As digital technologies are rapidly becoming an integral part of our daily lives, every industry is racing to embrace digital transformation as a vehicle to deliver better products and services to their consumers. Public sector organisations are no exception; it is universally accepted that only digital transformation could radically enhance services to public and lower overall operating costs. Within the context of digital transformation, data sciences play a key role by enabling organisations to understand their customers better and provide unmatched customer experience. For example, companies like Amazon, Disney and Uber rely heavily on data analytics to continually improve and innovate their services. This presentation aims to emphasise the role of data sciences in digital transformation projects. Following a brief introduction to key technologies, a wide range of case studies are presented to highlight the use of data science technologies in digital transformation projects. The presentation will also discuss challenges and opportunities of digital transformation projects in the public sector.

**Keywords:** data science, digital technologies, industry

This report presents a proposal for the implementation of STEM (Science, Technology, Engineering and Mathematics) - education across state schools in Sri Lanka. The project partnered with SCCIP Japan Company Limited (SCCIP) and Kaatsu International University(KIU) – STEM Center will manifest the importance of a curriculum based on Robotics Education for students from grade one to grade ten in state schools in order to create a school culture where the significance of STEM education is highly recognized and valued. The project aims to consolidate the skills of students such as critical thinking, application of information gained through experience and reasoning and integration various education disciplines to solve authentic problems thereby, fostering innovation and entrepreneurial spirit among the young work-force of the country. This project will motivate for a strong robotics curriculum in order to encourage STEM education among school students. Robotics education is of a substantial platform to influence students as this will utilize student imagination for the process of designing, building and testing solutions for real-world problems. The novel curriculum will fulfill the needs of economic, scientific and technological developments in the contemporary world of the fourth Industrial Revolution. This will strongly focus on student preparing to enter the job market with the necessary skills set which is an inadequate factor in the current education curricula.

The initial pilot project will commence with the launch of the robotics-based curriculum (developed by SCCIP) to a selected group of state schools across Sri Lanka. The schools include Royal College, Ananda College, Vishaka Vidyalaya, Sangamitha Balika Vidyalaya, Hemali Balika Vidyalaya and Darussalam Maha Vidyalaya. SCCIP intends to provide a STEM Robotics Curriculum for each grade, a STEM Robotics trained teacher and required STEM Robotics Kits and Software. This pilot project would encourage students to participate in Robotics competitions actively, conduct student-teacher exchange programs, summer camps & tours, etc. that will show cast Japanese advanced Technology and to develop the knowledge, skills & habits of mind associated with STEM disciplines by adopting an interdisciplinary & applied approach.

**Keywords:** School education, Encourage Students, Robotics Curriculum