



Editor's Point of View...

The world had undergone enormous changes over the past decade. We now live in a world where communication is paramount. It seems that everyone and everything is connected in some way.

For school students this has made things much more efficient. Research papers that used involve hours of laborious effort can now be researched and documented without over touching a card catalog or a periodical index. Words of information are now available at the click of a mouse.

Questions that people pondered without any answer previously can now simply typed into any convenient search engine and answered almost immediately. There are countless sites filled with informative short articles all over the internet. Videos and music can now be seen on demand and news from across the world can be delivered in an instant.

There are some people who worry that the technological revolution and evolution we are experiencing today is moving fast. There seems be a loss of privacy in some respects and the specter of a Big Brother society looms larger that it has since 1984. Whether their fears are well founded or not will remain to be seen, but it is unlikely that people will ever willingly give up the almost instant connections to our wired world.

Flying in the face of these fears are individuals who share their worlds through their blogs. What used to be shared with only close friends is now put online for millions of people to see if they should happen upon the blogger's website. Individuals are learning to take advantage of this by using their well-placed blogs to sell products and services. The internet has allowed individuals an opportunity to step on to the

same playing field as the big boys of business. With the right information and the ability to get it seen, anyone can now reach masses and share their thoughts, feelings and even sales pitches.

Business as well as individuals has come to rely on the internet as a source of advertising and actual sales. Entire business models have been constructed and thriving based solely on using Internet websites. It is rare today to find a traditional brick and mortar establishment that does not have some type of online presence. Any business that does not adapt and grow to keep up with the newest technology seriously risks being left behind in the wake of their competitors who choose to ride technology's leading edge.

Time will tell where this all will lead. We should make the most of the positive possibilities technology promises, but we should keep a careful watch on where we are going as human beings.

Regards,
Sohan Khemka

CONTENTS

- **Editor's Point of View** 1
- **Technology that change our work style** 2
- **Agricultural Automation** 4
- **Defeating Pollution with IoT** 5
 - **How IoT reduces Pollution**
- **Smartphones – A boon or Curse** 6
 - **What to worry about?**
 - **Children & Smartphones**
 - **Balance between children & smartphones**

TECHNOLOGY THAT CHANGED OUR WORK STYLE



Digital workspace, virtual reality and voice control are no longer unfamiliar scenarios and technologies in the modern world. But how will these innovations influence our office routines in the future? What challenges can we expect in regard to security and big data? This article will take a closer look at current developments and make a prediction of what may be coming our way.

Railcars travelling across oceans, movable houses on rails, flying cars, weather machines and robot cleaners: a century ago, these were the perceptions of how we would live today. All of us can testify that these visions didn't quite come true. It is equally tricky to foretell how current technology trends will impact in future. But it seems that the consequences in regard to future technologies like augmented and virtual reality, voice control or iris and fingerprint scanners will be immediately noticeable.

Digitization will remain a key aspect of office life in the coming years. All data can be accessed from any location, as practically every household owns mobile devices like smartphones, tablets and notebooks. Cloud Computing makes this possible in particular. Of course, these developments lead to entirely new patterns in our working culture.

Home, offices, schools as well as colleges will be completely standard. Employees are available at any time, especially due to the development of corporate connectivity using intranet or internet systems, eduERP® for Schools & Colleges, Librarian & Cybrarian for Libraries, docManager® for Offices. It's hardly surprising, therefore, that the trend is moving clearly toward flexible working hours and workplace structures. Technology is not the issue here. Instead, work culture and the mindsets of employees need to adapt and move away from the concept of individual

stakeholders always being gathered at one particular location.

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In this modern era, managing documents is as important as managing employees and projects. It usually happens that organizations are loaded with Paper works and documents and this is when they face the major issues to search the relevant documents when required. Organizations also need to maintain some confidentiality for, which document can be viewed by which person and further what are his/her rights to share those documents with others. These all functions become cumbersome, when done physically.



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AGRICULTURAL AUTOMATION

Agribusiness required the devotion of numerous regular asset including, land, water, and ecological condition, The quality and amount of characteristic asset has debased throughout the years because of monetary issues related with expanded cost of info and diminishing ranch salary always declining land, labor, resources, and environmental issue, for example, soil and water contamination putting the suitability without bounds horticulture operation at chance. The solution for this, is to embrace the savvy agribusiness framework in light of IOT with help farming administration and development of products including less utilization of water, compost and pesticide.

Agriculture is the main backbone of Indian economic growth. The most important barrier that arises in traditional farming is climate change. The number of effects of climate change includes heavy rainfall most intense storm and heat waves, less rainfall etc. due to these the productivity decrease to the major extent. Climate change also raises the environmental consequences such as the seasonal change in the life cycle of the plant. To boost the productivity and minimize the barrier in agriculture field there is need to use innovative technology and technique called Internet of things.

