



ROBOTICS

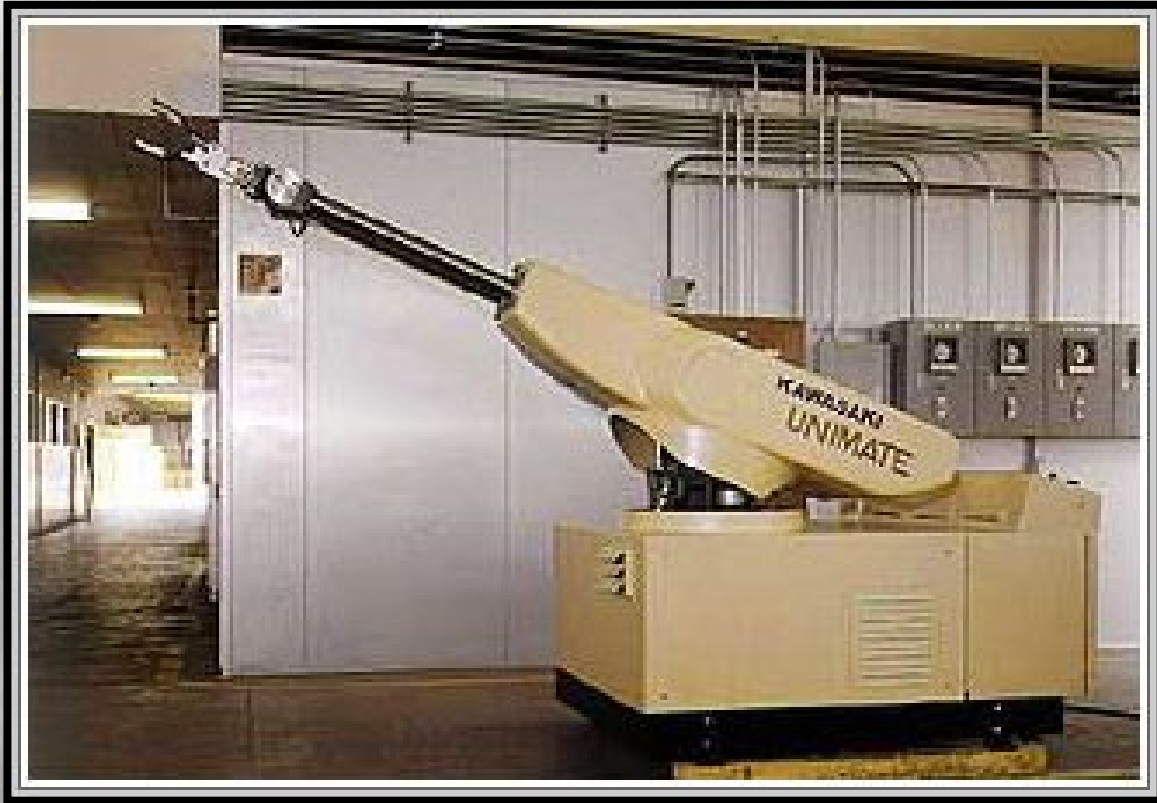
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INTRODUCTION

