



Industrial Revolution v4.0





Hello!

I am Luja Shakyia

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A decorative graphic on the left side of the slide. It features a large central hexagon with a blue-to-cyan gradient, containing the number '1'. Surrounding this central hexagon are several smaller hexagons of varying shades of blue and cyan. Some of these smaller hexagons contain white icons: a lightbulb, a thumbs-up, a smartphone, a magnifying glass, and a gear. There is also a network-like icon with a central node and radiating lines, and a speech bubble icon.

1

Revolution

Let's start with a BigBang in Industrial state.



Before learning 4.0

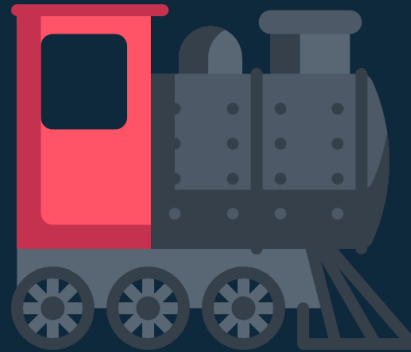
Let's start with
1.0, 2.0, 3.0





Industrial Revolution 1.0


- ◇ New manufacturing processes using water and steam
- ◇ Steam and Coal





Industrial Revolution 2.0

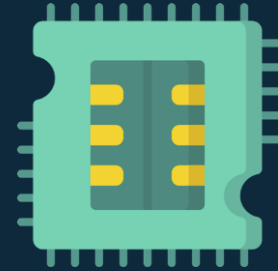


- 
- ◇ The Technological Revolution
 - ◇ Superior electrical technology
 - ◇ Oil Sector high raise.



Industrial Revolution 3.0

- ◇ First computer era
- ◇ electronics and IT
- ◇ automation in production
- ◇ Programmable Logic Controllers





INDUSTRY 1.0

Mechanization, steam power, weaving loom



1784



INDUSTRY 2.0

Mass production, assembly line, electrical energy

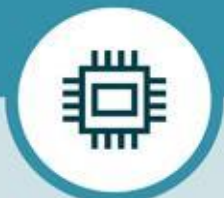


1870



INDUSTRY 3.0

Automation, computers and electronics



1969



INDUSTRY 4.0

Cyber Physical Systems, internet of things, networks



TODAY

What's the **Big Deal**?



INDUSTRY 4.0

Cyber Physical Systems,
internet of things, networks



TODAY





Every **Industrial Revolution** has made some skill in worker unnecessary.

Many of **unskilled** as well as **semi skilled** workers may lose their career due to it.

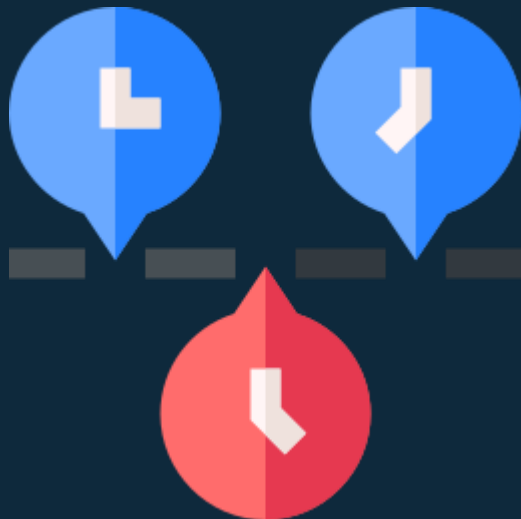
With some advanced Robot as a mechanical companion
, Tedious Jobs can be promptly replaced with highly
efficient **Machines**.



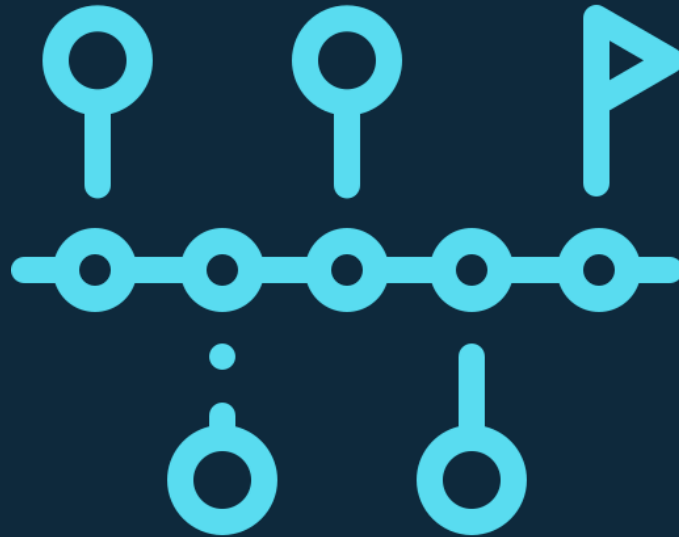


1

When?



