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Inductus focus

Since the emergence of civilization, humans have used technology & innovations, not only for survival but also for constant & continuous evolution of human kind. As the time progressed, it gained momentum and spread across all walks of life. Inductus Focus is an initiative to reflect ongoing research, developments, technological advancements and Innovations in various industries & walks of life.

With the fast-paced technological innovations & rapid disruptions across the domains, the World is certainly going to be a different place than, how it looks now...

Are the Bots Going to Revolutionise the Tech Industry?

The world will look different in 2030 due to various Technological Advancements and high productivity results in much lesser time. Significant shifts are underway in the sphere of Technology, Public Policy, Global Economy. Technological adoption & Innovation will accelerate through the rest of the decade as corporates, institutions, governments & individuals adapt to these new world realities.

Human Genomes will be Sequenced:

By 2030, DNA testing will be cheap, fast & easily accessible that as per the statistics, a billion Human Genomes will be sequenced around the world. It will be around 1/8th of the world's population. The subsequent data generated will make it easier to use AI to identify multiple disorders linked to specific genes including cognitive disorders.



Artificial Intelligence (AI) will be the reality replacing Humans:

For most of the work & processes, AI will replace Human workforce. By 2030, there will be exponential improvements of computer processing power, voice recognition, image recognition, deep learning and such other software algorithms. Similarly, Natural Language Processing technologies like GPT-3 will be constantly updated & surpassed.

The Artificial Intelligence can pass the Turing Test wherein, a human engages in a conversation with a machine and probes it with numerous questions. And the machine will convince the human by passing the test. It will eventually turn to AI generated Virtual Assistants that have the potential to carry complex conversations with humans. This technology will carry over to virtual world characters & video games.



Virtual Reality (VR) Headsets will be common:



By 2030, most screens will be converting to **Virtual Reality (VR)** enabled that will have resolutions up to 8k which will be 4times the number of pixels on 4k screens. The speciality would be the breath-taking detail & real in feel where the favourite virtual world models & objects with zero visible pixilation will give a wide field of view.

Brain Computer Interfaces will be Mainstream:

Most VR headsets will have an option of brain computer interface to record user's electrical signals enabling actions to be directed by Human's thoughts. Such non-invasive sensor-based headbands & wrist bands will be the preferred choice in availing real ways of interacting with virtual characters, objects & space in the metaverse.

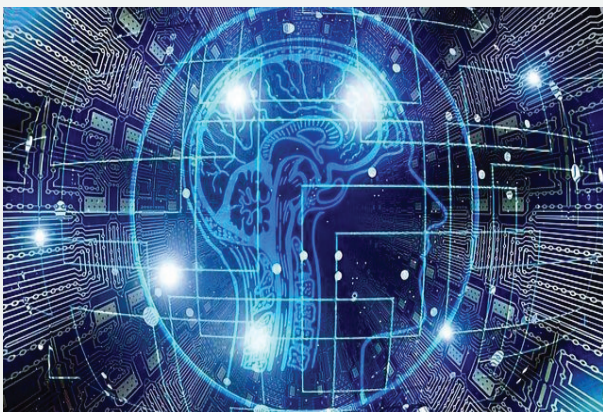
Printed Human Organs through 3D Technology:

3D Printing will be the mainstream in constructing living, biological systems. It will construct simple components like cells, blood vessels & tissues and relatively moving to printing human organs. Thereby it will eventually print the majority of the 78 organs in the human body.



Quantum Computers with 1 Million Qubits:

By 2030, Quantum Computers with 1 million qubits will be available in the markets. It will revolutionise the methods of solving optimization problems, train & run machine learning algorithms etc. Hence, it will revolutionize the areas like Artificial Intelligence, Financial Modelling, Drug Development, Weather Forecasting, & Cyber Security etc. It is estimated that, by 2030, fully functional Quantum Computers could become available to the public as cloud & physical units.



Artificial Brain with Restoration of Lost Memories:

By 2030, it could be the mainstream to replicate small areas of the brain with artificial brain implants to repair damage caused from any injuries, strokes or Alzheimer's. The devices connected to the brain will mimic the electrochemical signals from different points & consolidate the information from short term to long term memory. The devices will help in replacing the damaged parts & also predicting the parts of brain from time to time, then allowing the transmission of signals between the gaps. Artificial brain implants will increase the efficiency by replicating the complex functions in the brain.

Small Modular Reactors will be New Nuclear Reactors:

Small Modular Reactors (SMRs) are a new class of smaller, cheaper, safer and more adaptable nuclear power plants. Since it can be built at a much lower cost than traditional reactors, it's especially attractive to developing nations, which lack the ability to spend tens of billions of dollars on infrastructure.