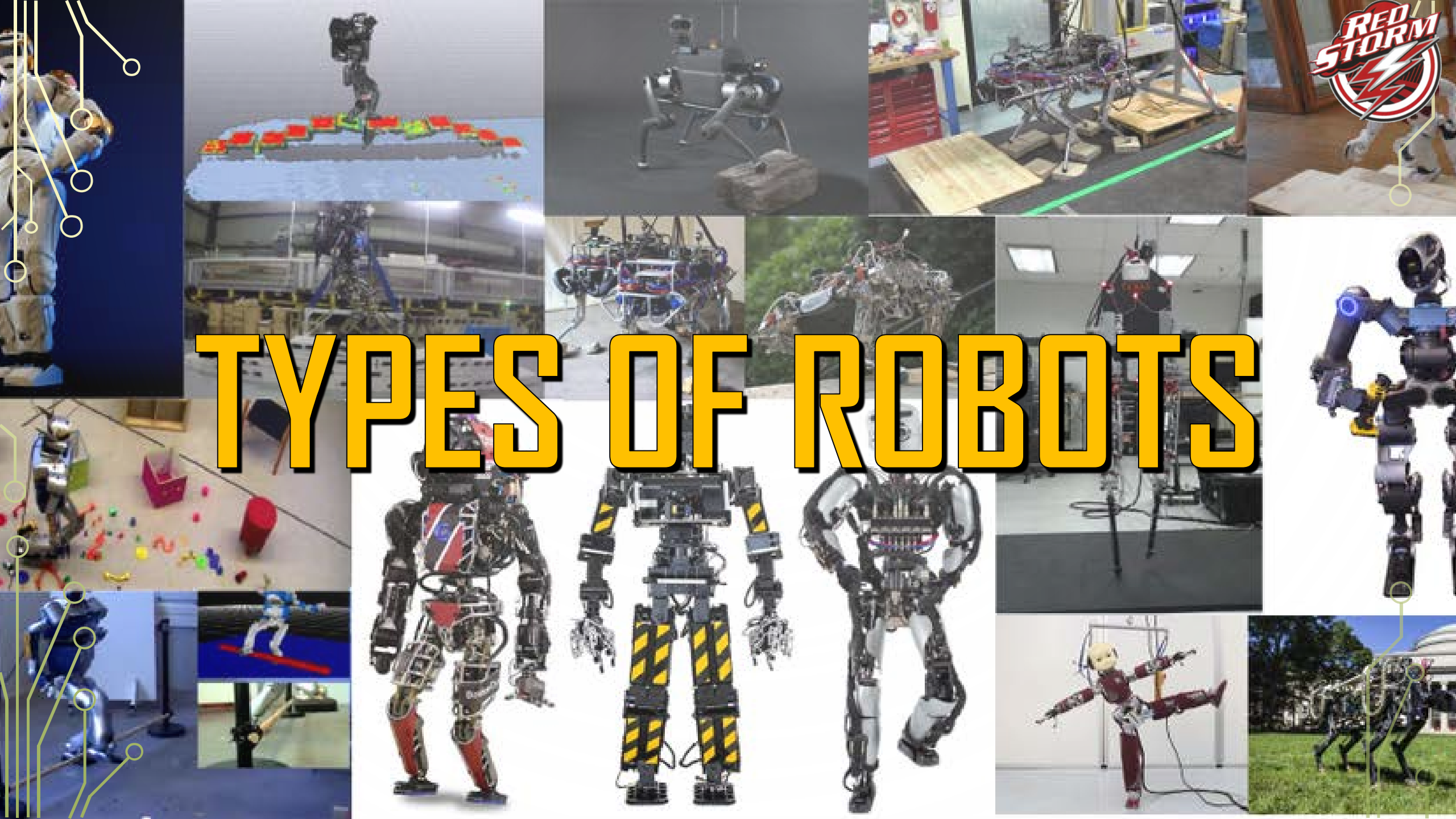


Mother of invention is “necessity” . Applying to robots, they are a direct result of a need for efficiency and speed in the workplace. They accomplish jobs that human beings cannot perform efficiently or at all. Robots were developed also from curiosity, creativity and discovery. They are used to explore worlds that the human cannot survive. They are slowly becoming an important part of our lives, responding to our needs. as they are slowly integrating into our daily lives and being utilized in domestic, military, medicinal purposes, entertainment and sea exploration. They make human activity easier to perform and make life simple.

WHO STARTED IT?



- ➤ The Word robot was coined by Isaac Asimov in a science fiction story called "LIAR"
- ➤ The Word robot also appeared in RAR, a story by Karel Capek
- ➤ George Devol created the first industrial robot, the Unimate
- ➤ Engleberger is known as the father of robotics



TYPES OF ROBOTS



AGRICULTURAL ROBOTS



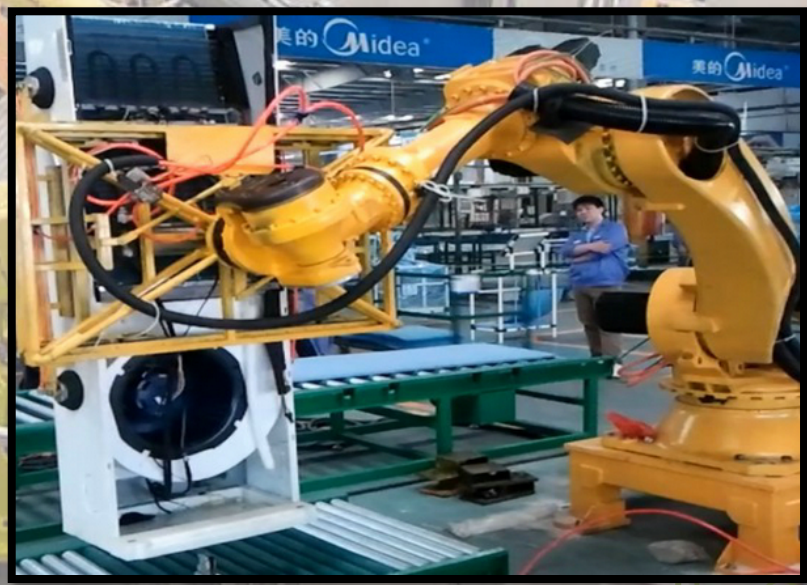
An agricultural robot is a robot programmed for agricultural tasks. They are mainly applied in the harvesting stage. Applications emerging are weed control, cloud seeding, planting seeds, harvesting, environmental monitoring and soil analysis.



