

NIPPON STEEL ENGINEERING CO., LTD.



- Address: Shinagawa-ku, Tokyo
- Employees: 4758
- Established in 2006
- Business: Construction

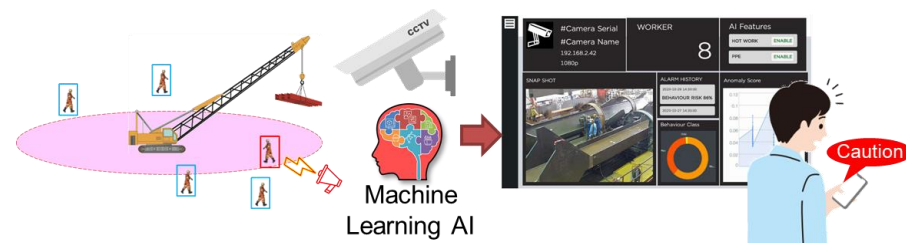
<https://www.eng.nipponsteel.com/english/>

Outline of the demonstration project

- Advanced Safety management system for Manufacturing and Construction site worker by using image sensing AI

Cooperation with local companies/governments

- Local partner: AI and Robotics Ventures Company Limited
- Details of cooperation and collaboration: Joint development of machine learning AI



Targeted economic/social issues

- In ASEAN countries including Thailand, awareness of "safety and health" is increasing, and the realization of safe workplaces in the manufacturing and construction sectors is a social issue.
- In Thailand, a shortage of workers due to the declining birthrate and aging population has become significant, leading to a decline in productivity.

Details of demonstration

- Introduction of an advanced safety monitoring system that recognizes and classifies the status of on-site work in real time through video devices, evaluates safety, and warns of safety risks.
- Development of a unique AI that can read on-site information from videos.
- This system, which uses image processing technology that can not only detect objects but also recognize the working state of workers, is a unique initiative in ASEAN not only in Thailand.

Expected outcome of beneficiary effects

- The system reduces the burden on managers who work for safety management on a daily basis, and contributes to improving productivity by enabling them to work in safer workplaces.
- The system can also help solve the shortage of human resources by monitoring safety in areas that we cannot keep an eye on due to time and location constraints.