The technological advances in their areas gather increasing momentum and this means that maintaining as the overview. The most important things of smart farming are environmental measurement and water management. The reason is that the environmental and water management affect plant growth. The aim is to make agriculture smart using automation and IOT technologies.

Several agricultural sensor-based equipment has been developed by agro-based electronic industries. For example, Wasp mote Agriculture Board developed in India allows monitoring of multiple environmental parameters involving a wide range of applications. For this, it has been provided with sensors for measuring air and soil temperature, humidity, solar radiation, wind speed and direction, rainfall, atmospheric pressure, leaf wetness, and fruit or trunk diameter.



Up to 14 sensors can be connected at the same time to a dendrometer (device used to measure trees). To extend durability of the device after deployment, the equipment is endowed with a solid-state switch, which facilitates precise regulation of its power, prolonging the life of the battery.

Agricultural sensors are slowly taking foot in India. Vertical farming is becoming popular in smart cities. Drones are being used in large-scale farming for insecticide and pesticide spraying purposes. However, these sensor-based devices are yet to become popular in India. These need government assistance and large subsidies in prices.

India faces various challenges in applying smart farming and the Internet of Things (IoT) in agriculture. Internet connectivity and availability is a major challenge. Then, there are aspects like presumption among vendors about Indian customers not being ready for advanced products. This results in drastically low awareness regarding IoT devices and systems among consumers. Also, the infrastructure required for the smooth functioning of IoT devices, such as smart grids and traffic systems, are far from ready. This further hinders the growth.

Among the technologies invented in the past few decades, smartphones have gained the largest market share in the Indian agricultural industry. This is due to their usefulness, ease of use and affordability. Rural farmers in India are constrained by a low level of literacy and lack of exposure to software interfaces. Therefore it is necessary for smartphone application developers to target farmers while developing agricultural applications.

Smart agriculture, also known as precision agriculture, allows farmers to maximize yields using minimum resources, such as water, fertilizers and seeds. By deploying sensors and mapping fields, they can understand their micro-scale, conserve resources and reduce impact on the environment.

Mobile-operated solar-based pumps reduce the cost of electricity for farmers. E-Fences—slowly becoming popular in rural India—help them save their crops from animals like elephants.

Autonomous farm vehicles can use improved wireless data transmission and acquisition from smarter, smaller unmanned aerial and unmanned ground vehicles.

DEFEATING POLLUTION WITH IOT

Indian cities have been struggling to bring pollution levels in check. Recent World Health Organization reports have revealed that India has the most polluted air in the world—cities like Kanpur, Mumbai, New Delhi and Varanasi, among others, appear on the top of the list. New Delhi has often been in the red alert radar, like last year, when the city’s air quality crossed 70 times the safety limit.

Apart from air, there is concern regarding water pollution. India’s major rivers—Ganga, Yamuna and Narmada—and most other water bodies are heavily polluted.

While air pollution is mostly contributed by dust from unregulated construction works, emission from vehicles, industries and homes, and so on, water pollution is caused due to unregulated waste dumped into water bodies that may come from households or factories, poor sewage management, non-invigilated washing and bathing by people, etc.

To bring these critical environmental issues in control, experts are arming themselves with modern technologies like the Internet of Things (IoT). The IoT takes the role of an enabler, providing clear visibility of real-time environmental conditions to users and allowing them to make necessary changes to improve conditions. Let us look at how the IoT is helping people mitigate environmental problems.

The massive advances in technological innovation since the industrial revolution have brought a better life to billions of people across the globe. However, along with higher standards of living, industrial economies have also brought pollution and the planetary crisis of global warming. Their mistakes and they can adapt to the new environment.



HOW IoT REDUCES POLLUTION?

The IoT is embedded in every smart appliance today and, consequently, helps mitigate environmental issues in one way or the other. IoT solutions can handle environmental issues directly or indirectly.

“As a result, users know what can be done to control the readings, if these are above safety levels. Other solutions bring indirect benefits to the environment, such as technology that reduces energy consumption. If homes, industries and cities can optimize their energy-driven appliances to reduce electricity usage, a massive reduction in carbon footprint, thermal emission and, subsequently, pollution can be achieved.”