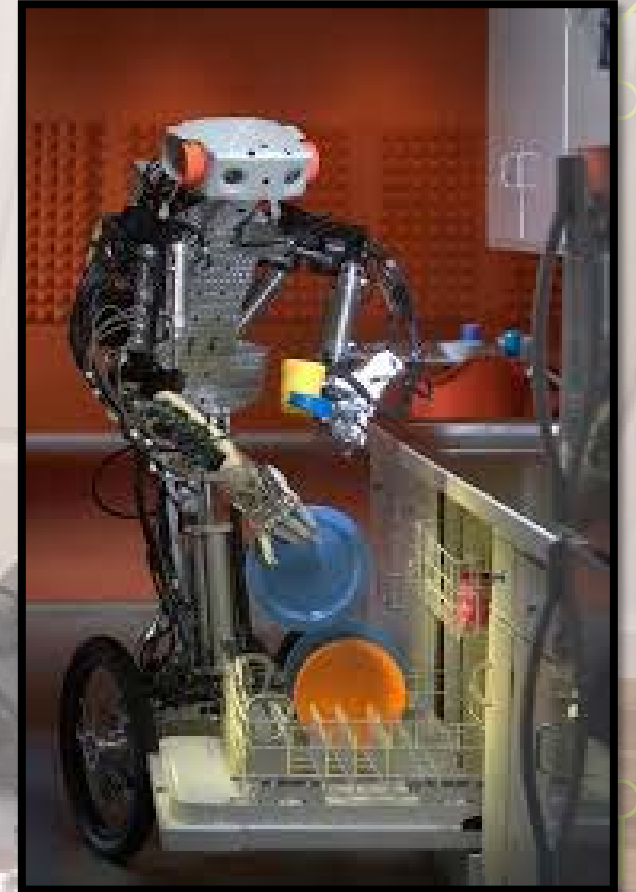


INDUSTRIAL ROBOTS

- An industrial robot is a robot system used for manufacturing. They are automated, programmable and capable of movement on two or more axes. They apply in car assembly, packaging, mixing doe, machine loading robots and many more



DOMESTIC/HOUSEHOLD ROBOTS

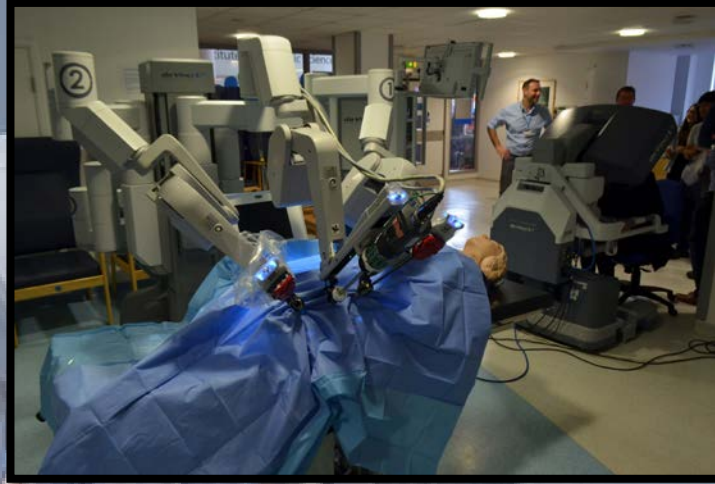


A domestic/ household robot is a type of service robot, an autonomous robot that is used for household chores, for education, entertainment or therapy.

MEDICAL ROBOTS



- A medical robot is a robot used in the medical sciences, including surgical robots. These are in most tele manipulators, which use the surgeon's actions on one side to control the "effector" on the other side.



