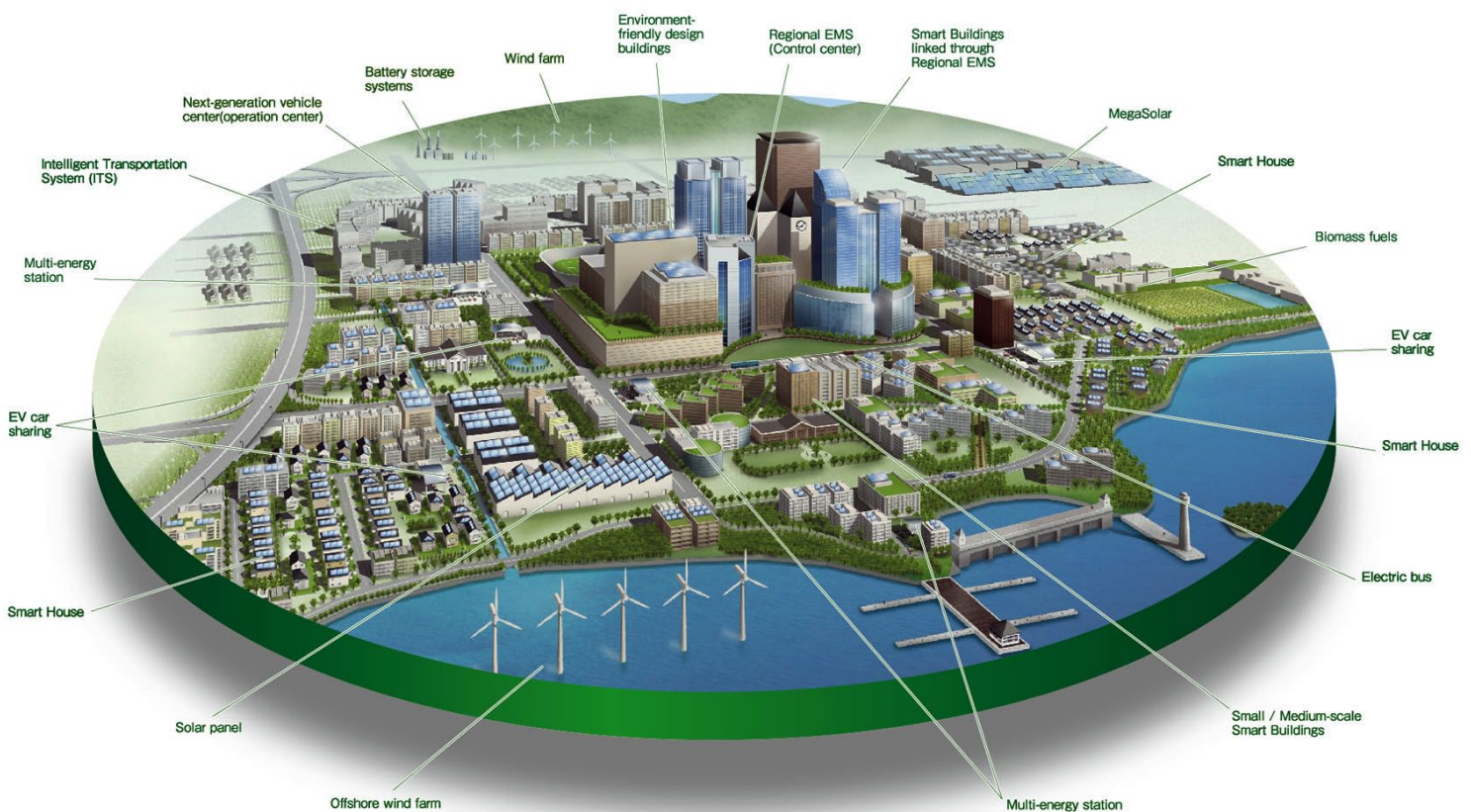
and digital infrastructure and tools that a community offers its residents. Wireless sensor networks is a specific technology that helps to create Smart Cities. The aim is to create a distributed network of intelligent sensor nodes which can measure many parameters for a more efficient management of the city. The data is delivered wirelessly and in real-time to the citizens or the appropriate authorities.

For example, citizens can monitor the pollution concentration in each street of the city or they can get automatic alarms when the radiation level rises a certain level. It is also possible for the authorities to optimize the irrigation of parks or the lighting of the city. Water leaks can be easily detected or noise maps can be obtained. Rubbish bins can send an alarm when they are close to being full.