2011



TODAY

2015



A cluster of various hexagonal icons in shades of blue and cyan. The icons include a lightbulb, a thumbs up, a network node, a smartphone, a magnifying glass, a gear, and a speech bubble.

2

How?





AI in Industrial Revolution v4.0



- ◇ All about Proficiency
- ◇ Error Detection
- ◇ Analyzing Performance
- ◇ Learning to Improve
- ◇ Enhance the Production





“

Benefits of AI in Industry.



- ◇ Undeviating Automation
- ◇ 24x7 Production
- ◇ Safer Operational Environment
- ◇ Condensed Operating Costs





- ◇ Create rapid, data determined decisions
- ◇ Minimize operational costs
- ◇ Facilitate superior scalability





3

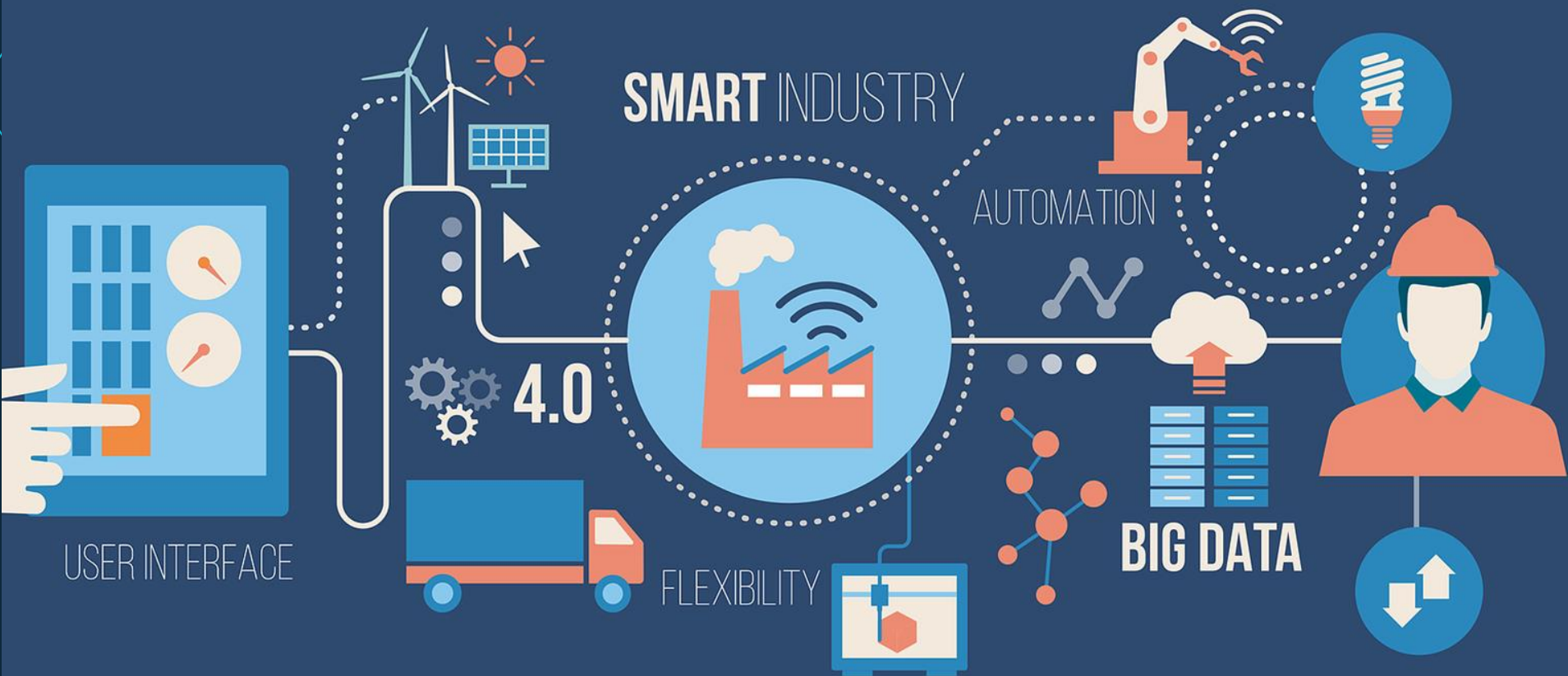
What in v4.0?