SERVICE ROBOTS



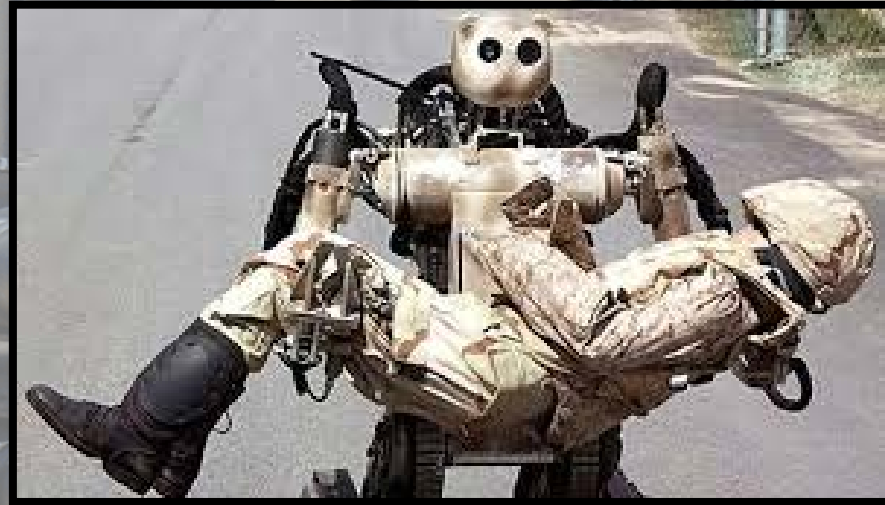
Service robots assist human beings, typically by performing a job that is dirty, dull, distant, dangerous or repetitive, including household chores. They typically are autonomous and/or operated by a built-in control system, with manual override options.



MILITARY ROBOT



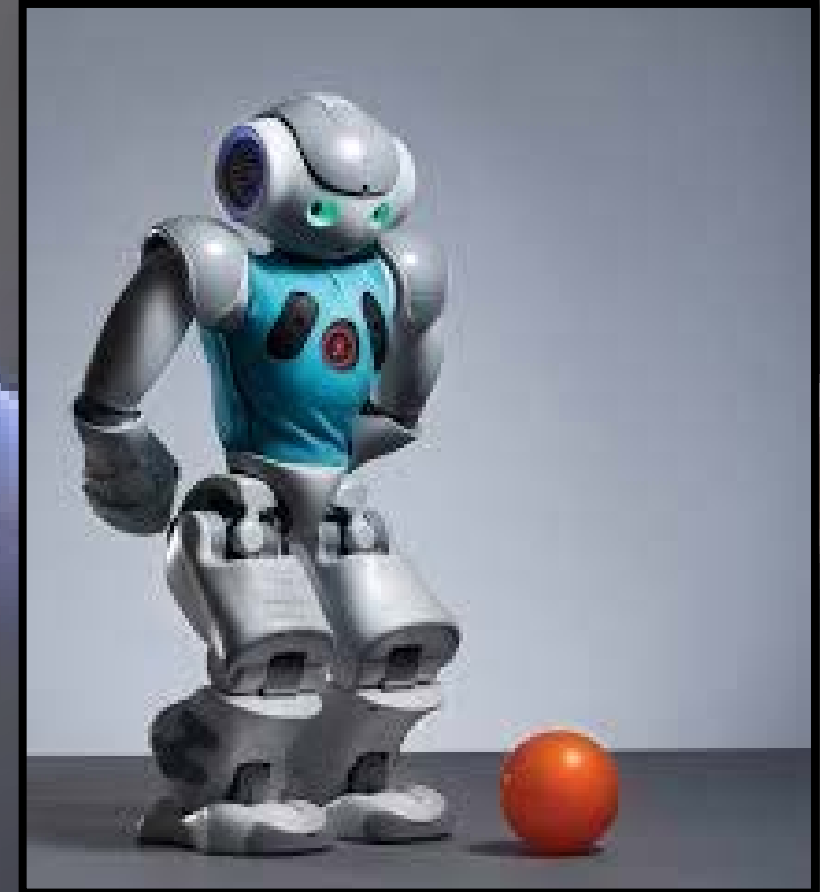
Military robots are autonomous robots or remote-controlled mobile robots designed for military applications, from transport to search & rescue and attack.



ENTERTAINMENT ROBOT



An entertainment robot is a robot that is not made for satisfaction use but for the sole subjective pleasure of the human. It serves, usually the owner or his housemates, guests or clients.



UNDERWATER ROBOTS



Underwater robots are autonomous, or remotely operated robots made for exploration of the sea.



