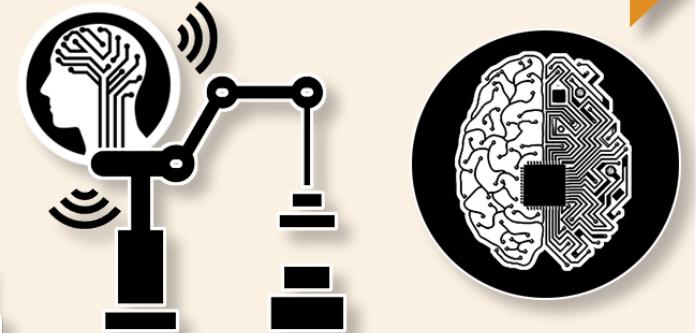
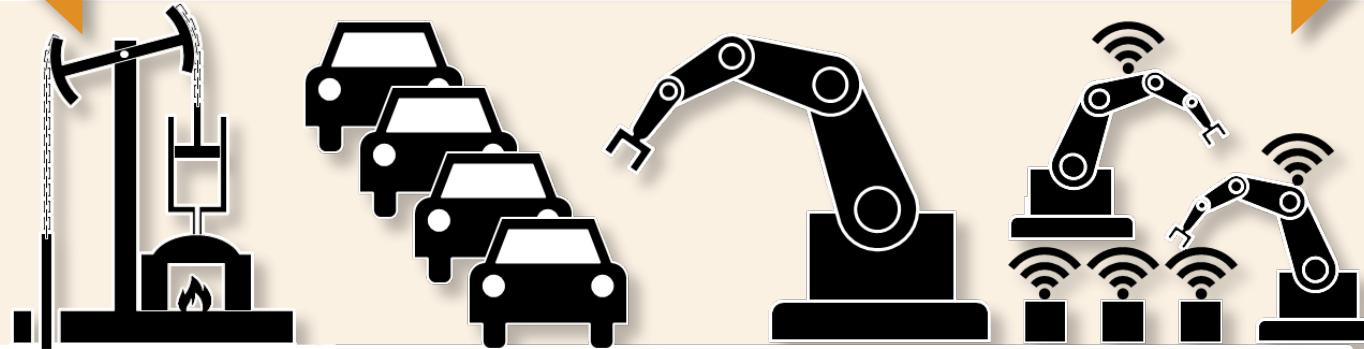


PAST

PRESENT

FUTURE



1st Stage

2nd Stage

3rd Stage

4th Stage

5th Stage

6th Stage

7th Stage

8th Stage

Human Labor Force (Specialization)

Manpower is Replaced with Domestic Animals

Mechanization, Water Power, Steam Power

Mass Production Assembly Line, Mechanization

Computer Aided Automation, CAD/CAM

Sensor Robotic Manufacturing With A.I.

Mentally Directed CAD/CAM Brain/Machine Interface

A.I. Anticipates Human Needs and Plans Resources

0.1 - Early humans were left to their own resources and abilities to solve problems. Sometimes they solved problems well, other times they had to work together to survive. Over time we stratified our communities to more efficiently accomplish tasks and worked together to teach the next generation better ways to survive.

0.5 - As human beings domesticated dogs, horses and other livestock, our lives became easier with a more steady food supply, better living conditions and animals began to share the burden of work. What took a team of men a week to do in the fields, an ox could do in a day.

1.0 - Along with human and animal power, the continued specialization of roles in society helped lead to the advent of engineering and technology. Through these sciences, chemical power sources were developed to do work without the help of organic bodies. For the first time, machines and metal were tasked with working successfully.

2.0 - With the creation of machines that can produce parts consistently, you now have the basis for the production line. Repeatable parts leads to repeatable and consistent quality of products and processes. People were there to do the tasks that the machines could not do yet. The power of man shifted from the neck down to the neck up.

3.0 - Again, as machine took over the menial tasks of muscle, the mind is left freer to learn and expand human technology. Science led to semi-conductor products and the computer age began. Initially, Hardware costs were the bulk of the expense for CAD, but this shifted as hardware was mass produced and software became much more sophisticated.

4.0 - Semi-conductor and additional scientific breakthroughs led to better sensors and feedback mechanical systems, better robotic manufacturing processes. As software becomes more sophisticated and better able to sense the environment, CAM systems produce quality beyond what human beings can reproduce.

5.0 - The interface to computer CAD/CAM is streamlined by human thought and materials are 3D printed based on socio-economic needs. Most major appliances and home systems are automated to respond to human speech and highly sophisticated transportation systems respond to a central grid to maximize efficiency and safety.

6.0 - Manufacturing resources are managed by computerized systems, human beings move from a wealth based system to a cellular need culture and A.I.s manage resources, movement, scientific endeavors as well as living conditions to maximum efficiency. Human creativity an insights are shared at light speed globally.