Abundance

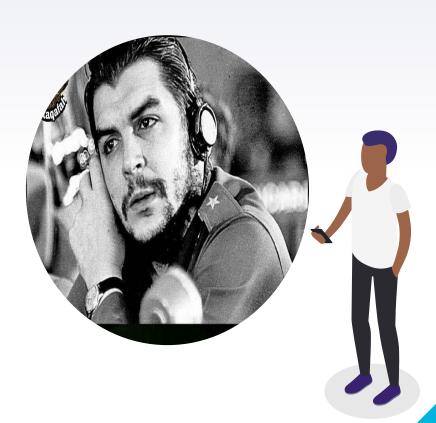
is our future



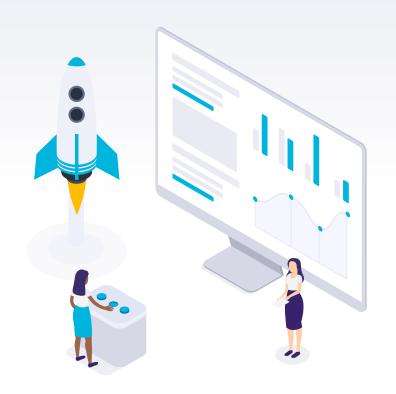
HELLO!

I am Gevara

I am here to share with you some thoughts / inputs on "4th Industrial Revolution" impacts on our future.........



- Introduction
- Digitalisation concept
- History of industrial revolutions
- 4th industrial revolution
- Life applications
- Future perspectives



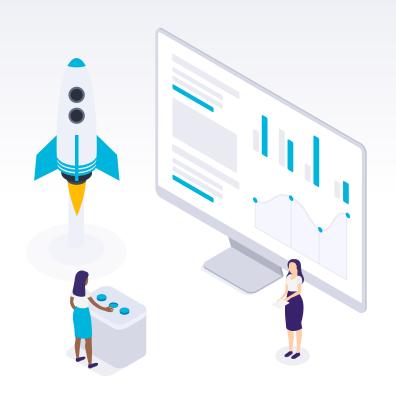




"we must develop a comprehensive and globally shared view of how technology is affecting our lives and reshaping our economic, social, cultural and human environments..."



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Digitalisation

Converting analog information of any form into a digital format

This format can be understood by computure systems / electronic devices

Converting information like text, images, sounds into binary code



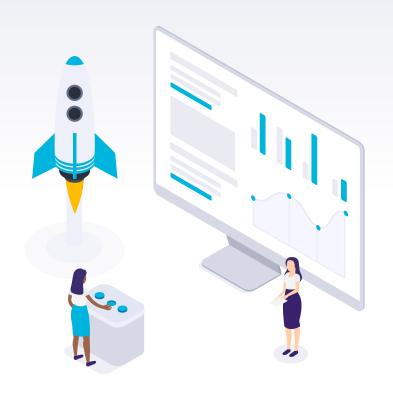




Accenture is one of the most respected management & technological consultancy providing firms.....



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History of I.R.



1st (IR) – urbanization & steam engines, 18th / 19th centuries
Textiles & Iron

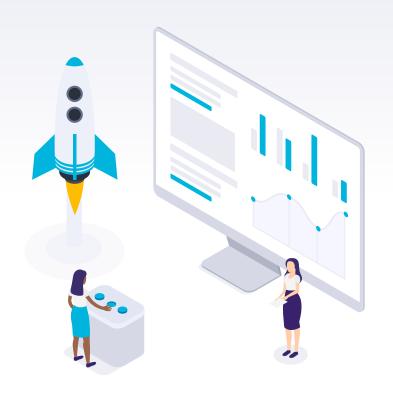


2nd (IR) – mass production, beginning of 20th century Factory lines



3rd (IR) – digital revolution, 1980s PC & internet mobile

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4th Industrial revolution

- Technology embedded in society, 2000s
- Blurring of boundaries between the physical, digital and biological worlds;
 - Robotics
 - Artificial Intelligence Al
 - 3D printing
 - Internet of things IoT
 - Augmented reality AR / Virtual Reality VR
 - Block chain
 - Quantum computing



Robotics;

Engineering branch that involves the conception,

design, manufacture & operation of Robots

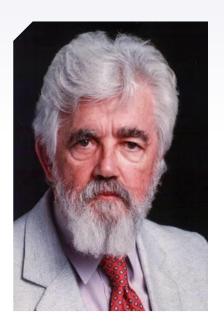


Artificial Intelligence - Al

"...is a machine with the ability to solve problems that are usually done by us, humans with our natural intelligence"



Dartmouth AI conference 1956



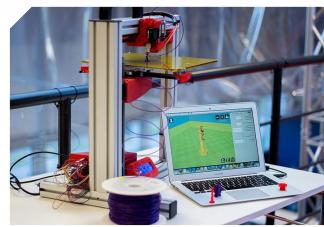
John McCarthy 1927 - 2011

3D printing;

- A machine that take a digital 3D model and turn it into a tangible 3D object via additive

manufacturing.

- Digital file, printing machine and printing materials



Internet of Things (IoT);

- System of interrelated computing devices, mechanical and digital machines, objects, animal or
 - people.
- Using sensors to transfer data over a network,
- No human-to-human or human-to-computer interaction



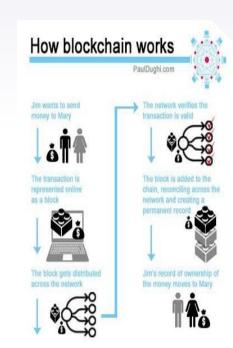
VR / AR;

- Virtual reality offers a digital recreation of a real life setting.
- Augmented reality delivers virtual elements as an overlay to the real world,
- Both are reflections of one in another with what it deliver



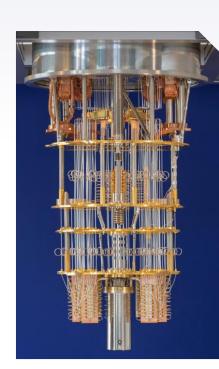
block-chain;

- Timed-stamped series of immutable record of data.
- Managed by cluster of computers not owned by single entity,
- Each of these blocks of data (Block)
- Secured & bound to each others using cryptographic principles (Chain)

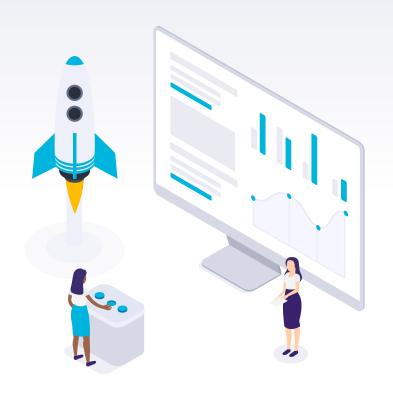


Quantum computing;

- Based on quantum principles
- Solving complex problems, using qubits instead of individual bits
- Handling huge data in ultra-short time



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Future prespective

► <u>NASA</u>



THANKS!

Any questions?