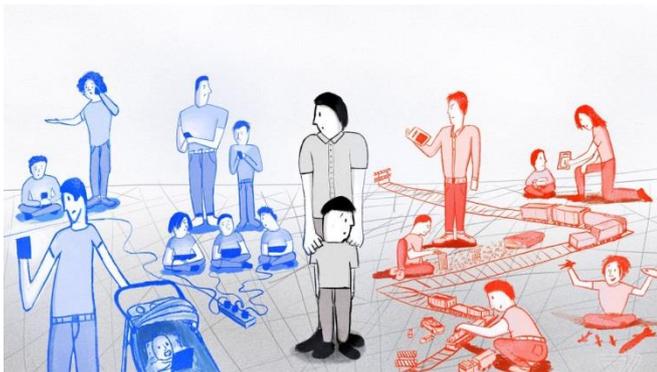
The Internet of Things is that game-changing technology. Examples include:

- Smart home energy systems, like Google’s Nest, monitor usage patterns and communicate in real-time to maximize energy efficiency, saving money and energy.
- IoT connected cars from manufacturers like GM and Tesla are maximizing route efficiency, saving drivers time and fuel and reducing emissions.
- IoT-enabled smart grids are collecting data from devices connected to the electricity grid and adjusting energy output more efficiently.

SMARTPHONES - A BOON OR CURSE...???

If you're a human being living above the poverty line in the 21st century, then you probably have a smartphone on your own or a person next to you while you work, socialize, exercise, eat and even while you sleep. In fact, two-thirds of the world's population own at least one. As everyone is fully aware of, Smartphones are mobile phones with an advanced mobile operating system that combines features of a computer operating system.

In today's day and age, whether it is an iPhone or an Android, nearly everyone owns a Smartphone and almost everywhere you look you see someone on theirs. Whether they're checking the latest feed on social media, shooting a text, searching anything imaginable up on the Internet, or even just playing Candy Crush, it's all being done on one powerful handheld device.



One study by research firm Dscout revealed that the average person clicks, taps or swipes on their phone nearly 3000 times a day, with the figure above 5000 among the heaviest users.

Smartphones are both a blessing and a curse. They give us access to an entire world of information, communication and entertainment, but also rob us of personal interaction with others and the art of direct connection.

WHAT TO WORRY ABOUT?

Smartphone or Internet addiction can also negatively impact your life by:

Increasing loneliness and depression. While it may seem that losing yourself online will temporarily make feelings such as loneliness, depression, and boredom

evaporate into thin air, it can actually make you feel even worse. A 2014 study found a correlation between high social media usage and depression and anxiety. Users, especially teens, tend to compare themselves unfavorably with their peers on social media, promoting feelings of loneliness and depression.

Fueling anxiety. One researcher found that the mere presence of a phone in a work place tends to make people more anxious and perform poorly on given tasks. The heavier a people phone use, the greater the anxiety they experienced.

Increasing stress. Using a smartphone for work often means work bleeds into your home and personal life. You feel the pressure to always be on, never out of touch from work. This need to continually check and respond to email can contribute to higher stress levels and even burnout.

Exacerbating attention deficit disorders. The constant stream of messages and information from a smartphone can overwhelm the brain and make it impossible to focus attention on any one thing for more than a few minutes without feeling compelled to move on to something else.

Diminishing your ability to concentrate and think deeply or creatively. The persistent buzz, ping or beep of your smartphone can distract you from important tasks, slow your work, and interrupt those quiet moments that are so crucial to creativity and problem solving. Instead of ever being alone with our thoughts, we're now always online and connected.

Disturbing your sleep. Excessive smartphone use can disrupt your sleep, which can have a serious impact on your overall mental health. It can impact your memory, affect your ability to think clearly, and reduce your cognitive and learning skills.

Encouraging self-absorption. A UK study found that people who spend a lot of time on social media are more likely to display negative personality traits such as narcissism. Snapping endless selfies, posting all your thoughts or details about your life can create an unhealthy self-centeredness, distancing you from real-life relationships and making it harder to cope with stress.

Smartphones are here to assist us, not control us. Be grateful. Enjoy the beautiful present that lies in front of you and get your head out of that phone!

CHILDREN AND SMARTPHONES!

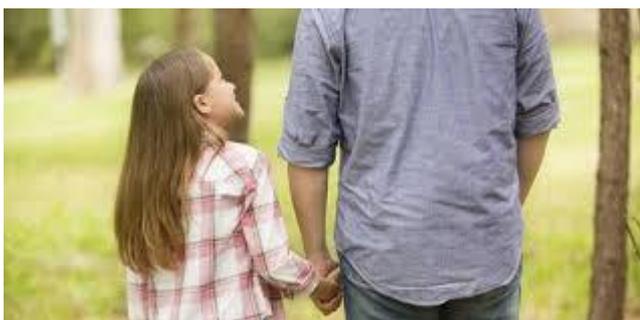
Another risk associated with primary aged children having a smartphone, is the chance of them experiencing cyber-bullying. Research says that younger children would be more likely to report being the victim of physical bullying. Whereas, older pupils would be more likely to report experiencing more types of cyber-bullying. Not having a phone is by no means a guarantee of protection from online-bullying, but the link is significant.

