**Chosen Technology/Topic**

**The page or area describing your chosen technology/topic and why it is significant and/or has important implications for society.**

**The Future of employment, jobs and work through automation of Industrial Robots.**

**Industrial robots are robotic arms that are programmed to perform specific tasks in the industrial environment. The tasks they perform could be categorized in**

**Robot system used for manufacturing. Industrial robots are automated / programmable and capable of movement on three or more axis.**

**There are many different types of automation applications that industrial robot are equipped to handle. Often robots are designed or integrated with specific task in mind and tailored to meet the unique needs of that task.**

**Some common forms of robotic automation include welding, handling and packing, pick and place, dispensing and cutting.**

**Robotics are being used in many aspects of manufacturing to help increase productivity and efficiency while lowering production costs. Similar to the healthcare industry many robots in manufacturing collaborate with workers to perform intricate tasks under workers guidance and control.**

**With these machines precision valued more than speed as is the ability to be reprogrammed for specific tasks of different sizes and complexity.**

**Robotic manufacturing technology is also becoming safer to operate. Cameras, sensors and automatic shut-off enable robots to sense and stay clear of the humans in workplace.**

**The robot’s actions are directed by a combination of programming software and controls**

**Their automated functionality allows them to operate around the clock as well as with hazardous materials and in challenging environments. Thus freeing personnel to do other tasks.**

**Robotic technology also increases productivity and profitability while eliminating labor intensive activities that might cause physical strain or injury.**

**Despite high initial costs, industrial robots deliver great return on investment.**

*When deciding on your chosen technology/topic, it is best not to choose something too broad, but limit the focus e.g. consider the level of social analysis from the figure below.*

*E.g. What is the level of analysis - culture or organization; Responsibility - individual or professional; Ethical issue - power or equity; Technology - medical, nuclear, mobile?*

<https://education.vex.com/stemlabs/workcell/stemlab/industrial-robotics/what-are-industrial-robots?lng=en>

<https://www.youtube.com/watch?v=Cndodc3X50s>

# Technology Opportunities

**The page or area describing the opportunities presented by your chosen technology/topic.**

**Opportunities presented by The Future of employment, jobs and work through automation of Industrial Robots.**

# Technology Risks

**The page or area describing the risks posed by your chosen technology/topic.**

# Technology Choices

**The page or area describing the choices available to us through or by your chosen technology/topic.**

# Ethical Issues and Reflections

**Ethical issues relating to the technology, your personal reflections and recommendations [Individual].**