

Internet of Everything

M2M

Internet of Objects

The programmable World

IoE

Internet of Services and things

IoT

Infinity Era

Internet 3.0

Internet - of - Things

Industry 4.0

Internet of People and Things

Smart Cities

Machine to Machine

Presented By

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Lead IoT Solutions : Tata Teleservices Ltd

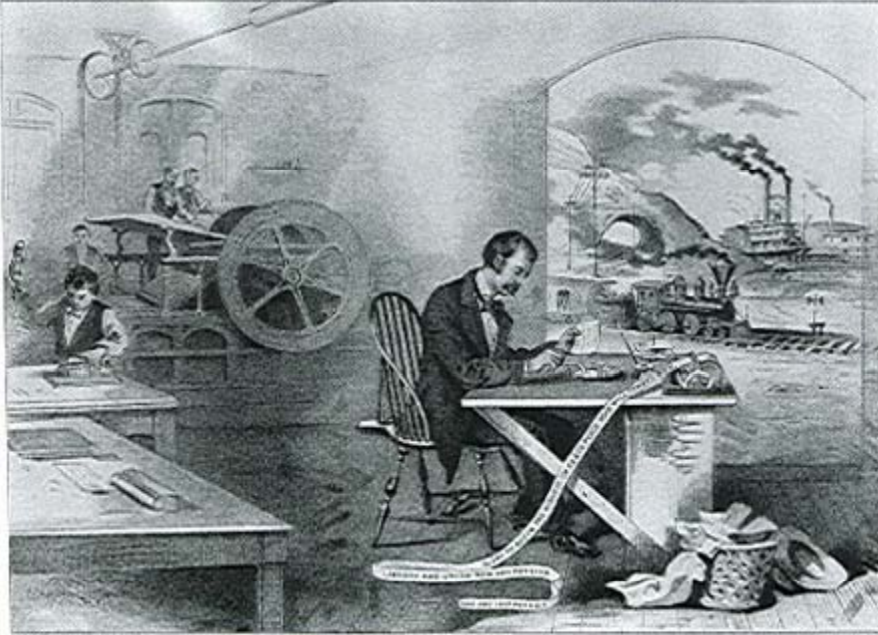
Chair IoT-M2M WG :TSDSI



The biggest question : How to make business?

Though IoT has become of top priority list among all the players of value chain. Yet no one is able to derive the answer, about how to earn profits?

The last Revolution in human era.



The Industrial revolution

The Industrial Revolution is the name given to the movement in which machines changed people's way of life as well as their methods of manufacture.

About the time of the American Revolution, the people of England began to use machines to make cloth and steam engines to run the machines. A little later they invented locomotives. Productivity began a spectacular climb.

Changes That Led to the Revolution

The most important of the changes that brought about the Industrial Revolution were,

- (1) the invention of machines to do the work of hand tools;
- (2) the use of steam, and later of other kinds of power, in place of the muscles of human beings and of animals; and
- (3) the adoption of the factory system.

The next human evolution .

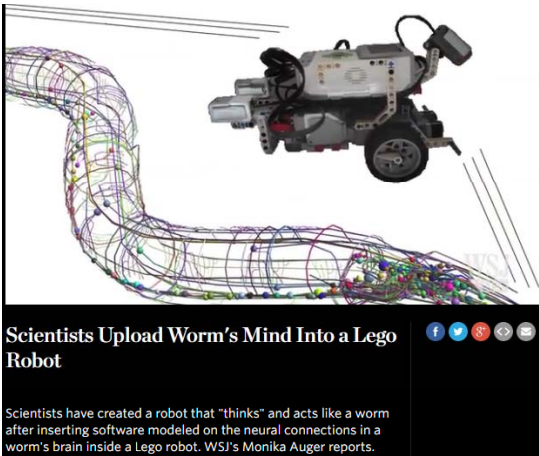
Today we are reactive, we get to know when the incident is detected.

With deployment of sensors, tomorrow we would be able to know the incident proactively.

Over period of time we would have enough of data to predict the incident before it happens.



Recent Achievements in field of AI/Automation



200 neurons worms mind build in a robot.



Deepmind has demonstrated, his platform which learned and perfected the Atari games all by its own



Many organizations are developing and experimenting with autonomous driving cars



Super intelligent computer, defeated best players in quiz game jeopardy



Robots serving food @ restaurants in Japan, today it's a wao factor

Most Jobs will become redundant

Unskilled work

AI will not only effect the unskilled and semi skilled work



Creative work

An artificial intelligence platform that generates human-sounding narratives from data



Specialized work

Researchers at Intellectual Venture Laboratory built a microscope whose deep-learning software uses neural networks to diagnose Malaria

By: **Staff Writer** on Feb 13, 2016 at 7:40 am EST



Is it our final invention? As they call it.



Stephen hawking, Elon Musk, Bill Gates along with many AI and automation experts have admitted that super intelligent systems are the biggest threat to human existence

Today's Global Economic System



- Capitalism has been triumphing since last 2 decades.
- Globally it's the only dominating economic system.
- In this system the capitalist, created products or services
- And pays salary to the employees creating it.
- Who in turn consumes the products and services completing the cycle.