Vehicle traffic can be monitored in order to modify the city lights in a dynamic way. Traffic can be reduced with systems that detect where the

nearest available parking slot is. Motorists get timely information so they can locate a free parking slot quickly, saving time and fuel. This information can reduce traffic jams and pollution; improve the quality of life. It has also been recently asserted that, due to the revenue-generating nature of parking, smart parking systems could be the ideal foundation for building municipal wireless networks. These sensing networks could later be extended to include other types of sensing, as California-based company Streetline announced it would offer in early 2014, adding road surface temperature and noise sensing capabilities to its smart parking portfolio.

Experts predict the world's urban population will double by 2050 – which means we're adding the equivalent of seven New York Cities to the planet every single year. As our planet becomes more urban, our cities need to get smarter. To handle this large-scale urbanization, we'll need to find new ways to manage complexity, increase efficiency, reduce expenses, and improve quality of life.



How technology is changing the face of Indian Healthcare

{HYPERLINK http://articles.economictimes.indiatimes.com/2014-04-02/news/48801172_1_indian-healthcare-collaborative-data-exchange-healthcare-information-technology-market}

It is not surprising anymore that when you visit your doctor or physician, you may find him using an iPad to note or store your medical records. Rapidly transforming medical technology and the availability of technology diagnostic and therapeutic equipment together with changing practice pattern of doctors has revolutionized the way health care is being delivered today.

The technology shift has cast itself over the field of healthcare, bringing with it a digital transformation in the way doctors and patients interact. The integration of information technology and network have now become the centre of the "new era" where both, digital and human aspects, are pivotal to the complete patient experience.

Today, patient care experiences are top of the mind in the healthcare industry across the globe. According to a report by India market is expected to hit \$1.45 billion in 2018, more than three times the \$381.3 million reached in 2012.

Due to the increasing convergence of technology and healthcare, there is a huge opportunity for providers to improve the patient experience and operate more efficiently due to augmented association and information sharing among providers. Healthcare technology solutions are able to modernise medical care, reduce costs, avoid redundant or duplicate tests /procedures and mechanise manual processes.

For instance, in the effective treatment of cancer it is critical to track the patient's progress over days, months and years. Now medical institutions can store medical images and patient records electronically, which can be instantly compared to previous images. These images can be quickly shared between consultants and remain highly available during the course of the diagnosis and treatment.

The increased adoption of telemedicine, HIS, electronic health records, mHealth, and web-based services has made digital patient data expand, demanding the deployment of robust IT infrastructure in Indian healthcare organisations. It has amplified growth in data, digitization trends in health information and electronic medical records.

Improvements in collaborative data exchange, workflows and mobility, and need for better financial management are the next phase of technological evolution in healthcare. In addition, the shift to mobile devices, wireless technology and cloud computing will reduce system costs and improve workflows.

Today medical institutes are at the forefront of enabling number of healthcare technology initiatives to enhance the delivery of a range of healthcare.

The introduction of a hospital information system (HIS), picture archival and communications system (PACS), and

electronic health record system (EHR) have led to rapidly increasing volumes of data. Also, due to the unpredictable nature of cancer progression, patient records need to remain readily accessible as a patient may visit us the next day, a few weeks, and maybe even 10 years later.

This means the data containing patient medical records and images needs to remain highly available rather than becoming less accessible within archival solutions such as tape libraries. To deliver patient needs at forefront of technology-enabled healthcare and meet the capacity demands of data-intensive medical images and records, we required highly available storage platform to meet the expanding data needs of our medical systems.

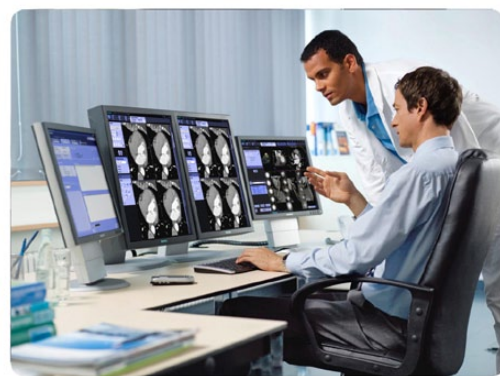
When we deployed the Dell Compellent storage solution and Dell PowerEdge servers, we were able to double their storage capacity which provided a compelling price-performance ratio. The storage solution has improved business agility in responding to the needs of their consultants, technicians, and nursing because the centre can project storage allocation more accurately, the IT team can be highly responsive to user requests.

One of the key pillars of health transformation is being able to refine access to the best healthcare for a larger segment of the population. The implementation of technology is a cost-effective and compelling method to connect clinics in the cities as well as rural regions. Although there are healthcare challenges we are facing today, the good news is that we have innovative solutions to help address these formidable challenges.

Technology advancements in healthcare informatics, telemedicine, HIS, electronic health records, remote diagnostic and therapeutic tools have pivoted the first step towards tech enabled healthcare and can be further leveraged to effect new modalities of healthcare.