- ◇ Era of smart machines, storage systems and production facilities
- ◇ Industrial Internet of things (IIoT)
- ◇ Cyber-physical system
- ◇ The Internet of things (IoT)
- ◇ Cloud computing
- ◇ Cognitive computing





Traditional



What should be my Stock level
at Store # 007?



Cognitive



Your Stock Levels for Store #007
should be **375** Units



ML Automation



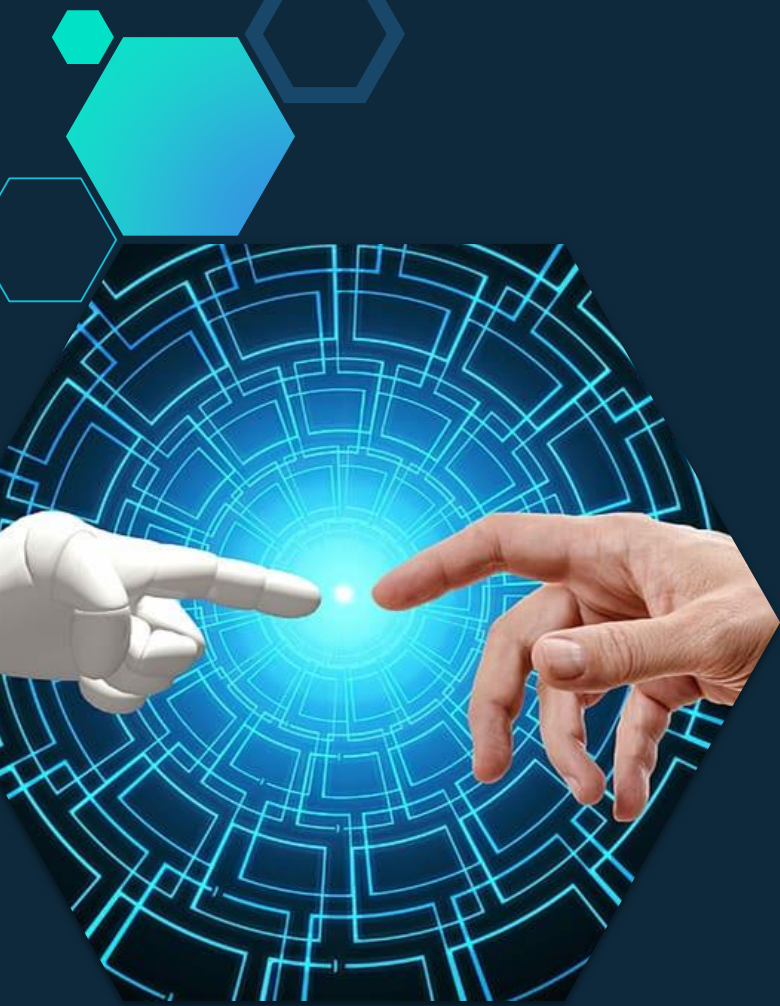
Commercial Way





ALEXA





Hands on 5.0 yet?

Era for changing the technology has already begun.

Man and Machine reconcile






5G Network

Neuralink



A worker in a white protective suit and mask is operating industrial machinery in a factory setting. The worker is focused on a large, cylindrical component of the machine. In the background, another worker is visible near a green door. The scene is brightly lit with overhead lights.

Want to improve
economy?
Improve Industry.





References:

- ◇ "Industry 4.0 in Artificial Intelligence - AI Objectives", *AI Objectives*, 2020. [Online]. Available: <https://www.aiobjectives.com/2019/11/14/industry-4-0-in-artificial-intelligence/>.
- ◇ "The Future of Artificial Intelligence in Manufacturing Industries", *Plantautomation-technology.com*, 2020. [Online]. Available: <https://www.plantautomation-technology.com/articles/the-future-of-artificial-intelligence-in-manufacturing-industries>.
- ◇ "The Industrial Revolution from Industry 1.0 to 5.0! - Supply Chain Game Changer™", *Supply Chain Game Changer™*, 2020. [Online]. Available: <https://supplychaingamechanger.com/the-industrial-revolution-from-industry-1-0-to-industry-5-0/>





Thanks!

Any questions?

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