

Are You Part of the Industry 4.0?

What differentiates Industry Revolution 4.0 to the other revolutions? Going digital. One example would be using artificial intelligence (AI) algorithms to design products. Industry 4.0 has four central principles: interoperability, information transparency, technical assistance and decentralized decision-making, which aims to improve the industry as a whole. Of course, the manufacturing and digital industry are major stakeholders in the implementation of Industry 4.0, but there are other industries that can be part of this revolution. By applying the central principles of Industry 4.0, it could potentially revamp two important industries in our lives: the transportation and healthcare industries.

The transportation industry is a vital industry in every country, as everyone will use it. Be it from driving yourself or taking public transportation, like buses and LRTS, everyone needs a form of transportation to get by. With the application of Industry 4.0 to transportation and logistics, it will aid both consumers and manufacturers. By using digital technology like big data analysis, artificial intelligence, IoT and cloud computing, it can help with weather forecasts, routing options based on real-time traffic and weather. Even navigation systems like Waze can be considered an application of Industry 4.0 in transportation as it uses digital access and connectivity in aiding drivers with routes and traffic management. Such use of digital access can improve the efficiency of the transportation system: quicker, safer rides, better schedules, easy transactions and also sustainable energy saving cars. With such development and integration, we can strive to turn our cities into smart cities!

Healthcare is essential for everyone in this world, and the healthcare industry is extremely important in making sure everyone gets the best health care that they are entitled to. Connecting medicine with electronics, software and sensors can do wonders for the healthcare industry. When there is digital integration, much needed medical devices are more accessible and efficient for consumers out there. The use of robotic assistance in surgery has proven to be more precise and better for patients. Innovation is also encouraged, like the invention of fitness bands and smart inhalers that now even track one's glucose levels. Digital connectivity also can help with collecting real life data that could help with medical research.

Application of Industry 4.0 in these industries would be a huge advantage, not just economically, but even for society as a whole. Application of digital access and connectivity is essential towards the improvement of one's quality of life, it helps us to realize the Sustainable Development Goals and also could further develop skills for future generations.

The Ministry of International Trade and Industry (MITI) is driving the Industry4WRD initiative to transform the manufacturing industry in Malaysia towards Industry 4.0 adoption. To find out how you can be ready for industry 4.0, visit MITI's website at <https://www.miti.gov.my/index.php/pages/view/4832>.