ELECTRIC MOBILITY ROBOT



- Electric Mobility robots are robots that move around using electric motors. Most common mobility robots are Segway's and 'hoverboards'



SEARCH, RESCUE AND SERVICE ROBOTS

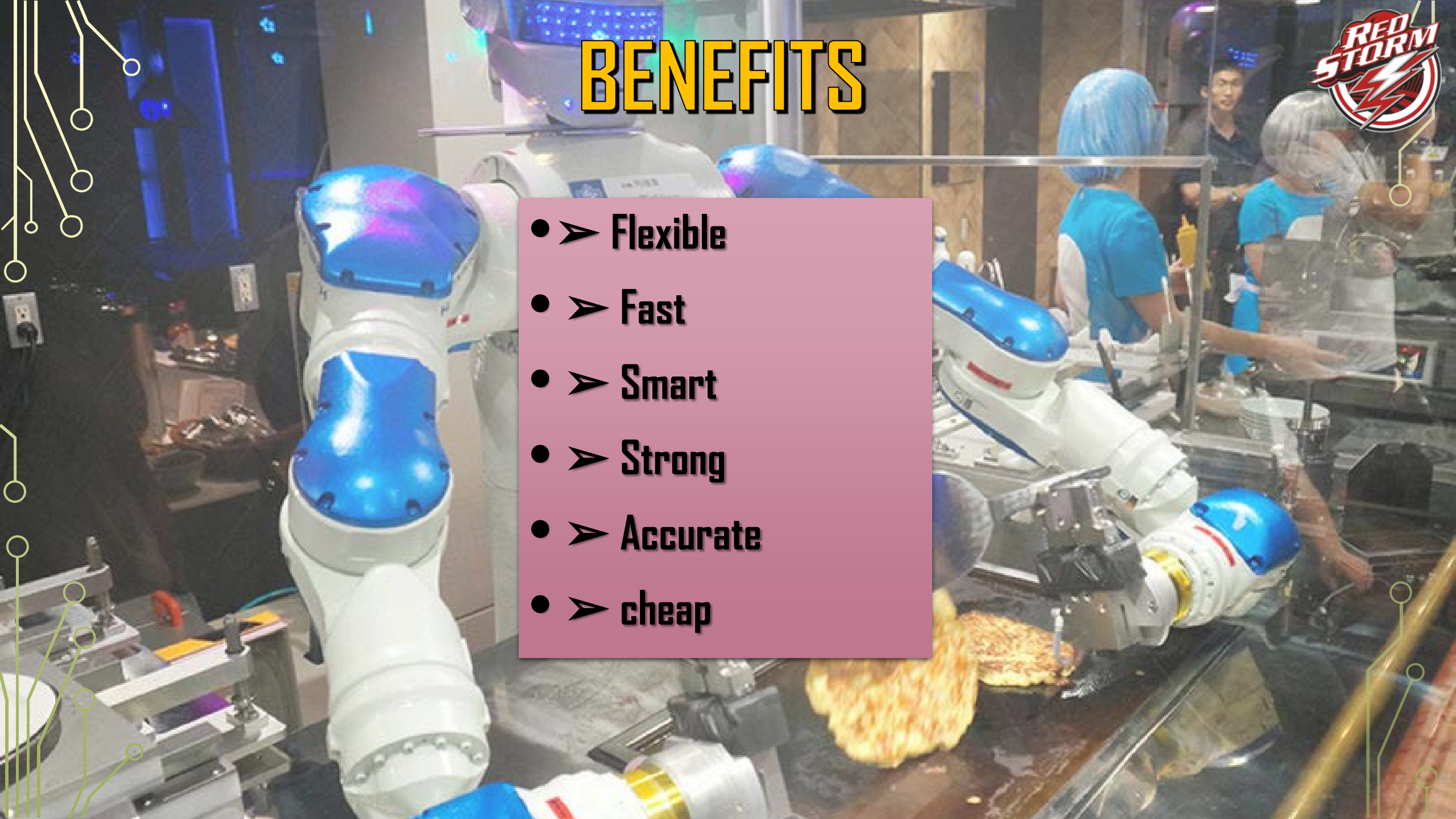


- Search, rescue and security robots are robots deployed to help people in disasters and protect people. They are used for bomb disarmament, searching for survivors in tight places humans can't reach and survey an area.

BENEFITS



- ➤ Flexible
- ➤ Fast
- ➤ Smart
- ➤ Strong
- ➤ Accurate
- ➤ cheap



CONCLUSION



- In conclusion, robots have become a part of our daily lives. They have taken over the jobs we as human cannot do efficiently and fast. They have also become responsible for how we learn, eat, have fun, discover and medicate. They continue to evolve to meet our needs everyday.

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