Human Mission to Mars:

SpaceX Astronauts will launch the first Crewed Mission to Mars by 2025. The SpaceX Starship will be used on the Super Heavy rocket to reach the planet. Also, they will have robots onboard to perform activities like basic materials & parts on Mars including creation of Methane based rocket fuel which will help in returning back to Earth.



100 Terabyte Hard Drives will be the Future:

Consumer PCs will have access to 100 Terabyte Hard Drives with an innovative technique of Heat Assisted Magnetic Recording (HAMR). It will take small space to store the data and will multiply reading & writing speeds of storage data.

Hard Drives will be capable of easily storing 8k to 16k resolution videos. They will also run apps & store files that involve technologies like Virtual Reality, Augmented Reality, advanced video editing, AI etc.

Internet speed will be in Terabyte:

Some experts say that, by 2030 6G may replace 5G and the speed of the internet would be 100 times faster than 5G which is equal to 1 TB per sec. With that speed, one could download 142 hours of Movies in 1 second.

The 6G technology would also make it possible to accommodate the cyberspace to support human thought & action in real time through non- augmented reality (i.e. VR) & brain computer interface devices mounted on the human body. This would result in VR experiences that will give the experience of real life.

In addition, the Internet of Things (IOT) will grow with further orders of magnitude connecting trillions of objects.

Smart Grid Technology:

By 2030, the integrated smart grids will be widely prevalent in most of the countries. It will be useful in digital and other advanced technologies to monitor and manage the transport of electricity from all generation sources to meet the varying electricity demands of end users.

Smart Grid Technology will be adaptable in conducting variety of operations & energy measures including solar & wind energy sources. It will prevent the frequent power blackouts and even the happen that the regions & countries merge their grids so that no energy goes waste.



Hypersonic Missiles will be the New Military World Order:

Hypersonic missiles will be capable of exceeding the speed of Mach 5, which is 7 times faster than normal missiles and 5 times the speed of sound. Since it is so fast, it may be difficult if not impossible to deflect with conventional defensive systems. These Missiles significantly shorten or eliminate response time for defense. It can maneuver and follow trajectories different from a standard intercontinental ballistic missile, or ICBM.

Inductus Newscast

"Knowledge leads to Innovation & with the help of knowledge driven innovation ... duly aligned with best of the Technology, yields a superior product & services"

- Alouk Kumar, CEO, Inductus

Bihar Skill Development Mission, SANKALP Project.

Skill Acquisition and Knowledge Awareness for Livelihood Promotion ("SANKALP") is a programme of the Ministry of Skill Development. Inductus has been engaged by Bihar Skill Development Mission (BSDM) for setting up of PMU for Implementation and Monitoring of the project.

Uttarakhand State Rural Livelihood Mission, DAY-NRLM Project.

Deendayal Antyodaya Yojana- National Rural Livelihood Mission is a flagship program under Ministry of Rural Development, Government of India. The program is being implemented in the state of Uttarakhand by Uttarakhand State Rural Livelihood Mission (USRLM). Inductus is providing Technical Support to USRLM for implementing the scheme. Under the Technical Support Services, Inductus has provided 103 highly qualified human resources deployed in State Mission Team, District Mission Team and Block Mission team.

UNICEF- ICT Project

Inductus has signed Long Term Agreement with UNICEF for managing IT Networking & Communication Services at all their offices at Pan India level including 14 UNICEF Offices, and New Delhi Country Office.



Uttarakhand Gramya Vikas Samiti, Rural Enterprise Acceleration Project (REAP)

Uttarakhand Gramya Vikas Samiti, Govt. of Uttarakhand has been availing consulting services of Inductus for engaging professional human resources for planning and implementation of Rural Enterprise Acceleration Project (REAP). The project envisages to build resilience of rural households by diversifying their sources of income through intensified cluster-based climate resilient production systems promotion of farm and off-farm enterprises and creating a supportive ecosystem.



There is no doubt, Knowledge, Innovation & Technology [KIT] shall lead, define & constantly re-define the global work thus, business space.

In order to be future ready & remain relevant in the contextual world order & transit to next decade 2030, we swiftly & rapidly need to adopt KIT...on an individual, professional & organisational levels.

This initiative has just been incepted to share knowledge, innovations shaping global business space and technology adoption & advancements in various fields.



Directorate of Information Technology, Tripura: Beneficiary Management System Project

Inductus has been hired by Directorate of Information Technology, Govt. of Tripura as a Project Management Unit for managing Beneficiary Management System in the state.