Edition: IN

FRONT PAGE NEWS POLITICS BUSINESS TECH ENTERTAINMENT LIFESTYLE

INDIA

Stephen Hawking Says We Should Really Be Scared Of Capitalism, Not Robots

"If machines produce everything we need, the outcome will depend on how things are distributed."

10/08/2015 05:09 pm ET

 Alexander C. Kaufman
Senior Business Editor, The Huffington Post

Machines won't bring about the economic robot apocalypse – but greedy humans will, according to physicist Stephen Hawking.

In a [Reddit Ask Me Anything](#) session on Thursday, the scientist predicted that economic inequality will skyrocket as more jobs become automated and the rich owners of machines refuse to share their fast-proliferating wealth.



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What it means to India.

The youngest country in the world.

Median individual in India will be **29 years**. * by 2020

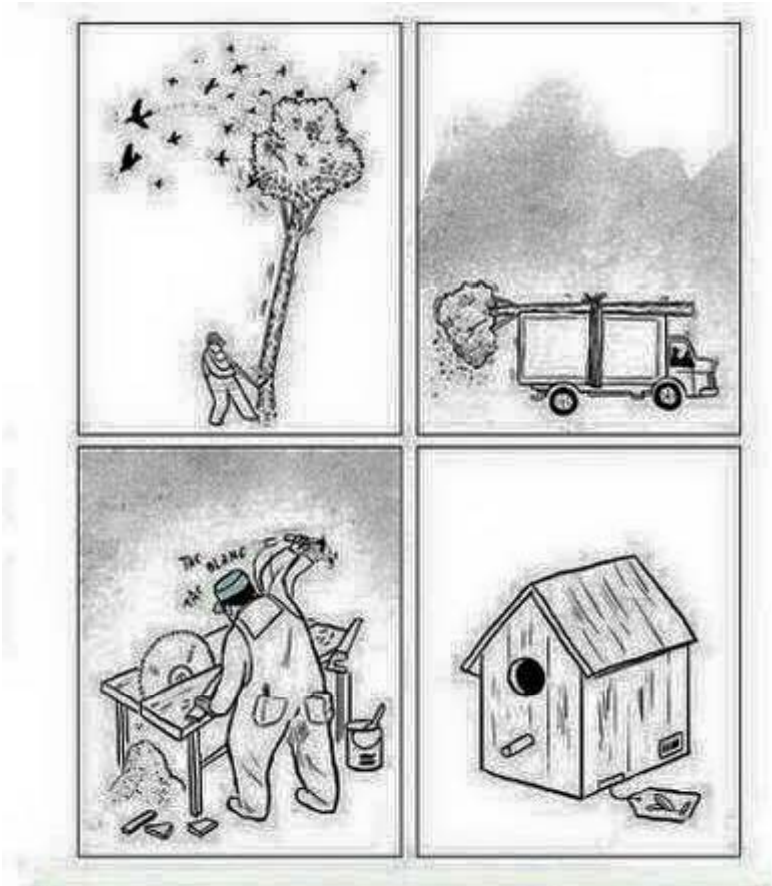
Avg age for China and the U.S. will be 37 years, while it will be 45 for West Europe and 48 Japan

Youth population to become **464 million by 2021**

There are around **63.5 million new entrants** to the working age group between 2011 and 2016 with bulk increase in age **group 20-35**

64 per cent of its population in the working age group

*Is humans at a stage were
its doing the same with itself*



Is there no Hope?

Can capitalism be ethical?

In the holy land of India, a legendary revolutionist changed the way the business is done.

150 years of building trust



Recommendations for better tomorrow

- Create awareness and motivate the domestic ecosystem to build capabilities around evolving technologies, like General AI, D2D wireless technology, Machine learning, Semantics & ontology,
- Encourage startups to be part of the evolution and do more research oriented work.
- Modify the skill set of the domestic workforce to become more relevant and useful in future. (more creative and service oriented work, identify and divert focus from the activities, and teaching methodologies, which can be outsourced to machines.)
- Promote to PPP model..... encourage Govt, industry and academia to become more active and drive TSDSI activities, and work in coordination, complementing each other.
- Take leadership in global activities and become more loud in taking the collective voice to influence global directions.
- All applications and services to be launched should be administered at national level, (a system of allocating compulsory Application ID, to keep track) this should be done promoting innovation.
- Impact of each application should be understood and a check list should be made so that the SOP will ensure the sustainability of the society .

Innovating for better tomorrow.

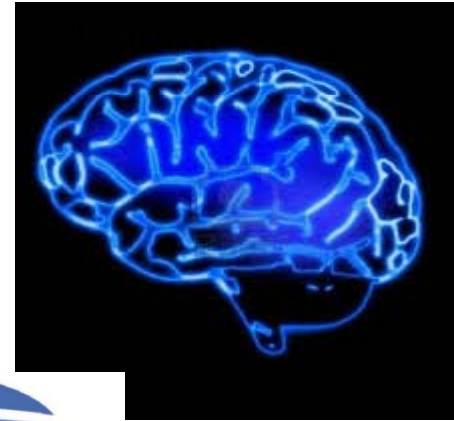
TCUP

IoT Services layer Platform



IGNOU

Neuroscience based Artificial intelligence



TATA

LEADERSHIP WITH TRUST



Wearable

For yoga assistance & Factory workers safety



Drone

Precision agriculture for better productivity