Most teenagers will have a smartphone. They are also extremely avid consumers of online content via their phones. Over a third of young people claiming to be online more than 6 hours a day on weekends and almost a quarter spending this amount of time on week days.

41% of parents said that they find it difficult to control their child’s screen time.



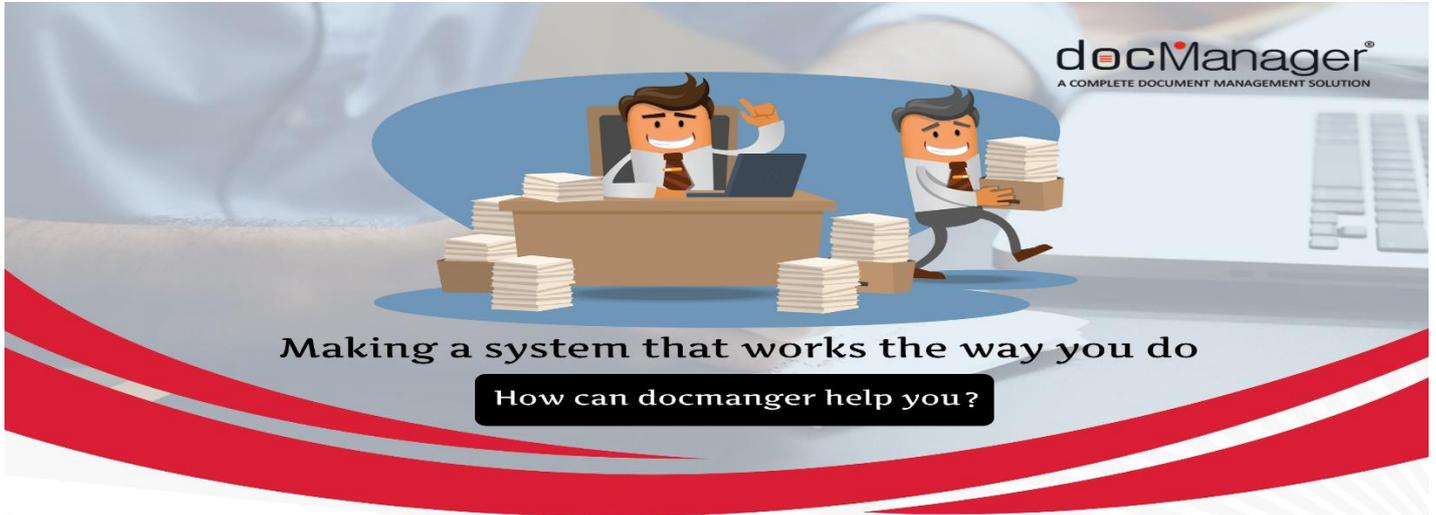
BALANCING BETWEEN KIDS AND SMARTPHONES!!



- Practice what you preach: If you incessantly check email over dinner or answer texts during family outings, you may be contributing to your child’s overuse behavior (check these silent signs that you may have a cell phone addiction). “If you want your kids to get off of their phones, you need to get off of yours”
- Set common sense limits: Teens are pretty universally tech-obsessed, but that doesn’t mean you have zero say in the matter. “It’s a parent’s job to establish limits for the safe use of technology, so their kids can learn how to use communication devices in a healthy way, As a parent, you’re in charge of setting common sense limits on its use, just like you do around driving, drugs, and alcohol.”
- Don’t make it a punishment: Your child’s phone is the key their social world. If you want to establish boundaries around its use, taking it away as a routine punishment for overuse is sure to backfire. As reported by the Child Mind Institute, virtual communication has a positive role in your child’s life, and eliminating it entirely can damage trust.
- Make meals a no-phone zone: For many families, a shared dinner is an oasis of hard-won together time, carved out between soccer practices, late nights at the office, evening meetings, and other obligations. Constant buzzing and heads downcast over phones can take away from the experience.
- Use technology to control technology: Many parental control locking apps are available to keep a control over the activities being performed by the children.
- Be willing to be the Worst! Parent! Ever...! It’s not easy dealing with kids when they hate you. This may come as a spoiler alert, but at some point, all kids hate their parents. That being said, you still have to stick to your guns, even when your kids are having a breakdown about phone boundaries.

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 Editor: Sohan Khemka