Today, healthcare organizations need to streamline their IT infrastructure, to be able to provide simple, quicker and more efficient healthcare service or delivery. The healthcare solutions promote a new productivity model whereby the ultimate winner is the patient, who will now have instant equitable access to the best clinical expertise.

- CIO, Rajiv Gandhi Cancer Institute and Research Centre.



Kwiz

Q. The Y2k bug could come back in 2038, by which time we have to fix what computer operating system?

1. Unix
2. Windows
3. Linux
4. Macintosh

Q. What company released the motion sensing accessory called Kinect?

1. RCA
2. Nintendo
3. Microsoft
4. Zeebo

Q. Yahoo search is better known as?

1. Yahoo bing
2. Yahoo Axis
3. Yahoo folks
4. Yahoo cork

Q. "Relationships matter" is the slogan of which social networking site?

1. Socl
2. LinkedIn
3. Twitter
4. Orkut

Q. What is the Hawaiian word for "quick"?

1. Twitter
2. Wiki
3. Orkut
4. Google

Q. Which of these is a music identification service for Android phones or iPhones?

1. Meebo
2. MySpace
3. Kazaa
4. Shazam

Byte Back

From the next issue of KBytes, we would be introducing the section "Byte Back" where we would publish the readers' contribution. We request you to forward small articles (say 100 to 150 words) on technology news related to your business activities along with the relevant hyperlinks for further reading. Please send in your articles to kbytes@kohinoorgroup.co.in with the text "Byte Back" in the subject line. Your feedback on this issue can also be sent on the same e-mail address. It will help us Improve!

Gizmo Talk



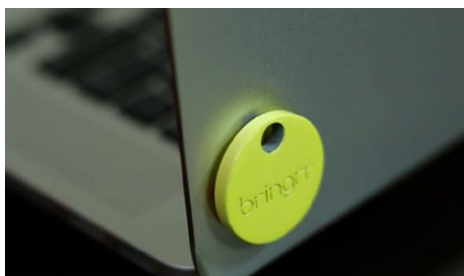
Bringrr: the most advanced Bluetooth Smart tag that locates your things.

Tag everything: keys, cat, bag, laptop - you name it, and track your item's location with your smartphone. Always have your most important things within reach.

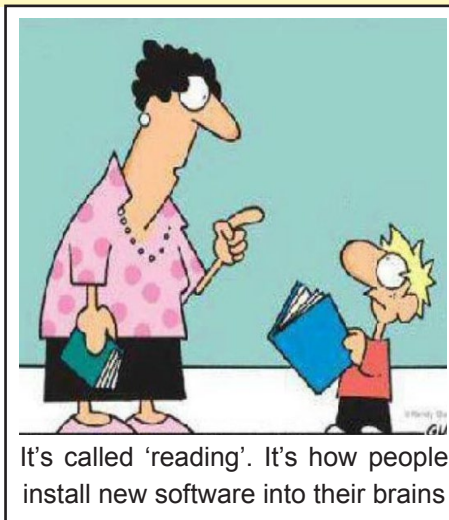
Bringrr will always notify you that your most important items are in the car before you drive away.

What If I Want To Make Sure The Rest Of My Stuff Is With Me Before I Drive Away?

Good question! This is where BringTags come in.



You can attach BringTags to the items you want to keep track of, and



worry less. As soon as you start your car, Bringrr searches for your phone and tagged items, like your wallet, backpack, laptop - you name it! If anything is missing, Bringrr will let you know. You will receive a notification on your phone, specifying which tagged item you've left behind.

BringTags turn anything (including your keys) into Bluetooth beacons, so you can easily find misplaced items.

The Bringrr App will notify you if your missing item (or pet) is found by the Bringrr community.

So Bringrr Is More Than Just A Car Charger? How Does It Work?

Yep. Simply pair your phone with Bringrr via Bluetooth, and it will make sure you never drive off without your phone again. Every time you start your car, Bringrr will search for your phone. If your phone's not there, Bringrr notifies you with a friendly flash and sound.

{[HYPERLINK http://www.bringrr.com](http://www.bringrr.com)}

From the Editor's Tab

It gives us great pleasure to unveil this inaugural issue of KBytes – the technology newsletter for the Kohinoor Group. In keeping up with the vision of our CMD to constantly innovate and grow perpetually, KBytes will bring to you the latest news that will help you keep track of trends in the technology that might impact the way you do business. The editorial team at KBytes looks forward to your feedback on the editions as they are released as well as your contributions in terms of technology articles that you feel need to be shared within the group. We sincerely hope that you find this issue informative and enriching. Happy Reading!!!

Editorial Team @ KBytes