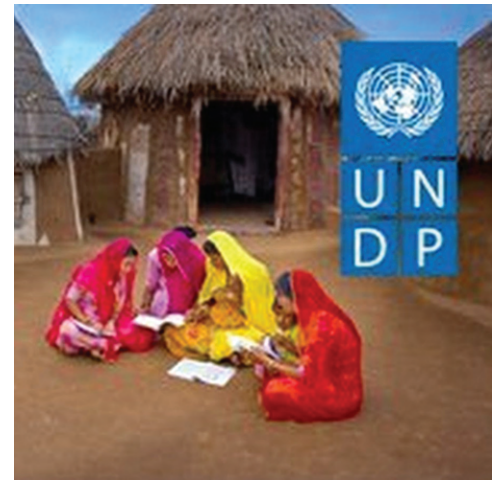
National Institute of Urban Affairs, Internal FRACing Unit Project

Inductus has been engaged by National Institute of Urban Affairs for as an Internal FRACing Unit for providing supports in visualizing and executing iGOT's FRACing process. The project entail mapping of the Framework of Roles, Activities and Competencies (FRAC) for each individual position within all government ministries, department & organizations (MDOs) at the national, state and local level.



United Nations Development Programme (UNDP), Uttarakhand

Inductus, selected by UNDP to organize capacity building workshop for 100 Rural women to enhance the output of SHGs by providing capacity building & upskilling workshops to rural women entrepreneurs representing high potential and performing SHGs in the state of Uttarakhand.



Technical Support Agency to SIDBI's

Inductus is Providing Technical Support Services to SIDBI's engagement at state level to Support Jharkhand State Rural Livelihood Promotion Society (JSLPS), Jharkhand and Bihar Livelihood Promotion Society, Bihar as a part of (Poorest State Inclusive Growth) Program.



Campus Recruitment Drive

Recently, Team HR, Inductus conducted Campus Recruitment Drives at A.K. Garg Engineering College and R.K.G Institute of Technology, Delhi N.C.R.

Futcart

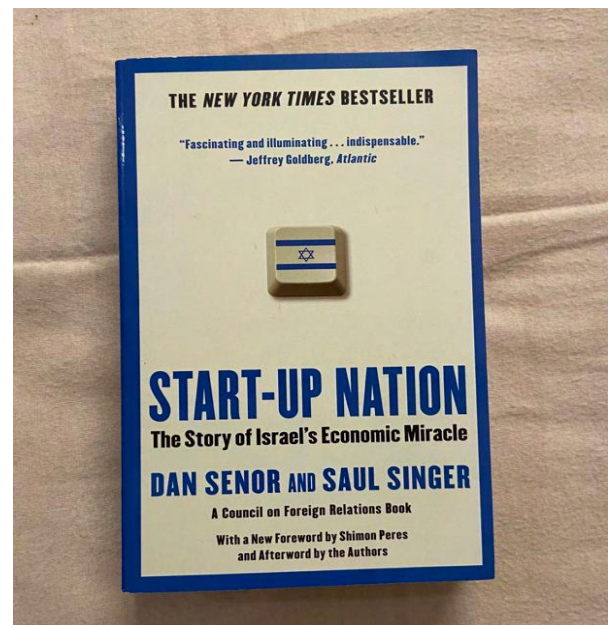
A subsidiary of Inductus, Inductus Internet Ventures Private Limited bags a prestigious export order for supply of Footwear to U.S.A, Tanzania, & Uganda.

Inductus Foundation

Inductus Foundation, in association with U.S based charitable organization, Cross Culture Connections have jointly come forward to initiate a charitable initiative to distribute footwear to Below Poverty Line (BPL) Families in the districts of Haldwani and Nanital, Uttarakhand.

Book Review

The book 'Start-up Nation' fascinatedly & mesmerizingly narrates, what the world can learn from Israel's meteoric economic success. Start-Up Nation addresses the trillion dollar question: How is it that Israel -- a country of 7.1 million, only 60 years old, surrounded by enemies, in a constant state of war since its founding. With no natural resource-produces has more start-up companies than large, peaceful, and stable nations like Japan, China, India, Korea, Canada and the UK. With the savvy of foreign policy insiders, the writer duo, Senor and Singer examine the lessons of the country's adversity-driven culture, which flattens hierarchy and elevates informality-- all backed up by government policies focused on innovation. Overall, an interesting read, which aptly deal with Israel's economic miracle and successfully reflects upon a deep culture being practiced in Israel, the habit of innovation & constant technological advances.



Inductus focus

A Quarterly News Letter

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