

Executive summary

Team 3

Nowadays, Automation and robotics technologies are widely merged into industry. There is a saying that A&R technologies would become the future of manufacturing. In this project, we found that the revenue of China's Dairy Industry surpassed that of Canada 16 billion per year because the fact that Chinese Dairy Companies are massively using A&R technologies from their manufacturing process to management system.

Therefore, we aim at making the most of A&R technologies inside of Dairy Industry in China. We targeted the second largest dairy company in China, Mengniu Co. Ltd.. They are using A&R technologies from getting the raw milk to product warehouse management. Also, during their manufacturing line, there is no labor involved and products at the same time will go through 105 tests in 35 steps to ensure the quality and traceability.

At the same time, we noted that, as the same milk demanding country as China, India seldom uses A&R technologies to receive their raw milk. Instead, their farms is still using hands to get milk from the cows, and the manufacturers fetch the raw milk from every provider by the large bottles. This is relatively low efficient and sometimes would cause food contamination.

Therefore, we decided to apply the A&R technologies used inside of Chinese dairy industry, Mengniu Co. Ltd, to the Indian dairy industry. Installing the milking system for Indian manufacturers and providing them solutions to successfully manage their manufacturing process and product management system.

Along with the project, we investigated the regulations and government policies behind the A&R technologies in China and India. Chinese government believes that A&R technology is a mean to boost their economy and regulations focus on patents instead of how to use these technologies. While India Government has no regulation or policy involved up to now, because they are labor-based manufacturing process.

Furthermore, we expand the applications of A&R technologies into other food industries and other area to provide the version that how A&R technologies are changing the whole world.